# GM 46331

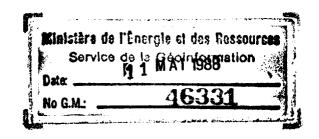
RAPPORT LITHOGEOCHIMIQUE DE SURFACE, PROPRIETE LA PAUSE

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### RAPPORT LITHOGEOCHIMIQUE

DE SURFACE

## PROPRIETE LA PAUSE

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Lors de l'été 1986, une campagne de cartographie a été effectuée par Benoit Moreau et Dominique Beaudry sur la portion nord de la propriété La Pause de la compagnie Ressources La Pause Inc. conjointement à cette cartographie, un échantillonnage lithogéochimique a aussi été effectué et des analyses pour les éléments majeurs ont été demandées.

Suite à ces travaux, les analyses ont permis de faire ressortir plus particulièrement la nature ultra-mafique de certaines roches. Cependant, quelques analyses pour le platine et le palladium réalisées sur ces roches n'ont pas donné de résultats satisfaisants. De même, un échantillon observé sur le terrain a montré des signes de ce qui semble être une texture à spinifex rendant à ces roches un caractère effusif. Il faut cependant prendre note que les analyses pour le Ni, le Co et le Cr n'ont pas été réalisées et auraient pu apporter des informations très pertinentes dans ce cas.

Donc pour la prochaine campagne, des travaux de décapage sont à prévoir pour permettre un échantillonnage plus systématique autant dans la partie nord que le reste de la propriété. Certains affleurements devront sans doute être revisités et à la lumière de ces nouvelles données, la campagne de forage pourra s'amorcer.

### INTRODUCTION

Le présent rapport fait état des résultats obtenus lors d'analyses pour éléments majeurs sur les échantillons des lithologies de surface sur la propriété La Pause, dont Ressources La Pause Inc. est propriétaire à 100%.

La campagne d'échantillonnage lithogéochimique de surface sur la propriété s'est déroulée au cours de l'été 1986 et a été réalisée simultanément à un levé géologique détaillé de la partie nord et de quelques tranchées. Ces travaux ont été effectués par Benoit Moreau et Dominique Beaudry. Cette campagne d'échantillonnage avait pour but la détection de zones géochimiquement anomaliques pouvant conduire à la localisation de sites minéralisés.

Suite à cet échantillonnage, la totalité des données recueillies a été traitée par M. Jean Descarreaux pour faciliter l'identification et la nature des lithologies rencontrées et aussi pour faire apparaître, grâce aux différentes altérations prépondérantes, les sites anomaliques.

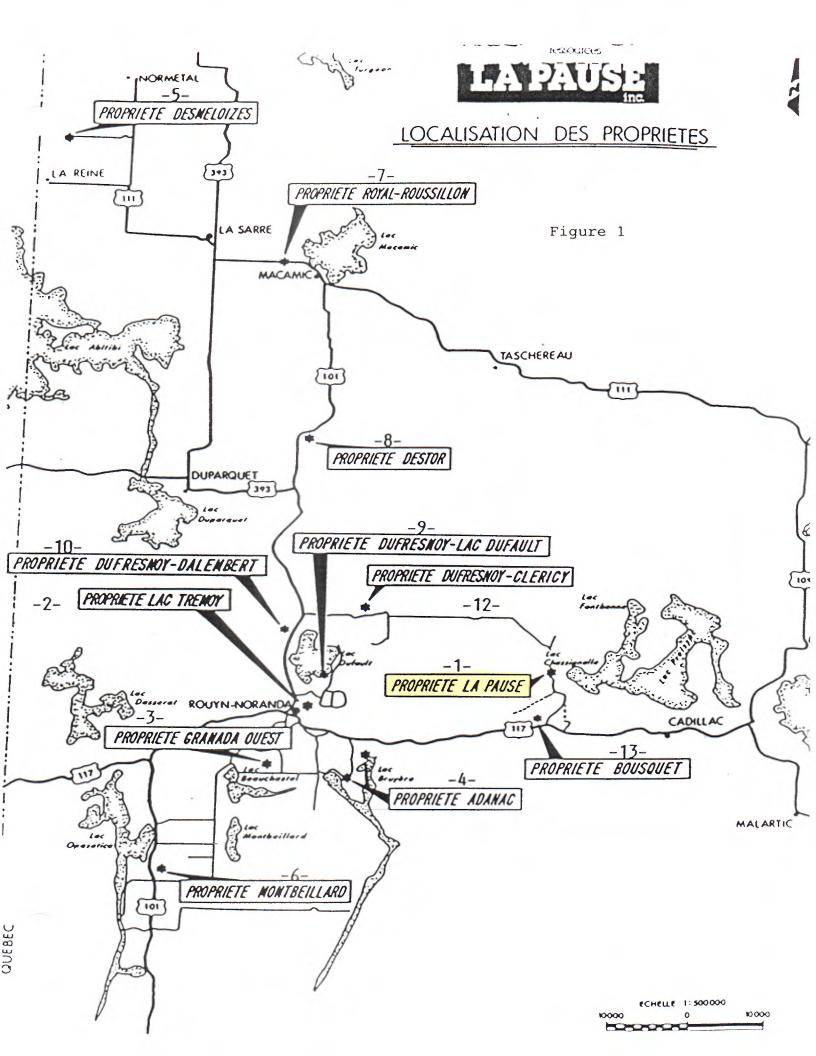
### PROPRIETE, LOCALISATION ET ACCES

La propriété comprend 56 claims contigus couvrant une superficie d'environ 1940 hectares (4850 acres). Elle est située à 8 km au nord de la route 117 et à 35 km à l'est de Rouyn-Noranda (fig. 1). On peut aussi la situer facilement par la proximité de la Mine Doyon un peu au sud.

Pour y accéder de Rouyn-Noranda, on emprunte la route 117 sur une distance d'environ 35 km en direction de l'est puis on bifurque au nord sur une route secondaire pour y parcourir 8 km avant d'atteindre les limites sud de la propriété. Cette même route est celle qui mène vers les villages de Mont-Brun et Cléricy et traverse entièrement la propriété selon un axe presque nord-sud avant d'en ressortir à l'extrême nord-ouest.

#### TRAVAUX ANTERIEURS

Pour avoir de plus amples détails sur les travaux antérieurs, le lecteur est prié de consulter les rapports de C. Lavoie 1985 et C. Bernier 1986. Signalons cependant que les derniers travaux effectués sur la propriété et concernant le présent rapport, comprennent une cartographie géologique et un échantillonnage lithogéochimique de la partie nord de la propriété à l'été 86, des levés de polarisation provoquée et magnétiques sur le bloc sud-ouest après coupe de lignes au 125 mètres, une campagne d'échantillonnage d'environ 1200 échantillons d'humus à l'automne 86 et enfin 8 forages au diamant à l'hiver 87.



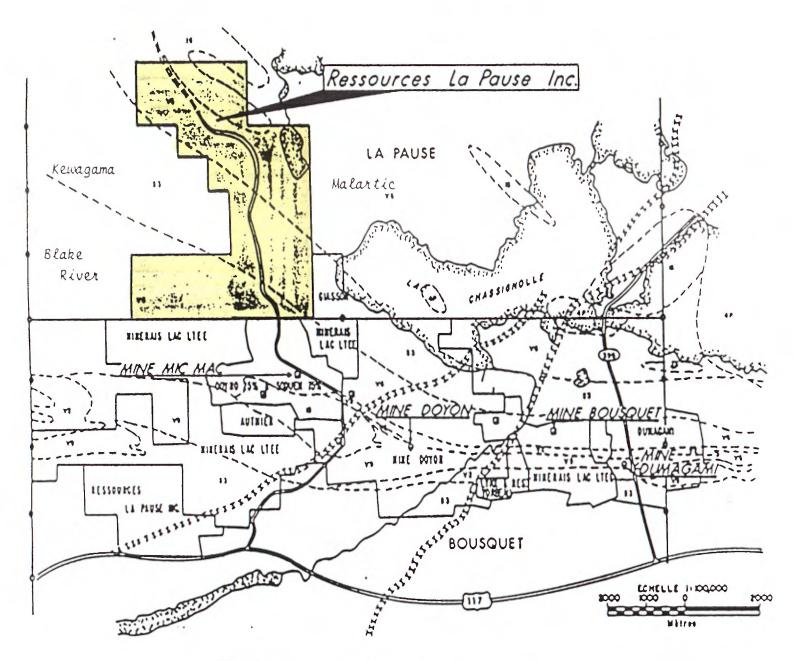


Figure 3 Géologie régionale

#### CONTEXTE GEOLOGIQUE

Les différentes formations géologiques que l'on rencontre sur la propriété La Pause font partie de roches d'âge Archéen de la Province du Lac Supérieur et du Bouclier Canadien, à l'exception de quelques dykes intrusifs plus récents. Ce sont des unités volcaniques mafiques altérées en alternance avec des bandes de sédiments; ces unités étant à leur tour recoupées par des intrusifs de granite, granodiorite et de porphyre.

Tout d'abord, les roches de la formation de Malartic, qui se retrouvent au nord de la propriété, sont principalement composées à 80% de basalte et comblées par des intrusifs, des tufs felsiques et possiblement des roches ultra-mafiques.

La partie centrale, quant à elle, est recouverte par les roches sédimentaires du Groupe de Kewagama, constituées de conglomérats, grauwackes et localement de bandes de graphite en alternance avec des niveaux de tufs laminés.

Au sud, les principales unités que l'on observe font partie du Groupe de Blake River et sont constituées de roches volcaniques basaltiques.

Au point de vue structurale, on peut observer que les contacts volcano-sédimentaires accusent une orientation préférentiellement NO-SE. On remarque aussi qu'une faille majeure vient recouper la propriété et la traverse selon un axe aussi NO-SE, en coı̈ncidence avec la route secondaire dans sa portion nord. Après l'avoir observée en détail dans les forages de 87, Jeanne Lebel considère qu'il pourrait s'agir de la faille Porcupine-Destor. D'autres failles viennent parcourir la propriété et sont compilées sur la carte géoscientifique en pochette.

#### **MINERALISATION**

Jusqu'à présent, les travaux effectués sur la propriété La Pause permettent de croire à une minéralisation de type Au-Ag-Mo associée aux roches intrusives et aux failles ou à des veines de quartz. Aussi certaines tendances ultra-mafiques ont été détectées lors des analyses de même que sur le terrain et laissent supposer la présence d'une minéralisation en platine (platinoïdes). L'étude approfondie de ces roches devrait permettre de cerner davantage des zones d'intérêt pour faire des recherches en ce sens. Quelques rejets de forage ont d'ailleurs été analysés pour le Pt-Pd et font l'objet d'un rapport par Marc-André Cloutier 1986. Les résultats quoique peu encourageants, prédisposent malgré tout à une exploration axée sur ce type de minéralisation.

#### ECHANTILLONNAGE LITHOGEOCHIMIQUE DE SURFACE

C'est à l'été 86 que l'échantillonnage des roches de surface de la propriété La Pause a eu lieu, conjointement à une cartographie détaillée (1:2000, 1:200) de la portion Nord de la propriété. Au total, 132 échantillons ont été recueillis et analysés pour les éléments majeurs suivants: SiO<sub>2</sub>, TiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, Fe<sub>2</sub>O<sub>3</sub>, MnO, CaO, Na<sub>2</sub>O, K<sub>2</sub>O et P<sub>2</sub>O<sub>5</sub> en plus du pourcentage de perte au feu (LOI), bon indice de l'état d'altération de la roche. Le tableau l nous donne la composition moyenne des lithologies, identifiées après analyses par Jeanne Lebel.

La localisation de ces échantillons se retrouve aux cartes 1, 2 et 3 en pochette, de même qu'on peut trouver à l'annexe 1 la liste complète des échantillons avec leurs numéros d'analyse (no. livre), numéros d'envoi (no. sac), et numéros de localisation sur la carte. Cette liste comporte également une description macroscopique sommaire des roches, telle que réalisée sur le terrain.

Ces données d'analyse brutes (annexe 2) ont par la suite été traitées par M. J. Descarreaux qui a effectué la normalisation des résultats, les diagrammes de Jensen et AFM, les diagrammes comportant le rapport avec les courbes standards pour l'Abitibi, les histogrammes et une table de corrélation. Ce traitement des données, effectué pour chaque échantillon est d'ailleurs reporté à l'annexe 3, tandis que les diagrammes et les courbes se retrouvent aux figures 4 à 14.

Tout d'abord, selon les analyses effectuées et les résultats en SiO<sub>2</sub> obtenus et d'après les critères de classification qui suivent:

Nous avons pu répertorier; 56 basaltes, 24 andésites, 6 dacites, 24 rhyodacites et 22 rhyolites. Cependant, selon les résultats obtenus après réalisation du diagramme de Jensen (figure 5), on peut identifier plus spécifiquement:

- 41 Basaltes tholéïtiques
- 36 Rhyolites \*
- 23 tholéïtes riches en Mg
- 13 tholéïtes riches en Fe
- 11 Dacites
- 3 Komatiites basaltiques
- 3 andésites
- 1 basalte
- 1 tholéite dacitique

TABLEAU 1

Composition moyenne des lithologies rencontrées sur la propriété

La Pause lors de la campagne de cartographie été 1986

Lithologie	Ultramafi	te ¦	Basa	lte ;	tu	f	: grani	te	granop	hyres ;	daci	te	grabbro	Porphyre
,	13	1	51	·	1	1	1	3	15		3		1	1
SiO <sub>2</sub> TiO <sub>2</sub> Al <sub>2</sub> O <sub>3</sub> Fe <sub>2</sub> O <sub>3</sub> MnO MgO CaO Na <sub>2</sub> O K <sub>2</sub> O P <sub>2</sub> O <sub>5</sub> LO1	42,55x 0,33 5,67 10,65 0,17 23,72 6,14 0,09 (0,11 0,07	é.t. 4,30 0,06 1,30 1,04 0,04 2,95 2,79 0,06 0,03 4,22	50,88 0,78 14,67 12,71 0,20 6,24 7,50 2,60 0,32 0,10	6.t. 1,75 0,26 1,02 16,80 0,03 1,26 1,66 0,97 0,48 0,04 2,10		é.t. 7,78 0,03 1,61 2,27 0,05 1,98 2,39 1,12 0,68 0,04 2,73	69,00 0,27 16,24 2,05 0,03 1,08 1,90 6,35 1,37 0,11	é.t. 2,00 0,06 1,12 0,70 0,01 0,42 0,74 1,91 0,90 0,05 1,04	67,48 0,31 16,33 2,60 0,03 1,38 2,10 6,96 0,96 0,12	é.t. 2,98 0,07 11,57 0,67 0,01 0,40 0,72 1,42 0,57 0,05 0,88	68,95   0,29   15,64   2,62   0,03   1,32   2,35   5,61   1,25   0,11	é.t. 1,10 0,03 0,35 0,56 0,01 0,43 0,46 0,45 0,49 0,02	49,76 0,56 12,67 8,76 0,18 9,40 6,90 1,26 2,53 0,11 7,87	61,16 0,56 17,67 4,16 0,06 2,06 4,30 8,51 0,27 0,25 1,00
	100,00		100,00		100,00	 	100,00	)   	100,00		100,00	· ·	100,00	100,00

Les moyennes pour chaque oxyde sont recalculées de façon à ce que leurs totaux égalent 100,00%.

Tableau qui se trouve dans le rapport de campagne de forage de "La Pause" par Jeanne Lebel

## LIST OF SYMBOLS FOR THE NORMATIVE MINERALS

QRTZ	Quartz	FLDL Fayali	te (Olivine)
CRND	Corundum	HALT Halite	•
ORTH	Orthoclase	FLRN Fluori	ne
ALET	Albite	THNR Thenar	dite
ANRT	Anorthite	PYRT Pyrite	•
LECT	Leucite	CHRM Chromi	te
NPHL	Nepheline	ZRCN Zircon	1
KLPH	Kaliophilite	CLCT Calcit	e
ACMT	Acmite		
MSLN	Metasilicate of sodium	Indexes from	n normative minerals
MSLK	Metasilicate of potassium	PLAGX Pla	gioclase index
WLLS	Wollastonite	ALKALIX Alk	ali index
PPSD	Diopside	FELSICX Fel	sic index
HPRS	Hypersthene	MAFICX Maf	ic index
OLVN	Olivine	BASICX Bas	icity index
OSLC	Orthosilicate of calcium	SOLIDX Sol	idification index
OMGNT	Magnetite	NCOLORX Nor	mative color index
HMTT	Hematite	CRYSTALX Cry	stallization index
ILMH	Ilmenite	DIFFERX Dif	ferentiation index
SPHN	Sphene		
PRVS	Perovskite		
RUTL	Rutile	LIST OF OTHER	R SYMBOLS
FLRP	Fluorapatite		
WLDP	Wollastonite (Diopside)	N(PREFIX)	Normalized
ENDP	Enstatite (Diopside)	I(PREFIX)	Integrer
FRDP	Ferrosilite (Diopside)	IN (PREFIX)	Normalized integrer
ENHP	Enstatite (Hypersthene)	JSERIES	Magmatic series from Jensen
FRHP	Ferrosilite (Hypersthene)	JNAME	Rock name from Jensen
FROL	Forsterite (Olivine)	ALK	Alkaline series
		CAL	Calalkaline series (Jensen)
		THL	Tholeiitic series (Jensen)
		KMT	Komatiite series (Jensen)
		UKM	Ultramafic komatiite (Jensen)
		GLMGO	Gain or loss (Descarreaux)
		GLNA2O	Gain or loss (Descarreaux)
		GLK2O	Gain or loss (Descarreaux)
		PRIORITY	Priority (Descarreaux)

Figure 4: Légende du diagramme de Jensen pour les séries magmatiques.

- 12 .

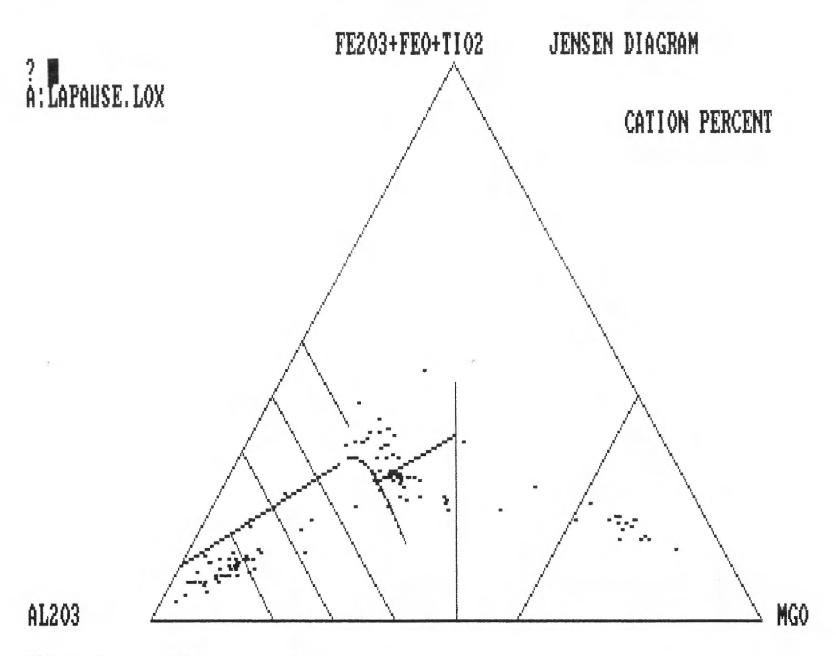


Figure 5: Diagramme de Jensen
Projet La Pause - Surface

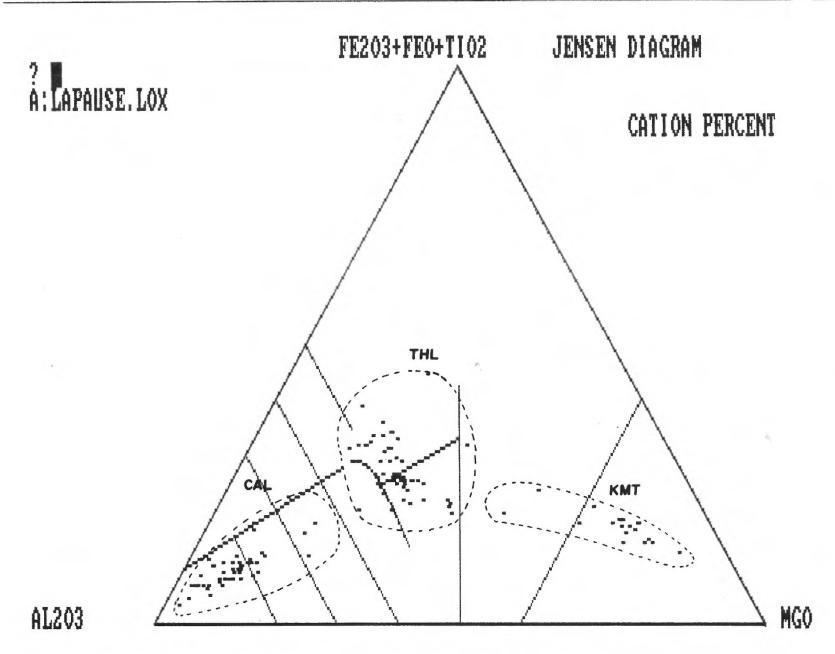


Figure 5: Diagramme de Jensen
Projet La Pause - Surface

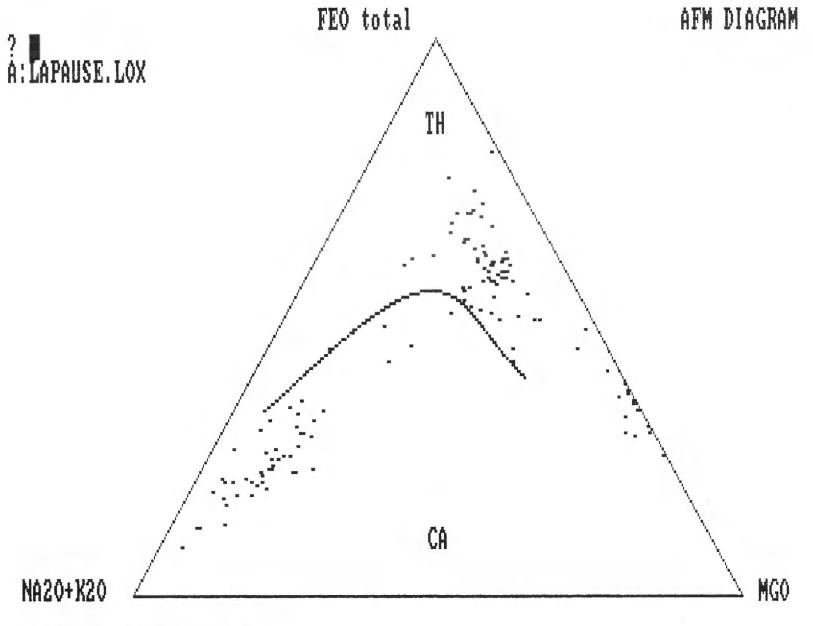


Figure 6: Diagramme AFM

Projet La Pause - surface

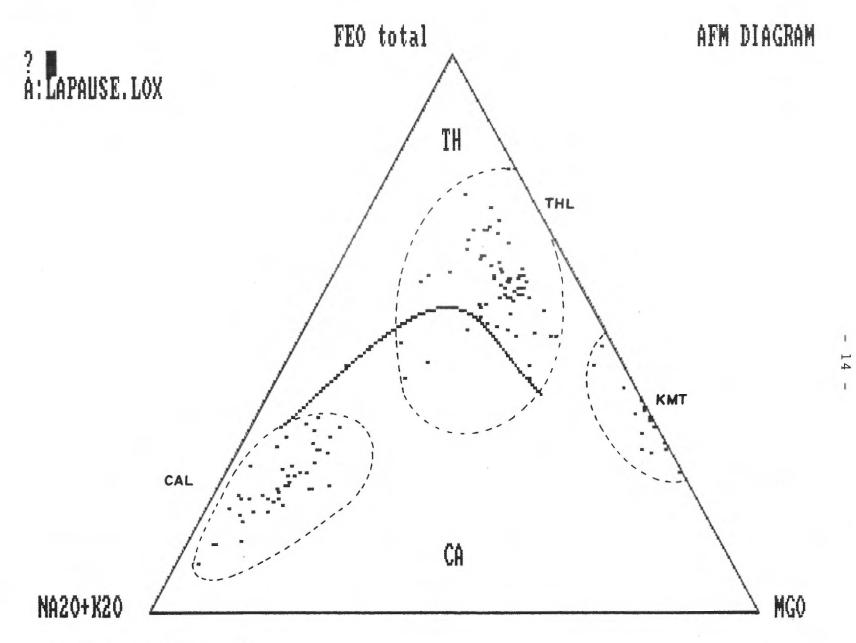


Figure 6: Diagramme AFM

Projet La Pause - surface

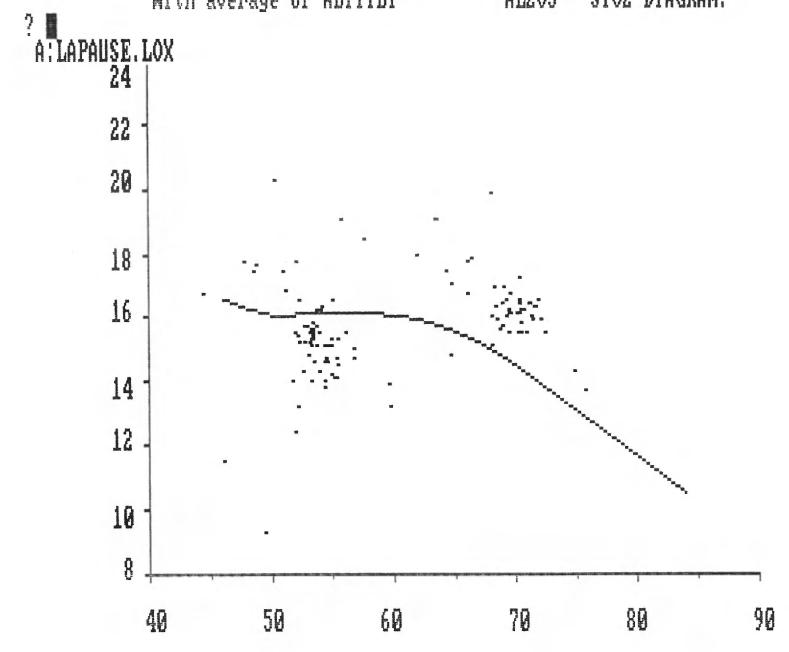


Figure 7



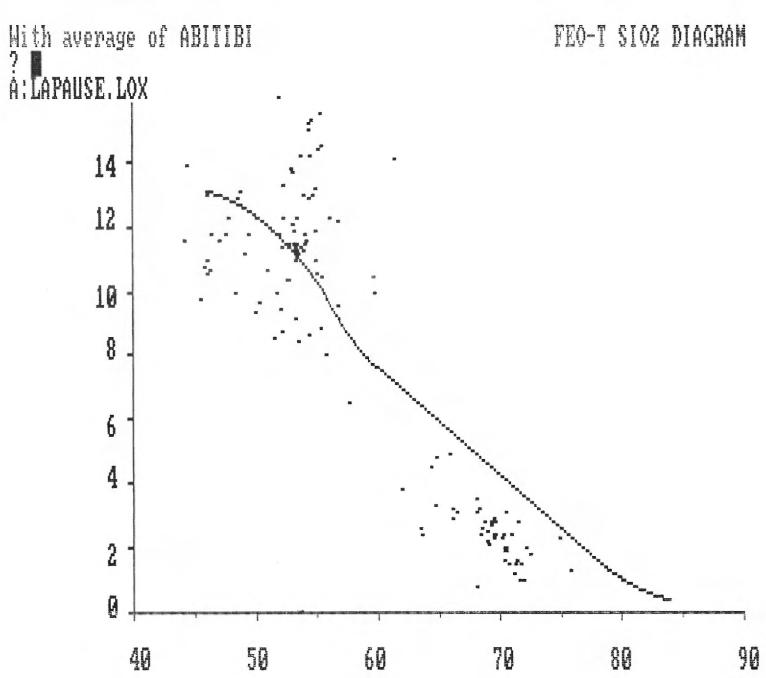
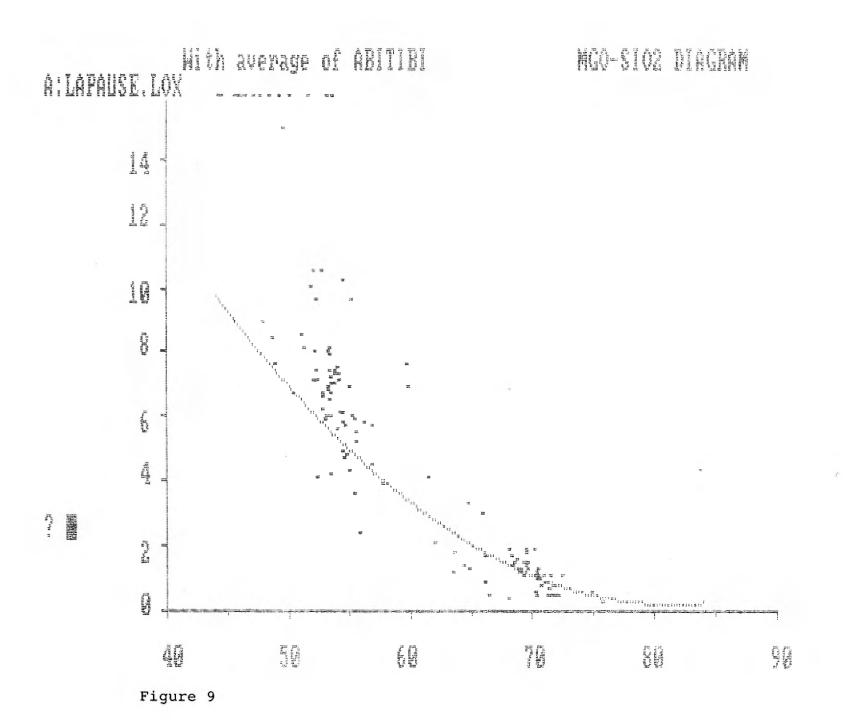
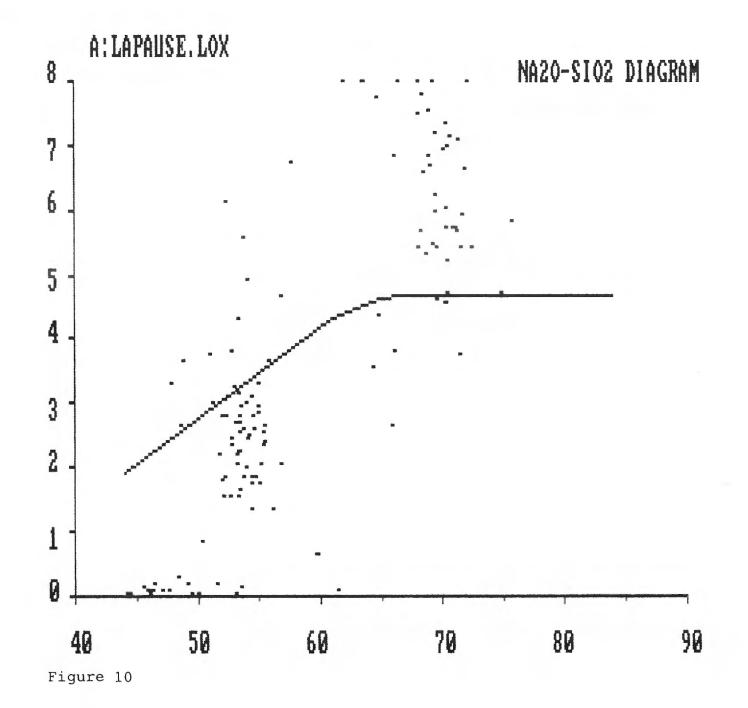


Figure 8







?

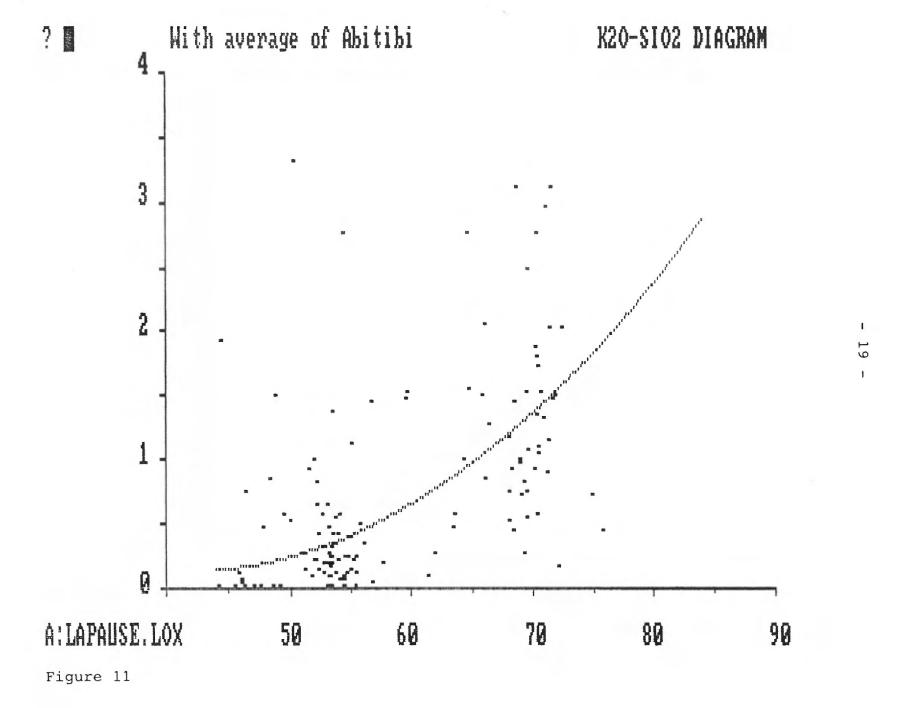
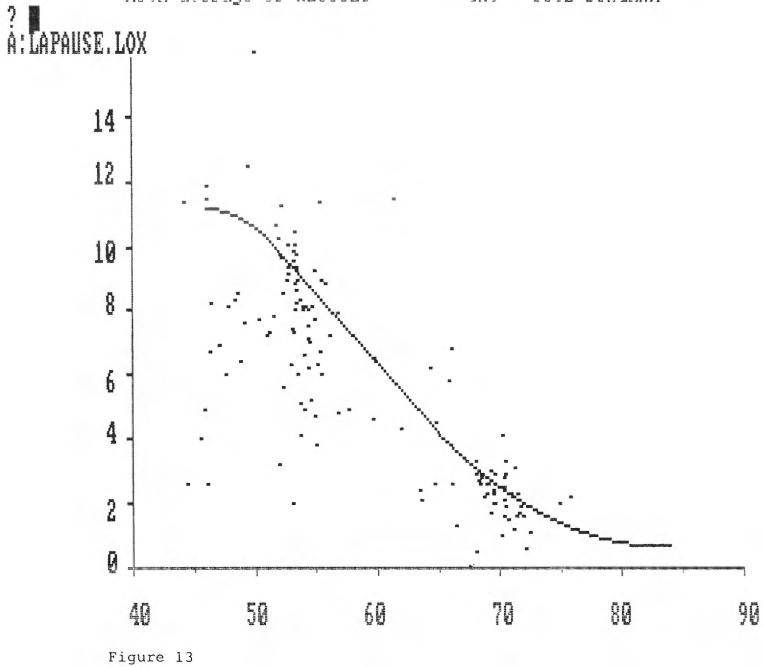


Figure 12





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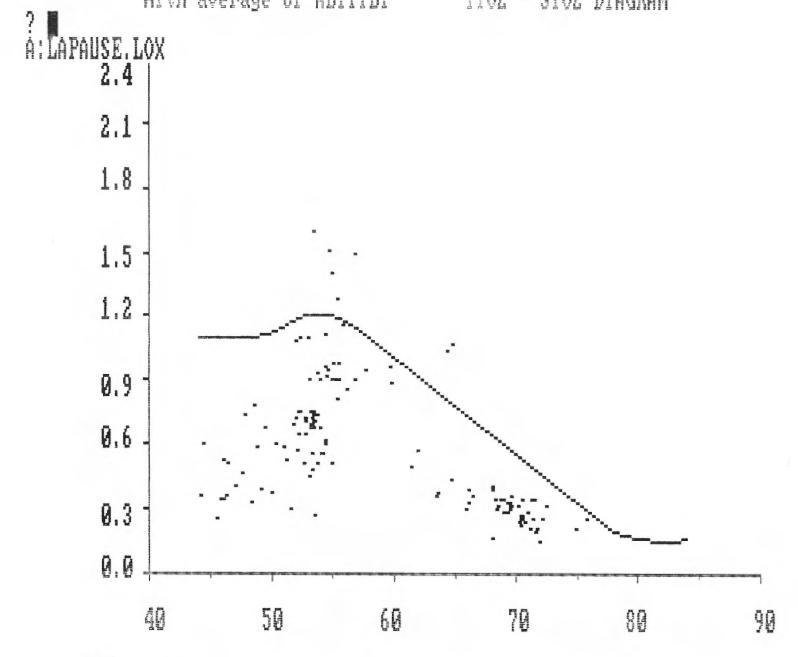


Figure 14

### ECHANTILLONNAGE LITHOGEOCHIMIQUE DE SURFACE (suite)

Il convient immédiatement de préciser que plusieurs des échantillons identifiés ici comme étant des rhyolites\* sont en fait des roches de nature intrusive granitique d'après les observations faites par les géologues de terrain. Ces échantillons sont identifiés au tableau 2. On constate donc que 23 des 36 échantillons rhyolitiques, soit 64%, sont granitiques, granodioritiques ou porphyriques. Le reste de ces roches ont été en majorité identifié par Moreau et Beaudry comme étant des tufs felsiques parfois carbonatisés.

Sur le diagramme de Jensen (figure 5), ces échantillons de roches intrusives se retrouvent bien dans le champ calco-alcalin dénonçant leur forte composante alumineuse, tandis que sur le diagramme AFM (figure 6) on peut remarquer une teneur moins élevée en Fe et Mg.

De même, après examen des résultats d'analyse et de traitement des données, il ressort que l'on peut identifier 18 échantillons présentants des caractéristiques attribuables aux roches ultramafiques (tableau 3 et 4).

Tout d'abord, on peut observer qu'ils se distinguent des basaltes par une composition moyenne en MgO beaucoup plus marquée (24.89%), Na<sub>2</sub>O beaucoup plus faible et <1% (moy.: 0.112%) et en Al<sub>2</sub>O<sub>3</sub> aussi Le rapport FeO(t)/MgO démontre aussi une plus bas (moy: 7.14%). faible valeur caractéristique (moy: 0.46%). On dénote aussi que la majorité de ces roches possède un pourcentage de perte au feu assez élevé (5.30 à 23.00) avec une moyenne de 11.37. Notons que plusieurs échantillons ont montré une présence de talc sur le terrain, ou du moins un aspect talqueux. Pour ces mêmes échantillons, l'étude des gains et des pertes en MgO, Na<sub>2</sub>O, K<sub>2</sub>O par rapport aux courbes normales pour l'Abitibi (courbes de Descarreaux) démontre un enrichissement très prononcé en MgO et une perte significative en Na2O (tableau 5). On retrouve donc ces échantillons dans le champ des tholéites riches en MgO des diagrammes de Jensen et AFM (figure 5 et 6), et des komatiites basaltiques.

A la lumière de ces nouvelles informations, il est intéressant de revoir la cartographie effectuée à l'été 86 pour préciser ou corriger l'interprétation des lithologies. On remarque tout d'abord que les roches ultra-mafiques reportées sur la carte 1 et 2 ont tendance à former une bande dont l'orientation semble être indiquée par un allongement NO-SE, parallèle à l'ensemble des autres unités et des structures principales. Cette région délimitée corresponderait assez bien avec les données que l'on retrouve sur la carte de compilation géoscientifique (en pochette).

Identification des intrusifs granitiques

# Ech.	J Séries	J Nos	N SiO2	Description
10001	CAL	RYLT	70.40	V9 felsique
10002	CAL	RYLT	64.80	V9 felsique
10003	CAL	RYLT	72.30	V9 felsique
10004	CAL	RYLT	66.50	V9 felsique
10006	CAL	RYLT	72.20	V9 carbonatisé
10008	CAL	RYLT	71.10	V9 felsique
10009	. CAL	RYLT	;   75.50	V9 felsique
10012	CAL	RYLT	70.30	V9 felsique carbonatisé
10013	CAL	RYLT	68.60	V9 carbonatisé
10014	CAL	RYLT	71.70	V9
10022	CAL	RYLT	71.20	Micro-16 massif
10030	CAL	RYLT	68.30	Dyke 16
10032	CAL	RYLT	71.20	Micro-16, chloritisé, Py
10034	CAL	RYLT :	71.70	17, Py
10046	CAL !	RYLT !	62.50	1Z, carbonatisé, Py (V9 lapilli)?
10047	CAL	RYLT	<b>65.</b> 30	17 carbonatisé, Py, (V9 lapilli)
10048	CAL	RYLT	68.00	16, (V9 felsique?)
10053	CAL	RYLT !	72.50	Micro 16
10056	CAL !		<b>69.8</b> 0	V4 carbonatisé (V9?)
10058		,	69.30	17 carbonatisé (V9?)
10060	•	RYLT	71.60	
10062	,	RYLT (	69.20	
10077			71.40	16 rose (micro-pegnatique ?)

Tableau 2:

Identification des intrusifs granitiques

Description	I N 5102	J Nom	J Séries!	# Ech.
17 (M7?) carbonatisé, chloritis	66.70	RYLT	CAL	10079
17 trace Py	<b>69.</b> 80	RYLT	CAL	10097
: V4 (1Z?) carbonatisé, trace Py	1 69.60	RYLT	CAL	10101
16	68.60	RYLT	CAL	10104
16, Py, altéré	67.80	RYLT	CAL	10105
17, trace Py	68.80	RYLT	CAL	10107
1Z, carbonatisé	69.60	RYLT	CAL	10110
Basalte schisteux, carbonatisé	70.00	RYLT	CAL	10112
16, carbonatisé, Py, silicifié	68.40	RYLT	CAL (	10116
16 rose, grenu	68.10	RYLT	CAL	10122
16 rose, massif, chloritisé	67.00	RYLT	CAL	10123
17 schisteux, trace Py	69.00	RYLT	CAL	10127
17 massif trace Py	62.20	RYLT	CAL	; 10130

# Ech.	; J Séries;	J Nom	N SiD2	: N MgO	1 N Na20	N K20	: Description
10028	KHT :	MTHL	49.2152	23.6189	0.1868	0.0165	: :Basalte altéré, amphibolitisé, chloritisé, Py, Mic
10040	THL ;	MTHL	45.5022	35.4965	0.1549	0.0179	Basalte trace Py carbonatisé
10061	KMT :	MTHL	46.1201	25.6511	0.0259	0.0777	: Basalte altéré, talc, trace Py, carbonatisé
10063	-   KMT	MTHL	47.1181	26.7305	0.0906	0.0170	Basalte massif, trace Py, chloritisé, carbonatisé
10064	: KMT :	MTHL	46.2731	29.5479	0.1115	0.0167	: Basalte, carbonatisé, chloritisé
10066	: KMT :	MTHL	51.5942	: 24.8006	0.2214	0.9411	: Basalte, carbonatisé, Mica
10067	KMT	MTHL	45.9110	31.5226	0.1098	0.1318	: Basalte, carbonatisé, chloritise, Mica
10074	KMT :	MTHL :	53.5843		0.1552		
10080	KMT	MTHL :	,48.3771	24.6581		0.8546	:  Ultra-mafique,carbonatisé,chloritisé,talc, Tr. Py.
10081	KMT ;	MTHL :	46.4157	25.0096	' '	0.7592	
10106	KMT	MTHL	50.0909	16.1669		0.5301	Basalte chl.,épidote,amphibo.,carbonatisé,faille
10112	KMT	BKMT !	49.4857	15.0290	0.0367		: Basalte schisteux, carbonatisé
10114	KHT	BKMT !	44.4524	19.2288	0.0339	1.9455	
10118	KMT	HTHL :	44.2951	26.3220	0.0464	0.0232	::: : Basalte talc, carbonatisé, trace Py, chloritisé?
10119	KMT ;	MTHL :	46.1310	24.7253	•		Basalte talc, carbonatisé, trace Py
10120		HTHL :	47.6067	26.2579	0.1027		·
10125	:-	MTHL :	46.0766	25.2269	0.0346	0.0576	Ultra-mafique,carb.,talc,schisteux,tourm.,Tr.Py
10131		MTHL :	53.1126	24.9350	0.0335	0.0168	   Basalte altéré, carbonatisé, plissé, schisteux

Tableau 4: Liste des échantillons de roches ultramafiques

No. éch.	J séries	J noa	NSi02	NMGO	NNa20	NK20	A1203	FeOt/MGD:	OLVN	Couleur X	PLAG X
10028	KMT	MTHL	49.22	23.62	0.19	0.02	7.23	0.47	14.41	79.34	92
10040	ThL	MThL	45.50	35.50	0.15	0.02	4.28	0.28	50.58	87.53	89
10061	KMT	MThL	46.12	25.65	0.03	0.08	11.50	0.50	12.54	80.04	98
10063	KMT	MThL	47.12	26.73	0.09	0.02	6.58	0.43	27.56	81.40	96
10064	KMT	MTHL	46.27	29.55			5.80	0.36	36.93	83.43	94
10066	KMT	MThL	51.59	24.80	0.22	0.94	5.30	0.35	14.21	81.63	85
10067	KMT	MThL	45.91	31.52	0.11	0.13	5.87	0.34	41.56	83.07	94
10074	KMT	MThL	53.58	23.07		1.38	6.64	0.37	2.77	77.03	91
10080	KMT	MThL	48.38	24.66	,	0.85	*	0.41	27.37	77.84	85
10081	KMT	MThL	46,42	25.01	0.22	0.76	6.50	0.47	33.67	78.82	89
10106	KMT	MThL	50.09	16.17	0.04	0.53	5.84	0.58	7.27	82.07	98
10112	KHT	BKMT	49.49	15.03			9.30	0.78	0.63	72.44	99
10114	KMT	BKMT	44.45	19.23	0.03	1.95	16.74	0.72	11.90	65.82	98
10118	KMT	MThL	44.03	26.32		0.02	5.42	0.44	42,89	84.74	97
10119	KMT	MThL	46.13	24.73	0.10	0.05	5.21	0.44	33.30	84.93	94
10120	KMT	MThL	47.16	26.26	0.10	0.02	1	0.45	23.36	79.88	96
10125	KMT ;	MThL	46.08	25.23	0.03	0.06	5.76	0.42	33.82	83.87	98
10131	KMT :	MTbL	53.11	24.94	0.03			0.48	_	81.98	97
	Moyenne		47.81	24.89	0.112	0.41	7.14	0.46	23.01	80.33	93.89

<sup>18</sup> échantillons

Tableau 5: Tableau des gains et des pertes en NA20, K20 et Mg0 selon les courbes standards de J. Descarreaux pour les échantillons ultra-mafiques.

l # Ech.	GL NA20	6L K20	: GL MgO
10028	- 2.45	- 0.21	16.21
10040	- 1.96	- 0.13	26.15
10061	- 2.18	- 0.08	16.65
10063	- 2.25	- 0.16	18.28
10064	- 2.11	- 0.15	20.64
10066	- 2.76	0.64	18.46
10067	- 2.06	- 0.02	22.41
10074	- 3.11	1.01	17.52
10080	- 2.22	0.65	16.85
10081	- 2.03	0.59	16.18
10106	- 2.73	0.28	9.17
10112	- 2.64	0.35	7.75
10114	- 1.93	1.81	9.25
10119	- 2.10	- 0.11	15.73
10120	- 2.31	- 0.17	18.06
10125	- 2.16	- 0.10	16.20
10131	- 3.16	- 0.33	19.21
MOYENNE	- 2.23		15.82

#### CONCLUSION ET RECOMMANDATIONS

Une bande ultra-mafique se présente donc dans la partie nord de la propriété La Pause, traversant celle-ci selon un axe NO-SE. Plusieurs de ces affleurements ont été mis à jour par la campagne de l'été 1986 mais encore beaucoup de travail est à prévoir pour permettre d'accumuler une banque de données suffisantes et nécessaire à la réalisation d'une étude plus approfondie sur cette portion et sur l'ensemble de la propriété.

Quant aux roches ultra-mafiques mises à jour par les analyses et le terrain, on peut observer qu'il modifie quelque peu le travail de cartographie réalisé antérieurement (carte 5). En effet, ces roches occupent une superficie plus importante en relation avec des intrusifs granitiques. Les contacts avec ces-derniers seront d'ailleurs à examiner davantage lors d'une prochaine campagne de terrain.

Il est aussi à prévoir d'effectuer à nouveau un échantillonnage systématique et des travaux de décapage seraient à envisager pour tenle maximum d'informations et déterminer avec plus ter d'obtenir d'exactitude les contacts géologiques. La nature géochimique même des roches ultra-mafiques pourra être l'objet d'un travail particulier pour tenter d'apporter plus d'éléments à la recherche d'une minérali-Cependant, comme il a été rapporté dans le rapport sation. B. Moreau (1986), un échantillon présentait ce qui semble être une texture à spinifex dénotant du même coup la nature effusive de cette roche et diminuant les chances de trouver une minéralisation en platinoïdes. Pour tenter de confirmer ou infirmer avec certitude ce fait, on se devra de trouver sur le terrain d'autres critères texturaux, caractéristiques primordiales. Notons déjà que Goulet (1978) dans sa thèse de doctorat, écrit que de longues et minces amphiboles en faisceaux radiants dans une matrice carbonatée et talqueuse ont être observées dans les lames ultra-mafiques du groupe de Malactic et de Kénojévis et pourraient représenter les reliques de sphinifex. plus, sur quelques échantillons identifiés comme ultra-mafiques par J. Lebel (no.10028, 10040, 10061, 10063, 10064, 10066, 10067, 10074, 10118, 10119, 10120, 10125, 10131) des analyses pour le platine et le palladium ont été réalisées (annexe 4) et les résultats ont été peu révélateurs et encourageants.

Une des lacunes à la réalisation d'une étude plus complète est sans doute le manque de données concernant les valeurs en nickel, cobalt et chrome. En effet, la recherche pour ces éléments avait déjà été recommandée dans le rapport de M.A. Cloutier (1986) mais n'a pas été réalisée lors de la campagne de l'été dernier. Si on tient compte de la nature des roches ultra-mafiques, des analyses pour ces éléments sont essentielles. Elles pourront être réalisées lors d'un prochain échantillonnage lithogéochimique à partir des rejets d'analyses de la dernière campagne d'échantillonnage.

## CONCLUSION ET RECOMMANDATIONS (suite)

Enfin, la mise en commun de toutes les informations accumulées par les divers rapports de travaux qui ont été réalisés sur la propriété devra être complétée. Ce rapport de synthèse globale pourra être en mesure de résumer et faire le point de tout ce qui a été fait à ce jour et d'orienter les prochains travaux.

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Elach All

#### REFERENCES

- C. Bernier Campagne de forage 1985-1986, Propriété La Pause.
- M.A. Cloutier Analyses de platine des rejets de forage. Propriété La Pause, 1986
- N. Goulet Stratigraphy and structural relationship across the Cadillac-Larder Lake Fault. Rouyn-Beauchastel area, Quebec. These de Doctorat, 1978
- C. Lavoie Evaluation des travaux d'exploration effectués en 1985-1986 et recommandations. Propriétés de Ressources La Pause Inc. Mai 1986.
- J. Lebel Résultats de la campagne d'humus de l'automne 1986. Propriété La Pause. Canton La Pause, Québec, avril 1987
- J. Lebel Campagne de forage 1987. Propriété La Pause. Canton La Pause, mars 1987
- B. Moreau Bilan des travaux sur la propriété La Pause, juillet 1986.
- J. Descarreaux Traitement des données brutes d'analyses totales et réalisation de diagrammes de Jensen, AFM, et des courbes de Descarreaux, mai 87

# ANNEXE 1

Localisation des échantillons

Projet: La Pause - surface

#### LISTE DES ECHANTILLONS (LA PAUSE)

No AFFL.	No LIVRE	No SAC	No Carte	DESCRIPTION
1	10001	86-1-L-01	L1	Tuf felsique, tr. Py, //q/diaclase
3	10002	86-1-L-02	L2	Tuf felsique, tr. Py
4	10003	86-1-L-03	L3	Tuf felsique, tr. Py, //q/diaclase
5	10004	86-1-L-04	L4	Tuf felsique, tr. Py, //q/diaclase
6	10005	86-1-L-05	L5	Tuf, tr. Py, //q/diaclase, carbonatisé
7	10006	86-1-L-06	L6	Tuf, //q/diaclase, carbonatisé
8	10007	86-1-L-07	L7	Tuf <u>+</u> Mafique, tr. Py, //q/diaclase
9	10008	86-1-L-08	L8	Tuf felsique, tr. Py
9	10009	86-1-L-09	L9	Tuf felsique, zone à grains fins
9	10010	86-1-L-10	L10	Dyke carbonatisé
10	10011	86-1-L-11	L11	Tuf felsique, //q/diaclase
11	10012	86-1-L-12	L12	Tuf felsique, //q/diaclase, carbonatisé
12	10013	86-1-L-13	L13	Tuf, carbonatisé
13	10014	86-1-L-14	L14	Tuf, //q/diaclase, micro-failles
1 4	10015	86-1-L-15	L15	Tuf intermédiaire, //q/diaclase
15	10016	86-1-L-16	L16	Tuf <u>+</u> Mafique, //q/diaclase, Py, carbona-
				tisation élevée
17	10020	86-1-L-20	L20	Basalte coussiné, épidotisé, carbonatisé, Mt
18	10017	86-1-L-17	L17	Granophyre, //q/diaclase
18	10018	86-1-L-18	L18	Basalte, coussiné, épidotisé, car- bonatisé //q/diaclase
18	10019	86-1-L-19	L19	Tuf basaltique? carbonatisé, //q/diaclase
20	10021	86-1-L-21	L21	Basalte schisteux, séricitisé, Ø, carbonati- sé, Py, //q/diaclase, Dyke granophyre/schis- teux, Mt
21	10022	86-1-L-22	L22	Micro-granite, massif, tr. Py
22	10023	86-1-M-01	Mi	Basalte cisaillé, Ø, Py
22	10024	86-1-M-02	M2	Micro-granite
22	10025	86-1-M-03	M3	Basalte + granite
23	10026	86-1-L-23	L23	Basalte 0, //q/diaclase
24	10027	86-1-L-24	L24	Basalte coussiné, Ø, Py, épidotisé
sub aff.8	10028	86-1-L-25	L25	Basalte altéré, amphibolitisé, Ø,Py, Mica
sub aff.8	10029	86-1-L-26	L26	Basalte frais, grains fins, Py
25	10030	86-1-L-27	L27	Dyke granite
25	10031	86-1-L-28	L28	Basalte (ou tuf mafique) Py, carbonatisé,
				//g/diaclase
26	10032	86-1-L-29	L29	Micro-granite, Ø ,Py élevée
27	10033	86-1-L-30	L30	Basalte schisteux, Ø ,carbonatisé, Py,
				//q/diaclase
27	10034	86-1-L-31	L31	Granophyre, Py
28	10035	86-1-L-32	L32	Basalte coussiné, épidotisé, carbonatisé, Py, //q/diaclase
28	10036	86-1-L-33	L33	U.M ou basalte amphibolitisé, carbonatisé, Ø, Py //g/diaclase
28	10037	86-1-L-34	L34	Basalte coussiné, carbonatisé,Py //q/diaclase

Nο	Nο	No	No	
AFFL.	LIVRE	SAC	CARTE	DESCRIPTION
28	10038	86-1-L-35	L35	U.M. ou Basalte amphibolitisé, carbonatisé
				Ø, Py, //q/diaclase
28	10039	86-1-L-36	L36	U.M. ou basalte amphibolitisé, carbonatisé 0,Py, //q/diaclase
29	10040	86-1-L-37	L37	Basalte, tr. Py, carbonatisé
30	10041	86-1-L-38	L38	Basalte, carbonatisé, Ø, tr. Py
31	10042	86-1-L-39	L39	Basalte,carbonatisé, Ø, tr. Py, dyke felsi schisteux
32	10043	86-1-L-40	L40	Basalte plissé, amphibolitisé, Ø,carbonati //q/diaclase, faille
33	10044	86-1-L-41	L41	Basalte plissé, carbonatisé, Ø, //q/diaclas
34	10045	86-1-L-42	L42	Basalte amphibolitisé, carbonatisé, Ø
35	10046	86-1-L-43	L43	Granophyre, //q/diaclase, carbonatisé, Py, (Tuf-Lapilli)
35	10047	86-1-M-04	M4	Granophyre, //q/diaclase, carbonatisé, Py, (Tuf-Lapilli)
35	10048	86-1-L-44	L44	Granite (tuf felsique), Py
35	10049	86-1-L-45	L45	Basalte (tuf basaltique), Py
36	10050	86-1-L-46	L46	Basalte, 0, carbonatisé, Trace Py
37A	10051	86-1-L-47	L47	Basalte, carbonatisé, Ø
37B	10052	86-1-L-48	L48	Basalte plissé, //q/diaclase
37D	10053	86-1-L-49	L49	Micro-granite //q/diaclase, faille
37D	10054	86-1-L-50	L50	Basalte, carbonatisé, Tr. Py, //q/diaclase faille
38A	10055	86-1-L-51	L51	Basalte plissé, carbonatisé, Ø, tr. Py, dy
38B	10056	86-1-L-52	L <b>5</b> 2	Dacite (tuf), carbonatisation élevée
38B	10057	86-1-L-53	L53	Basalte (tuf basaltique) Tr. Py, carbonati
38C	10058	86-1-L-54	L54	Granophyre (tuf), carbonatisé, //q/diaclas Tr, Py
380	10059	86-1-L-55	L55	Basalte, carbonatisé,//q/diaclase, Tr. Py, amphibolitisé
39	10060	86-1-L-56	L56	Granophyre (dyke) Py
39	10061	86-1-L-57	L57	Basalte altéré, talqueux, //q/diaclase, carbonatisé, Py
39	10062	86-1-L-58	L58	Granophyre frais (dyke) Py
39	10063	86-1-L-59	L59	Basalte, massif, tr. Py, Ø, carbonatisé
40	10064	86-1-L-60	L60	Basalte frais, carbonatisé, Ø
40	10066	86-1-L-62	L62	Basalte, carbonatisé, Mica blanc
41	10065	86-1-L-61	L61	Porphyre mafique, carbonatisé (basalte)
43	10067	86-1-L-63	L63	Basalte, carbonatisé, Ø, Mica blanc
44	10068	86-1-L-64	L64	Basalte frais, carbonatise, Ø
45	10069	86-1-L-65	L65	Basalte frais Tr. Py, Ø, carbonatisé
46	10070	86-1-L-66	L66	Basalte, carbonatisé, $\emptyset$ , $\pm$ schisteux, $Tr. I$ (andésite)
46	10071	86-1-L-67	L <b>6</b> 7	Basalte, Tr. Py, carbonatisé, dyke, //q/diaclase
47	10072	86-1-L-68	L68	Basalte, carbonatisation élevée, Ø, Trace f (andésite)
48	10073	86-1-L-69	L69	Basalte, carbonatisation élevée, Ø, Trace Py //q/diaclase

No AFFL.	No LIVRE	No SAC	No Carte	DESCRIPTION
48	10074	86-1-L-70	L70	Basalte altéré, talqueux, Mica blanc, Mt
48	10075	86-1-L-71	L71	Basalte, magnétite bleue, carbonatisation élevée, Tr. Py
49	10076	86-1-L-72	L72	Basalte, Mt élevé,carbonatisation élevée, Tr. Py
49	10077	86-1-L-73	L73	Granite rose, grains grossiers
50	10078	86-1-L-74	L74	Basalte, carbonatisation élevée
52	10088	86-1-L-84	L84	Granophyre, Py élevée
52	10089	86-1-L-85	L85	Basalte, carbonatisé, Py
52	10090	86-1-M-05	M5	Zone cisaillée (1m large) //9, Py
53	10079	86-1-L-75	L75	Granophyre (Gneiss) Tr. Py, carbonatisé,"0", //q/diaclase
53	10080	86-1-L-76	L76	Ultra-mafique, carbonatisé, Ø, talqueuse, Mica, Tr. Py
53	10081	86-1-L-77	L77	Ultra-mafique, cassure polygonale
54	10082	86-1-L-78	L78	Basalte coussiné, carbonatisé, épidotisé, Tr. Py
54	10083	86-1-L-79	L79	Granophyre, carbonatisé
Bord-Route		86-1-L-80	LBO	Ultramafique, L-1540W
55	10085	86-1-L-81	L81	Basalte, carbonatisé, Tr. Py. talqueux
56	10086	86-1-L-82	L82	Basalte, carbonatisé, Tr. Py, Ø, //q/diaclase, micro-faille, dyke diabase, kink-band
57	10087	86-1-L-83	L83	Basalte très plissé,carbonatisation élevée, coussiné, épidotisé, micro-faille //q/pli
59	10091	86-1-L-86	L86	Basalte, carbonatisé, //q/diaclase, Tr. Py, coussiné, épidotisé
60	10092	86-1-L-87	L87	Basalte coussiné, carbonatisation élevée, Tr. Py., épidotisé, //carbonate
61	10093	86-1-L-88	L88	Basalte coussiné, carbonatisé, Tr. Py, Mt
62	10094	B6-1-L-89	L89	Basalte, carbonatisé, Tr. Py, amphibolitisé,
63	10095	86-1-L-90	L90	Granophyre + Lits basalte, Tr. Py, Ø, //q/dia.
64	10096	86-1-L-91	L91	Basalte, carbonatisé, Tr. Py, //q/diaclase (QQ fois coussiné)
64	10097	86-1-L-92	L92	Granophyre, Tr. Py, //q/diaclase
64	10098	86-1-L-93	L93	Basalte coussiné, carbonatisé, Tr. Py, //q/diaclase
2200N-1232	0 10099	86-1- <b>M</b> -06	M6	Veine quartz
65	10100	86-1-L-94	L94	Basalte coussiné, carbonatisé, Tr. Py
65	10101	86-1-L-95	L95	Dacite (granophyre), carbonatisé, Tr. Py, grains fins, faille
66	10102	86-1-L-96	L96	Dacite, carbonatisé, Tr. Py.
66	10103	86-1-L-97	L97	Basalte, carbonatisation élevée, Py., grains moyens
67	10104	86-1-L-98	L98	Granite
68	10105	86-1-L-99	L99	Granite, Py. altérée en argile, dyke
68	10106	86-1-L-100	L100	Basalte plissé coussiné, épidotisé, amphibo- litisé, carbonatisé, faille, //q/diaclase
69	10107	86-1-L-101	L101	Granophyre (dyke) tr. Py. grains fins
69	10108	86-1-L-102	L102	Basalte coussiné, épidotisé, carbonatisé, Py.

No	No	No	Na	
AFFL.	LIVRE	SAC	CARTE	DESCRIPTION
70	10109	86-1-L-103	L103	Basalte coussiné, carbonatisé, Tr. Py.
70	10110	86-1-L-104	L104	Granophyre, carbonatisé, grains fins
71	10111	86-1-L-105	L105	Granite
71	10112	86-1-L-106	L106	Basalte schisteux, carbonatisé
72	10113	86-1-L-107	L107	Granite avec intrusions basalte? 0?
73	10114	86-1-L-108	L108	Basalte talqueux altéré
73	10115	86-1-M-07	M7	Veine qtz, Py. élevée (dans basalte)
73	10116	B6-1-L-109	L109	Granite, carbonatisé, Py élevée , silici- fié? (granophyre)
73	10117	86-1-M-08	<b>M</b> 8	Veine qtz. Py élevée (dans granite)
74	10118	86-1-L-110	L110	Basalte talqueux, carbonatisation élevée, coussinée? Tr. Py.
75	10119	86-1-1-111	L111	Basalte talqueux, carbonatisation élevée, Tr. Py. (empreintes ).
75	10120	86-1-L-112	L112	Ultra-mafique?
76	10121	86-1-L-113	L113	Basalte
76	10122	86-1-L-114	L114	Granite rose, grenu, dyke
<b>7</b> 7	10123	86-1-L-115	L115	Granite rose, massif, //chlorite //q/diaclase
79	10124	86-1-L-116	L116	Basalte, amphibolitisé, Ø, fissile
80	10125	86-1-L-117	L117	Ultra-mafique (basalte), carbonatisation élevée, talqueux, schisteux, amphibolitisé, Tr. Py.
81	10126	86-1-1-118	L118	Basalte schisteux, carbonatisation élevée, Tr. Py., fissile
82	10127	86-1-L-119	L119	Granophyre schisteux, Tr. Py.
Bord-Route	10128	86-1-M-09	<b>M</b> 9	Veine qtz., Py., 1718 N - 825 W
Bord-Route	10129	86-1-M-10	M10	Veine qtz., Py., 1725 N - 833 W
Bord-Route	10132	86-1-M-11	M11	Veine qtz., Py., 1719 N - 825 W
83	10131	86-1-L-121	L121	Basalte altéré élevé, carbonatisation élevée, plissé, schisteux
84	10130	86-1-L-120	L120	Granophyre massif, Tr. Py. //q (granite)
85	10133	86-1-L-122	L122	Basalte coussiné, épidotisé schisteux, //q/schistosité S <sub>1</sub> , S <sub>2</sub> ds //q:202′
86	10134	86-1-L-123	L123	Basalte, carbonatisé, Py., <u>+</u> schisteux
86	10145	86-1-L-124	L124	Basalte massif
86	10146	86-1-L-125	L125	Basalte massif

No AFFL		No	No SAC	No Carte	DESCRIPTION
HFFL	•	LIVRE	SAC	CHRIC	DESCUTLITON
	chée (f -1400N	Mo-Au)			
580-		10135	86-1-M-12	M12	Basalte, silicífié, cisaillé, Py élevée, Mo:0,22%, Au: 150 ppb.
ti .	rt	10136	86-1-M-13	Mi3	Granophyre, Py. élevée, Mo:225 ppm, Au: variable: 100-117 ppb.
и	н	10137	B6-1-M-14	M14	Granophyre, Py. élevée, Mo: 0,35%, Au: 370ppb.
11	п	10138	86-1-M-15	M15	Basalte schisteux, Py. élevée, Mo: 52 ppm, Au: 42 ppb.
н	· C	10139	86-1-M-16	M16	Basalte schisteux, Py. élevée, présence minéral vert: fuschite? Mo: B1 ppm, Au: 80 ppb.
#1	(I	10140	86-1-M-17	M17	Basalte schisteux, Py élevée, Mo: C.V7-17, Mo
II	"	10141	86-1-M-18	M18	Granophyre, Py élevée, Mo (voir M17), Mo: 101 ppm, Au: 17 ppb.
**	11	10142	86-1-M-19	M19	Basalte, silicifié, cisaillé, fy. élevée, Mo: 1654 ppm Au: 17 ppb.
tt	П	10143	86-1-M-20	M20	Grahophyre rose, grains fins, Py élevée, Mo: 61 ppm, Au: 47 ppb.
ti	ti	10144	86-1-M-21	M21	Basalte, silicifié, cisaillé, Py. élevée, Mo: 188 ppm, Au: 40 ppb.
	chée († -3125N	ŧ2 )			
0+10	= 0 + 70				
		10147	B6-1-M-22	M22	Zone Py. élevée, schiste à séricite, altéré (sulfure massif: 8" X 6")
н	tt	10148	86-1-M-23	M23	Tuf ou agglomérat, felsique, Py. (altéré, schisteux)
H	И	10149	86-1-M-24	M24	Rhyolite porphyrique, Py. (altéré, schisteux)
ti	н	10150	66-1-M-25	M25	Rhyolite porphyrique, Py. (altéré, schisteux)
41	15	10151	86-1-M-26	M26	Basalte massif, Py.
п	и	10152	86-1-M-27	M27	Rhyolite porphyrique, Py. (altéré, schisteux)
"	tf	10153	86-1-M-28	M28	Schiste à séricite, altéré, zone minéralisée, Py élevée
н	и	10154	86-1-M-29	M29	tuf ou agglomérat, felsique, Py

#### ANNEXE 2

Résultats d'analyses totales

Projet: La Pause - surface

CHIMITEC LIEE

700 Rue Neree Tremblay Ste-Foy, Quebec G tN 4H7 (41H) 683-1777 TELEX 051-3786 LOCAL 272

## CHIMITEC LIEE

						7 92	156						
						1)	100						
RAFFORI: 03e-16	39					'j'		Pk	9367: 40	IBN		PAGI I	
NUMERO DE	clement	5102	1102	A1203	Fe203*	MriC	<b>6</b> 90	0e0	Na20	:00	POOE	1,01	Total
1'ÉCHANTILLON	UNITES	PCI	PCT	PCI	PCI	PCI	PCT	PCI	PCI	PCI	101	101	FC1
R2 10001		70.40	0.34	15.50	3.42	0.07	1.10	3.35	4.72	1.10	0.08	1.20	101.26
E2 10002		64.80	0.32	16.40	3.13	0.08	0.89	6.66	3.72	2.61	0.12	4,30	102.43
E2 10003		72.30	0.71	13.80	2.51	0.05	0.58	1.90	4.57	0.71	0.08	1.00	97.71
E2 10004		66.50	0.35	15.40	3.03	0.05	.1.27	2.82	5.19	1.04	0.11	1.20	96.98
#2 10005		64.10	0.30	15.00	5.31	0.12	2.96	5.69	2.60	1.46	0.13	3,40	101.07
¥2 10006		72.20	0.22	16.50	1.66	0.03	0.81	1.88	5.96	1.50	0.07	1.30	105.12
R2 10007		63.50	1.05	16.70	5.22	0.13	1.33	4.41	4.30	1.53	0.18	0.70	30.VE
R2 10008		71.10	0.34	16.40	1.66	0.05	0.55	3.12	5.65	0.90	0.11	0.80	100.68
R2 10009		75.50	0.26	13.70	1.40	0.03	0.30	2.25	5.79	0.46	0.08	0.30	100.07
R2 10010		48.70	0.55	12.40	8.57	0.18	9.20	6.75	1.23	2.48	0.11	7.70	99.87
R2 10011	, e	67.70	0.34	16.80	3.50	0.05	1.68	2.65	5.63	0.91	0.07	1.30	100.63
F2 10012		70.30	0.28	17.20	1.84	0.04	0.47	2.52	4.57	2.76	0.06	2.30	102.21
F2 10013		68.60	0.24	15.20	2.66	0.06	0.61	4.04	4.45	1.83	0.08	3.60	101.55
E2 10014		71.70	0.35	16.00	3.09	0.04	1.11	2.30	3.79	2.05	0.06	1.60	100.00
k2 10015		64.60	1.04	17.50	5.07	0.11	1.45	6.28	3.58	1.02	0.13	0.60	101
				115-C-1411-4	100 at 1			agreement community and the second					
R2 10016		52.90	1.10	18.00	8.42	0.17	2.30	8.40	3.48	0.48	0.08	2.60	97.92
R2 10017		66.60	0.40	17.90	2.58	0.06	1.76	2.67	6.90	0.87	0.22	1.20	102.16
k2 10018		52.20	0.85	13.70	15.10	0.22	4.91	5.69	2.28	0.23	0.10	7.00	101.29
R2 10019	,	54.60	0.90	17.50	6.86	0.14	3.72	4.69	€.35	0.18	0.18	4.90	100.02
R2 10020		51.70	0.85	13.20	15.00	0.23	5.62	5.97	1.91	0.21	0.15	5.70	100.54
#2 10021		51.50	0.92	15.50	11.00	0.11	9.05	3.50	1.67	1.07	0.06	5.60	101.08
R2 10022		71.20	0.19	16.30	1.13	0.02	0.45	1.67	5.40	3.11	0.04	0.60	100.12
R2 10026		52.40	1.44	14.50	13.80	0.20	4.62	7.77	1.79	0.24	0.11	3.30	100.17
R2 10027		51.60	1.54	14.80	13.20	0.21	4.10	8.93	2.74	0.31	0.20	2.60	100.23
R2 10028		44.80	0.36	- 45	11.30	0.18	21.50	6.98		<0.03	"	£.50	98.42
12 10020	Control of the contro	44.0V	0.30	B.30 ()	11.30	. v.10	21.39	0.70	0.17	(0.03	0.05	E.3V	76.44
R2 10029		54.00	1.38	14.00	13.00	0.18	2.18	9.09	2.89	0.39	0.10	1.10	100.36
R2 10030		66.30	0.24	15.70	1.64	0.02	0.79	1.46	6.89	1.48	0.02	1.20	97.80
R2 10031		46.50	0.67	11.80	8.61	0.16	Add to the second	10.00	2.74	0.58	0.07	11.70	102.04
22 10032		71.20	0.21	16.50	1.32	0.01	0.96	1.20	5.76	2.99	0.05	0.90	101.09
R2 10033		47.70	0.47	13.00	10.40	0.18	9.57	8.12	1.42	0.52	6.67	10.30	101.75
<b>R2 10034</b>		71.70	0.15	16.50	1.09	0.02	0.47	1.60	6.64	1.50	0.11	1.40	101.18
R2 10035		51.50	0.69	15.30	12.10	0.21	6.47	8.34	2.49	<0.03	0.16	3.70	100.96
R2 10036		51.70	0.71	15.40	12.40	0.22	6.65	9.20	2.42	0.20	0.12	2.30	101.27
P2 10037		50.70	0.68	14.60	12.20	0.23	6.36	9.69	2.29	0.11	0.12	4.30	101.28
<b>₽2</b> 10038		51.70	0.68	14.80	12.10	0.23	6.76	9.57	1.98	0.11	0.10	2.20	100.23
K2 79		50.10	0.70	15.00	12.60	0.22	6.88	9.85	1.75	0.22	0.09	2.50	69.61
£2 140		38.20	0.22	3.59	9.14	0.13	29.80	3.42	0.13	<0.03	0.04	12.20	98.47
R2 10041		50.30	0.62	14.90	12.10	0.23	7.13	9.26	1.77	0.81	0.06	2.40	100.53
E2 10042		52.30	0.72	15.20	12.30	0.21	5.95	9.59	2.22	0.25	0.09	2.79	101.53
R2 10043		51.30	0.68	14.00	11.90	0.22	6.70	8.55	2.84	0.42	0.05	2.40	99.09
		0710V	4400	A SAVV	11070	V.44	V#/V	0.10	2.07	V.74	6.62	# 1 T	22.02

700 Rue Neree Tremblay Ste-Foy, Quebro G1N 4H7 (418) 683-1777 TELEX. 051-3786 LOCAL 272

# CHIMITEC LIEE

MARPORT: 036-1	339							PI	ROJET: AU	CUN		PAGE 2	
PUMERO DE L'ECHANTILLON	élément Unités	SiO2 PCT	TiD2 PCT	Al 203 PCT	Fe203k PCT	Hn0 PCT	Mg0 PCI	CaO PCI	Na20 PCT	K20 PCT	P205 PCT	LOI	Iota) PCI
R2 10044		50.80	0.72	14.70	11.70	0.21	6.89	7.88	2.57	0.32	0.14	6.10	102.03
R2 10045		51.60	0.70	14.80	12.20	0.23	7.21	8.57	2.17	0.24	0.03	1.90	99.55
₹2 10046		62.50	0.36	18.80	2.86	0.04	1.17	2.38	9.92	0.47	0.12	2.80	101.42
R2 10048		68.00	0.32	15.80	2.84	0.04	1.45	2.81		1.44	0.15	2.70	102.09
E2 10049		50.10	0.55	17.10	10.10		7.69		1.50	0.21	0.05	2.90	99.60
¥2 10050		54.00	1.25	13.80	16.80	0.20	3.54	6.54	2.49	₹0.03	0.07	1.20	99.89
R2 10051		51.80	0.68	15.00	12.30	0.20	7.23	7.38	2.28	0.03	0.04	3.40	100.34
R2 10052		52.40	0.69	15.40	12.00	0.21	6.47	10.30	1.53	0.18	0.11	2.30	101.59
R2 10053	rade, s. A	72.50	0.31	15.50	1.96	0.02	-1.12	1.09	5.45		2	0.90	100.14
R2 10054		50.00	0.71	14.60	12.40	0.20	7.55	6.86	2.09	0.44	0.10	5.90	100.85
R2 10055		50.00	0.57	17.10×	11.60	0.21	9.38	7,05	3.68	0.28	0.10	3.00	101.97
R2 10056		69.80	0.28	15.30	2.65	0.04	1.14	2.26	5.65	1.30	0.13	2.60	101.15
R2 10057		50.60	0.88	15.30	14.80	0.25	5.64	3.93	2.46	0.34	0.13	4.40	99.70
R2 10058		69.30	0.27	15.90	2.17	0.03	1.16	2.74	5.62	1.34	0.06	2.30	100,89
E2 10059		53.60	0.82	14.80	13.00	0.20	5.53	6.90	1.32	0.34	0.03	4.80	101.64
¥2 10060		71.60	0.26	15.80	2.18	0.02	0.46	0.64	8.25	0.18	0.04	1.70	101.13
R2 10061		35.60	0.41	8.88	11.10	0.10	19.80	2.00	0.02	0.06	0.11	20.10	92.18
R2 10062		69.20	0.31	16.60	2.69	0.03		2.02		2.48			101.50
R2 10063	4	41.60	0.36	5.81	11.30	0.18	23.60	6.17	0.08	(0.03	0.08	9.30	98.48
R2 10064		41.50	0.33	5.20	10.60	0.17	26.50	1.00	0.10	(0.03	0.09	9.30	99.82
R2 10065		61.20	0.56	17.70	4.16	0.06	2.06	4.30	8.52	0.27	0.25	1.00	100.08
12 10066	Artel & Co	46.60	0.27	4.79	8.60	0,15		A TOTAL STREET		. 0.85	0.08	5.30	96.31
R2 10067	100	41.80	0.32	5.34	10.90	0.15	28.70	4.46	0.10	0.12	0.03	9.50	101.43
R2 10068		50.80	0.56		13.30	0.23	5.77	5.67	2.91	0.03	0.04	8.10	102.51
R2 10069			0.66	14.80	12.40	€ 0.20	6.63	9.28	2.17		0.06	2.30	100.48
12 10070	OLE STORY	50.30	0.64	14.70	12.00	0.18	6.66	9.84	1.56	0.18	0.03	2.70	97.79
R2 10071	The same	49.60	0.59	13.90	10.60	100	6.60	7.60	0.85		0.05	3.20	96.43
R2 10072		50.20	0.53	14.30	9.60		7.47	9.47	2.97	0.18	0.06	5.10	100.05
R2 10073		54.00	0.80	14:40	9.61		5.81	11.10	2.31	(0.03	0.06		101.26
R2 10074		51.80	0.26	6.42	9.10		22.30	5.86	0.15	1.33	0.06		102.00
2 10075		54.60	1.44	14.20	13.00	0.17	4.25	4.68	4.51	0.05	o.îa	5.10	102.28
12 10076	1 4 11	46.60		12.60		0.24	9.01		2.00	0.09	0.17		102.04
2 10077		71.40	0.25	16.00	1.74	0.02	0.66	1.66	7.09	1.15		1.10	107.19
2 10078		50.70	0.90	14.00	10.60	0.16	5.08	8.20	2.42	0.12	0.04	7.50	99.72
2 10079		66.70	0.30	15.90	2.67	0.03	1.37		7.59	0.43	0.09	1.20	98.64
12 109		51.40	0.83	14.40	14.70	0.21	5.84	7.25	2.61	0.64	0.08	2.20	100.21
12 10.03	,	68.00	0.41	16.00	3.88	0.06	1.87	3.27	5.42	1.17	0.12	1.60	101.80
2 10084		37.70	0.31	4.57	9.59	0.18	2.52	7.02	0.06	0.07	0.06	14.40	99.16
2 10085		51.10	0.70	15.00	12.00	0.21	7.09	7.98	1.76	0.13	0.05	4.30	100.32
22 10086		45.40	0.70	16.80	12.90		- 1						

#### CHIMITEC LITEE

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## CHIMITEC LIEE

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RAPPORT: 036-1	639							PRO	JET: AUC	UN		PAGE 3	
NUMERO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	SiO2 PCI	TiO2 PCT	A1203 PCT	Fe203 <del>1</del> PCT	Mn0 PCI	Mg0 PCT	Ca0 PCT	Na20 PCT	K20 PCT	P205 PCT	LOI PCI	Total PCT
R2 10087		49.90	0.63	14.40	11.60	0.20	7.02	7.50	1.85	0.20	0.10	6.60	100.00
R2 10088		64.80	0.38	14.40	3.26	0.04	1.80	2.76	7.12	0.71	0.11	4.00	93.38
R2 10089		47.60	0.46	13.40	11.20	0.18	6.49	4.58	4.93	0.48	0.10	8.00	97.42
R2 10091		52.10	0.90	14.00	16.20	0.23	a 5.49	4.96	2.48	0.12	0.14	3.40	100.02
R2 10092		50.20	0.85	13.60		0.20		6.50	-2.60	0.23	0.17	€.90	101.15
R2 10093		52.90	0.94	14.20	16.40	0.25	5.66	6.09	1.80	0.08	0.10	2.30	109.72
R2 10094		52.80	0.65	16-10	11.50	0.21	6.25	9.15	3.83	0.33	0.09	1.30	102.21
K2 10095		69.40	0.31	16.00	2.52	0.03	1.87	0.98	6.84	0.93	0.14	1.60	100.62
£2 10096	To Spice of	52.50	0.86	14.50	14.00	0.16	6.67	4.52	3.18	0.14	0.14	3.00	99.67
R2 10097		69.80	0.26	16.40	2.10		1.04	1.58	7.28	0.58	0.17	0.80	100.04
#2 10098	er town or the	49.70	+0.84	13.20	13.30	F-0.17	5.22	7.43	2.79	0.40	0.11	7.30	100.46
E2 10100		53.00	1.09	13.70	16.20	0.23	4.78	7.80	1.71	0.10	0.16	1.60	100.37
R2 10101		69.60	0.27	16.00	2.07	0.03	1.00	2.84	5.16	1.72	0.10	1.60	100.39
E2 10102		67.80	0.32	15.70	3.18	0.03	1.81	1.95	6.05	0.74	0.11	1.30	98.99
R2 10103		49.30	1.02	14.60	14.20	0.20	5.50	5.86	3.03	0.18	0.17	5.80	99.86
R2 10104	- T - T - Harrier	68.60	0.28	16.80	2.35	0.03	1.26	2.62	6.63	0.73	0.11	0.70	99.48
R2 10105		67.80	70.28	15.50	2.44	0.04	1.27	2.61	7.39	0.97	0.13	3.60	102.03
\$ R2 10106	. a	37.80	40.28	4.41	7.82	0.17	12.20	12.90	0.03	0.40	0.08	23.00	99.09
12 10107	( 17 P) 40 40	68.80	0.35	16.40	2.74	0.03	1.25	2.34	6.84	1.00	0.17	0.40	100.32
R2 10108		51.20	3.	14.90	13.30	0.20	7.03	8.33	2.74	0.42	0.09	2.80	101.75
22 10109		50.20	1.06	15.90	14.10	0.16	3.98	5.44	5.89	0.15	0.14	4.60	101.62
R2 10110	. 12 Sec 380	69.60	0.25	15.60	2.18	4.0.03	1.28	1.90	6.88	1.04	0.15	1.20	100.11
<b>R2</b> 10111	A William	70.00	0.23	16.30	1.79	0.02	1.15	2.12	5.98	1.79	0.09	2.10	101.57
R2 10112		40.50	0.55	7.61	#10.70	0.23	12.30	10.20	0.03	0.48	0.10	18.10	100.80
P2 10113	1. 1 111	67.30	A STATE OF THE STA	15.00	2.49	0.04	1.88	2.30	6.95	0.54	0.15	3.00	99.94
12 10114		29.30	0.53	14.80	# 13.60	0.09	17.00	2.23	0.03	1.72	0.15	9.00	98.50
12 10116		68.40		15.80			1,14	1.72	8.03	0.28	0.11		101.16
R2 10118.	1 1	38.20	0.31				22.70	9.79	0.04	0.02	0.08	13.50	100.63
R2 10119	334	40.30	0.31	4.55	10.60	0.21	21.60	10.40	0.09	0.04	0.11	12.40	100.81
R2 10120		41.70	0.41	6.23	77 - 7 - 7 - 7		23.00		0.09	<0.03	0.09	9.10	97.60
12 10121	V X 38	50.80	0.52	15.30	3. 12.00	0.20	4.77	7.62	2.38	0.08	0.12	6.90	101.63
22 10122		68.10	0.32		2.94	0.05	1.45	2.98	5.41	0.81	0.17	1.50	100,03
R2 10123		67.00	0.16	19.60		0.01	0.41	0.51	9.36	0.53	<0.03	0.20	98.68
R2 10124	145	50.90	0.52	16.70	13.20	0.22	8.11	7.31	2.99	0.16	0.17	3.00	103.28
R2 10125		40.00	0.30	5.00	10.20	0.21	21.90	9.91	0.03	0.05	0.03	13.60	101.23
K2 26		52.50	0.54	15.80	12.70	0.21	6.91	6.43	2.39	0.56	0.11	3.60	10).75
R227		69.00	0.31	16.10	2.71	0.03	1.45	2.25	5.94	1.53	0.10	1.50	100.92
K2 10130	establish in	62.20	0.37	. 18.60	2.60	0.04	1.80	2.09	9.52	0.56	0.16	2.40	100.34
R2 10131	. Oak State	47.50	0.40	6.10	12.00	0.18	22.30	1.82	0.03	<0.03	0.05	8.40	98.78
R2 10133	SHIP AND	53.70	0.50	15.00	11.90	0.20	6.75	7.57	2.81	0.15	0.10	3.70	102.38
process as a management of the section		and the same of			S. Karring		, a part of the section of the secti					and the second s	gazzan bilinaria

CHLAITEC LIEE
700 Rue Neree Tremblay
Ste-Foy, Quebec G1N 4H7
(418) 683-1777
TELEX: 051-3786 LOCAL 272

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NUMERO DE L'ECHANTILLON	ELEMENT UNITES	SiO2 PCT	TiO2 PCT	A1203 PCT	Fe203A PCT	Hn0 PCT	Hg0 PCT	Ca0 PCT	Na20 PCI	K20 PCT	P205 PCT	LOI PCT	Total PCT
R2 10134 R2 10145 R2 10146		51.70 51.20 47.30	0.53 0.46 0.57	15.40 13.50 17.10	11.70	0.18 0.22 0.22	7.42	7.70 6.22	4.15 3.54	0.08 0.10 1.46	0.04 0.07 0.07	4.00 3.90 2.40	100.54 100.79 100.40
	1. Com. 1. Co				¥le,					e e			4 4
KK MAR WELL	in in	(4) (1) (4)	might stall	医排液	+1 <b>516</b> 4		eribidi.	45467	W.			r je je pr	6.42%(b)
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ASSAYERS QUEBEC: 183 RUE GAMBLE O., C.P. 665 - ROUYN, J9X 2R8 - TEL: (819) 762-3010

ONTARIO: 20 VICTORIA STREET, SUITE 506 - TORONTO, M5C 2N8 - TEL: (416) 366-3100

July 28, 1986 ROUYN, QUE. \_

### **CERTIFICATE OF ANALYSIS**

Les Ressources La Pause Received from:

Reçu de:

July 11, 1986

Date Received:

Samples of:

Reçu le:

WHOLE ROCK ANALYSIS

Echantillons de:

Identification:

Lab Nos. 52808 to 52814 (incl.)

%	10023	10024	10025	10047	10080	10081	10090	
SiO <sub>2</sub>	55.68	56.85	52.99	65.30	45.85	40.96	45.96	
A1 <sub>2</sub> 0 <sub>3</sub>	12.99	12.57	14.00	17.51	6.30	5.74	10.94	
		10.51	9.86	3.40	10.52	11.52	15.83	
	4.34	6.26	7.42	1.32	4.94	7.27	2.88	
MgO	7.12	6.55	5.30	0.51	23.37	22.07	9.36	
Na <sub>2</sub> 0	0.59	0.61	1.90	8.63	0.29	0.19	2.51	
-		1.45	1.36	1.26	0.81	0.67	0.90	
	0.90	0.84	0.85	0.36	0.31	0.45	0.96	
MnO	0.13	0.14	0.15	0.05	0.12	0.18	0.13	
P205	0.18	0.11	0.16	0.21	0.11	0.12	0.19	
		5.47	5.29	2.00	7.37	11.28	8.55	
ppm								
Ba	195	239	345	216	28	29	263	
Cr	433	480	416	2287	2339	2378	1173	
Nb	134	142	165	110	133	202	204	
Sr	953	1689	249	399	10	61	103	
Y	24	27	30	13	14	16	44	
Zr	83	173	92	122	49	56	103	
W	68	53	65	489	34	27	65	

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ONTARIO: 20 VICTORIA STREET, SUITE 506 - TORONTO, M5C 2N8 - TEL. (416) 366-3100

### **Certificate of Analysis**

April 2, 1987

Received f Reçu de: Samples o		use	Date Received	1987
Echantificati	ns de:	No. 37174		
-		WHOLE	ROCK ANALYSIS	
%	11628			
SiO <sub>2</sub>	61.99			
$Al_2O_3$	14.22			
$Fe_2O_3$	3.54			
CaO	2.52			
MgO	3.14	11,00		
Na <sub>2</sub> O	7 - 44	* */*	,,,,,	
K <sub>2</sub> O	2.65	in the second	*	
TiO <sub>2</sub>	. 42	is in		
MnO	.06			
$P_2O_5$	.14			
L.O.I.	4.04			
ppm				
Ва	151			
Cr	625	·		
Nb	466			
Sr	325			

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ONTARIO: 20 VICTORIA STREET, SUITE 506 - TORONTO, M5C 2N8 - TEL: (416) 366-3100

### **Certificate of Analysis**

April 2, 1987

March 1987

Reçu de						Reçu le	ved		
Samples of Echantillons de	:								
Identification.		No. 34694							
0/				WHOLE RO	CK ANALY	SIS			
%	11505								
SiO <sub>2</sub>	66.32		975						
$Al_2O_3$	15.12								
Fe <sub>2</sub> O <sub>3</sub>	2.99								
CaO	2.10								
MgO	1.59			1,17	. ;				
Na <sub>2</sub> O	5.15			17: 17					
K₂O	3.00					¥*:			
TiO <sub>2</sub>	.34								
MnO	.03								
$P_2O_5$	.05								
L.O.I.	3.27								
ppm									
Ва	307								
Cr	817								
Nb	391								
Sr	184								
Υ	<10								
Zr	135								

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#### ANNEXE 3

Traitement des données lithogéochimiques

Par J. Descarreaux

Projet: La Pause - surface.

7CLIENT: LAPAUSE SURFACE DATA FILE: LAPAUSE 04:07:41FM 16 MAY 07 DISCLAIMER: THE CHARGE OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OF LIBORS THAT MAY AND LIBOR THE USE OF THE DATA.

DISCLAIMER: THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR LERORS THAT MAY ARTSE FROM THE USE OF THESE DATA.
***** REFERENCE DATA *****  AUTHOR: LAPAUSE YEAR : 1987 REFERENCE : LAPAUSE SAMPLE NO : R210001  PROVINCE : TOWNSHIP: NTS SHEET: LONG.: LAT.:
GEOL.AGE: GEOL.PROV.: GEOL. ENVIRONMENT: UTM SQ.IDENT.: UTM EAST: UTM NORTH:  ROCK TYPE: FARE NAME:  CONTEXT: STRATIGRAPHY: MAGMATIC SERIES: SPCC. GRAVITY:  DESCRIPTION:
******* ORIGINAL OXIDES AND TRACE ELEMENTS ******  SID2: 70.40
* * * * * * * * * * * * * * * * CALCULATIONS * * * * * * * * * * * * * * * * * *
****** NDRMALIZED DXIDES (PYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND 80% FE0, DRY, TOTAL=100%) ****** SID2: 70.54
****** OXIDES RATIOS AND INDEXES.*****  A-F-M : 57.84 31.25 10.91 FEO(TOTAL)/MGO : 2.8 ALKALINITY RATIO : NA DASICITY INDEX : 5.38  NA20-K20-S102 : 6 1 92 K20/NA20 : .23 ALKALINITY RATIO : NA DASICITY INDEX : 5.38  K20/NA20+K20 :19 FELSIC INDEX : 63.44 HASHIMOTO INDEX : 21.38  MAFIC INDEX : 74.12 MARCOTTE INDEX : -1.39
###### NORMATIVE MINERALS LISTING ******  QUARTZ : 28.59
****** NORMATIVE MINERALS RATIOS AND INDEXES ******  OR - AB - AN : 10.4 63.9 25.7 COLOR INDEX : 7.7 TOTAL % FELDSPARS : 2.64  ORTZ-ORTH-PLAG : 31.3 7.1 61.5 CRYSTALLIZATION INDEX: 18.04 TOTAL % PLAGIOCLASES: 6.13  DIFFERENTIATION INDEX: 47.16 PLAGIOCLASE INDEX : 29
* RITTMAN VALUES *  ****** MOLE NUMBERS ******  SI : 1.174
****** GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ****** THIS SAMPLE NA20: 4.73 K20: 1.1 MGO: 1.1 NORMAL VALUE 4.7 1.41 1.02 GAIN OR LOSS .03311 PRIORITY:
****** LITHONAMES (IF VOLCANIC ROCK) ******  MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE TYPE & FIELD NAME:  IRVINE-BARAGAR MAGMATIC SERIES: ROCK NAME BY SIO2: RHYOLITE  BARAGAR LITHONAME:
JENSEN MAGMATIC SERIES : CALC-ALKALINE JENSEN LITHONAME : RHYOLITE Toochiphin: Vol

CLIENT : LAPAUSE SURFACE DATA FILE : LAPAUSE 08:29:555M 17 May 17

DISCLAIMER: THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT HAS ARTHE FROM THE USE OF THESE PATA.

\*\*\*\*\* REFERENCE DATA \*\*\*\*\* RELORD NO.: 31563 AUTHOR: LAPAUSE YEAR : 1987 REFERENCE : LAPAUSE SAMPLE NO : R210002 PROVINCE : TOWNSHIP : NTS SHEET : LONG. : 1 AT. : UTM ZONE : UTM SQ. IDENT .: UTM EAST : UTM NORTH : GEDL . AGE : GEOL. PROV. : GEOL. ENVIRONMENT : ROCK TYPE : FORT NAME : CONTEXT : .. STRATIGRAPHY : MAGMATIC SERIES : SPEC. GRAVITY : DESCRIPTION : \*\*\*\*\* ORIGINAL OXIDES AND TRACE ELEMENTS \*\*\*\*\* SI02 : 64.80 CAO : 6.66 MNO : 0.08 S : PB: BI : F : ZN : AL203: 16,40 NA20 : 3.72 LOI: 4.30 AG : CL : HG : SN: FE203: 3.13 K2D : 2.01 SR : C02 : AS : CO: 11: FEO : TI02: 0.32 H20.P: AU: CR : MO : V : MGO : 0.89 P205 : 0.12 H20.M: BA : CU: NI : W : \*\*\*\*\*\* NORMALIZED DXIDES (PYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND 80% FE0, DRY, TOTAL=100%) \*\*\*\*\*\* AL203: 16.76 SID2 : 66.2 FE203: .64 FEO : 2.3 MGO: .91 CAO : 6.8 NA20 : 3.8 K20 : 2.05 T102 : . 33 P205 : .12 MNO : .08 \*\*\*\*\* OXIDES -- RATIOS AND INDEXES \*\*\*\*\* : 60.31 30.31 9.38 FEO(TOTAL)/MGO: 3.16 ALKALINITY RATIO : NA DASICITY INDEX : 6.8 NA20-K20-SI02 : 5 3 . 92 K20/NA20 : .54 ALKALI INDEX :35.04 SOLIDIFICATION INDEX : 9.44 K20/NA20+K20 : .35 FELSIC INDEX : 46.25 HASHIMOTO INDEX : 21.83 MAFIC INDEX :76.36 MARCOTTE INDEX : -1.79 \*\*\*\*\* NORMATIVE MINERALS -- LISTING \*\*\*\*\* MAGNETITE : QUARTZ : 21.37 ACMITE . .92 HALITE \* WOLLASTO (DP): 4.32 : CORUNDUM CA-SILICATE : HEMATITE : FLUORITE : \* ENSTATIT(DP): 1.76 2 ORTHOCLASE : 12.13 NA-MSILICATE: ILMENITE : THENARDITE : \* FERROSIL(DF): 2.58 ALBITE : 32.15 K-MSILICATE : SPHENE \* ENSTATIT(HP): .49 PYRITE ANORTHITE : 22.59 WOLLASTONITE: PEROVSKITE : CHROMITE : \* FERROSIL (HP): .72 ZIRCON : LEUCITE DIOPSIDE : 8.68 RUTILE \* FORSTERS(OL): LEUCITE : NEFHELITE : . HYPERSTHENE: 1.21 FLUORAPATITE: CALCITE : \* FAYALITE (DL): KALIOPHILITE: DLIVINE \*\*\*\*\*: TOTAL\*: 99.76 \*\*\*\*\* NORMATIVE MINERALS -- RATIOS AND INDEXES \*\*\*\*\*\* OR - AB - AN : 18.1 48.1 33.8 COLOR INDEX TOTAL % FELDSPARS : 6.87 : 11.43 QRTZ-ORTH-FLAG: 24.2 13.7 62 CRYSTALLIZATION INDEX: 26.73 TOTAL % PLAGIOCLASES: 4.74 DIFFERENTIATION INDEX: 44.28 PLAGIOCLASE INDEX : 41 \* RITTMAN VALUES \* \*\*\*\*\* MOLE NUMBERS \*\*\*\*\* \*\*\*\*\* RITMAN VALUES \*\*\*\*\*\* SI : 1.102 FE+2: .032 S: AN : NA : . 123 P : .002 0 SI : 66.2 CA : 2 AL : .329 MG : .023 K : MN : H20+: .0001 . 044 .001 AL : 15.08 ALK : 7.75 CA : .121 FE+3: .008 TI: .004 CO2 : H20-: .0001 FM : 1.85 O K : .26 \*\*\*\*\*\* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX. 1973) \*\*\*\*\*\* THIS SAMPLE NA20 : 3.8 K20: 2.05 MGO : .91 NORMAL VALUE 4.69 1.06 1.79 GAIN OR LOSS -.9 .99 -1.05 PRIORITY : \*\*\*\*\* LITHONAMES (IF VOLCANIC ROCK) \*\*\*\*\* MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE TYPE & FIELD NAME : IRVINE-BARAGAR MAGMATIC SERIES : ROCK NAME BY SIO2 : RHYDDACITE **V90**4 BARAGAR LITHONAME : JENSEN MAGMATIC SERIES : CALC-ALKALINE JENSEN LITHONAME : RHYOLITE

CLIENT: LAPAUGE SURFACE DATA FILE: LAPAUSE 08: 00:00/EM 16 MAY 87

DISCLAIMER : THE DWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT MAY ARISE FROM THE USE OF THESE DATA.

\*\*\*\*\* REFERENCE DATA \*\*\*\*\* RECORD NO.: 31564 AUTHOR: LAPAUSE YEAR : 1987 REFERENCE : LAPAUSE SAMPLE NO : R210003 PROVINCE : TOWNSHIP : NTS SHEET : LAT. : LONG. : UTM NORTH: UTM ZONE : UTM SQ. IDENT .: UTM EAST : GEOL. PROV. : GEOL . AGE : GEOL. ENVIRONMENT : ROCK TYPE : ROCK NAME : STRATIGRAPHY : CONTEXT : MAGMATIC SERIES : SPEC. GRAVITY : DESCRIPTION : \*\*\*\*\* ORIGINAL OXIDES AND TRACE ELEMENTS \*\*\*\*\* SIO2: 72.30 CAD : 1.90 MNO : 0.05 S : F : BI : PB: ZN : AL203: 13.80 NA20: 4.57 LOI : 1.00 AG : HG : SN: CL : K2D : 0.71 .... CO : SR : FE203: 2.51 C02 : AS : LI: TID2: 0.21 FEO : H20.P: AU: CR : MO: V : MGD : 0.58 P205 : 0.08 H20. M: BA : CU: NI: W : \*\*\*\*\*\* NORMALIZED DXIDES LEYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND 80% FE0, DRY, TOTAL=100%) \*\*\*\*\*\* FE203: .52 SIO2 : 74.92 AL203: 14.3 FEO : 1.87 MGO : .6 CAO : 1.97 NA20 : 4.74 K20 : .74 TI02 : .22 P205 : .08 MNO : .05 \*\*\*\*\* OXIDES -- RATIOS AND INDEXES \*\*\*\*\* : 64.7 28.22 7.08 FEO(TOTAL)/MGO: BASICITY INDEX : 3.68 3.9 ALKALINITY RATIO : NA NA20-K20-SID2: 6 1 93 K20/NA20: ALKALI INDEX :13.5 SOLIDIFICATION INDEX : 7.13 . 16 K20/NA20+K20 : .14 FELSIC INDEX : 73.56 HASHIMOTO INDEX : 16.65 MAFIC INDEX :79.93 MARCOTTE INDEX: -1.23 \*\*\*\*\* NORMATIVE MINERALS -- LISTING \*\*\*\*\* MAGNETITE : : 38.42 ACMITE . . 75 HALITE : \* WOLLASTO (DP): : 2.33 CA-SILICATE : CORUNDUM HEMATITE . FLUORITE \* ENSTATIT (DP): 2 ORTHOCLASE : 4.34 NA-MSILICATE: ILMENITE 2 THENARDITE : \* FERROSIL (DP): ALBITE : 40.06 K-MSILICATE : SPHENE PYRITE \* ENSTATIT(HP): 1.49 ANORTHITE : 9.22 .... WOLLASTONITE: PEROVSKITE : CHROMITE \* FERROSIL (HP): 2.74 : LEUCITE DIOPSIDE : RUTILE ZIRCON \* FORSTERS(OL): . : NEPHELITE : HYPERSTHENE: 4.24 FLUORAPATITE: .06 CALCITE \* FAYALITE (OL): : KALIOPHILITE: OLIVINE : \*\*\*\*: TOTAL\*: 99.83 \*\*\*\*\* NORMATIVE MINERALS -- RATIOS AND INDEXES \*\*\*\*\* OR - AB - AN : 8.1 74.7 17.2 COLOR INDEX ORTZ-ORTH-PLAG: 41.7 4.7 53.5 CRYSTALLIZAT : 5.4 TOTAL % FELDSPARS : 3.62 CRYSTALLIZATION INDEX: 10.26 TOTAL % PLAGIOCLASES: 9.28 DIFFERENTIATION INDEX: 46.73 PLAGIOCLASE INDEX : \* RITTMAN VALUES \* \*\*\*\*\* MOLE NUMBERS \*\*\*\*\* \*\*\*\*\* RITMAN VALUES \*\*\*\*\* SI : 1.247 FE+2: .026 NA : .153 .001 S : 0 SI : 74.92 CA : -2 AN : MG : .015 K : .016 AL : .28 .001 H204: .0001 AL : 12.87 ALK: 7.85 MN : FE+3: .007 H20-: .0001 FM : 1.22 K : .09 CA : .035 TI : .003 CO2 : 0 \*\*\*\*\* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) \*\*\*\*\*\* THIS SAMPLE NA20 : 4.74 K20: .74 MGO : .6 NORMAL VALUE 4.7 1.82 .. 5 GAIN OR LOSS . 04 -1.09 PRIORITY : -.03 \*\*\*\*\* LITHONAMES ... (IF VOLCANIC ROCK) \*\*\*\*\* MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE TYPE & FIELD NAME : IRVINE-BARAGAR MAGMATIC SERIES : ROCK NAME BY SID2 : RHYDLITE V90-BARAGAR LITHONAME : JENSEN LITHONAME : RHYOLITE JENSEN MAGMATIC SERIES : CALC-ALKALINE

CLIENT : LAPAUSE SURFACE DATA FILE : LAPAUSE 08: 30: 401:11 17: MAY 87 DISCLAIMER: THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT MAY ARISE FROM THE USE OF THESE DATA. \*\*\*\*\* REFERENCE DATA \*\*\*\*\* RECORD NO.: 31565 AUTHOR: LAPAUSE YEAR : 1987 REFERENCE : LAPAUSE SAMPLE NO : R210004 NTS SHEET : LONG. : PROVINCE : TOWNSHIP : LAT. : UTM ZONE : UTM SQ. IDENT .: UTM EAST : UTM NORTH : GEDL. AGE : GEOL. PROV. : GEOL. ENVIRONMENT : ROCK TYPE : ROCK NAME : STRATIGRAPHY : CONTEXT : MAGMATIC SERIES : SPEC. GRAVITY : DESCRIPTION : \*\*\*\*\*\* ORIGINAL DXIDES AND TRACE ELEMENTS \*\*\*\*\*\* SID2 : 66.50 CAD : 2.82 MND : 0.05 S: BI: F : PB: ZN: AL203: 15.40 NA20 : 5.19 LOI : 1.20 AG : CL: HG : SN: K20 : 1.04 C02 : FE203: 3.03 AS : CO: LI: SR : FEO : TI02 : 0.35 H20.P: MO : V : AU: CR : MGO : 1.27 P205 : 0.11 H20.M: NI: W : BA: CU: \*\*\*\*\*\* NORMALIZED DXIDES (FYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND 80% FE0, DRY, TOTAL=100%) \*\*\*\*\*\* SI02 : 69.62 AL203: 16.12 FE203: .63 FEO : 2.28 MGO : 1.33 CAD : 2.95 T102: .37 P205 : .12 NA20 : 5.43 K20 : 1.09 MNO : .05 \*\*\*\*\* OXIDES -- RATIOS AND INDEXES \*\*\*\*\* A-F-M : 60.59 27.04 12.36 FEO(TOTAL)/MGO: 2.14 ALKALINITY RATIO : NA BASICITY INDEX : 5.05 NA20-K20-SI02: 7 1 91 ALKALI INDEX :16.72 SOLIDIFICATION INDEX : 12.43 K20/NA20: .2 K20/NA20+K20 : .17 FELSIC INDEX : 68.85 HASHIMOTO INDEX : 22.41 MAFIC INDEX :68.63 MARCOTTE INDEX : -1.53 \*\*\*\*\* NORMATIVE MINEDALE \_\_ LICTING \*\*\*\*\*

***** NORMATIVE MINERALS LISTING *****			
QUARTZ : 24.42 ACMITE :	MAGNETITE : .91	HALITE :	# WOLLASTO(DP):
CORUNDUM : .91 CA-SILICATE :	HEMATITE :	FLUORITE :	* ENSTATIT(DP):
ORTHOCLASE : 6.43 NA-MSILICATE:	ILMENITE : .69	THENARDITE :	* FERROSIL(DP):
ALBITE : 45.97 K-MSILICATE :	SPHENE :	PYRITE :	* ENSTATIT(HP): 3.31
ANORTHITE : 13.89 MOLLASTONITE:	PEROVSKITE :	CHROMITE :	* FERROSIL(HP): 3.16
LEUCITE : DIOPSIDE :	RUTILE :	ZIRCON :	* FORSTERS(OL):
NEPHELITE : HYPERSTHENE : 6.47	FLUORAFATITE: .09	CALCITE :	* FAYALITE(DL):
KALIOPHILITE: OLIVINE :		*****:TOTAL*: 99.78	

\*\*\*\*\*\* NORMATIVE MINERALS -- RATIOS AND INDEXES \*\*\*\*\*\*

OR - AB - AN : 9.7 69.3 21 COLOR INDEX : 8.07

QRTZ-ORTH-PLAG : 26.9 7.1 66 CRYSTALLIZATION INDEX: 16.21 TOTAL % FELDSPARS : 6.29 TOTAL % FLAGIOCLASES: 9.86 CRYSTALLIZATION INDEX: 16.21 DIFFERENTIATION INDEX: 53.31 PLAGIOCLASE INDEX : 23

\* RITTMAN VALUES \* \*\*\*\*\* MOLE NUMBERS \*\*\*\*\* \*\*\*\*\* RITMAN VALUES \*\*\*\*\* SI : 1.159 FE+2: ..032 NA : .175 P : .002 S: 0 SI : 69.62 CA : -1 MG : .033 K : .023 MN : .001 H2D+: .0001 AL : 14.5 ALK: 9.23 AL : .316 K : .11 FE+3: .008 CA : .053 TI : .005 CD2 : 0 H20-: .0001 FM : 2.69

\*\*\*\*\* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) \*\*\*\*\*\* THIS SAMPLE NA20 : 5.43 K20: 1.09 MGO : 1.33 NORMAL VALUE 4.7 1.33 1.16 GAIN OR LOSS .73 -. 24 -.02 PRIORITY:

\*\*\*\*\* LITHONAMES ... (IF VOLCANIC ROCK) \*\*\*\*\* MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE IRVINE-BARAGAR MAGMATIC SERIES :

TYPE & FIELD NAME : ROCK NAME BY SIO2 : RHYODACITE BARAGAR LITHONAME :

JENSEN LITHONAME : RHYOLITE

V9+

AN :

JENSEN MAGMATIC SERIES

: CALC-ALKALINE

CLIENT: LAPAUSE SURFACE DATA FILE: LAPAUSE 08:31:10FM 16 MAY 87

DISCLAIMER : THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT MAY ARISE FROM THE USE OF THESE DATA.

DISCLAFFIER : THE DWILE UP THE PRODUCT IS NOT RESPONSIBLE FOR ANY PROBLETS OF ERRORS THAT THAT ARTISE FROM THE USE OF THESE DA	14.
***** REFERENCE DATA *****	31566
***** REFERENCE DATA ******  AUTHOR: LAPAUSE  PROVINCE: TOWNSHIP:  UTM ZONE: UTM SQ.IDENT.: UTM EAST:  WITH NORTH:	10005
PROVINCE: TOWNSHIP: NTS SHEET: LONG.: LAT.:	
UTM ZONE : UTM SQ.IDENT.: UTM EAST : UTM NORTH :	
BEUL. ABE: BEUL. PRUV. : BEUL. ENVIRONMENT: ROCK TYPE: ROCK NAME	:
CUNTEXT: MAGMATIC SERIES: SPEC. GRAVITY:	
DESCRIPTION:	
ANNUAL COLONIAL OVIDES AND TRACE OF EMPIRE	
******* UKIDES AND INCLE ELEMENTS ******	
SIO2: 64.10 CAO : 5.69 MNO : 0.12 S : BI : F : FB : ZN :	
ALZUS: 13.00 NAZU: 2.60 LUI: 3.40 AG: CL: HG: SN:	
FEZUSI J. 51 KZULI 1490 LUZI ASI LUI LII SKI	
MGD - 2 P4 P30F - 4 17 P30 M.	
###### ORIGINAL DXIDES AND TRACE ELEMENTS ******  SIO2: 64.10	
**************************************	
********	
****** NORMALIZED DXIDES (PYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND 80% FED. DRY, TOTAL=100%) ******	
\$102 + A5 92 A1 207 + 15 47 FF207 + 1 09 FF0 + 3 97 Mg0 + 3 04 CAD + 5 85	
SIO2: 65.92 AL203: 15.43 FE203: 1.09 FE0: 3.93 MGO: 3.04 CAO: 5.85 NA2O: 2.67 K2O: 1.5 TIO2: .31 P205: .13 MNO: .12	
101 101 101 101 101 101 101 101 101 101	
****** OXIDES RATIOS AND INDEXES ******  A-F-M : 34.1	
A-F-M : 34.1 41.05 24.86	9.47
NAZO-KZO-SIGZ: 4 2 94 KZO/NAZO: .56 ALKALI INDEX :35.97 SOLIDIFICATION INDEX:	25.08
K2D/NA20+K2D : .36 FELSIC INDEX : 41.62 HASHIMOTO INDEX :	34.76
MARIC INDEX :62.28 MARCOTTE INDEX :	66
****** NORMATIVE MINERALS LISTING ******	
QUARTZ : 25.71 ACMITE : MAGNETITE : 1.58 HALITE : * WOLLASTO(DP):	1.04
CORUNDUM :CA-SILICATE : HEMATITE : FLUORITE : * ENSTATIT(DP):	. 56
ORTHOCLASE: 8.87 NA-MSILICATE: ILMENITE: .58 THENARDITE: * FERROSIL(DP):	. 44
ALBITE : 22.62 K-MSILICATE : SPHENE : PYRITE : * ENSTATIT(HP):	7.01
ANORTHITE : 25.65 WOLLASTONITE: PEROVSKITE : CHROMITE : * FERROSIL(HP):	5.59
LEUCITE : DIOPSIDE : 2.05 RUTILE : ZIRCON : * FORSTERS(OL):	
NEPHELITE : HYPERSTHENE : 12.6 FLUORAPATITE: .1 CALCITE : * FAYALITE(DL):	
****** NORMATIVE MINERALS LISTING ******  QUARTZ : 25.71	
****** NORMATIVE MINERALS RATIOS AND INDEXES *****	
OR - AB - AN : 15.5 39.6 44.9 COLOR INDEX : 16.81 TOTAL % FELDSPARS : 7.14	
OR - AB - AN : 15.5 39.6 44.9 COLOR INDEX : 16.81 TOTAL % FELDSPARS : 7.14  ORTZ-ORTH-PLAG : 31 10.7 58.3 CRYSTALLIZATION INDEX: 31.77 TOTAL % FLAGIOCLASES: 8.27  DIFFERENTIATION INDEX: 31.49 PLAGIOCLASE INDEX : 53	
The state of the s	
* RITTMAN VALUES *	
****** RI MAN VALUES ******	
SI: 1.097 FE+2:055 NA: _086 P: _002 S: 0 SI: 65.92 CA: 0 AN:	
****** MOLE NUMBERS ****** SI : 1.097    FE+2:	
FE+3: .014 CA : .104 TI : .004 CU2 : 0 H2U-: .0001 FM : 6.13 K : .27	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
****** GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ******	
THIS SAMPLE NA20 : 2.67 K20: 1.5 MGO : 3.04	
NORMAL VALUE 4.68 1.04 1.85 GAIN OR LOSS -2.02 .46 1.02 PRIORITY:2	
GAIN OR LOSS -2.02 .46 1.02 PRIORITY :2	
****** LITHONAMES(IF. VOLCANIC_ROCK) ******	
****** LITUUNHEED11E_WHLUHNIL_KULKI ************************************	
TOURSELPANAGE MARMATIC CENTED: SUPPLIABILING TIFE & FIELD NAME BY CIO. : CUVUDANTE	
MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE IRVINE-BARAGAR MAGMATIC SERIES: IRVINE-BARAGAR MAGMATIC SERIES:  SUBALKALINE  TYPE & FIELD NAME: ROCK NAME BY SID2: RHYDDACITE BARAGAR LITHONAME:  JENSEN MAGMATIC SERIES  **CALC-ALKALINE**  JENSEN LITHONAME: ANDESITE	
JENSEN MARMATIC SERIES . CALC-ALVALINE JENSEN LITHONAME . ANDESTE	
APPORT UNDOUGLED SENTED : CHECK-WEIGHT ACADEM CILIDAHLE : WANTEDISE	

CLIENT : LAFAUSE SURFACE DATA FILE : LAFAUSE 08:31:56PM 16 MAY 87

DISCLAIMER: THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT MAY ARTISE FROM THE USE OF THESE DATA.

\*\*\*\*\* REFERENCE DATA \*\*\*\*\* RECORD NO.: 31567 AUTHOR: LAPAUSE YEAR: 1987 REFERENCE: LAPAUSE SAMPLE NO : R210004 PROVINCE : TOWNSHIP : NTS SHEET : LAT. : LONG. : UTM SQ. IDENT.: UTM EAST : UTM NORTH : UTM ZONE : GEOL. PROV. : GEOL. ENVIRONMENT : GEOL. AGE : ROCK TYPE : ROCK NAME. : STRATIGRAPHY: CONTEXT : SPEC. GRAVITY : MAGMATIC SERIES : DESCRIPTION : \*\*\*\*\*\* ORIGINAL OXIDES AND TRACE ELEMENTS \*\*\*\*\*\* SIO2: 72.20 CAO: 1.89 MNO: 0.03 S: BI: F: PB: ZN: AL203: 16.50 NA20 : 5.96 LOI : 1.30 AG : CL : HG: SN: K20 : 1.50 C02 : AS : T102 : 0.22 H20.P: AU : P205 : 0.07 H20.M: BA : FE203: 1.66 : 03 LI: SR : CR : CU : FEO : MO : V : MGC : 0.81 NI: W : \*\*\*\*\*\* NORMALIZED DXIDES (FYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND 80% FE0, DRY, TOTAL=100%) \*\*\*\*\*\* AL203: 16.39 FE203: .33 FE0 : 1.19 MGO : .8 CAO : 1.87 SIG2: 71.7 T102: .22 P205: .07 MND: .03 NA20 : 5.92 K20 : 1.49 \*\*\*\*\*\* OXIDES -- RATIOS AND INDEXES \*\*\*\*\*\* A-F-M : 76.16 15.62 8.22 FED(TOTAL)/MGO : 1.86 ALKALINITY RATIO : NA BASICITY INDEX : 2.86 NA20-K20-SI02: 7 2 91 K20/NA20: .25 ALKALI INDEX : 20.11 SOLIDIFICATION INDEX : 8.25 K20/NA20+K20 : .2 FELSIC INDEX: 79.85 HASHIMOTO INDEX: 22.72 MARIC INDEX :65.52 MARCOTTE INDEX : -1.66 \*\*\*\*\* NORMATIVE MINERALS -- LISTING \*\*\*\*\* QUARTZ : 25.83 ACMITE : MAGNETITE : .47 HALITE \* WOLLASTO (DP): : CORUNDUM : 1.8 CA-SILICATE : HEMATITE : FLUORITE : \* ENSTATIT (DP): . ORTHOCLASE : 8.8 ALBITE : 50.08 NA-MSILICATE: ILMENITE : .41
K-MSILICATE: SPHENE : THENARDITE : \* FERROSIL (DP): K-MSILICATE : SPHENE : PYRITE : \* ENSTATIT(HP): CHROMITE : ANORTHITE : 8.8 WOLLASTONITE: PEROVSKITE : \* FERROSIL (HP): 1.6 ZIRCON : CALCITE : LEUCITE : DIOPSIDE : DIOPSIDE : RUTILE : HYPERSTHENE : 3.6 FLUORAPATITE: .05 \* FORSTERS(OL): NEPHELITE : \* FAYALITE (DL): KALIOPHILITE: OLIVINE : \*\*\*\*:TOTAL\*: 99.84 \*\*\*\*\* NORMATIVE MINERALS -- RATIOS AND INDEXES \*\*\*\*\* OR - AB - AN : 13 74 13 COLOR INDEX : 4.48
ORTZ-ORTH-PLAG: 27.6 9.4 63 CRYSTALLIZATION INDEX: 10.2
DIFFERENTIATION INDEX: 60.68 TOTAL % FELDSPARS : 7.68 TOTAL % PLAGIOCLASES: 8.88 PLAGIOCLASE INDEX : 15 \* RITTMAN VALUES \* \*\*\*\*\* MOLE NUMBERS \*\*\*\*\* \*\*\*\*\* RITMAN VALUES \*\*\*\*\* S : 0 SI : 1.193 FE+2: .017 NA : .....191 P : .001 SI : 71.7 CA : -1 AN : MG: .02 K: .032 CA: .033 TI: .003 MN : 0 H20+: .0001 AL : 14.75 ALK : 10.37 AL : .321 FE13: .004 CO2 : 0 H2D-: .0001 FM : 1.61 K : .14 \*\*\*\*\*\* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) \*\*\*\*\*\* THIS SAMPLE NA20 : 5.92 K20: 1.49 MGO : .8 NORMAL VALUE -.23 GAIN OR LOSS 1.22 -.03 PRIORITY: \*\*\*\*\*\* LITHONAMES (IF VOLCANIC ROCK) \*\*\*\*\* MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE TYPE & FIELD NAME : IRVINE-BARAGAR MAGMATIC SERIES : ROCK NAME BY SIO2 : RHYOLITE PV BARAGAR LITHONAME : JENSEN MAGMATIC SERIES : CALC-ALKALINE JENSEN LITHONAME : RHYOLITE

....

DATA FILE: LAPAUCE CLIEBE - LODANIA SURFACE

CERTIFICATION OF CHILDREN	CHAIN PACE		7.64144	1 11.6	L. PH PHY. M.									B 1 2 B 1	13 1 1		Ch black for
DISCLAIMEN : HR	DMMER OF	Fi-II.	FROGRAM	IS NOT	RESPONSIBLE	1.06	ANY PROBLEMS	OR ETRRORS	THAT	May 1	ARI SE	FIGH T	1 IE	RPSE - D	11.41	1.44	DATA.

***** REFERENCE	DATA *****						RCC	ORD NO.: 31548
	YEAR : 1987	REFERENCE : LA	PAUSE		SHEET: UTM EAST		SAMPLE	NO : R210007
PROVINCE :				NTS S	SHEET :	LONG. +	1	A1. :
		HTM ZONE		M SO THEMS	LITM FAST		HTM MOSTIN	
BERL ASE .	CECLIFROV. :	GEO: ENVIRONMENT		111 1,700 1 2 4,6,5,7,1		POLICE T	VPT + DE	CI NOME +
CONTEXT	SIRATI	GRADIAL .	•	MACMATTO CEE	RIES: SPEC	CDAUTTY	11 6	
DESCRIPTION :	2110112	Later III 4.		incinit a	`****** • • • • • • • • • • • • • • • •	- DIMPOTITIE.		
DESCRIPTION:								
MANAGE OPTOTNO	OXIDES AND TRACE EL	EMENTS ANALYS						
***** DKIDINHL	OXIDES AND TRACE EL CAO : 4.41 NA20 : 4.30 K20 : 1.53 TIO2 : 1.05 F205 : 0.18	MAIO ARREST	6	***	p		DE:	761
S102 : 61.50	LAU : 4.41	MNU : 0.13	5 1	B1 :	F 1		P.B :	ZN :
AL203: 16.79	NA20 : 4.30	LOI : 0.70	AG :	CL:	145 :		SN:	
FE203: 5.22	K20 : 1.53	C02 :	AS :	CO:	i.I :		SR :	
FED :	TIO2: 1.05	H20.P:	AU:	CR :	MO :		V :	
MGD : 1.33	F205 : 0.18	H20.M:	BA:	Cn :	NI :		W :	
	* * * * * * *	*****	CALCUI	ATIONS		* A A A A A	* * *	
***** NORMALIZE	D DXIDES (FYRITE RE	MOVED IF SULFUR. 1	RON AS 201	4 FE203 AND 8	BOX FED. DEV. TO	TAL=100%) K	****	
SID2 : 64.84	AL 203: 17.05	FE203: 1.07	FEO : :	5.84 MGC	1.36	CAD : 4.	5	
NA20 : 4.39	AL203: 17.05 K20 : 1.56	TID2 : 1.07	P205 +	18 MNI	13		_	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1102 1 1107	1200 .					
EXXXXX OVIDES	RATIOS AND INDEXES	de ale ar as as as						
A F M	AC 40 AC 40 AL	17	TAL V MOO	7 67	AL KOL THITTY FIRT	10 . 10	PACTOTTY	TABLEY . 7 DA
Harrie I	48.69 40.18 11.	13 PEDUIC	HAC WASO	3.33	HERALINITY MET	IU: NA	BHSILIII	THUEX : 7.04
NA20-K20-5102 :		92	K2U/NA2U		ALKALI INDEX	126.22	SULIDIFICATION	INDEX : 11.25
K20/NA20+K20 :	. 26				FELSIC IND	EX: 56.94	HASHIMOTO	INDEX : 24.72
					MAFIC INDEX	:78.31	MARCOTTE	INDEX: 68
***** NORMATIVE	MINERALS LISTIN .05 ACMITE .39 CA-SILIC	G *****						
QUARTZ : 20	.05 ACMITE	:	MAGNETITI	: 1.54	HAL. ITE	:	* WOLLA	STO(DF):
CORUNDUM :	.39 CA-SILIC	ATE :	HEMATITE	:	FLUORITE		* ENSTA	TIT(DP):
ORTHOCLASE : 5	. 23 NA-MSILI	CATE:	ILMENITE	: 2.03	THENARDIT	E :	* FERRO	SIL(DP):
ALBITE : 37	.15 K-MSTLTE	ATF :	SPHENE		PYRITE	•	* ENST	TIT(HP): 3.38
ANDETHITE + 21	13 WOLLASTO	NITE:	PEROVSKI	TE .	CHEUMITE		# FERRO	SIL (HP): 4.64
LEUCITE .	DIORSIDE		DUTTE		ZIRCON	:	* FORST	ERS (OL):
NEDUCITE .	.23 NA-MSILI .15 K-MSILIC .13 WOLLASTO DIOPSIDE HYPERSTH	ENE 9 02	EL HODOEV.	TTTE: 14	CALCITE	:	* FAVAL	ITE (OL)
MALTODUTE TTO	DLIVINE	ENE : 0.02	PEDUNMEN	1116: .14	HALITE FLUORITE THENARDIT PYRITE CHROMITE ZIRCON CALCITE	AL*: 77.68	* 1191191	TIE (DE):
KHEIDFHILITEI	DETATIVE				*****:101	HL*: 77.00		
NODWATTI	E MINERALE BATTE	C AND THREVER						
***** NORMALIN	E MINERALS RATIO	S AND INDEXES ***	***		*****	mann m		
UR - AB - AN :	. 13.755	S LULUR INDEX.		11.59	TOTAL % PELDS	FARS : 7.	21	
GRTZ-ORTH-PLAG :	13.7 55 31. 22.9 10.5 66.6	CRYSTALLIZATI	IDM INDEX:	23.5	TOTAL % PLAGI	DOLAGES: 8.	28	
		DIFFERENTIAT	TON INDEX:	46.77	PLAGIOCLASE I	NDEX :	3.6	
* RITTMAN VALUES								
***** MOLE NUME	ERS *****				* * * *	** RITMAN V	ALUES *****	
SI : 1.079	FE+2: NA	: .142 P	: .003	s :	o si	: 64.84	CA : 0	AN :
AL : .334	FE+2:053 NA MG : .034 K CA : .08 TI	: .033 MN	: .002	H20+:	.0001 AL	: 15.34	ALK : B.14	
FE+3: .013	DA : .08 TI	: .013 CO	2: 0	H20 :	.0001 FM	: 2.77	1: : .19	
		484.5						
***** BAINS AND	LOSSES BY COMPARIS		OF THE A	BITIBI VOLCA	NICS (DESCARREAL	X. 1973) **	***	
	A20 : 4.39 K20:							
	4.63							
	26			INDITY .				
DATE OF LOSS	. 20		, ,	AUNTE :				
1 ***11**10**10**	C ATE UDI CONTE DOS	24						
MODONAL DIVATOR	S (IF VOLCANIC ROL	L	EVER A FIE	D NAME .				
MUDUNALD-KATSURA	MAGMATIC SERIES: S	OUBALKALINE	THE & FIE	LU NAME :				
INVINE-BARAGAR	AGMATIC SERIES :		ROCK NAME	BY SIUZ : RM	YUDACITE	V9 B		
		ALC-ALKALINE	BARAGAR LI	THONAME :		VE E		
JENSEN MAGMATIC	SERIES : C	ALC-ALKALINE (	JENSEN LIT	HONAME : DA	CITE			

CLIENT: LAFAUS SUBJACE DATA LILL: LAFAUSC 98: 33-13-9 Te Boy 15

PROVINCE :	Section 1 to 1	787 REFERENCE :	LAPAUSE						SAMPLE NO : R2	100003
CECH OCE .	TOWNSHIP :				NTS SHEE	T :	LONG. :		LAT. :	
GEOL. ACE :		UTM ZO	INC.;	UTM SQ.ID	ENT.:	UTM CAST	1	TU	SAMPLE NO: R2 SAMPLE NO: R2 M NORTH: ROCK NAME	
W W . CON S. A. CON.	FREDRICK I	GEBL. ENVIRONM	ENT :				RDCk	TYPE :	ROCK NAME	÷
CONTEXT	TC:	RATISRAPHY :		MAGMAT I	C SERIES	: SPEC	. GRAVITY	ž.		
DESCRIPTION :										
***** DRIGINAL	OXIDES AND TRACE	MNO : 0.05 L01 : 0.80 C02 : H20.P: H20.M:								
SIO2: 71.10	CAO : 3.12	MNO : 0.05	s:		BI:	Г :		PE:	2.14	
AL203: 16.40	NA20 : 5.65	L01 : 0.80	AG :		CL:	HG:		SN:		
FE283: 1.66	E100 - 0.74	LUZ :	AS :		CB:	L.I :		SR 1		
MCO : 0.55	P205 + 0.11	HZU.P;	HU:		CK :	TU :		V . 2		
. 0.33	7200 : 0:11	nzu.m.	DH :		CO:	147.		** .		
	8 X 2 X X X	* * * * * * * *	* CALC	ULATI	0 N S *	* * * * * *	* * * * *	s X 20 90		
***** NORMALIZE	D_DXIDES (EYRII	E REMOVED IF SULFU	R, IRON AS	20% FE203	AND BOX	FEO, DRY, TO	TAL=100%)	*****		
SI02 : 71.28	AL203: 16.44	FE203: .33	FEO :	1.2	MG0 :	.55	CAO : 3.	13		
NA20 : 5.66	K20 : .9	FE203: .33 TIO2: .34	P205	. 11	MNO :	.05				
***** OXIDES	- RATIOS AND INDE	EXES ****** 6.37 FED 92								
A-F-M :	75.93 17.71	6.37 FEI	(TOTAL)/MO	30 : 2.72	AL	KALINITY RAT	10 : NA	- E	ASICITY INDEX	3.37
NA20-K20-SI02 :	7	92	K:20/NA:	20 : 16	AL	KALI INDEX	:13.72	SOLIDIF	ICATION INDEX :	6.39
K20/NA20+K20 :	.14					FELSIC IND	EX : 67.7	RA	SHIMOTO INDEX :	14.16
						MAFIC INDEX	: 73.56		ARCUTTE INDEX	-1./4
***** NORMATIVE	MINERALS - LI	STING *****								
QUARTZ :	27 ACMI	TE :	MAGNET	TITE :	.48	HALITE			* WOLLASTO (DF):	
CORUNDUM	.72 CA-S	ILICATE :	HEMAT.	ITE :		FLUORITE			* ENSTATIT (DP) :	
ORTHOCLASE : :	5.33 NA-M	SILICATE:	ILMEN:	ITE :	.64	THENARDIT	E :		* FERROSIL (DP)	
ALBITE : 4	7.93 K-MS	ILICATE :	SPHEN	E		PYRITE	#		* ENSTATIT (HP):	1.37
ANURIHITE : 14	4.79 WOLLA	ASTUNITE:	PEROV	SKITE		CHRUMITE	:		* FERRUSIL (HP):	1.45
MEDUCITYE :	DIGP	DETUCKE . T OO	KALITE	ADATITE's	00	CALCITE			* FORSTERS (DL.)	
KALTOPHILITE:	n reta	INF .	LEUUN	HUHITIET	.00	CHECTIE	ALA: 69 75	•	* PHIHLICCULT	•
NACIONALIZATION.	- What Y	STING ***** TE : ILICATE: SILICATE: ILICATE: ASTONITE: GIDE : SIDE : ILICATE: SIDE : SIDE : SIDE : SIDE :				22727101	rue			
***** NORMATI	VE MINERALS R	ATIOS AND INDEXES 21.7 COLOR IND 66 CRYSTALLI DIFFERENT	*****	7.04			DASO 6			
DR AB T. AN	7.8 70.4	21.7 CULUR IND	EX ZATIONI INDI	1 3.94	101	TOTAL % PELDS	PARS : E	3.05		
ONTE ONTH TENO	2014 0.0	DIFFERENT	TATION IND	FY: 57 96	2 6	PLASTOCLASE T	MULTIPES: -	74		
471-1		Dai i Eitai	111111011 11101	EV. D24.16		CONTRACTOR A				
* RITTMAN VALUE	5 ×									
NAVANA MEN E BUING	DEDE PERCE					***	** RITMAN	VALUES +	****	
SI : 1.184	FE+2: .017	NA : 183	P : .	002 5		O SI	: 71.28	CA :	-1 AN	:
AL : .322	ME : .014	NA : .183 K : .019 TI : .004	MN 2 .4	001 HZC	000	D1 AL	: 14.79	ALK:	7.37	
FE+3: .004	CA : .056	TI : .004	C02 :	0 H20	.000	D1 FM	: 1.11	K :	.09	
		ARISON TO THE AVER	AGES OF TH	E ABITIBI	OLCANICS	G (DESCARREAU	X, 1973)	****		
THIS SAMPLE !	NA20 : 5.66 K2	0: .9 MGO :	. 55							
NORMAL VALUE	4.7	1.48	. 92							
GAIN OR LOSS	-76	57		PRIORITY :						
***** LITHONAM	ES CIF VOLCANIC	RDCK) ****** S: SUBALKALINE : : CALC-ALKALINE								
MCDONALD-KATSUR	A MAGMATIC SERIE	S: SUBALKALINE	TYPE & 1	FIELD NAME	:					
IRVINE-BARAGAR I	MAGMATIC SERIES		ROCK NA	ME BY \$102	: RHYOL1	ITE				
	*** *** **** * * * * * * * * * * * * *	and the server of the part of the server of	BARAGAR	LITHONAME	:		190			
		· COLC-OLVALING	TENDER I	TTUCKIAME	. POLINIPAL 1	T T L				

CLIENT : LAPAUGE SURFACE DATA FILE : LAPAUGE 08:33:51FM 16 M6V 67 DISCLAIMER; THE OWNER OF THE ERODRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT MAY ARGS, FROM THE USE OF THESE DATA. \*\*\*\*\* REFERENCE DATA \*\*\*\*\* RECORD NO.: 31570 AUTHOR: LAPAUSE YEAR : 1987 REFERENCE : LAPAUSE SAMPLE NO : R210007 NTS SHEET: LONG.: LAT.:
UTM SQ.IDENT.: UTM EAST: UTM NORTH: PROVINCE : TOWNSHIP : 1 AT. : UTM ZONE : GEOL. AGE: GEOL. PROV. : GEOL. ENVIRONMENT: ROCK TYPE : FOCK NAME : MAGMATIC SERIES : CONTEXT: STRATIGRAPHY: SPEC. GRAVITY : DESCRIPTION : ZN: FEO : T102 : 0.26 H20.P: AU : CR : MO : V : M6D : 0.30 P205 : 0.08 H20.M: BA : CU : NI : W : ...\*\*\*\*\*\* NORMALIZED OXIDES (PYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND 80% FEQ, DRY, TOTAL=100%) \*\*\*\*\*\* SID2: 75.76 AL203: 13.75 FE203: .28 FED : 1.01 MGO : .3 CAD : 2.26 NA20: 5.81 K20 : .46 TID2: .26 F205: .08 MND : .03 \*\*\*\*\* OXIDES -- RATIOS AND INDEXES \*\*\*\*\*\*

A-F-M : 79.77 16.41 3.82 FED(TOTAL)/MGD : 4.21 ALKALINITY RATIO : NA BASICITY INDEX : 2.57

NA20-K20-SIO2 : 7 1 92 K20/NA20 : .08 ALKALI INDEX : 7.34 SOLIDIFICATION INDEX : 3.83 FELSIC INDEX: 73.51 HASHIMOTO INDEX: 8.61
MAFIC INDEX: 81.13 MARCOTTE INDEX: -1.7 K2D/NA2D+K2D : .07 MARCOTTE INDEX : -1.75 MAGNETITE : .4 HALITE : \* WOLLASTO(DP): .25 

 QUARTZ
 : 34.7
 ACMITE
 : MAGNETITE
 : 4 HALITE
 : WULLASTB(DP): .25

 CORUNDUM
 : CA-SILICATE
 HEMATITE
 : FLUGRITE
 : ENSTATIT(DP): .09

 ORTHOCLASE
 : 2.72
 NA-MSILICATE
 ILMENITE
 : 49
 THENARDITE
 : \* FERROSIL(DP): .16

 ALBITE
 : 49.16
 K-MSILICATE
 SPHENE
 : PYRITE
 : ENSTATIT(HP): .65

 ANDRIHITE
 : 10.06
 MOLLASTONITE
 PEROVSKITE
 CHROMITE
 \* FERROSIL(HP): 1.08

 LEUCITE : DIOPSIDE : .51 RUTILE : ZIRCON :
NEPHELITE : HYPERSTHENE : 1.74 FLUORAPATITE: .06 CALCITE : \* FORSTERS(OL): NEPHELITE: HYPERSTHENE: 1.74
KALIOPHILITE: OLIVINE ... \* FAYALITE (OL): \*\*\*\*\*:TOTAL\*: 77.84 \*\*\*\*\* NORMATIVE MINERALS -- RATIOS AND INDEXES \*\*\*\*\*\* \*\*\*\*\*\* NORMATIVE MINERALS -- NATIUS HND INDEXES -- NATIUS HND INDE \* RITTMAN VALUES \* \*\*\*\*\* MOLE NUMBERS \*\*\*\*\* \*\*\*\*\* RITMAN VALUES \*\*\*\*\* SI : 1.261 FE+2: .014 NA : .187 P : .001 S : 0 SI : 75.76
AL : .27 M6 : .007 K : .01 MN : 0 H204: .0001 AL : 12.37
FE+3: .004 CA : .04 TI : .003 C02 : 0 H20-: .0001 FM : .61 SI : 75.76 CA : 0 AN : ALK : 7.17 FM : .61 K : .05 \*\*\*\*\*\* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) \*\*\*\*\*\* THIS SAMPLE NA20 : 5.81 K20: .46 MGO : .3 NORMAL VALUE 4.7 1.9 43

1.11 -1.45 -.25 PRIORITY: GAIN OR LOSS \*\*\*\*\*\* LITHONAMES (IF VOLCANIC ROCK) \*\*\*\*\*\* MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE TYPE & FIELD NAME : ROCK NAME BY SIG2 : RHYOLITE

IRVINE-BARAGAR MAGMATIC SERIES : JENSEN MAGMATIC SERIES : CALC-ALKALINE JENSEN LITHONAME : RHYOLITE

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	CHARLES OF	THE PERSON	ON TO ME	. : LAFAUR om erver	at Strong room	And Epolice CMC	ne euchor	THAT BOY	ACTEL CE	- 06:34: am tac asc	OF THESE DATAL
***** REFERENCE				FI PUDDITOR	7114 9. T Elex	PH9 ( 1 (V(Q)) 1.3) 2	OF ERNORS	113545 : 144.	May 2 237 - 1 43	791 - 3 FHZ C7256	RECORD NO.: 315
AUTHOR: LAPAUSE			REEL	ERENCE - 1	ΔΡΔΗΘΕ					SAI	MPLE NO : R210010
PROVINCE :	TOUNGUID	MN . 1707	1741	-11/-11/5	LEN PHONE	MTC	SHEET :		LONG .		LAT .
PROVINCE:	LOMISSITE			117 M 2001	-	UTM SQ. IDENT	A LIT	M CACT .	COMB. :	LITTON EDI	DETH.
CARELL AMERICA	control Publish			UTM ZONI		UTT SULIDENT	-: UI	D RHOLL:	DOON 7	UIN N	ROCE NAME :
		V. :						anen			HEAT BREET, :
CONTEXT		STRAIL	GRAPHY -			MAGMATIC S	EKIES :	SPEC.	PRUATIA 1		
DESCRIPTION:											
	- 1-1-4	100									
***** DRIGINAL		D_TRACE_EL	EMENTS	<b>美长长长长</b>							
5102 : 48.70	CAD :	6.75	MND :	0.18 7.70	S :	BI	:	F" :		PB:	ZN :
AL203: 12,40	NA20 :	1.23	LOI :	7.70	AG :	CL	2	HG:		SN:	
FE203: 8.57	K20 :	2.48	_002:		AS :		. h.( in )	LI:		SR :	
FFO :	T102 :	0.55	H20. P:		AU:	CR		MO :		V :	
FEO : MGO : 9.20	P205	0.11	H20. M:		BA:	CU	•	NI:		W :	
	1200		11201111								
	* * *	* * * * *	* * *	* * * * *		ULATION	5 * * * *	* * * *	* * * * *	* * *	
***** NORMALIZE	D OXIDES	(PYRLIE RE	MOVED I	F SULFUR.	IRON AS	20% FE203 AND	80% FEO.	DRY. TOTA	AL=100%) *	****	
5102 : 54.42	AL 203:	13.86	FE203:	1.91	FEO :	6.9 M	GD : 10.2	28 C/	0 : 7.5	4	
NA20 : 1.37			T102 :	. 61	P205 :	-12 M	ND :	2			
11.07	K.L.						334	_			
***** DXIDES	PATTOE A										
					TOTAL LAMO	0 - 04	AL MAL TH	ITTY DATE	: 1.2987	DACT	CITY INDEX : 17.
A-F-M : NA20-K20-5102.:	17.82 3	7.93 44.	25	FEUC	TUTAL / MG	3 . 84	HEKHLII				
			45		R2U/NA2	U : 2.02					TION INDEX : 44.
K20/NA20+K20 :	. 67								: 35.45		MOTO INDEX : 59.
							MAFI	INDEX	: 46.15	MARC	OTTE INDEX : 1.
	maria maria										
****** NORMATIVE QUARTZ : 2 CORUNDUM :	MINERALS	LISTIN	G ****	*							
QUARTZ : 2	.76	ACMITE	:		MAGNET	ITE : 2.77	H	ALITE	:		OLLASTO (DF): 5.
CORUNDUM		CA-SILIC	ATE :		HEMATI	TE		LUORITE	<b>:</b>	* E	NETATIT(DP): 3.
ORTHOCLASE : 16						TE : 1.16	TI	ENARDITE	:	* F	ERROSIL (DF): 1.
ALBITE : 11	63	K-MSILIC	ATF :				P	RITE	•	* E	NSTATIT (HP): 21.
ANORTHITE : 23	45	MOLLASTO	NITE.		PEROVS	KITE :	Ci		:	* F	ERROSIL(HP): 8.
CUCITE	a Twi	DIODETHE	. 1	0 50	PUTTLE		7	MODAL		* 5	ORSTERS(OL):
LEUCITE : NEPHELITE :		DIOFOLDE	1 I	0.07	FLUODA	DATITE. OF		ALCITE	;		AYALITE (DL):
NEPHELIJE:		HYPERSTE	ENE : 3	0.94	FLUUNA	PATTIE: .UV	Li	4LL:   L	- 0D 74		ATHEITE COLT
KALTORUULTE.		DLIVINE					*	****: 1014	.*: 99.76		
INTERACTOR CIAMA CARA											
		S RATIO	IS AND T	NDEXES **	***						
	E MINERAL	10112	TO FILED 2								
	E MINERAL	22.6 45.	P CO	LOR INDEX		: 45.46	TOTAL	% FELDSP	ARS : 1.	45	
	E MINERAL 31.8 5.1	22.6 45. 30.2 64.7	CD A	LOR INDEX	TION INDE	: 45.46 X: 46.66	TOTAL	% FELDSP	ARS : 1. CLASES: 5.	45 08	
	E MINERAL 31.8 5.1	22.6 45. 30.2 64.7	CO CR IQ	LOR INDEX YSTALLIZA FFERENTIA	TION INDE	: <b>45.46</b> X: 46.66 X: 28	TOTAL TOTAL PLAGI	% FELDSP % FLAGIO OCLASE IN	ARS : 1. CLASES: 5. DEX :	45 08 67	
	E MINERAL 31.8 5.1	<b>22.6 .45.</b> 30.2 64.7	CR DI	LOR INDEX YSTALLIZA FFERENTIA	TION INDE	: <b>45.46</b> X: 46.66 X: 28	TOTAL TOTAL PLAGI	% FELDSP % PLAGID OCLASE IN	ARS : 1. CLASES: 5. DEX :	45 08 67	
***** NORMATIV OR - AB - AN; QRTZ-ORTH-PLAG ;	31.8 5.1	<b>22.6 45.</b> 30.2 64.7	DD A	LOR INDEX YSTALLIZA FFERENTIA	TION INDE	: <b>45.46</b> X: 46.66 X: 28	TOTAL TOTAL PLAGI	% FELDSPI % PLAGIO OCLASE IN	ARS : 1. CLASES: 5. DEX :	<b>4</b> 5 08 <i>67</i>	
***** NORMATIV OR - AB - AN . : QRTZ-ORTH-PLAG : * RITTMAN VALUES	31.8 5.1	<b>22.6</b> 45. 30.2 64.7	A CO	LOR INDEX YSTALLIZA FFERENTIA	TION INDE	: 45.46 X: 46.66 X: 28	TOTAL TOTAL PLAGI				**
****** NORMATIV OR - AB - AN : GRTZ-ORTH-FLAG : * RITTMAN VALUES ****** MOLE NUMB	5.1 5.1 3 * 3ERS *****	<b>22.6 .45. 30.2 .64.7</b>	DD A	LOR INDEX YSTALLIZA FFERENTIA	TION INDE			****	RITMAN (	ALUES ****	
***** NORMATIV OR - AB - AN : QRTZ-ORTH-PLAG :  * RITTMAN VALUES  ***** MOLE NUMB SI : .906	31.8 5.1 8 * 8ERS **** FE+2:	22.6 45. 30.2 64.7 *	CR DI	LOR INDEX YSTALLIZA FFERENTIA	TION INDE	02 5 :	. 0 .	**** SI :	RITMAN (	/ALUES ****	2 AN :
****** NORMATIV  OR T AB — AN .:  ORTZ-ORTH-PLAG:  * RITTMAN VALUES  ****** MOLE NUMB  SI : .906.  AL : .272	31.8 5.1 8 * 8ERS ***** FE+2: MG : .	22.6 45. 30.2 64.7 ** .096 NA 255 K	CR DI	LOR INDEX YSTALLIZA FFERENTIA 044 P	TIOH INDE	02 S ::	. 0	***** SI : AL :	RITMAN 5 54.42 12.47	/ALUES **** CA : ALK: 4.	2 AN: 82
****** NORMATIV  OR T AB — AN .:  ORTZ-ORTH-PLAG:  * RITTMAN VALUES  ****** MOLE NUMB  SI : .906.  AL : .272	31.8 5.1 8 * 8ERS **** FE+2:	22.6 45. 30.2 64.7 ** .096 NA 255 K	CR DI	LOR INDEX YSTALLIZA FFERENTIA 044 P	TIOH INDE	02 S ::	. 0 .	***** SI : AL :	RITMAN 5 54.42 12.47	/ALUES ****	2 AN: 82
****** NORMATIV  ORT - AB - AN :  ORTZ-ORTH-FLAG:  * RITTMAN VALUES  ****** MOLE NUMB  SI : .906  AL : .272  FE+3: .024	31.8 5.1 8 * 8 ERS ***** FE+2: MG : .	* * * * * * * * * * * * * * * * * * *	CR DI	LOR INDEX YSTALLIZA FFERENTIA 044 P 057 M 008 C	TION INDE	02 S : 03 H20+: 0 H20-:	.0001 .0001	**** SI : AL : FM :	* RITMAN \$ 54.42. 12.47 20.65	VALUES **** CA : ALK : 4. K : .	2 AN: 82
****** NORMATIV OR - AB - AN : GRTZ-ORTH-PLAG :  * RITTMAN VALUES  ****** MOLE NUMB SI : .906. AL : .272 FE+3: .024  ****** GAINS AND	31.8 5.1 8 * 8ERS ***** FE+2: MG : . CA : .	22.6 .45. 30.2 64.7 ************************************	CR DI	LOR INDEX YSTALLIZA FFERENTIA  044 P 057 M 008 C HE AVERAG	TION INDE	02 S : 03 H20+: 0 H20-:	.0001 .0001	**** SI : AL : FM :	* RITMAN \$ 54.42. 12.47 20.65	VALUES **** CA : ALK : 4. K : .	2 AN: 82
****** NORMATIV OR - AB - AN : GRTZ-ORTH-PLAG :  * RITTMAN VALUES  ****** MOLE NUMB SI : .906. AL : .272 FE+3: .024  ****** GAINS AND	31.8 5.1 8 * 8ERS ***** FE+2: MG : . CA : .	22.6 .45. 30.2 64.7 ************************************	CR DI	LOR INDEX YSTALLIZA FFERENTIA  044 P 057 M 008 C HE AVERAG	TION INDE	02 S : 03 H20+: 0 H20-:	.0001 .0001	**** SI : AL : FM :	* RITMAN \$ 54.42. 12.47 20.65	VALUES **** CA : ALK : 4. K : .	2 AN: 82
****** NORMATIV OR - AB - AN : QRTZ-ORTH-PLAG :  * RITTMAN VALUES  ****** MOLE NUMB SI : .906 AL : .272 FE+3: .024  ****** GAINS AND THIS SAMPLE N	31.8 5.1 8 * **** 8 ERS **** MG : . CA : .	22.6 .45. 30.2 64.7  ** .096. NA 255 K 134 TI 3Y COMPARIS 7 K20:	6 CO CR DI	LOR INDEX YSTALLIZA FFERENTIA  044 P 057 M 008 C  HE AVERAG MGO: 10.	TION INDE	02 S : 03 H20+: 0 H20-:	.0001 .0001	**** SI : AL : FM :	* RITMAN \$ 54.42. 12.47 20.65	VALUES **** CA : ALK : 4. K : .	2 AN: 82
****** NORMATIV OR - AB - AN .: GRTZ-ORTH-PLAG:  * RITTMAN VALUES SI : .906 AL : .272 FE+3: .024  ****** GAINS AND THIS SAMPLE NORMAL VALUE	31.8 5.1 8 * **** 8 ERS **** MG : . CA : .	22.6 .45. 30.2 64.7  ** .096 NA 255 K 134 TI BY COMPARIS 37 K20:	6 CO CR DI	O44 POS7 MOOS CHE AVERAGMED : 10.	TION INDE	02 S : 03 H20+: 0 H20-:	.0001 .0001	**** SI : AL : FM :	* RITMAN \$ 54.42. 12.47 20.65	VALUES **** CA : ALK : 4. K : .	2 AN: 82
****** NORMATIV OR - AB - AN : GRTZ-ORTH-FLAG:  * RITTMAN VALUES ****** MOLE NUMB SI : .906. AL : .272 FE+3: .024  ****** GAINS AND THIS SAMPLE N NORMAL VALUE GAIN OR LOSS	31.8 5.1 8 * ***** FE+2: MG : CA : O LOSSES B NAZO : 1.3 3.3	22.6 .45. 30.2 64.7  ** .096 NA 255 K 134 TI 8Y COMPARIS 77 K20: 37	6 CO CR DI A	O44 POS9 MODE COMMENTAL COMMENT COMMEN	110M INDE 110M INDE : .0 N : .0 02 : ES OF THE 28 17	02 S : 03 H20+: 0 H20-:	.0001 .0001	**** SI : AL : FM :	* RITMAN \$ 54.42. 12.47 20.65	VALUES **** CA : ALK : 4. K : .	2 AN: 82
***** NORMATIV OR - AB - AN : QRTZ-ORTH-PLAG :  * RITTMAN VALUES  ***** MOLE NUMB SI : .906 AL : .272 FE+3: .024  ****** GAINS AND THIS SAMPLE N NORMAL VALUE GAIN OR LOSS  ****** LITHONAME	31.8 5.1 8 ***** FE+2: MG : . CA : . 0 LOSSES E NA20 : 1.3 -2.0	22.6 .45. 30.2 64.7  ** .096 NA 255 K 134 TI BY COMPARIS 67 K20: 67	6 CO DI 3 :	LOR INDEX YSTALLIZA FFERENTIA  044 P 057 M 008 C HE AVERAG MGO: 10. 5.	TION INDE TION INDE : .0 N : .0 D2 : ES OF THE 28 17	02 S : 03 H20+: 0 H20-: ABITIBI VOLC	0 .0001 .0001 CANICS (DE	**** SI : AL : FM :	* RITMAN \$ 54.42. 12.47 20.65	VALUES **** CA : ALK : 4. K : .	2 AN: 82
***** NORMATIV OR - AB - AN : QRTZ-ORTH-PLAG :  * RITTMAN VALUES  ***** MOLE NUMB SI : .906 AL : .272 FE+3: .024  ****** GAINS AND THIS SAMPLE N NORMAL VALUE GAIN OR LOSS  ****** LITHONAME	31.8 5.1 8 ***** FE+2: MG : . CA : . 0 LOSSES E NA20 : 1.3 -2.0	22.6 .45. 30.2 64.7  ** .096 NA 255 K 134 TI BY COMPARIS 67 K20: 67	6 CO DI 3 :	LOR INDEX YSTALLIZA FFERENTIA  044 P 057 M 008 C HE AVERAG MGO: 10. 5.	TION INDE TION INDE : .0 N : .0 D2 : ES OF THE 28 17	02 S : 03 H20+: 0 H20-: ABITIBI VOLC	0 .0001 .0001 CANICS (DE	**** SI : AL : FM :	* RITMAN \$ 54.42. 12.47 20.65	VALUES **** CA : ALK : 4. K : .	2 AN: 82
****** NORMATIV  OR - AB - AN :  ORTZ-ORTH-PLAG:  * RITTMAN VALUES  ****** MOLE NUMB  SI : .906.  AL : .272  FE+3: .024  ****** GAINS AND  THIS SAMPLE N  NORMAL VALUE  GAIN OR LOSS  ****** LITHONAME	31.8 5.1 8 * 8 * * * * * * * * FE+2:	22.6 .45. 30.2 &4.7  ** .096 NA .255 K .134 TI .257 K20: .37 .201 .201 .201 .201 .201 .201 .201 .201	6 CO CR DI C	LOR INDEX YSTALLIZA FFERENTIA  044 P 057 M 008 C HE AVERAG MGO: 10. 5. 5.	TION INDE	02 S: 03 H20+: 0 H20-: ABITIBI VOLC PRIGRITY: TELD NAME:	0 .0001 .0001 CANICS (DE	***** SI : AL : FM :	* RITMAN \ 54.42 12.47 20.65 , 1973) *+	/ALUES **** CA : ALK : 4. K : .	2 AN : 80 57
****** NORMATIV OR - AB - AN : GRTZ-ORTH-FLAG:  * RITTMAN VALUES ****** MOLE NUMB SI : .906. AL : .272 FE+3: .024  ****** GAINS AND THIS SAMPLE N NORMAL VALUE GAIN OR LOSS	31.8 5.1 8 * 8 * * * * * * * * FE+2:	22.6 .45. 30.2 &4.7  ** .096 NA .255 K .134 TI .257 K20: .37 .201 .201 .201 .201 .201 .201 .201 .201	6 CO CR DI C	LOR INDEX YSTALLIZA FFERENTIA  044 P 057 M 008 C HE AVERAG MGO: 10. 5. 5.	TION INDE	02 S : 03 H20+: 0 H20-: ABITIBI VOLC	0 .0001 .0001 CANICS (DE	***** SI : AL : FM :	* RITMAN \ 54.42 12.47 20.65 , 1973) *+	VALUES **** CA : ALK : 4. K : .	2 AN : 80 57

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	The second secon							LESSEN NO. TAR
***** REFERENCE		a majorge programa (2014)					C	RECORD NO.: 315 AMPLE NO : R21001
	YEAR : 1987		LAPAUSE.	NITC C	HEET.	LONG.	201	LAT. 1
PROVINCE :	TOWNSHIP :	TAME TO SEE	er:	स्थाना - स्थानाम्याम् २०० ≍	117784 (	LUNG.	บาพ. ห	LHI. I
cen act	GLOL.PRDV. :	CIP ZUN	NULL STATE	I ON THUMES	Oil i	amai i Doc	DIELE	RDCK NAME :
GEOL. AGE :	GLULITRUV. :	DELIL. ENVIRONME	.NI :	MACMATIC CES		SPEC. GRAVIT		NOCE MERCE
	STRAT	LIBRARITY 2		THUTH IT SEN	ilea :	SIEG. BINNYI	4 .	
DESCRIPTION :								
***** ORIGINAL	DXIDES AND TRACE E	LEMENTS *****	F (+)					
	CAD : 2.65			BI:		F :	LB:	ZN:
AL203: 16.80	NA20: 5.63	LDX : 1.30	AG :	CL :		F : HG :	SN:	
	K20 : 0.91:			BI : CL : -CO :		LI:	SR :	
FEO :	TID2: 0.34	H20.F:	AU:	CR :		MO :	V :	
MBO : 1.68	TID2: 0.34 P205: 0.07	H20.M:	BA:	CU:		NI:	W :	
	*****			A T 1 D N G				
	****		F L H L L O L	HIIUNG				
	ED OXIDES (PYRITE F							
SID2 : 68.35	AL203: 16.96	FE203: .71	FEO : 2	.54 MGC	1 . 1.7	CAO :	2.48	
NA20 : 5.68	K2092	TID2: .34	F205 :	.07 MNC	: .05			
			CONTRACTOR OF THE					
****** OXIDES	- RATIOS AND INDEXE	S *****						
A-F-M :	57.14 28.14 14 B 1	1.72 FEO	(TOTAL)/MGO :	1.87	ALKAL INIT	Y RATID : NA	BAS	ICITY INDEX : 5.4
		91	K20/NAZO :	16	ALKALI IN	DEX :13.9	4 SOLIDIFIC	ATION INDEX : 14.
K20/NA20+K20 :	. 14				FELSI	C INDEX : 71.	12 HASH	IMOTO INDEX : 23.
					MAFIC I	NDEX :65.6	66 MAR	COTTE INDEX : -1
	E1. (E2.4)							
	E MINERALS LISTI							
QUARTZ : 23	2.06 ACMITE	:		: 1.02		TE :		WOLLASTO (DF):
			HEMATITE	1	FLUG	RITE :	.*	ENSTATIT(DP):
ORTHOCLASE : :	5.42 NA-MSIL	_ICATE:	ILMENITE	: .65	THEN	ARDITE :	*	FERROSIL (DF):
ALBITE : 41	8.09 K-MSIL	ICATE :	SPHENE	_ :	PYRI	IE I	*	ENSTATIT(HP): 4.
ANORTHITE : 1	15.42 NA-MSIL 8.09 K-MSIL 2.81 NOLLASI DIOPSII HYPERSI	CUNITE:	PERUVSKII	E :	CHRO	MITE :	*	FERROSIL(HF): 3. FORSTERS(OL): FAYALITE(OL):
LEUCITE :	DIUPSII	DE :	RUITLE	175 05	ZIKL	UN :	1 1	FORSIERS (OL):
NEPHELITE :	HYPERS	THENE : 7.83	FLUURAFAI	116: '09	LALL	*:TOTAL*: 99.	DE X	FHYHLITE (DL.)
KALIOPHILITE:	OLIVINE				.7777	*: TUTHE*: 97.	. 63	
***** NORMATI	VE MINERALS RATI	IDS AND INDEXES **	****					
DR - AB - AN	: 8.2 72.5 16 : 25 6.1 68.	2.3 COLOR INDE	K	9.5	TOTAL %	FELDSPARS :	6.32	
QRT7-ORTH-PLAG	: 25 6.1 68.	9 CRYSTALLIZA	ATION INDEX:	15.77	TOTAL %	PLAGIOCLASES:	60.9	
		DIFFERENTIA	ATION INDEX:	55.43	PLAGIOCL	ASE INDEX :	21	
* RITTMAN VALUE						HANNE DITM	AN VALUES ***	***
***** MOLE NUM	BERS *****	107		S:				
21 1.1.138	FE+2: .035 I		1001	3 :	0001	AL . 15 24	ALK: 9	
	CA: .042	T	1001 : NE	HZUT: A	0001	FM . 7.47	K i	
FE43: .009	CA: . UNB	11: .004	102 : 0	n20": .	10001	111 : 2.42	15.	• • •
	D LOSSES BY COMPAR	ISON TO THE AVERAL	SES OF THE AB	ITIBI VOLCAN	VICS (DESCA	RREAUX, 1973	) *****	
	NA20 : 5.68 K20:							
	4.7							
GAIN OR LOSS	.98		.14 FRI	ORITY:				
***** LITHONAM	ES (IF VOLCANIC RO A MAGMATIC SERIES: MAGMATIC SERIES :	DCK) *****						
MCDONALD-KATSUR	A MAGMATIC SERIES:	SUBALKALINE	TYPE & FIEL	D NAME :				
IRVINE-BARAGAR	MAGMATIC SERIES :		ROCK NAME B	Y 5102 : RHY	YUDACITE		VIA	
		Commence of the Control of the Contr	- BARAGAR LII	HUNAME :			A70°	
JENSEN MAGMATIC	SERIES :	CALC-ALKALINE	JENSUN LITH	UNAME : DAG	JITE			

CLIENT: LAPAUSE SURFACE DATA FILE: LAFACEA THE ME ALATH THE THE MEN TO

DISCLAIMER: THE OWNER OF THE EROGRAM 15 NOT DESCONSISE FAS AND ELEMENT OF FARMERS THAT MAY PAPER THAT DISCLAIMER. ..... \*\*\*\*\* REFERENCE DATA \*\*\*\*\* RECORD NO.: 31573 AUTHOR: LAPAUSE YEAR: 1987 REFERENCE : LAPAUSE SAMPLE NO : R210012 PROVINCE : TOWNSHIP : MIS SHEET : LONG. : LAT. 1 IJTM ZONE . HIM GO. IDENT .: HIM EAST : UTM NORTH : GEOL. AGE : GEOL. PROV. : GEOL. ENVIRONMENT : ROCK TYPE : ROCK NAME : CONTEXT: SIRALIGRAPHY: MAGMATIC SERIES : SPEC. GRAVITY : DESCRIPTION : \*\*\*\*\*\* ORIGINAL OXIDES AND TRACE ELEMENTS \*\*\*\*\* SIO2 : 70.30 CAO : 2.52 MND : 0.04 S : BI : F : PR : ZN : AL203: 17,20 NA20 : 4.57 LOI : 2.30 AG : HG : SN : Ct. : FE203: 1.84 K20 : 2.76 C02 : SR -: AS : CO: LI: FEO : T102 : 0.26 H20.P: AU: V : CR : MO : MGD : 0.47 P205 : 0.06 H20. M: BA : CU: NI: W : \*\*\*\*\* NORMALIZED OXIDES (FYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND 80% FED. DRY. TOTAL=100%) \*\*\*\*\*\* AL203: 17.22 FE203: .37 FE0 : 1.33 MG0 : .47 CAO : 2.52 K20 : 2.76 TI02 : .26 P205 : .06 MN0 : .04 SID2 : 70.39 NA20 : 4.58 \*\*\*\*\* OXIDES --- RATIOS AND INDEXES \*\*\*\*\* A-F-M : 77.18 17.88 4.94 FED(TOTAL)/MGD: 3.54 ALKALINITY RATIO : NA BASICITY INDEX : 3.2 NA20-K20-SI02 : 6 4 91 \_\_\_\_ K20/NA20 : .6 ALKALI INDEX : 37.6 SOLIDIFICATION INDEX : 4.96 K20/NA20+K20 : .38 FELSIC INDEX : 74.44 HASHIMOTO INDEX : 31.27 MAFIC INDEX :78.34 MARCOTTE INDEX : -1.14 \*\*\*\*\* NORMATIVE MINERALS --- LISTING \*\*\*\*\* QUARTZ : 26.45 ACMITE : MAGNETITE : .53 HALITE # WOLLASTO (DP): ... FLUORITE ... CORUNDUM 1 2.25 HEMATITE : \* ENSTATIT (DP): CA-SILICATE : ORTHOCLASE : 16.33 NA-MSILICATE: ILMENITE : .49 THENARDITE : # FERROSIL(DF): ALBITE : 38.71 SPHENE K-MSILICATE : PYRITE : \* ENSTATIT(HP): 1.17 # FERROSIL(HP): 1.77 ANDRITHITE : 12.12 WOLLASTONITE: PEROVSKITE : CHROMITE : LEUCITE : DIOPSIDE : ZIRCON : RUTILE : \* FORSTERS (OL): NEPHELITE : HYPERSTHENE : 2.94 FLUORAFATITE: .04 CALCITE : \* FAYALITE(OL): KALIOPHILITE: OLIVINE : \*\*\*\*: TOTAL\*: 99.86 \*\*\*\*\*\* NORMATIVE MINERALS -- RATIOS AND INDEXES \*\*\*\*\*\* TOTAL % FELDSPARS : 7.16 OR - AB - AN : 24.3 57.6 18 COLOR INDEX : 3.96 QRTI-ORTH-PLAG: 28.3 17.4 54.3 CRYSTALLIZATION INDEX: 12.94 TOTAL % PLAGIOCLASES: 0.83 DIFFERENTIATION INDEX: 57.29 PLAGIOCLASE INDEX : 24 \* RITTMAN VALUES \* \*\*\*\*\* MOLE NUMBERS \*\*\*\*\* \*\*\*\*\* RITMAN VALUES \*\*\*\*\* P : .001 SI : 1.172 FE+2: .019 NA : .148 S : 0 SI 1 70.39 CA : -1 MN : .001 H20+: .0001 AL : .338 MG : .012 K : .059 AL : 15.49 ALK : 9.63 TI : .003 CO2 : FE+3: .005 CA : .045 H20-: .0001 FM : .95 K : .28 0 \*\*\*\*\* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) \*\*\*\*\*\* THIS SAMPLE NA20 : 4.58 K20: 2.76 MGO: .47 NORMAL VALUE 4.7 1.4 1.04 GAIN OR LOSS 1.36 -. 75 PRIORITY: -.12 \*\*\*\*\* LITHONAMES (IF VOLCANIC ROCK) \*\*\*\*\* MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE TYPE & FIELD NAME : IRVINE-BARAGAR MAGMATIC SERIES : ROCK NAME BY SID2 : RHYOLITE VSe BARAGAR LITHONAME : JENSEN MAGMATIC SERIES : CALC-ALKALINE JENSEN LITHONAME : RHYOLITE

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	DATA #####					RECORD NO.: 3
AUTHOR: LAPAUSE	YEAR 1 1987	REFERENCE : LAPAUS	E			SAMPLE NO : R210
PROVINCE :	TOWNSHIP:		NTS	SHEET :	LONG. :	LAT. :
	YEAR 1 1987 TOWNSHIP 1	UTM ZONE :	UTM SQ. IDENT	.: UTM EAST	1	UTM NORTH :
GEDL. AGE :	GEOL. PROV. : GEO	L. ENVIRONMENT :	WARNATTO S	ED 100 - 000	RUCK TYPE	: ROCK NAME :
DESCRIPTION :	SIRALIBRAN	HY = 1 mm m	MAGMATIC SI	ERIES: SPEC	GRAVIII :	
DESCRIPTION :						
HANNA DETCTNOL	TOACE ELEMEN	TC HHHHH				
C102 . 40 40	XXIDES AND TRACE ELEMENT CAO : 4.04 MNC NAZO : 4.45 LOI K2O : 1.83 COZ TIO2 : 0.24 M2C P205 : 0.08 M2C	. 0.04	. DI		PR	: ZN :
AL 203: 15 20	NA20 + 4.45 101	: 3.60 AG		. HG	SN	:
FE203: 13.20	V20 + 1 83 CD2	. 0.00 AS		. 11	SR	:
FED .	TID2 + 0.24 H20	ρ. ΔΙΙ	· CB	. MO	v	
MGO : 0.61	P205   0.08 H20	.M. BA	CU	, NI	W	:
		• • • • • • • • • • • • • • • • • • • •				
	* * * * * * * * * *	* * * * * CAL	CHLATION	5 * * * * * * *	* * * * * *	* *
***** NORMALIZE	O OXIDES (PYRITE REMOVE	D IE SULFUR. IRON	AS 20% FE203 AND	80% FED. DRY. TO	TAL=100%) ****	**
SI02 : 70.32	AL203: 15.58 FE: K20 : 1.88 TIC	03: .54 FE0	: 1.96 M	6063	CAO : 4.14	
NA20 : 4.56	K20 : 1.88 TIC	2 1 .25 P20	5: .08 MI	ND : .06		
***** OXIDES	RATIOS AND INDEXES *** 67.29 26.12 6.58 6 2 92	***				
A-F-M :	67.29 26.12 6.58	FEO (TOTAL)	/MGO: 3.88	ALKALINITY RAT	TIO : NA	BASICITY INDEX :
NA20-K20-S102 :	_ 6 _ 2 _ 92	K20/	NA20: .41	ALKALI INDEX	:29.19 SOL	IDIFICATION INDEX : 4
K20/NA20+K20 :	.29			FELSIC IN	DEX : 60.87	MASHIMUTU INDEX :
				MAFIC INDEX	:79.87	MARCOTTE INDEX :
						444-0
***** NORMATIVE	MINERALS LISTING **	***				
QUARTZ : 26	.48 ACMITE CA-SILICATE	: MAG	NETITE : .78	HALITE	:	* WOLLASTO (DF):
CORUNDUM	CA-SILICATE	1HEM	MATITE :	FLUORITE	Charles on the law	* ENSTATIT(DP):
ORTHOCLASE : 11	. OB NA-MBILICATE	: ILM	MENITE : .46	THENARDI	TE :	* FERROSIL(DP):
ALBITE : 38	.59 K-MSILICATE	s SPH	ENE :	PYRITE	:	* ENSTATIT(HP):
ANORTHITE : 16	.49 WOLLASTONITE	PER	OVSKITE :	CHROMITE	:	* FERROSIL(HP):
LEUCITE :	DIOPSIDE	: 2.96 RUT	ILE :	ZIRCON	2	* FDRSTERS(OL):
NEPHELITE :	HYPERSTHENE	: 2.92 FLL	ORAPATITE: .06	CALCITE	:	* FAYALITE(OL):
KALIOPHILITE:	.08 NA-MBILICATE .59 K-MSILICATE .49 MOLLASTONITE DIOPSIDE HYPERSTHENE OLIVINE			*****:TO	TAL*: 99.82	
***** NORMATIV	E MINERALS RATIOS AM	D INDEXES *****				
OR - AB - AN	16.7 58.3 24.9	COLOR_INDEX	: 7.12	TOTAL % FELD	SPARS. : 6.16	
QRTZ-ORTH-PLAG :	28.6 12 59.5	CRYSTALLIZATION I	NDEX: 18.33	TOTAL % PLAG	IDCLASES: 5.08	
	16.7 58.3 24.9 28.6 12 59.5	DIFFERENTIATION I	NDEX: 49.67	PLAGIOCLASE	INDEX : 3	50
* RITTMAN VALUES	*				DITMAN !!!!	ICA
***** MOLE NUMB	ERS *****			***	*** KIIMAN VALL	たっ オー・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・
SI : 1.17	FE+2:	147P. :	.001 5 :	0 51	: /0.32 CF	1: 0 AN:
AL : .306	MG : .016 K :	.04 MN :	.001 H2O+:	.0001 AL	: 14.02 AL	K: 8.72
FE+3: .007	FERS ****** FE+2: .027 NA : MG : .016 K : CA : .074 TI :	.003 CD2:	O H20-:	.0001 FM	: 1.28 K	: .21
The second of th		the same and the same of the s				
	LOSSES BY COMPARISON		THE ABITIBI VOLC	ANILS (DESCARREA	UX, 19/3) ****	**
	A20 : 4.56 K20: 1.8					
NORMAL VALUE	4.7 1.39	1.06				
GAIN OR LOSS	14 .40	61	PRIORITY:			
***** LITHONAME	S(IF_VOLCANIC_ROCK)_	£###				
MCDONALD-KATSURA	MAGMATIC SERIES: SUBAI	KALINE TYPE	& FIELD NAME :			
TOUTTHE DADADAD &	ARMATIC SERIES :	ROCK	NAME BY SIG2 : R	SHYDLITE		
INVINE-BARAGAR P	HOINTI OLITZO	110011	AR LITHONOME .		V5 m	

JENSEN MAGMATIC SERIES

V5 m

CLIENT + LAPAUSE SURFACE DATA FILE + LAPAUSE 08+37+02PM 16 MAY 87 DISCLAIMER: THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT MAY ARTSE FROM THE USE OF THESE DATA. \*\*\*\*\* REFERENCE DATA \*\*\*\*\* RECORD NO.: 31575 AUTHOR: LAPAUSE YEAR: 1987 REFERENCE: LAPAUSE SAMPLE NO . R210014 PROVINCE : TOWNSHIP : NTS SHEET : LONG. : LAT. 1 HTM ZONE : UTM SQ. IDENT.: UTM EAST : UTM NORTH: GEOL. AGE : GEOL. PROV. : GEOL. ENVIRONMENT : ROCK TYPE : ROCK NAME : CONTEXT: STRATIGRAPHY : MAGMATIC SERIES : SPEC. GRAVITY . DESCRIPTION : SARARA OPTOTNOL OVIDER AND TRACE ELEMENTS ARREST CAG : 2.30 F; PR : SI02 : 71.70 MND : 0.04 s: BI: ZN : NA20 : 3.79 AL 203: 16.00 LOI : 1.60 AG : CL : HG: SN : K20 : 2.05 SR : FE203: 3.09 CD2 : AS : CO: 1.7 FEO : H20.P: v i TID2 : 0.35 ALI : CR : MO : MGG : 1-11 P205 : 0.06 H20.M: BA : CU : NI: \*\*\*\*\*\* NORMALIZED OXIDES (PYRITE REMOVED IE SULFUR, IRON AS 20% FE203 AND 80% FE0. DRY, TOTAL=100%) \*\*\*\*\*\* SIO2 : 71.53 AL203: 15.96 🔆 FE203: .62 FEO : 2.22 MGO : 1.11 CAO : 2.29 NA20: 3.78 K20 : 2.05 T102 : .35 P205 : .06 MND : .04 \*\*\*\*\* OXIDES -- RATIOS AND INDEXES \*\*\*\*\* A-F-M : 59.61 29.04 11.35 FED (TOTAL) /MGD : ALKALINITY RATIO : NA BASICITY INDEX : 4.54 2.5 NA20-K20-SI02 : 5 3 K20/NA20 ± ALKALI INDEX :35.16 SOLIDIFICATION INDEX: 11.42 92 . 54 K20/NA20+K20 : .35 FELSIC INDEX : 71.8 HASHIMOTO INDEX : 34.24 MAFIC INDEX :71.9 MARCOTTE INDEX : -.5 1. 美国 \*\*\*\*\* NORMATIVE MINERALS -- LISTING \*\*\*\*\* QUARTZ : 33.91 ACMITE : MAGNETITE : HALITE # WOLLASTO(DF): CORUNDUM ...... 3.49 CA-SILICATE HEMATITE : FLUORITE : # ENSTATIT(DP): ILMENITE : ORTHOCLASE : 12.08 NA-MSILICATE: THENARDITE : \* FERROSIL (DP): . 44 # ENSTATIT(HP): 2.75 ALBITE : 31.99 K-MBILICATE : SPHENE PYRITE CHROMITE : MOLLASTONITE: PEROVSKITE : # FERROSIL (HP): 3.06 ANDRTHITE ... 10.99 ...... LEUCITE : DIOPSIDE : ZIRCON : RUTILE \* FORSTERS(OL): NEPHELITE : HYPERSTHENE : 5.82 FLUORAPATITE: .04 CALCITE : # FAYALITE(OL): \*\*\*\*:TOTAL\*: 99.87 KALIOPHILITE: OLIVINE : \*\*\*\*\* NORMATIVE MINERALS -- RATIOS AND INDEXES \*\*\*\*\*\* : 7.37 OR - AB - AN .: 21.9 58.1 20 COLOR INDEX : 7.37

QRTZ-ORTH-PLAG : 38.1 13.6 48.3 CRYSTALLIZATION INDEX: 12.92 TOTAL % FELDSPARS : 5.06 TOTAL % PLAGIOCLASES: 2.98 DIFFERENTIATION INDEX: 47.56 PLAGIOCLASE INDEX : 26 \* RITTMAN VALUES \* \*\*\*\*\* MOLE NUMBERS \*\*\*\*\* \*\*\*\*\*\* RITMAN VALUES \*\*\*\*\* SI : 1.19 FE+2: .031 NA 1 .122 P 1 .001 S : 0 SI : 71.53 CA : -2 AN : AL: .313 MG : .028 K : .044 MN : .001 H20+: .0001 AL: 14.36 ALK: 7.72 FE+3: .008 CA : .041 TI: .004 CO2 : 0 H20-: .0001 FM : 2.25 K 1 .26 \*\*\*\*\* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBL VOLCANICS (DESCARREAUX. 1973) \*\*\*\*\*\* THIS SAMPLE NAZO : 3.78 K20: 2.05 MGD : 1.11 NORMAL VALUE 4.7 1.5 .88 -.92 GAIN OR LOSS . 55 PRIORITY: \*\*\*\*\* LITHONAMES (IF VOLCANIC ROCK) \*\*\*\*\* MCDONALD-KATSURA MAGMATIC BERIES: SUBALKALINE TYPE & FIELD NAME : IRVINE-BARAGAR MAGMATIC SERIES :

ROCK NAME BY SIO2 : RHYOLITE

JENSEN LITHONAME : RHYOLITE

BARAGAR LITHONAME :

and the state of t

15

JENSEN MAGMATIC SERIES : CALC-ALKALINE

TYPE & FIELD NAME :

BARABAR LITHONAME :

ROCK NAME BY SIG2 : RHYODACITE

1

\*\*\*\*\* LITHONAMES .. (IF\_VOLCANIC\_ROCK) \*\*\*\*\*\*

MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE

IRVINE-BARAGAR MAGMATIC SERIES :

JENSEN MAGMATIC SERIES : CALC-ALKALINE JENSEN LITHONAME : DACITE

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JENSEN LITHONAME : THOLEIITIC DACITE

The state of the s

VIL

JENSEN MAGMATIC SERIES : THOLEIITIC JENSEN LITHONAME :

1

CLIENT: LAPAUSE SURFACE DATA FILE: LAPAUSE OB:28:56FM 16 MAY 87
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***** REFERENCE DATA ****** AUTHOR: LAPAUSE YEAR: 1987 REFERENCE:	LADAUGE	RECORD NO.: 31578
		AMPLE NO : (R210017)
PROVINCE: TOWNSHIP:		LAT. :
	NE : UIM SQ. IDENT.: UTM EAST : UTM N	
GEOL. AGE: GEOL. PROV. : GEOL. ENVIRONM		ROCK NAME :
CONTEXT: STRATIGRAPHY:	MAGMATIC SERIES : SPEC. GRAVITY :	
DESCRIPTION:		
THE OPTOTAL OF THE AND TRACE PLENTING		
****** ORIGINAL OXIDES AND TRACE ELEMENTS *****		
SIO2 : 66.60 CAD : 2.67 MNO : 0.06 AL203: 17.90 NA20 : 6.90 LDI : 1.20	S: DI: F: PD:	ZN :
AL203: 17.90 NA20 : 6.90 LOI : 1.20 FE203: 3.58 K20 : 0.87 CD2 :	AG: CL: HG: SN:	
FE203: 3.58 K20 : 0.87 C02 :		
FEO: T102: 0.40 H20.P:	AU: CR: MO: V:	
FEO : T102 : 0.40 H20.P: MGO : 1.76 P205 : 0.22 H20.M:	BA: CU: NI: W:	
	* CALCULATIONS * * * * * * * * * * * * * *	
*******	* C H L C U L H I 1 U N 5 * * * * * * * * * * * * * * * * * *	
***** NORMALIZED OXIDES (PYRITE REMOVED IF SULFUR	, IRON AS 20% FE203 AND 80% FED, DRY, TOTAL=100%) ******	
SIO2 : 66.15 AL203: 17.78 FE203: .71	FEO : 2.56 MGO : 1.75 CAO : 2.65	
	P205 : .22 MNO : .06	
N 10 CONTROL OF THE PROPERTY AND ADMINISTRATION AND ADMINISTRATION OF THE PROPERTY OF THE PROP		
****** OXIDES RATIOS AND INDEXES *****		
A-F-M : 60.57 25.69 13.75 FED	(TOTAL)/MGO: 1.83 ALKALINITY RATIO: NA BASI	ICITY INDEX : 5.47
A-F-M : 60.57 25.69 13.75 FEO NA20-K20-S102 : 9 1 90	K20/NA20 : .13 ALKALI INDEX :11.15 SOLIDIFICA	
K20/NA20+K20 : .11	FELSIC INDEX : 74.42 HASH	
1 11		COTTE INDEX: -2.1
	PIRTIC TADEX :03.14 PIRA	JUITE HADEX : -2.1
****** NORMATIVE MINERALS LISTING ******		
QUARTZ : 13.68 ACMITE :	MAGNETITE : 1.03 HALITE : * 1	NOLLASTO (DF):
CORUNDUM : 1.27CA-SILICATE :	HEMATITE : FLUORITE : * E ILMENITE : .75 THENARDITE : * E SPHENE : PYRITE : * E PEROVSKITE : CHROMITE : * E	ENSTATIT(DP):
ORTHOCLASE : 5.1 NA-MSILICATE:	ILMENITE : .75 THENARDITE : * F	FERROSIL (DP): ENSTATIT (HP): 4.35
ALBITE : 57.99 K-MSILICATE : ANORTHITE : 11.72 WOLLASTONITE: LEUCITE : DIOPSIDE :	SPHENE : PYRITE : * E	ENSTATIT(HP): 4.35
ANORTHITE : 11.72 WOLLASTONITE:	PEROVSKITE : CHROMITE : * F	FERROSIL(HP): 3.56
LEUCITE : DIOPSIDE :	RUTILE : ZIRCON : * f	FERROSIL(HP): 3.56 FORSTERS(OL):
ORTHOCLASE: 5.1 NA-MSILICATE: ALBITE: 57.99 K-MSILICATE: ANORTHITE: 11.72 WOLLASTONITE: LEUCITE: DIOFSIDE: NEPHELITE: HYPERSTHENE: 7.92	FLUORAPATITE: .17 CALCITE : * F	FAYALITE (OL):
KALIOPHILITE: OLIVINE :	*****:TOTAL*: 99.63	
****** NORMATIVE MINERALS RATIOS AND INDEXES *	****	
OR - AB - AN : 6.8 77.5 15.7 COLOR INDE	X : 9.7 TOTAL % FELDSPARS : 4.81	
QRTZ-ORTH-PLAG: 15.5 5.8 78.8 CRYSTALLIZ	X : 9.7 TOTAL % FELDSPARS : 4.81 ATION INDEX: 14.77 TOTAL % PLAGIOCLASES: 9.71 ATION INDEX: 64.36 FLAGIOCLASE INDEX : 17	
DIFFERENTI	ATION INDEX: 64.36 FLAGIOCLASE INDEX : 17	
and the second s		
* RITTMAN VALUES *		
***** MOLE NUMBERS *****	***** RITMAN VALUES ***	***
SI : 1.101 FE+2:036 NA : .221	P : .003 S : 0 SI : 66.15 CA :	-1 AN :
	MN : .001 H20+: .0001 AL : 16 ALK : 11.	
	CO2: 0 H20-: .0001 FM: 3.53 K:	
A CONTRACTOR OF THE PARTY OF TH		
***** GAINS AND LOSSES BY COMPARISON TO THE AVERA	GES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ******	
THIS SAMPLE NA20 : 6.85 K20: .86 MGO : 1		
NORMAL VALUE4.69 1.06	1.8	
GAIN OR LOSS 2.152 -	.22 PRIORITY:	
***** LITHONAMES (IF VOLCANIC ROCK) *****		
MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE	TYPE & FIELD NAME :	
IRVINE-BARAGAR MAGMATIC SERIES :	ROCK NAME BY SID2 : RHYODACITE	
IRVINE-BARAGAR MAGMATIC SERIES : JENSEN MAGMATIC SERIES : CALC-ALKALINE	BARAGAR LITHONAME : 17	
JENSEN MAGMATIC SERIES : CALC-ALKALINE	JENSEN LITHONAME : DACITE	

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***** REFERENCE DATA *****	RECORD NO.: 31579
AUTHOR: LAPAUSE YEAR : 1987 REFERENCE	
PROVINCE : TOWNSHIP :	
	ONE : UTM SQ.IDENT.: UIM EAST : UTM NORTH :
GEOL.AGE: GEOL.PROV.: GEOL, ENVIRON	MENT: ROCK TYPE: ROCK NAME:
CONTEXT: STRATIGRAPHY:	MAGMATIC SERIES: SPEC. GRAVITY:
DESCRIPTION :	
***** ORIGINAL OXIDES AND TRACE ELEMENTS *****	
SIO2 : 52.20	S: DI: F: PB: 2N: AG: CL: HG: SN: AS: CD: LI: SR:
AL203: 13.70 NA20 : 2.28 LOI : 7.00	AG: CL: HG: SN:
FE203: 15.10 K20 : 0.23 C02 :	AS: CO: LI: SR:
FEO : TIO2 : 0.85 H20.P: MGO : 4.91 P205 : 0.10 H20.M:	AU: CR: MO: V:
MGD : 4.91 P205 : 0.10 H20.M:	BA: CU: NI: W:
* * * * * * * * * * * * * * *	* * C A L C U L A T I O N S * * * * * * * * * * * * * * * * * *
****** NORMALIZED DXIDES (PYRITE REMOVED IF SULFU	IR, IRON AS 20% FE203 AND 80% FE0, DRY, TOTAL=100%) ******
SIO2: 55.49 AL203: 14.56 FE203: 3.21	FEO : 11.56 MGO : 5.22 CAO : 6.05 P205 : .11 MNO : .23
NA20: 2.42 K20: .24 TIO2: .9	P205 : .11 MNO : .23
****** OXIDES RATIOS AND INDEXES *****	THE PARTY AND TH
A-F-M : 11.74 65.21 23.05 FE NA20-K20-SID2 : 4	O(TOTAL)/MGD: 2.77 ALKALINITY RATIO: NA BASICITY INDEX: 20.41
NA20-K20-SID2: 4	K2D/NA2D: .1 ALKALI INDEX :9.02 SOLIDIFICATION INDEX: 23.38
K2D/NA20+K2D : .09	FELSIC INDEX: 30.54 HASHIMOTO INDEX: 39.2
	MAFIC INDEX :73.89 MARCOTTE INDEX :78
AND	
***** NORMATIVE MINERALS LISTING ******	MAGNETITE : 4.65 HALITE : * WOLLASTO(DF): .49
QUARTZ : 12.29 AUMITE :	HEMATITE: 4.65 HALITE: * WOLLASTO(DF): .49 HEMATITE: FLUORITE: * ENSTATIT(DF): .2
CURUNDUM : LATSILICATE :	HEMAILE : FLUORIE : * ENSHILL DP): .2
UNIHULLASE : 1.44 NA-MSILICATE:	ILMENITE : 1./1 IMENANDITE : * FERRUSILUF): .20
ALBITE : 20.5 K-MSILILATE:	DEFINITION : FIRST : F
HNUKTHITE : 28.13WULLASTUNITE:	THENARDITE
NEGUCIAE : DIGESTREME : 70 00	FLUGRAPATITE: .08 CALCITE: * FAYALITE(OL):
KALIOPHILITE: OLIVINE :	MAGNETITE : 4.65
KALIOPHILITE: OLIVINE :	**************************************
****** NORMATIVE MINERALS RATIOS AND INDEXES	*****
OD - AD - AN . 2 9 40 9 54 2 COLOR THE	10 . 37 % TOTAL 7 FELDSPARS . 0.07
0FT7-0FTU-PLAG : 19 7 2 3 79 CRYSTALL I	724TION INDEX: 37.52 TOTAL Y PLAGING ASES, R.A.3
DICEOPENT	******* DEX : 37.36 TOTAL % FELDSPARS : 0.07 ZATION INDEX: 37.52 TOTAL % PLAGIOCLASES: 8.63 TIATION INDEX: 21.94 PLAGIOCLASE INDEX : 58
DIFFERENT	TATION INDEX. 21.74 TENDINGERSE TABLE
* RITTMAN VALUES *	
***** MOLE NUMBERS *****	***** RITMAN VALUES *****
SI : .924 FE+2: .161 NA : .078	P : .002 S : 0 SI : 55.49 CA : 0 AN :
AL : .286 MG : .129 K : .005	P : .002
FE+3: .04 CA: .108 TI: .011	CO2: 0 H20-: .0001 FM : 10.6 K : .06
12.0. 104 EM 1 1100 VI 1 1011	
	RAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ******
THIS SAMPLE NAZO : 2.42 K20: .24 MGD :	
NORMAL VALUE 3.52 .44	
	.37 PRIORITY:
***** LITHONAMES (IF VOLCANIC ROCK) *****	
MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE	TYPE & FIELD NAME :
IRVINE-BARAGAR MAGMATIC SERIES :	ROCK NAME BY SIO2 : ANDESITE
MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE IRVINE-BARAGAR MAGMATIC SERIES:  JENSEN MAGMATIC SERIES: THOLEITIC	BARAGAR LITHONAME : V7 MI
JENSEN MAGMATIC SERIES : THOUFILLIC	JENSEN LITHONAME : IRON RICH THOLEIITE

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***** REFERENCE		<b>*</b>											RECO	RD NO.:	31580
AUTHOR: LAPAUSE	YEAR	R : 1987	RE	FERENC	CE : LAPA	USE			EET : UTM EAS				SAMPLE	NO : BEST	DQIF
FROVINCE :	TOWNSHIP	:	1 196					NTS SHE	EET :	LONG	i. :		LA	T. :	
				UTh	1 ZONE :	l	JTM SQ. ID	ENT.:	UTM EAS	Т:		UTM	1 NORTH	:	
GEOL.AGE :	GEOL, PROV.	. :	GEOL.	ENVIF	CONMENT :					RU	ICK TYPE	2	ROC	NAME :	
CONTEXT: DESCRIPTION:	s and but is principle	STRATI	GRAPHY				MAGMA!I	C SERIE	ES: SP	EC. BRAV	IY:				
***** ORIGINAL	OXIDES AND	TRACE EL	EMENTS		H										
5102 : 54.60	CAO :	4.69	MNO	: 0.1	14 5	:		BI:	F	:	PB	1		ZN:	
AL203: 17.50	NA20 :	6.35	LOI	: 4.	70 A	6:		CL:	HG	:	SN	:			
FE203: 6.86	K20	0.18	CU2	<b>.</b>	А	15 :		CD:	LI	:	SR	:			
FEO :	1102 :	0.90	H20.P	1	-	U:		CH :	MU	:	1.1	:			
###### ORIGINAL 912 : 54.60 AL203: 17.50 FE203: 6.86 FE0 : 3.72	P205 : (	0.18	H20. M		E	H I		CU !	NI	•	W				
	* * *	* * * * *	* * *	* * 1	* * * C A	LCU	LATI	ONS	* * * * *	* * * * *	* * *	* *			
***** NORMALIZE	D OXIDES (	PYRIJE RE	MOVED	IF SUL	FUR. IRC	N AS 2	0% FE203	AND BO	% FEO, DRY,	TOTAL=100	)%) ****	**			
SIO2 : 57.74	AL203:	18.5	FE203	1 . 1.4	45 F	EO :	5.22	MGO	: 3.93	CAO :	4.96				
***** UALUES	PATTOS AN	n inneyed	****		45 F 95 F	EO :	5.22	MGO					ASICITY ICATION	INDEX :	11.12
****** OXIDES A-F-M : NA2O-K2O-SIO2 : K2O/NA2O+K2O :	RATIOS AN 39.43 38 10	D INDEXES .11 22.	****		45 F 95 F	EO :	5.22	MGO MNO		ATIO : No :2.1	9 75 SOL 3.18	BA IDIF1	ASICITY ICATION SHIMOTO ARCOTTE	INDEX : INDEX : INDEX : INDEX :	11.12 22.64 26.09 -1.8
****** OXIDES A-F-M : NA2O-K2O-SIO2 : K2O/NA2O+K2O :	RATIOS AN 39.43 38 10 .03	D INDEXES .11 22.	6 **** 46 89		45 F 95 F FEO(TOTA K2	EO : 205 : AL)/MGD 20/NA20	5.22 .19 : 1.66 : .03	MGO MNO	ALKALINITY R ALKALI INDEX FELSIC I MAFIC INDE	ATIO : NA :2.7 NDEX : 50 X :62	9 75 SOL 3.18 .92	BA IDIFI HAS MA	ARCOTTE	INDEX :	-1.8
****** OXIDES A-F-M : NA2D-K2O-SIO2 : K2O/NA2O+K2O :	RATIOS AN 39.43 38 10 .03	D INDEXES .11 22.	6 **** 46 89		45 F 95 F FEO(TOTA K2	EO : 205 : AL)/MGD 20/NA20	5.22 .19 : 1.66 : .03	MGO MNO	ALKALINITY R ALKALI INDEX FELSIC I MAFIC INDE	ATIO : NA :2.7 NDEX : 50 X :62	9 75 SOL 3.18 .92	BA IDIFI HAS MA	ARCOTTE	INDEX :	-1.8
*****	RATIOS AN 39.43 38 10 .03	D INDEXES .11 22.	6 **** 46 89		45 F 95 F FEO(TOTA K2	EO : 205 : AL)/MGD 20/NA20	5.22 .19 : 1.66 : .03	MGO MNO	ALKALINITY R ALKALI INDEX FELSIC I MAFIC INDE	ATIO : NA :2.7 NDEX : 50 X :62	9 75 SOL 3.18 .92	BA IDIFI HAS MA	ARCOTTE	INDEX :	-1.8
****** OXIDES A-F-M : NA2D-K20-SIO2 : <20/NA2O+K2O :	RATIOS AN 39.43 38 10 .03	D INDEXES .11 22.	6 **** 46 89		45 F 95 F FEO(TOTA K2	EO : 205 : AL)/MGD 20/NA20	5.22 .19 : 1.66 : .03	MGO MNO	ALKALINITY R ALKALI INDEX FELSIC I MAFIC INDE	ATIO : NA :2.7 NDEX : 50 X :62	9 75 SOL 3.18 .92	BA IDIFI HAS MA	ARCOTTE	INDEX :	-1.8
****** OXIDES A-F-M : NA2O-K2O-SIO2 : K2O/NA2O+K2O :	RATIOS AN 39.43 38 10 .03	D INDEXES .11 22.	6 **** 46 89		45 F 95 F FEO(TOTA K2	EO : 205 : AL)/MGD 20/NA20	5.22 .19 : 1.66 : .03	MGO MNO	ALKALINITY R ALKALI INDEX FELSIC I MAFIC INDE	ATIO : NA :2.7 NDEX : 50 X :62	9 75 SOL 3.18 .92	BA IDIFI HAS MA	ARCOTTE	INDEX :	-1.8
****** OXIDES A-F-M : NA2O-K2O-SIO2 : K2O/NA2O+K2O :	RATIOS AN 39.43 38 10 .03	D INDEXES .11 22.	6 **** 46 89		45 F 95 F FEO(TOTA K2	EO : 205 : AL)/MGD 20/NA20	5.22 .19 : 1.66 : .03	MGO MNO	ALKALINITY R ALKALI INDEX FELSIC I MAFIC INDE	ATIO : NA :2.7 NDEX : 50 X :62	9 75 SOL 3.18 .92	BA IDIFI HAS MA	ARCOTTE	INDEX :	-1.8
****** OXIDES A-F-M : NA2O-K2O-SIO2 : K2O/NA2O+K2O :	RATIOS AN 39.43 38 10 .03	D INDEXES .11 22.	6 **** 46 89		45 F 95 F FEO(TOTA K2	EO : 205 : AL)/MGD 20/NA20	5.22 .19 : 1.66 : .03	MGO MNO	ALKALINITY R ALKALI INDEX FELSIC I MAFIC INDE	ATIO : NA :2.7 NDEX : 50 X :62	9 75 SOL 3.18 .92	BA IDIFI HAS MA	ARCOTTE	INDEX :	-1.8
	RATIOS AN 39.43 38 10 .03	D INDEXES .11 22.	6 **** 46 89		45 F 95 F FEO(TOTA K2	EO : 205 : AL)/MGD 20/NA20	5.22 .19 : 1.66 : .03	MGO MNO	ALKALINITY R ALKALI INDEX FELSIC I MAFIC INDE	ATIO : NA :2.7 NDEX : 50 X :62	9 75 SOL 3.18 .92	BA IDIFI HAS MA	ARCOTTE	INDEX :	-1.8
****** OXIDES A-F-M NA20-K20-SIO2 : K20/NA20+K20 :  ****** NORMATIVE QUARTZ : CORUNDUM : ORTHOCLASE : 1 ALBITE : 56 ANORTHITE : 19 LEUCITE : KALIOPHILITE:	RATIOS AN. 39.43 38 10 .03  MINERALS .12 .81 .78	- LISTIN ACMITE CA-SILIC NA-MSILI K-MSILIC WOLLASTO DIOPSIDE HYPERSTHOLIVINE	6 *****  46 89  NG ****  CATE: ICATE: DATE: HENE: HENE:	2.92 13.73 1.25	FEO (TOTA K2	EO: 205:  L)/MGO 20/NA20  MAGNETI HEMATIT LLMENITI SPHENE ECVSK RUTILE LUORAP	5.22 .19 : 1.64 : .03	MGO MNO	ALKALINITY RALKALI INDEX FELSIC I MAFIC INDE  HALITE FLUORIT THENARD PYRITE CHROMIT ZIRCON CALCITE *****:T	ATIO : N. :2. NDEX : 50 X :62. E : ITE : E : CTAL*: 7	75 SOL 3.18 .92	BA IDIFI HAS MA	ARCOTTE	INDEX :	-1.8
****** OXIDES A-F-M NA20-K20-SIO2 : K20/NA20+K20 :  ****** NORMATIVE QUARTZ : CORUNDUM : ORTHOCLASE : 1 ALBITE : 56 ANORTHITE : 19 LEUCITE : KALIOPHILITE:	RATIOS AN. 39.43 38 10 .03  MINERALS .12 .81 .78	- LISTIN ACMITE CA-SILIC NA-MSILI K-MSILIC WOLLASTO DIOPSIDE HYPERSTHOLIVINE	6 *****  46 89  NG ****  CATE: ICATE: DATE: HENE: HENE:	2.92 13.73 1.25	FEO (TOTA K2	EO: 205:  L)/MGO 20/NA20  MAGNETI HEMATIT LLMENITI SPHENE ECVSK RUTILE LUORAP	5.22 .19 : 1.64 : .03	MGO MNO	ALKALINITY RALKALI INDEX FELSIC I MAFIC INDE  HALITE FLUORIT THENARD PYRITE CHROMIT ZIRCON CALCITE *****:T	ATIO : N. :2. NDEX : 50 X :62. E : ITE : E : CTAL*: 7	75 SOL 3.18 .92	BA IDIFI HAS MA	ARCOTTE	INDEX :	-1.8
****** OXIDES A-F-M NA20-K20-SIO2 : K20/NA20+K20 :  ****** NORMATIVE QUARTZ : CORUNDUM : ORTHOCLASE : 1 ALBITE : 56 ANORTHITE : 19 LEUCITE : KALIOPHILITE:	RATIOS AN. 39.43 38 10 .03  MINERALS .12 .81 .78	- LISTIN ACMITE CA-SILIC NA-MSILI K-MSILIC WOLLASTO DIOPSIDE HYPERSTHOLIVINE	6 *****  46 89  NG ****  CATE: ICATE: DATE: HENE: HENE:	2.92 13.73 1.25	FEO (TOTA K2	EO: 205:  L)/MGO 20/NA20  MAGNETI HEMATIT LLMENITI SPHENE ECVSK RUTILE LUORAP	5.22 .19 : 1.64 : .03	MGO MNO	ALKALINITY RALKALI INDEX FELSIC I MAFIC INDE  HALITE FLUORIT THENARD PYRITE CHROMIT ZIRCON CALCITE *****:T	ATIO : N. :2. NDEX : 50 X :62. E : ITE : E : CTAL*: 7	75 SOL 3.18 .92	BA IDIFI HAS MA	ARCOTTE	INDEX :	-1.8
****** OXIDES A-F-M NA2O-K2O-SIO2 : K2O/NA2O+K2O :  ****** NORMATIVE QUARTZ : CORUNDUM : ORTHOCLASE : 1 ALBITE : 56 ANORTHIJE : 19 LEUCITE : KALIOPHILITE:	RATIOS AN. 39.43 38 10 .03  MINERALS .12 .81 .78	- LISTIN ACMITE CA-SILIC NA-MSILI K-MSILIC WOLLASTO DIOPSIDE HYPERSTHOLIVINE	6 *****  46 89  NG ****  CATE: ICATE: DATE: HENE: HENE:	2.92 13.73 1.25	FEO (TOTA K2	EO: 205:  L)/MGO 20/NA20  MAGNETI HEMATIT LLMENITI SPHENE ECVSK RUTILE LUORAP	5.22 .19 : 1.64 : .03	MGO MNO	ALKALINITY RALKALI INDEX FELSIC I MAFIC INDE  HALITE FLUORIT THENARD PYRITE CHROMIT ZIRCON CALCITE *****:T	ATIO : N. :2. NDEX : 50 X :62. E : ITE : E : CTAL*: 7	75 SOL 3.18 .92	BA IDIFI HAS MA	ARCOTTE	INDEX :	-1.8
****** OXIDES A-F-M NA2D-K2O-SIO2 : K2D/NA2O+K2O :  ****** NORMATIVE GUARTZ : CORUNDUM : ORTHOCLASE : 1 ALBITE : 54 ANORTHITE : 19 LEUCITE : NEFHELITE : KALIOPHILITE:  ****** NORMATIV OR - AB - AN : GRTZ-ORTH-PLAG :	RATIOS AN. 39.43 38 10 .03  MINERALS .12 .81 .78  E MINERALS 1.4 .7	LISTIN ACMITE CA-SILIG NA-MSILI WOLLASTO DIOPSIDE HYPERSTE OLIVINE RATIO 3.1 25.1 4 98.4	5 ***** 4 4 6 89	2.92 13.73 1.25 INDEXI CRYSTAI	FEO (TOTAL K2	EO: 205:  L)/MGO 20/NA20  MAGNETI HEMATIT LLMENITI SPHENE ECVSK RUTILE LUORAP	5.22 .19 : 1.64 : .03	MGO MNO	ALKALINITY RALKALI INDEX FELSIC I MAFIC INDE  HALITE FLUORIT THENARD PYRITE CHROMIT ZIRCON CALCITE *****:T	ATIO : N. :2. NDEX : 50 X :62. E : ITE : E : CTAL*: 7	75 SOL 3.18 .92	BA IDIFI HAS MA	ARCOTTE	INDEX :	-1.8
****** OXIDES A-F-M NA2D-K2O-SIO2 : K2D/NA2O+K2O :  ****** NORMATIVE GUARTZ : CORUNDUM : ORTHOCLASE : 1 ALBITE : 54 ANORTHITE : 19 LEUCITE : NEPHELITE : KALIOPHILITE:  ****** NORMATIVE GRTZ-ORTH-PLAG :  * RITTMAN VALUES	RATIOS AN. 39.43 38 10 .03  MINERALS .12 .81 .78  E MINERALS 1.4 .7	LISTIN ACMITE CA-SILIC NA-MSILIC WOLLAST DIOPSIDE HYPERST OLIVINE RATIC 3.1 25.1.4 98.6	5 ***** 4 4 6 89  NG ****  CATE: CATE: INITE: HENE: HENE: OS AND 5 C	2.92 13.73 1.25 INDEXI COLOR CRYSTAI	FEO (TOTA K2  FEO (TOTA K2  P  FEO ******  INDEX  LLIZATION	MAGNETI MEMATITI MEMA	5.22 .19 : 1.66 : .03 TE : E : E : : E :: ATITE: : 21.8 : 27.84 : 57.93	MGO MNO 2.1 1.8	ALKALINITY R ALKALI INDEX FELSIC I MAFIC INDE  HALITE FLUORIT THENARD PYRITE CHROMIT ZIRCON CALCITE *****:T  TOTAL % FEL TOTAL % FEL PLAGIOCLASE	ATIO: NA :2. NDEX: 5E X:62.  E: ITE: E: CTAL*: 9' DSPARS GIOCLASE: INDEX	75 SOL 3.18 .92 7.66 : 7.71 5: 6.59	BA IDIFI HAS MA	* WOLLAS * ENSTAT * FERROS * ENSTAT * FERROS * FORSTE * FAYALI	INDEX :	-1.8
****** OXIDES A-F-M NA2O-K2O-SIO2 : K2O/NA2O+K2O :  ****** NORMATIVE QUARTZ : CORUNDUM : ORTHOCLASE : 1 ALBITE : 54 ANORTHITE : 19 LEUCITE : NEPHELITE : KALIOPHILITE:  ****** NORMATIVE QRTZ-ORTH-FLAG :  * RITTMAN VALUES	RATIOS AN. 39.43 38 10 .03  MINERALS .12 .81 .78  E MINERALS 1.4 .7	LISTIN ACMITE CA-SILIC NA-MSILIC WOLLAST DIOPSIDE HYPERST OLIVINE RATIC 3.1 25.1.4 98.6	5 ***** 4 4 6 89  NG ****  CATE: CATE: INITE: HENE: HENE: OS AND 5 C	2.92 13.73 1.25 INDEXI COLOR CRYSTAI	FEO (TOTA K2  FEO (TOTA K2  P  FEO ******  INDEX  LLIZATION	MAGNETI MEMATITI MEMA	5.22 .19 : 1.66 : .03 TE : E : E : : E :: ATITE: : 21.8 : 27.84 : 57.93	MGO MNO 2.1 1.8	ALKALINITY R ALKALI INDEX FELSIC I MAFIC INDE  HALITE FLUORIT THENARD PYRITE CHROMIT ZIRCON CALCITE *****:T  TOTAL % FEL TOTAL % FEL PLAGIOCLASE	ATIO: NA :2. NDEX: 5E X:62.  E: ITE: E: CTAL*: 9' DSPARS GIOCLASE: INDEX	75 SOL 3.18 .92 7.66 : 7.71 5: 6.59	BA IDIFI HAS MA	* WOLLAS * ENSTAT * FERROS * ENSTAT * FERROS * FORSTE * FAYALI	INDEX :	-1.8
****** OXIDES A-F-M NA2D-K2O-SIO2 : K2O/NA2O+K2O :  ****** NORMATIVE QUARTZ : CDRUNDUM : ORTHOCLASE : 1 ALBITE : 56 ANORTHITE : 19 LEUCITE : KALIOPHILITE:  ***** NORMATIV QRTZ-ORTH-PLAG : QRTZ-ORTH-PLAG :	RATIOS AN. 39.43 38 10 .03  MINERALS .12 .81 .78  E MINERALS 1.4 .7	LISTIN ACMITE CA-SILIC NA-MSILIC WOLLAST DIOPSIDE HYPERST OLIVINE RATIC 3.1 25.1.4 98.6	5 ***** 4 4 6 89  NG ****  CATE: CATE: INITE: HENE: HENE: OS AND 5 C	2.92 13.73 1.25 INDEXI COLOR CRYSTAI	FEO (TOTA K2  FEO (TOTA K2  P  FEO ******  INDEX  LLIZATION	MAGNETI MEMATITI MEMA	5.22 .19 : 1.66 : .03 TE : E : E : : E :: ATITE: : 21.8 : 27.84 : 57.93	MGO MNO 2.1 1.8	ALKALINITY R ALKALI INDEX FELSIC I MAFIC INDE  HALITE FLUORIT THENARD PYRITE CHROMIT ZIRCON CALCITE *****:T  TOTAL % FEL TOTAL % FEL PLAGIOCLASE	ATIO: NA :2. NDEX: 5E X:62.  E: ITE: E: CTAL*: 9' DSPARS GIOCLASE: INDEX	75 SOL 3.18 .92 7.66 : 7.71 5: 6.59	BA IDIFI HAS MA	* WOLLAS * ENSTAT * FERROS * ENSTAT * FERROS * FORSTE * FAYALI	TO(DF): IT(DP): IT(DP): II(DP): II(HP): II(HP): TE(OL):	-1.8

parameters and the second seco

THIS SAMPLE NA20 : 6.71 K20: .19 MGO : 3.93 4.03 NORMAL VALUE 3.84 .54

-.18 GAIN OR LOSS 2.86 PRIORITY:

\*\*\*\*\* LITHONAMES (IF VOLCANIC ROCK) \*\*\*\*\* MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE IRVINE-BARAGAR MAGMATIC SERIES :

TYPE & FIELD NAME :

ROCK NAME BY SID2 : ANDESITE

BARAGAR LITHONAME :

JENSEN MAGMATIC SERIES : CALC-ALKALINE

JENSEN LITHONAME : ANDESITE

V9/V7

CLIFNT: LAPAUSE SURFACE DATA FILE: LAPAUSE DISCLAIMER: THE OWNER OF THE PROGRAM IS NOT RESPONSE 08:40:51FM 16 MAY 87

	DISCLAIMER : THE OWNER OF THE PROGRAM IS NOT RES	PONSTBLE FOR ANY PROBLEMS OR ERRORS THAT	MAY ARTSE FROM THE USC OF THESE DATA.
DESCRIPTION :  ***********************************	***** REFERENCE DATA *****		RECORD NO.: 31501
DESCRIPTION :  ***********************************	AUTHOR: LAPAUSE YEAR : 1987 REFERENCE	: LAPAUSE	SAMPLE NO : 210020
DESCRIPTION :  ***********************************	PROVINCE: TOWNSHIP:	NTS SHEET :	LONG. : LAT. :
DESCRIPTION :  ***********************************	MTU	ZONE: UTM SQ.IDENT.: UTM EAST	: UTM NORTH :
DESCRIPTION :  ***********************************	GEOL. AGE: GEOL. PROV. : GEOL. ENVIRE	NMENT :	ROCK TYPE: ROCK NAME:
STIDE STAND, DUTIES AND TRACE_ELEMBITS	CONTEXT: STRATIGRAPHY:	MAGMATIC SERIES : SPE	C. GRAVITY:
STIDE STAND, DITTLES AND TRADEC ELEMATES ******   STIDE   STIDE   STAND   CAD   S. 5.97   MINO   0.22   S.   DI	DESCRIPTION :		
\$102   \$1.70			
######################################	****** DRIGINAL DXIDES AND TRACE ELEMENIS *****	- 4 H	ene. This
######################################	S102 : 51.70 CAU : 5.97 MNU : 0.23	S: BI: 1	: 1'B 1 ZN 1
######################################	AL203: 13.20 NAZU: 1.91 LUI: 5.70	AG: CL: No	: 5N :
######################################	FE203: 15.00 K20 : 0.21 C02 :	AS: LI	: 55 :
######################################	FEO : 1102 : 0.85 H20.P1	AU: UK: MU	; V ;
######################################	MGU : 5.62 P205 : 0.15 H20.MI	BA: CO: NI	: W :
######################################	The state of the s	d part algebra to	
SIO2 : 55.21	*****	**CHCCOLH!!UND\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
SIO2 : 55.21	***** NORMALIZED DYINES (PURITE REMOUED IF SHE	UR. TRON AS 20% FE203 AND 80% FED. DRY. T	OTAL =100%) *****
**************************************	S102 + 55.21 Al 203+ 14.1 FE203+ 3.2	FFO : 11.53 MGO : A	CAO : 6.38
**************************************	NA20 + 2.04 K20 + .22 TI02 + .91	P205 : .16 MNO : .25	
**************************************	NH20 : 2:04	1200 1 110 1110 1 120	
######################################	***** OXIDES RATIOS AND INDEXES ******	A 100 MAN A	
######################################	A-F-M : 9.83 64.07 26.1	EO(TOTAL)/MGD: 2.4 ALKALINITY RA	TIO : NA BASICITY INDEX : 20.92
######################################	NA20-K20-SI02 : 4 0 96	K2D/NA2D: .11 ALKALI INDEX	:9.73 SOLIDIFICATION INDEX : 26.47
######################################	K2D/NA20+K2D : .1	FELSIC IN	DEX: 26.16 HASHIMOTO INDEX: 42.49
######################################		MAFIC INDEX	:71.06 MARCOTTE INDEX :39
###### NORMATIVE MINERALS — LISTING ******  GUARTZ : 12,78 ACMITE : MAGNETITE : 4.64 HALITE : **MOLLASTO(DP): .8  CORNIDUM :			
****** NORMATIVE MINERALS RATIOS AND INDEXES ******  OR - AB - AN : 2.8 36.6 60.7 COLOR INDEX : 39.6 TOTAL % FELDSPARS : 7.22  ORTZ-DRTH-PLAG : 21.3 2.2 76.5 CRYSTALLIZATION INDEX: 29.63 TOTAL % PLA:IOCLASES: 45.9  DIFFERENTIATION INDEX: 18.58 PLAGIOCLASE INDEX : 52  * RITTMAN VALUES *  ******* MOLE NUMBERS ******  S1 : .919 FE+2: .16. NA : .066 P : .002 S : 0 SI : 55.21 CA : 0 AN :  AL : .277 MG : .149 K : .005 MN : .004 H20+: .0001 AL : 12.69 ALK : 3.28  FE:3: .04 CA : .114 TI : .011 CO2 : 0 H20-: .0001 FM : 12.16 K : .06  ******* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ******  THIS SAMPLE NA20 : 2.04 K20: .22 MG0 : 6  NORMAL VALUE	***** NORMATIVE MINERALS LISTING *****		
****** NORMATIVE MINERALS RATIOS AND INDEXES ******  OR - AB - AN : 2.8 36.6 60.7 COLOR INDEX : 39.6 TOTAL % FELDSPARS : 7.22  ORTZ-DRTH-PLAG : 21.3 2.2 76.5 CRYSTALLIZATION INDEX: 29.63 TOTAL % PLA:IOCLASES: 45.9  DIFFERENTIATION INDEX: 18.58 PLAGIOCLASE INDEX : 52  * RITTMAN VALUES *  ******* MOLE NUMBERS ******  S1 : .919 FE+2: .16. NA : .066 P : .002 S : 0 SI : 55.21 CA : 0 AN :  AL : .277 MG : .149 K : .005 MN : .004 H20+: .0001 AL : 12.69 ALK : 3.28  FE:3: .04 CA : .114 TI : .011 CO2 : 0 H20-: .0001 FM : 12.16 K : .06  ******* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ******  THIS SAMPLE NA20 : 2.04 K20: .22 MG0 : 6  NORMAL VALUE	QUARTZ : 12.78 ACMITE :	MAGNETITE : 4.64 HALITE	: # WOLLASTO(DP): .8
****** NORMATIVE MINERALS RATIOS AND INDEXES ******  OR - AB - AN : 2.8 36.6 60.7 COLOR INDEX : 39.6 TOTAL % FELDSPARS : 7.22  ORTZ-DRTH-PLAG : 21.3 2.2 76.5 CRYSTALLIZATION INDEX: 29.63 TOTAL % PLA:IOCLASES: 45.9  DIFFERENTIATION INDEX: 18.58 PLAGIOCLASE INDEX : 52  * RITTMAN VALUES *  ******* MOLE NUMBERS ******  S1 : .919 FE+2: .16. NA : .066 P : .002 S : 0 SI : 55.21 CA : 0 AN :  AL : .277 MG : .149 K : .005 MN : .004 H20+: .0001 AL : 12.69 ALK : 3.28  FE:3: .04 CA : .114 TI : .011 CO2 : 0 H20-: .0001 FM : 12.16 K : .06  ******* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ******  THIS SAMPLE NA20 : 2.04 K20: .22 MG0 : 6  NORMAL VALUE	CORUNDUM : CA-SILICATE:	HEMATITE : FLUORITE	: * ENSTATIT(DP): .36
****** NORMATIVE MINERALS RATIOS AND INDEXES ******  OR - AB - AN : 2.8 36.6 60.7 COLOR INDEX : 39.6 TOTAL % FELDSPARS : 7.22  ORTZ-DRTH-PLAG : 21.3 2.2 76.5 CRYSTALLIZATION INDEX: 39.63 TOTAL % PLANIOCLASES: 45.9  DIFFERENTIATION INDEX: 18.58 PLAGIOCLASE INDEX : 52  * RITTMAN VALUES *  ******* MOLE NUMBERS ******  S1 : 919 FE+2: .16. NA : .066 P : .002 S : 0 SI : 55.21 CA : 0 AN :  AL : .277 MG : .149 K : .005 MN : .004 H20+: .0001 AL : 12.69 ALK : 3.26  FE+3: .04 CA : .114 TI : .011 CO2 : 0 H20-: .0001 FM : 12.16 K : .06  ******* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ******  THIS SAMPLE NA20 : 2.04 K20: .22 MGO : 6  NORMAL VALUE	ORTHOCLASE : 1.32 NA-MSILICATE:	ILMENITE : 1.72 THENARDI	TE : # FERROSIL(DP): .43
****** NORMATIVE MINERALS RATIOS AND INDEXES ******  OR - AB - AN : 2.8 36.6 60.7 COLOR INDEX : 39.6 TOTAL % FELDSPARS : 7.22  ORTZ-DRTH-PLAG : 21.3 2.2 76.5 CRYSTALLIZATION INDEX: 29.63 TOTAL % PLA:IOCLASES: 45.9  DIFFERENTIATION INDEX: 18.58 PLAGIOCLASE INDEX : 52  * RITTMAN VALUES *  ******* MOLE NUMBERS ******  S1 : .919 FE+2: .16. NA : .066 P : .002 S : 0 SI : 55.21 CA : 0 AN :  AL : .277 MG : .149 K : .005 MN : .004 H20+: .0001 AL : 12.69 ALK : 3.28  FE:3: .04 CA : .114 TI : .011 CO2 : 0 H20-: .0001 FM : 12.16 K : .06  ******* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ******  THIS SAMPLE NA20 : 2.04 K20: .22 MG0 : 6  NORMAL VALUE	ALBITE : 17.26 K-MSILICATE :	SPHENE : PYRITE	: * ENSTATIT(HP): 14.57
****** NORMATIVE MINERALS RATIOS AND INDEXES ******  OR - AB - AN : 2.8 36.6 60.7 COLOR INDEX : 39.6 TOTAL % FELDSPARS : 7.22  ORTZ-DRTH-PLAG : 21.3 2.2 76.5 CRYSTALLIZATION INDEX: 29.63 TOTAL % PLA:IOCLASES: 45.9  DIFFERENTIATION INDEX: 18.58 PLAGIOCLASE INDEX : 52  * RITTMAN VALUES *  ******* MOLE NUMBERS ******  S1 : .919 FE+2: .16. NA : .066 P : .002 S : 0 SI : 55.21 CA : 0 AN :  AL : .277 MG : .149 K : .005 MN : .004 H20+: .0001 AL : 12.69 ALK : 3.28  FE:3: .04 CA : .114 TI : .011 CO2 : 0 H20-: .0001 FM : 12.16 K : .06  ******* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ******  THIS SAMPLE NA20 : 2.04 K20: .22 MG0 : 6  NORMAL VALUE	ANORTHITE : 28.64 WOLLASTONITE:	PEROVSKITE : CHROMITE	# FERRUSIL (HP): 17.06
****** NORMATIVE MINERALS RATIOS AND INDEXES ******  OR - AB - AN : 2.8 36.6 60.7 COLOR INDEX : 39.6 TOTAL % FELDSPARS : 7.22  ORTZ-DRTH-PLAG : 21.3 2.2 76.5 CRYSTALLIZATION INDEX: 39.63 TOTAL % PLANIOCLASES: 45.9  DIFFERENTIATION INDEX: 18.58 PLAGIOCLASE INDEX : 52  * RITTMAN VALUES *  ******* MOLE NUMBERS ******  S1 : 919 FE+2: .16. NA : .066 P : .002 S : 0 SI : 55.21 CA : 0 AN :  AL : .277 MG : .149 K : .005 MN : .004 H20+: .0001 AL : 12.69 ALK : 3.26  FE+3: .04 CA : .114 TI : .011 CO2 : 0 H20-: .0001 FM : 12.16 K : .06  ******* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ******  THIS SAMPLE NA20 : 2.04 K20: .22 MGO : 6  NORMAL VALUE	LEUCITE : DIOPSIDE : 1.61	RUTILE : ZIRCON	* FORSTERSTOLD:
****** NORMATIVE MINERALS RATIOS AND INDEXES ******  OR - AB - AN : 2.8 36.6 60.7 COLOR INDEX : 39.6 TOTAL % FELDSPARS : 7.22  ORTZ-DRTH-PLAG : 21.3 2.2 76.5 CRYSTALLIZATION INDEX: 39.63 TOTAL % PLANIOCLASES: 45.9  DIFFERENTIATION INDEX: 18.58 PLAGIOCLASE INDEX : 52  * RITTMAN VALUES *  ******* MOLE NUMBERS ******  S1 : 919 FE+2: .16. NA : .066 P : .002 S : 0 SI : 55.21 CA : 0 AN :  AL : .277 MG : .149 K : .005 MN : .004 H20+: .0001 AL : 12.69 ALK : 3.26  FE+3: .04 CA : .114 TI : .011 CO2 : 0 H20-: .0001 FM : 12.16 K : .06  ******* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ******  THIS SAMPLE NA20 : 2.04 K20: .22 MGO : 6  NORMAL VALUE	NEPHELITE : HYPERSTHENE : 31.63	FLUORAFATITE: .12 CALCITE	: * FAYALITE(UL):
****** NORMATIVE MINERALS RATIOS AND INDEXES ******  OR - AB - AN : 2.8 36.6 60.7 COLOR INDEX : 39.6 TOTAL % FELDSPARS : 7.22  ORTZ-DRTH-PLAG : 21.3 2.2 76.5 CRYSTALLIZATION INDEX: 39.63 TOTAL % PLANIOCLASES: 45.9  DIFFERENTIATION INDEX: 18.58 PLAGIOCLASE INDEX : 52  * RITTMAN VALUES *  ******* MOLE NUMBERS ******  S1 : 919 FE+2: .16. NA : .066 P : .002 S : 0 SI : 55.21 CA : 0 AN :  AL : .277 MG : .149 K : .005 MN : .004 H20+: .0001 AL : 12.69 ALK : 3.26  FE+3: .04 CA : .114 TI : .011 CO2 : 0 H20-: .0001 FM : 12.16 K : .06  ******* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ******  THIS SAMPLE NA20 : 2.04 K20: .22 MGO : 6  NORMAL VALUE	KALIUPHILITE: ULIVINE :	*****:11.	THLF: 77.72
* RITTMAN VALUES *  ****** MOLE NUMBERS ******  SI : 919			
* RITTMAN VALUES *  ****** MOLE NUMBERS ******  SI : 919	OR - AB - AN : 2.8 36.6 60.7 COLOR II	DEX : 39.6 TOTAL % FELD	SPARS : 7.22
* RITTMAN VALUES *  ****** MOLE NUMBERS ******  SI : 919	ORTZ-ORTH-PLAG: 21.3 2.2 76.5 CRYSTALL	IZATION INDEX: 39.63 TOTAL % PLAC	10CLASES: 45.9
* RITTMAN VALUES *  ****** MOLE NUMBERS ******  SI : 919	DIFFERE	TIATION INDEX: 18.58 PLAGICCLASE	INDEX : 62
* RITTMAN VALUES *  ****** MOLE NUMBERS ******  SI : 919			
THIS SAMPLE NA20: 2.04 K20: .22 MGD: 6 NORMAL VALUE 3.48 .43 .4.89 GAIN OR LOSS -1.4521 1.05 PRIORITY:  ****** LITHONAMES (IF VOLCANIC ROCK) ****** MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE IRVINE-BARAGAR MAGMATIC SERIES: "ROCK NAME BY SIO2: ANDESITE BARAGAR LITHONAME: "BARAGAR LITHONAME: UNTO JENSEN LITHONAME: UNTO LITHONAME: UN	* RITTMAN VALUES *		
THIS SAMPLE NA20: 2.04 K20: .22 MGD: 6 NORMAL VALUE 3.48 .43 .4.89 GAIN OR LOSS -1.4521 1.05 PRIORITY:  ****** LITHONAMES (IF VOLCANIC ROCK) ****** MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE IRVINE-BARAGAR MAGMATIC SERIES: "ROCK NAME BY SIO2: ANDESITE BARAGAR LITHONAME: "BARAGAR LITHONAME: UNTO JENSEN LITHONAME: UNTO LITHONAME: UN	***** MOLE NUMBERS *****	<b>光</b> ·黄辛	*** RITMAN VALUES *****
THIS SAMPLE NA20: 2.04 K20: .22 MGD: 6 NORMAL VALUE 3.48 .43 .4.89 GAIN OR LOSS -1.4521 1.05 PRIORITY:  ****** LITHONAMES (IF VOLCANIC ROCK) ****** MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE IRVINE-BARAGAR MAGMATIC SERIES: "ROCK NAME BY SIO2: ANDESITE BARAGAR LITHONAME: "BARAGAR LITHONAME: UNTO JENSEN LITHONAME: UNTO LITHONAME: UN	SI : .919 FE+2: .16 NA : .066	P : .002 S : 0 SI	: 55.21 CA : 0 AN :
THIS SAMPLE NA20: 2.04 K20: .22 MGD: 6 NORMAL VALUE 3.48 .43 .4.89 GAIN OR LOSS -1.4521 1.05 PRIORITY:  ****** LITHONAMES (IF VOLCANIC ROCK) ****** MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE IRVINE-BARAGAR MAGMATIC SERIES: "ROCK NAME BY SIO2: ANDESITE BARAGAR LITHONAME: "BARAGAR LITHONAME: UNTO JENSEN LITHONAME: UNTO LITHONAME: UN	AL : .277 MG : .149 K : .005	MN : .004 H2D+: .0001 AL	: 12.69 ALK : 3.28
THIS SAMPLE NA20: 2.04 K20: .22 MGD: 6 NORMAL VALUE 3.48 .43 .4.89 GAIN OR LOSS -1.4521 1.05 PRIORITY:  ****** LITHONAMES (IF VOLCANIC ROCK) ****** MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE IRVINE-BARAGAR MAGMATIC SERIES: "ROCK NAME BY SIO2: ANDESITE BARAGAR LITHONAME: "BARAGAR LITHONAME: UNTO JENSEN LITHONAME: UNTO LITHONAME: UN	FE:3: .04 CA : .114 TI : .011	CO2: 0 H20-: .0001 FM	: 12.16 K : .06
THIS SAMPLE NA20: 2.04 K20: .22 MGD: 6 NORMAL VALUE 3.48 .43. 4.89 GAIN OR LOSS -1.4521 1.05 PRIORITY:  ****** LITHONAMES (IF VOLCANIC ROCK) ****** MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE IRVINE-BARAGAR MAGMATIC SERIES: "ROCK NAME RY SIO2: ANDESITE BARAGAR LITHONAME:  JENSEN MAGMATIC SERIES : THOLEIITIC JENSEN LITHONAME: IRON RICH THOLEITE	The second secon		
NORMAL VALUE 3.48 .43 .4.89  GAIN OR LOSS -1.4521 1.05 PRIORITY:  ****** LITHONAMES (IF VOLCANIC ROCK) ******  MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE IRVINE-BARAGAR MAGMATIC SERIES: BARAGAR LITHONAME:  JENSEN MAGMATIC SERIES : THOLEITIC JENSEN LITHONAME: IRON RICH THOLCITE	***** GAINS AND LOSSES BY COMPARISON TO THE AVI	RAGES OF THE ABITIBI VOLCANICS (DESCARREA	UX. 1973) *****
****** LITHONAMES (IF VOLCANIC ROCK) ******  MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE IRVINE-BARAGAR MAGMATIC SERIES: ROCK NAME BY SIO2: ANDESITE BARAGAR LITHONAME:  JENSEN MAGMATIC SERIES: THOLEITIC  JENSEN LITHONAME: IRON RICH THOLEITE	THIS SAMPLE NA20 : 2.04 K20: .22 MGO :	6	
****** LITHONAMES (IF VOLCANIC ROCK) ******  MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE IRVINE-BARAGAR MAGMATIC SERIES: ROCK NAME BY SIO2: ANDESITE BARAGAR LITHONAME:  JENSEN MAGMATIC SERIES: THOLEITIC  JENSEN LITHONAME: IRON RICH THOLEITE	NORMAL VALUE 3.48 .43.	4.89	
	GAIN OR LOSS -1.4521	1.05 FRIORITY:	
	THE PARTY OF THE P		
	***** LITHONAMES (IF VOLCANIC ROCK) *****	TWOE . ETELD NAME .	
	MUDUNALD-KAISURA MAGMATIC SERIES: SUBALKALINE	FIRE & FIELD NAME :	
	IKVINE-BARAGAK MAGMATIC SEKIES :	ROCK NAME BY SIOZ : ANDESITE	V7.
	TENDEN MACMATTO CEDIEC . THOUSETTTO	TEMPER LITHURANE - TOOK DICK THOUGHT	γ <sub>1</sub> Ψ
	JENSEN HACHATIL SERIES : IMULEITIL	OFMSCH FILLINGHE : TUNN LYPU HUCCT:	• bu

CLIENT: LAMANCE SURFACE DATA FILE: LAMANCE THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OF ERRORS THAT MAY ARISE FROM THE USE OF THESE DATA. OB: 41:29FM 16 MAY 87

***** REFERENCE UTHOR: LAPAUSE		##	RE	FERENCE	: LAPAIN	SE							REC SAMPLE L UTM NORTI	CORD NO.:	3158
ROVINCE :	TOWNSHIP		116	1.1111111111111111111111111111111111111	• 6,111 110.	JL.	M	TE SUEE	т.		LONG		OFFI IL CE	. 140	-
				LITM 7	ONE .	LITM	CO INC	IS SHEE	LITTLE CA	ver .	COMO.	1	LITTLE NATIONAL	MIL I	
EOL.AGE :	GEOL BROW		GEOL	E'NUTE:ON	MENT .	OID	SE' INE	N 1 . 2	UIN E	151 :	park	TMDE:	HARMA PELDI BR	T T	
CAITENT .	BEUL. PROV	CTDATI	CDADLIV	FHATION	LIETAL 2		ACMATTO	OFFICE		1050	RULE	TTPE	101	IUF. NHPR	2
ESCRIPTION :	Control (Control of Control of Co	SIRHIL	GUME ITT			n	HONHIIL	SERIES		orac.	DKMATIA	:			
***** DRIGINAL.	DX IDES_AND	TRACE EL	EMENTS	_****											
102 : 51.50	CAO :	3.58	MNO :	0.11	S	:	Ð	I:	f			PB		ZN a	
L203: 15.50	NA20 :	1.67	LOI	6.60	AG		C	. :	1	16 :		SN :			
E2D3: 11.00	K20 :	1.07	C02		. AS	:	C	D :	L	.1 :		SR			
EO :	TID2 :	0.92	H20.P	:	AU	:	C	R:	1	10 :		V :			
102 : 51.50 1.203: 15.50 E203: 11.00 E0 : 9.05	P205 :	0.06	H20.M	:	BA	3	C	N :	1	: 11		W	:		
	* * *														
***** NORMALIZE	D_OXIDES_(	PYRITE RE	MOVED	IF SULFU	R. IRON	AS 20%	FE203 A	ND 80%	FEO. DRY.	ATOTA	L=100%)	****	k.		
102 : 55.03	AL203: 1	6.56	FE203	2.35	FE	D : 8.	46	MGO :	9.67	CA	0 : 3	.83			
102 : 55.03 A20 : 1.78	K20 :	1.14	T102	. 98	F20	05: .	06	MNO :	.12						
the state of the s															
***** OXIDES -F-M : A20-K20-SIO2 :_	12.48 4	6.2 41.	32	FE	O (TOTAL	) /MGO :	1.09	AL.	KALINITY	RATIO	: NA		BASICITY	INDEX :	17-
A20-K20-SI02 :		2	95		K20	/NAZD :	.64	AL	KALI IND	X	:39.04	SOLT	DIFICATION	INDEX :	41.
20/NA20+K20 :	. 39				- Italia				FELSIO	INDEX	43.2	6	HASHIMOTO	INDEX .	65
									MAFIC IN	DEX	:52.78		MARCOTT	INDEX :	2.
	The second second			at the second	the contract of										
UARTZ : 12.	. 29	ACMITE	:		MAI	GNETITE	: 3	. 4	HALITE		:		* WOLL	ASTO(DP):	
ORUNDUM 5.	.58	CA-SILIC	AIE :		HEI	MATITE			FLUOR	ITE	I		* ENST	ATIT(DP):	
RTHOCLASE : 6.	.75	NA-MSILI	CATE:		IL	MENITE	: 1.	86	THENA	RDITE	:		* FERR	OSIL (DF):	
LBITE : 1:	5.1	K-MSILIC	ATE :		SPI	HENE	:		PYRITE	Ξ.	:		# ENST	ATIT(HP):	24.
NORTHITE : 18	. 55	WOLLASTO	NITE:	*****	PE	ROVSKITE	:		CHROM:	ITE	:		* FERR	OSIL (HP):	12.
EUCITE :		DIOPSIDE	:		RU.	TILE	:		ZIRCO	4	:		* FORS	TERS(OL):	
EPHELITE :		HYPERSTH	ENE :	36.2B	FL	UDRAFAT I	TE: .	05	CALCI	ΤE	:		* FAYAL	LITE(OL):	
**** NORMATIVE UARTZ : 12 ORUNDUM : 5 RTHOCLASE : 6 LBITE : 1! NORTHITE : 18 EUCITE : EPHELITE : ALIOPHILITE:		OLIVINE		- · · · ·					****	TOTAL	*: 97.8	6			
***** NORMATIVI RABAN. : RTZ-ORTH-PLAC :	E MINERALS	RATIO	S AND	INDEXES	*****										
R - AB - AN :	16.7_3	7.4 45.	9C	OLOR IND	EX	1	41.54	T	DTAL % FI	LDSFA	RS :	40.4			
RTZ-ORTH-PLAG:	23.3 1	2.8 63.9	C	RYSTALLI	ZATION	INDEX:	35.43	T	DTAL % PI	ASIOC	LASES:	3.65			
			D	IFFERENT	IATION	INDEX:	27.43	F	LAGIDOLA	SE IND	EX :	55			
**** MOLE NUMBI	ERS *****					A = 4	-			****	RITMAN	VALUE	5 *****		
I : .916	EE+2:1	18NA		. 057	P :	.001	S	:	0 :	3I :	55.03	EA	: -3	AN :	
L : .325	ME: .	24 K	:	. 024	MN :	.002	H20+	000	1	4L :	14.5	ALK	: 3.81		
***** MOLE NUMBI 1: .916	CA : .0	68 TI	1	.012	CO2 :	0	B20-	: .000	1 :	FM :	19.45	K	: .29		
**** GAINS AND			-	ARCHITECTURE TO THE TOTAL PROPERTY OF THE TO											
HIS SAMPLE N	A20 : 1.78	K20:	1.14	MGO :	9.67										
INDMAL VALUE	1A 5		47		4 05										
AIN OR LOSS	-1.68		.72		4.66	PRIO	RITY:								
***** LITHONAME	S (IF UNI	CANIC ROC	K) ***	***											
.cn.e., La l'Helyphille	MAGMATIC	SERIES: 9	UBALKA	LINE	TYPE	& FIELD	NAME :								
CDONALD-KATSURA	ARMATIC SE	RIFS :			ROCK	NAME BY	8102 :	ANDEST	TE						
CDONALD-KATSURA RVINE-BARAGAR M															
RVINE-BARAGAR M	HOHINTE DE				PARA	GAR I TTH	ONAME .						V7 Mi		
CDUNALD-KATSURA RVINE-BARAGAR M ENSEN MAGMATIC	SERIES	т	HOLETT	TIC	BARA	GAR LITH	ONAME :	MAGNES	HOTS MIT	THOU D	TITE		N7 MI		

CLIENT: LAFAUST SUBFACT DATA FILE: LAFAUSC 08:47:078 N 16 MAY 87

AUTHOR: LAFAUSE	DATA ***** YEAR :	1987 REFE	RENCE : LAPA	AUSE						RECI SAMPLE	DND NO.: 3156 NO: AT.: : C) NAME:
PROVINCE :	TOWNSHIE :	1707			NTS	SHEET :		LONG. :		L	AT. :
	10111101127		UTM ZONE :	UTM	SQ. LDENT.	. 1	UTM EAST :			HERBON MEU	:
SEMI ASE .	BEDL PROU .	GEDL C	NUTECOMENT .					ROCE	CYPE :	ten:	C) NAME :
CONTEXT .	OLDETT HOT.	TRATIGRAPHY .	144 21 (4) (4) (42)	M	GOMATIC SI	SPIES .	Spec.	GRAVITY			
DECEDED TO THE TANK OF THE PERSON OF THE PER		TITHE LIBERT CO.		11	MONINITE SE		or here	CITALI	•		
DESCRIPTION :											
*****ORIGINAL.	DXIDES AND TRA	CE ELEMENTS. *	****								***
SID2 : 71.20	CAO : 1.67	MNO :	0.02 9	3 :	BI :	:	F :		FF:		ZN:
AL203: 16.30	NA20 : 5.40	LOI:	0.60	4G : '	CL :	•	HG:		SN:	:	
FE203: 1.13	K20 : 3.11		· · · · · · · · · · · · · · · · · · ·	: ef	00	:	LI:		SK i	i .	
FEO :	TIO2: 0.19	H20.P:	f	AU:	CR	:	MD:		V :	}	
MGD : 0.46	P205 : 0.04	H20.M:	F	BA:	CU	:	NI:		W :	}	
****** ORIGINAL SID2 : 71.20 AL203: 16.30 FE203: 1.13 FE0 : MGD : 0.46											
	* * * * *	* * * * * * *	**** [ (	A L C II L	ATION	5 * * *	* * * * *	6 3 3 4		×	
***** NORMALIZE	n nythed (pypt	TE REMOVED TE	CHIENE IEC	ON AS 207	EFROR AND	BOY FEE	DEV TOTA	C \$2003 2		×	
5100 + 71 41	AL 2074 14 79	EE207.	27 - 6	EEO .	92 M	en .	44 00	n . 1	48		
NACO . E AT	MC2001 10:07	T102 •	10 6	205 .	04 M	NO .	02	u . ,1.			
SIO2 : 71.61 NA20 : 5.43	K2U : 3.13	1102 1	. 17 F	-200 : .	04 11	140 :	.02				
****** OXIDES A-F-M : NA20-K20-SIO2 : K20/NA20+K20 :	DATTOC AND Th	INCUES ALLES									
***** OXIDED	- KHIIDS HND IN	IDEXED FFREER	EFD / TOT.	01.1 (MMM	0.07	AL 1/A1	THISTEN CATEGO	- 515		FIGGRESS TAY	THINCY . TO 1
A-1M :	85 10.43	4.57	FEUCIUIF	AL)/M60 :	2.23	ALKAL	TMIT RHITE	2 1914	1.00 77	PHOILIII	INDEX : Z.I
NA20-K20-SI02.:	Z4.	87	K	20/NA20 :	.58	ALKAL	I INDEX	: 56.57	tilli, Li	DIFILATION	INDEX : 4.5
K2D/NA20+K20 :	.37					F	ELSIC INDEX	1 83.59		HASHIMOTO	INDEX : 33.
•											INDEX: -1
***** NORMATIVE	E MINERALS L	ISTING *****	į.								
QUARTZ : 3	23.4 ACM	IITE :	1	MAGNETITE	: .32		HALITE	1		* WOLLA	ISTO (DE):
CORUNDUM :	1.11 CA-	SILICATE :		HEMATITE	1		FLUORITE	:		* ENSTA	TIT(Dr):
DRINGE ASE . 18	3.48 NA-	MSTI TCATE:		LIMENTTE	36		THENARDITE	:		* FERRO	SIL (DF):
ALBITE . AS	5 DS V_W	CILICATE .		SPHENE			PVRITE			* ENSTA	TIT(HP): 1.
AND DELLETE - C	3.70	LACTONITE.	ì	DEDOUGHTE			CHROWITE			* FERRO	STI (HE): 1.
HNUNITALE	5. QQ	DOTEC		DUTTIE	• •		ZIBCON	:		* FORST	ERS (DL)
	1710	Walne :	1 1 1 1	KUTILL	*		Z Z 1 1 C C) 1 4				
C.C.C.C.	111/5			ピン しいののへいんかき	TTE. 07		CALCTTE			# FAVAL	TTE (OL 1)
NEPHELITE :	HYF	ERSTHENE: 2	2.18	FLUORAPATI	TE: .03		CALCITE	: *- an en		* FAYAL	ITE (OL):
NEPHELITE : KALIOPHILITE:	HYF	VINE : 2	2.18	FLUORAPATI	TE: .03		CALCITE *****: TOTAL	: *: 99.87		* FAYAL	.ITE(OL):
											ITE(OL):
											.ITE(GL):
											ITE(GL):
											ITE(GL):
****** NORMATIV DR - AB - AN	VE MINERALS 25.5 63.4 24.4 19.3	RATIOS AND IN 11.1 COL 56.3 CRY DIF	NDEXES ***** LOR INDEX /STALLIZATION FERENTIATION								ITE(OL):
****** NORMATI' DR - AB - AN QRTZDRTHPLAG :	VE MINERALS 25.5 63.4 24.4 19.3	RATIOS AND IN 11.1 COL 56.3 CRY DIF	NDEXES ***** LOR INDEX /STALLIZATION FERENTIATION								17E(GL):
****** NORMATI\ DR - AB - AN QRTZ-ORTH-PLAG : * RITTMAN VALUES	VE MINERALS 25.5 63.4 24.4 19.3	RATIOS AND IN 11.1 COL 56.3 CRY DIF	NDEXES ****** LOR INDEX YSTALLIZATION FFERENTIATION	* N INDEX: N INDEX:	2.86 8.87 65.54	TOTA TOTA PLAG	NL % FELDSPA NL % PLAGIOC HOCLASE INC	RS : 2 LASES: 4 EX :	.47 .01 .15		
****** NORMATI\ DR - AB - AN QRTZ-ORTH-PLAG : * RITTMAN VALUES	VE MINERALS 25.5 63.4 24.4 19.3	RATIOS AND IN 11.1 COL 56.3 CRY DIF	NDEXES ****** LOR INDEX YSTALLIZATION FFERENTIATION	* N INDEX: N INDEX:	2.86 8.87 65.54	TOTA TOTA PLAG	NL % FELDSPA NL % PLAGIOC HOCLASE INC	RS : 2 LASES: 4 EX :	.47 .01 .15		
****** NORMATI\ DR - AB - AN QRTZ-ORTH-PLAG : * RITTMAN VALUES	VE MINERALS 25.5 63.4 24.4 19.3	RATIOS AND IN 11.1 COL 56.3 CRY DIF	NDEXES ****** LOR INDEX YSTALLIZATION FFERENTIATION	* N INDEX: N INDEX:	2.86 8.87 65.54	TOTA TOTA PLAG	NL % FELDSPA NL % PLAGIOC HOCLASE INC	RS : 2 LASES: 4 EX :	.47 .01 .15		
****** NORMATI\ DR - AB - AN QRTZ-ORTH-PLAG : * RITTMAN VALUES	VE MINERALS 25.5 63.4 24.4 19.3	RATIOS AND IN 11.1 COL 56.3 CRY DIF	NDEXES ****** LOR INDEX YSTALLIZATION FFERENTIATION	* N INDEX: N INDEX:	2.86 8.87 65.54	TOTA TOTA PLAG	NL % FELDSPA NL % PLAGIOC HOCLASE INC	RS : 2 LASES: 4 EX :	.47 .01 .15		
****** NORMATI\ DR - AB - AN QRTZ-ORTH-PLAG : * RITTMAN VALUES	VE MINERALS 25.5 63.4 24.4 19.3	RATIOS AND IN 11.1 COL 56.3 CRY DIF	NDEXES ****** LOR INDEX YSTALLIZATION FFERENTIATION	* N INDEX: N INDEX:	2.86 8.87 65.54	TOTA TOTA PLAG	NL % FELDSPA NL % PLAGIOC HOCLASE INC	RS : 2 LASES: 4 EX :	.47 .01 .15		
DR - AB - AN  QRTZ-DRTH-PLAG:  * RITTMAN VALUES  ****** MOLE NUM!  SI : 1.192  AL : .321  FE+3: .003	VE MINERALS 25.5 63.4 24.4 19.3  S * BERS ***** FE+2: .011 MG : .011 CA : .03	RATIOS AND IN 11.1 - COL 56.3 - CRY DIF	NDEXES ****** LOR INDEX /STALLIZATION FERENTIATION 175 P 166 MN 1002 CO2	* : .001 : 0 : 0	2.86 8.87 65.54 S : H20+: H20-:	0 .0001	NL % FELDSPA N % PLAGIOC HOCLASE INS ****** SI : AL : FM :	RS : 2 ELASES: 4 EX : RITMAN 71.61 14.75 .93	.47 .01 .15 VALUE: CA ALK K	S ***** : -1 : 11.27 : -27	
****** NORMATION - AB - AN	VE MINERALS 25.5 63.4 24.4 19.3  S *  BERS ***** FE+2: .011 MG : .011 CA : .02  D LOSSES BY COM	RATIOS AND IN 11.1 COL 56.3 CRY DJF  NA : .1 K : .C TI : .C	NDEXES ****** LOR INDEX (STALLIZATION FERENTIATION 175 P 066 MN 002 C02	* : N INDEX: N INDEX: OO1: O : O	2.86 8.87 65.54 S : H20+: H20-:	0 .0001	NL % FELDSPA N % PLAGIOC HOCLASE INS ****** SI : AL : FM :	RS : 2 ELASES: 4 EX : RITMAN 71.61 14.75 .93	.47 .01 .15 VALUE: CA ALK K	S ***** : -1 : 11.27 : -27	
****** NORMATION - AB - AN  QRTZ-ORTH-PLAG:  * RITTMAN VALUES ****** MOLE NUM! SI : 1.192 AL : 321 FE+3: .003  ******* GAINS ANI THIS SAMPLE	VE MINERALS 25.5 63.4 24.4 19.3  E * BERS ***** FE+2: 011 MG : .011 CA : .03  D LOSSES BY CONNAZO : 5.43	RATIOS AND IN	NDEXES ***** LOR INDEX VSTALLIZATION FERENTIATION 175 P 166 MN 1002 CO2 HE AVERAGES ( 160 : .46	* : N INDEX: N INDEX: : .001 : 0 : 0	2.86 8.87 65.54 S : H20+: H20-:	TOTA TOTA PLAG  0 .0001 .0001 ANICS (I	NL % FELDSPA N % PLAGIOC HOCLASE INS ****** SI : AL : FM :	RS : 2 ELASES: 4 EX : RITMAN 71.61 14.75 .93	.47 .01 .15 VALUE: CA ALK K	S ***** : -1 : 11.27 : -27	
****** NORMATION - AB - AN	VE MINERALS 25.5 63.4 24.4 19.3  E * BERS ***** FE+2: 011 MG : .011 CA : .03  D LOSSES BY CONNAZO : 5.43	RATIOS AND IN	NDEXES ***** LOR INDEX VSTALLIZATION FERENTIATION 175 P 166 MN 1002 CO2 HE AVERAGES ( 160 : .46	* : N INDEX: N INDEX: : .001 : 0 : 0	2.86 8.87 65.54 S : H20+: H20-:	TOTA TOTA PLAG  0 .0001 .0001 ANICS (I	NL % FELDSPA N % PLAGIOC HOCLASE INS ****** SI : AL : FM :	RS : 2 ELASES: 4 EX : RITMAN 71.61 14.75 .93	.47 .01 .15 VALUE: CA ALK K	S ***** : -1 : 11.27 : -27	
****** NORMATION - AB - AN	VE MINERALS 25.5 63.4 24.4 19.3  E * BERS ***** FE+2: 011 MG : .011 CA : .03  D LOSSES BY CONNAZO : 5.43	RATIOS AND IN	NDEXES ***** LOR INDEX VSTALLIZATION FERENTIATION 175 P 166 MN 1002 CO2 HE AVERAGES ( 160 : .46	* IN INDEX: N INDEX: .001 .001 .005 THE ABI	2.86 8.87 65.54 S : H20+: H20-:	TOTA TOTA PLAG  0 .0001 .0001 ANICS (I	NL % FELDSPA N % PLAGIOC HOCLASE INS ****** SI : AL : FM :	RS : 2 ELASES: 4 EX : RITMAN 71.61 14.75 .93	.47 .01 .15 VALUE: CA ALK K	S ***** : -1 : 11.27 : -27	
****** NORMATION - AB - AN ORTZ-ORTH-PLAG:  * RITTMAN VALUES ****** MOLE NUM! SI : 1.192 AL : .321 FE+3: .003  ******* GAINS AN THIS SAMPLE NORMAL VALUE GAIN OR LOSS	VE MINERALS : 25.5	RATIOS AND IN 11.1 COL 56.3 CRY DIF	NDEXES ****** LOR INDEX. (STALLIZATION FERENTIATION 175 P 166 MN 1002 C02 HE AVERAGES ( 160 : .46 .8758	* INDEX: N INDEX: N INDEX: OO1 OF THE ABI	2.86 8.87 65.54 5 : H20+: H20-: ITIBI VOLC	TOTA TOTA PLAG  0 .0001 .0001 ANICS (I	NL % FELDSPA NL % PLAGIOC HIOCLASE INS ****** SI : AL : FM : DESCARREAUX,	RS : 2 ELASES: 4 EX : RITMAN 71.61 14.75 .93	.47 .01 .15 VALUE: CA ALK K	S ***** : -1 : 11.27 : -27	
****** NORMATION - AB - AN  ORTZ-ORTH-PLAG:  * RITTMAN VALUES  ******* MOLE NUM! SI : 1.192 AL : .321 FE+3: .003  ******* GAINS AN THIS SAMPLE NORMAL VALUE GAIN OR LOSS	VE MINERALS : 25.5	RATIOS AND IN 11.1 COL 56.3 CRY DIF	NDEXES ****** LOR INDEX. (STALLIZATION FERENTIATION 175 P 166 MN 1002 C02 HE AVERAGES ( 160 : .46 .8758	* INDEX: N INDEX: N INDEX: OO1 OF THE ABI	2.86 8.87 65.54 5 : H20+: H20-: ITIBI VOLC	TOTA TOTA PLAG  0 .0001 .0001 ANICS (I	NL % FELDSPA NL % PLAGIOC HIOCLASE INS ****** SI : AL : FM : DESCARREAUX,	RS : 2 ELASES: 4 EX : RITMAN 71.61 14.75 .93	.47 .01 .15 VALUE: CA ALK K	S ***** : -1 : 11.27 : -27	
****** NORMATION - AB - AN  ORTZ-ORTH-PLAG:  * RITTMAN VALUES  ******* MOLE NUM! SI : 1.192 AL : .321 FE+3: .003  ******* GAINS AN THIS SAMPLE NORMAL VALUE GAIN OR LOSS	VE MINERALS : 25.5	RATIOS AND IN 11.1 COL 56.3 CRY DIF	NDEXES ****** LOR INDEX. (STALLIZATION FERENTIATION 175 P 166 MN 1002 C02 HE AVERAGES ( 160 : .46 .8758	* INDEX: N INDEX: N INDEX: OO1 OF THE ABI	2.86 8.87 65.54 5 : H20+: H20-: ITIBI VOLC	TOTA TOTA PLAG  0 .0001 .0001 ANICS (I	NL % FELDSPA NL % PLAGIOC HIOCLASE INS ****** SI : AL : FM : DESCARREAUX,	RS : 2 ELASES: 4 EX : RITMAN 71.61 14.75 .93	.47 .01 .15 VALUE: CA ALK K	S ***** : -1 : 11.27 : -27	
****** NORMATION - AB - AN  ORTZ-ORTH-PLAG:  * RITTMAN VALUES  ******* MOLE NUM! SI : 1.192 AL : .321 FE+3: .003  ******* GAINS AN THIS SAMPLE NORMAL VALUE GAIN OR LOSS	VE MINERALS 1 25.5 63.4 24.4 19.3  S * BERS ***** FE+2: .011 CA : .03  D LOSSES BY CON NA20 : 5.43 8 4.7 .73	RATIOS AND IN 11.1 COL 56.3 CRY DIF	NDEXES ****** LOR INDEX. (STALLIZATION FERENTIATION 175 P 166 MN 1002 C02 HE AVERAGES ( 160 : .46 .8758	* INDEX: N INDEX: N INDEX: OO1 OF THE ABI	2.86 8.87 65.54 5 : H20+: H20-: ITIBI VOLC	TOTA TOTA PLAG  0 .0001 .0001 ANICS (I	NL % FELDSPA NL % PLAGIOC HIOCLASE INS ****** SI : AL : FM : DESCARREAUX,	RS : 2 ELASES: 4 EX : RITMAN 71.61 14.75 .93	.47 .01 .15 VALUE: CA ALK K	S ***** : -1 : 11.27 : -27	
****** NORMATION - AB - AN  ORTZ-ORTH-PLAG:  * RITTMAN VALUES  ******* MOLE NUM! SI : 1.192 AL : .321 FE+3: .003  ******* GAINS AN THIS SAMPLE NORMAL VALUE GAIN OR LOSS	VE MINERALS 1 25.5 63.4 24.4 19.3  S * BERS ***** FE+2: .011 CA : .03  D LOSSES BY CON NA20 : 5.43 8 4.7 .73	RATIOS AND IN 11.1 COL 56.3 CRY DIF	NDEXES ****** LOR INDEX. (STALLIZATION FERENTIATION 175 P 166 MN 1002 C02 HE AVERAGES ( 160 : .46 .8758	* INDEX: N INDEX: N INDEX: OO1 OF THE ABI	2.86 8.87 65.54 5 : H20+: H20-: ITIBI VOLC	TOTA TOTA PLAG  0 .0001 .0001 ANICS (I	NL % FELDSPA NL % PLAGIOC HIOCLASE INS ****** SI : AL : FM : DESCARREAUX,	RS : 2 ELASES: 4 EX : RITMAN 71.61 14.75 .93	.49 .01 .15 VALUE: CA ALK K	S ****** : -1 : 11.27 : .27	
****** NORMATION - AB - AN	VE MINERALS 1 25.5 63.4 24.4 19.3  S * BERS ***** FE+2: .011 CA : .03  D LOSSES BY CON NA20 : 5.43 8 4.7 .73	RATIOS AND IN 11.1 COL 56.3 CRY DIF	NDEXES ****** LOR INDEX. (STALLIZATION FERENTIATION 175 P 166 MN 1002 C02 HE AVERAGES ( 160 : .46 .8758	* INDEX: N INDEX: N INDEX: OO1 OF THE ABI	2.86 8.87 65.54 5 : H20+: H20-: ITIBI VOLC	TOTA TOTA PLAG  0 .0001 .0001 ANICS (I	NL % FELDSPA NL % PLAGIOC HIOCLASE INS ****** SI : AL : FM : DESCARREAUX,	RS : 2 ELASES: 4 EX : RITMAN 71.61 14.75 .93	.47 .01 .15 VALUE: CA ALK K	S ****** : -1 : 11.27 : .27	

CLIENT: LAPAUSE SURFACE DATA FILE: LAPAUSE OU: 42: 45fM 16 Nov. 87

DISCLAIMED : THE DWNER OF THE PRODRAM IS NOT RESPONSIBLE FOR ANY PROMEENS OR FROMS THAT MAY ARDSE FROM THE USE OF UNISE EATA.

	DANKER OF THE LEADER	191 13 1401 10 0 0003	10176 1307 6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CHA CLASSICAL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FW(3.5/15 FF	TOTAL COL	AL. 711 YERES	4.7.1.1.4.
***** REFERENCE	DATA ****** YEAR : 1987	REFERENCE : L	APAUSE					2	RECORD N	NO.: 31504
	TOWNSHIP			NTS	SHEET :		LONG. :		LAT. :	
		UTM ZONE	: (	TM SQ. IDENT.	: UTM	EAST :		MTU	NORTH:	
SEDL AGE :	GEOL PROV. :	GEOL. ENVIRONMEN	7 :				ROCK 1	TYPE :	FOLICK NA	aMi :
CONTEXT :	STRAT	LGRAPHY :		MAGMATIC SE	RIES :	SPEC. I	GRAVITY :			
DESCRIPTION :	The second secon	LONDON THE LAND		THOMPTIZE GE		0. 46.				
DESCRIPTION :										
		MANAGEMENT AND								
***** ORIGINAL	DXIDES AND TRACE EL	EMENTS. #####								
S102 : 52.40	CAD : 7.77	MND : 0.20	S :	BI:		F :		F 2: :		Z11 :
AL203: 14.50	NA20 : 1.79	LOI : 3.30	AG :	CL:		HG:		SN:		
EE203: 13.80	K20 : 0.24	C02 :	AS :	CO :		L1 :		SR :		
SEO .	T102 . 1 44	H20 P:	ALL .	CB .		MO .		V :		
HDD - 4 (7	DODE - 0 11	UOD M.	PA .	CII ·		NII .		ful ·		
MGU : 4.62	OXIDES AND TRACE EL CAO : 7.77 NA20 : 1.79 K2D : 0.24 TIO2 : 1.44 P205 : 0.11	HZU. NI	DH :	LU :		141 7		w .		
	* * * * * * *	* * * * * * * * *	CALCU	LATION	S * * * * *	N * * *	e w x x,	4 4 3 3		
****** NORMAL TZE	D DXIDES (PYRITE R	EMOVED IF SULFUR.	IRON AS 20	% FE203 AND	BO% FED. D	KY, TOTAL	=100%) H	1. 头头长头		
SI02 - 54 72	AL 203+ 15.14	FF203: 2-88	FF0 : 1	0.38 MG	0 : 4.82	CAL	3 : 8.	1 1		
102 : 54.72	K200: 10:14	T103 . 1 5	5205	11 MM	0 . 7102					
NA2U: 1.8/	AL203: 15.14 K20 : .25	1102: 1.5	F203 :	. II PHY	u : .21					
		en entendant and the same								
***** OXIDES	RATIOS AND INDEXE	2 *****								
A-F-M :	10.5 65.64 23	.86 FED (T	DTAL) /MGO	: 2.69	ALKAL INI	TY RATIO	: NA	BA:	SICITY IND	DX 1 19.70
NA20-K20-ST02 :	3 0	76	K20/NA20	: .13	ALKALI I	NDEX	:11.77	SOLIDIFI	CATION IND	EX: 24.21
K20/NA20+K20 :	17			•	EFLS	TO THIDE'S	+ 20.72	HASI	HIMOTO IND	EX : 33.69
K207 RH201 K20	• 12				MARIC	TNDEY	477 34	MA	POTTE IND	EX: 33.69 EX: .01
					HHE IC	TIVIDE	:/J:J4	1164	TGOTTE THE	LA 1 101
	The same of the sa									
***** NORMATIVE	MINERALS LISTI	NG ****								
QUARTZ : 13	.57 ACMITE	:	MAGNETII	E : 4.17	HAL.	ITE	:	*	WOLLASTOR	DP): 3.05
CORUNDUM :	CA-SILI	CATE :	HEMAT I TE		FLU	DRITE	:	*	ENSTATIT (	DP): 1.37
OPTHOCI ASE . 1	AR NA-MSTI	ICATE.	TI MENITE	2.85	THE	NARDITE		*	FERROSIL (	DF'): 1.66
ONTROCERSE . I	THE NOTE	CATE .	COHENE		DVD	TTE		*	ENGTATIT!	UP) . 10 44
AUBITE : 15	K-MSILI	LAIE :	SPRENE	*	L 11/	116	•		ERSTRIT!	10.04
ANORTHITE: 32	.18 WOLLAST	UNITE:	PEROVSK.	LIE :	LHK	OMITE.	:	*	FERRUSILI	MED: 12.91
LEUCITE :	DIOPSID	E : 6.09	RUTILE	:	ZIR	COM	:	*	FORSTERS (	OL):
NEPHELITE :	HYPERST	HENE : 23.55	FLUDRAFA	ATITE: .09	CAL	CITE	1	*	FAYALITE (	OL.) :
KALIDENILITE:	MINERALS LISTE 57 ACMITE CA-SILE 48 NA-MSILE 581 K-MSILE 18 WGLLAST DIOPSID HYPERST OLIVINE	1.			***	**: TOTAL	*: 99.79			
ARRES MODMATTI	E MINERALS RATI	NS AND INDEXES ***	***							
OD OD - ON	7 70	45 COLOR THREY		36 66	TOTAL Y	EEL DEEA	RS - 9	47		
UK - AB .T. AN		DOWNER THERE	CAON ANDEW	00.00	TOTAL %	PLACING		* T/		
GRTZ-ORTH-PLAG:	21.5 2.3 76.	1 CRYSTALLIZAT	TUN INDEX	42.57	TOTAL A	. FLAGIUL	LASES: /	• 77		
	ZE MINERALS RATI 3 32 21.5 2.3 76.	DIFFERENTIAL	TION INDEX:	17.29	PLAGICO	LASE IND	EX :	47		
* RITTMAN VALUES										
***** MOLE NUME	ERS *****					****	RITMAN	VALUES **	****	
CT . 911	EE+2- 144 N	A · nA P	. 003	2 5 .	Ò	SI:	54.72	CA :	1 4	: 45
01 - 207	MC . 10 IV	A OOF MA	1 . 00:	e pont.	0001	Δ:	13 20	ALE:	3 05	
AL : .277	FIG : .12 K	1 .005	9 : .UO	112071	0001	FM.	0.30	Maria .	0.00	
FE+3: .036	ERS ****** FE+2: .144 N MG : .12 K CA : .145 T	I : .019 CC	32 :	) HXU:	.0001	FM .	9.73	F	.08	
and the second second second second second										
***** GAINS AND	LOSSES BY COMPARI	SON TO THE AVERAGE	S OF THE	ADITIBI VOLCA	NICS (DESC	ARREAUX,	1973) *	**4*		
THIS SAMPLE N	A20 : 1.87 K20:	.25 MGO · 4.8	37							
NORMAL UALUE	7 /11	01 5.0	24							
NOTHINE	3.41 1.55		<b>7</b> 64	STOUTTV -						
GAIN OR LOSS	1.55	16	14 ک	KIURI)Y:						
***** LITHONAME	S (1F VOLCANIC RO	CK) *****								
MCDONAL D-KATSLING	MAGMATIC SERIES.	SUBALKALINE	TYPE & FIL	ELD NAME :						
TOUTHE DADAGAD	ACMATIC CEDICE -	or or pu'l print for the de f files	BUCK NOME	BY SIDS + AN	IDESTIE					
THATHE-DHUHOHK L	INDIRATE SEVIES !		BAGACAD !	ETHONOME .	INCOLIC				V7 6	
	S (IF VOLCANIC RO A MAGMATIC SERIES: MAGMATIC SERIES :		BAKAGAK L	I INUNAME :		1001 67 7			* · · · ·	
JENSEN MAGMATIC	SERIES :	THOLEIITIC	JENSEN LI	THONAME : IF	ON RICH TE	HOLETITE				

CLIENT : LAPAUSE SURFACE DATA FILE : LAPAUSE 08:45:24FM 16 MAY 57 DISCLAIMER: THE OWNER OF THE PROGRAM IS NOT RECONSTRUCTOR ANY PROBLEMS OF LERORS THAT HAS ARISE FROM THE DISC OF THESE DATA. RECORD NO.: 31565 \*\*\*\*\* REFERENCE DATA \*\*\*\*\* SAMPLE NO : #210027 AUTHOR: LAPAUSE YEAR : 1987 REFERENCE : LAPAUSE NTS SHEET: LONG. : PROVINCE : TOWNSHIP : LAT. : DIM SD. IDENT .: UIM CAST : UIM NORTH : UTM ZÖNE : GEOL.AGE: GEOL.FROV.: GEOL. ENVIRONMENT: ROOK TYPE : ROOK NAME : CONTEXT: STRATIGRAPHY: MAGMATIC SERIES : SPEC. GRAVITY : DESCRIPTION : \*\*\*\*\*\* ORIGINAL OXIDES AND TRACE ELEMENTS \*\*\*\*\*\* ZN: \*\*\*\*\*\* NORMALIZED DXIDES (FYRITE REMOVED IF SULFUR, IRDN AS 20% FE203 AND 80% FE0, DRY, TUTAL=100%) \*\*\*\*\*\* SID2: 53.43 AL203: 15.33 FE203: 2.73 FE0: 9.84 MG0: 4.25 CAO: 9.25 NA20: 2.84 K20: .32 TI02: 1.59 P205: .21 MNO: .22 \*\*\*\*\*\* OXIDES -- RATIOS AND INDEXES \*\*\*\*\*\*
A-F-M : 15.82 62.91 21.27 FEO(TOTAL)/MGO : 2.89 ALKALINITY RATIO : NA
NA20-K20-S102 : 5 1 94 K20/NA20 : .11 ALKALI INDEX : 10.13 HASICITY INDEX: 19.33 ALKALI INDEX :10.13 SOLIDIFICATION INDEX : 21.57 FELSIC INDEX: 25.46 HASHIMOTO INDEX: 27.43
MAFIC INDEX: :74.73 MARCOTTE INDEX: -.76 K2D/NA20+K20 : .1 \*\*\*\*\* NORMATIVE MINERALS -- LISTING \*\*\*\*\*\*
QUARTZ : 7.49 ADMITE : \*\*\*\*\*:TOTAL\*: 99.63 KALIOPHILITE: OLIVINE : \*\*\*\*\*\* NORMATIVE MINERALS -- RATIOS AND INDEXES \*\*\*\*\*\* OR - AB - AN : 3.5 44.4 52.1 COLOR INDEX : 37.96 TOTAL % FELDSPARS : 4.02 ORTZ-ORTH-PLAG : 12.2 3.1 84.8 CRYSTALLIZATION INDEX: 39.89 TOTAL % PLAGIOCLASES 2.13 DIFFERENTIATION INDEX: 25.89 PLAGIOCLASE INDEX : 54 \* RITTMAN VALUES \* \*\*\*\*\* RITMAN VALUES \*\*\*\*\* \*\*\*\*\* MOLE NUMBERS \*\*\*\*\* SI : 53.43 CA : 3 AN : AL : .301 MG : .105 K : .007 MN : .003 H2B+: .0001 AL : 13.79 FE+3: .034 CA : .165 TI : .02 CB2 : 0 H2D-: .0001 FM : 8.43 ALK : 4.58 FM : 8.63 K -: .06 \*\*\*\*\* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) \*\*\*\*\*\* THIS SAMPLE NA20 : 2.84 K20: .32 MGO : 4.25 NORMAL VALUE 3.23 .36 5.54 -.04 -1.36 PRIORITY: GAIN OR LOSS -.4

\*\*\*\*\* LITHONAMES (IF YOLCANIC ROCK) \*\*\*\*\*\*
MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE
IRVINE-BARAGAR MAGMATIC SERIES :

. . . . .

The format and the first the second of the s

TYPE & FIELD NAME : ROCK NAME BY SIO2 : BASALT

BARAGAR LITHONAME :

JENSEN LITHONAME : IRON RICH THOLLITE

V70

JENSEN MAGMATIC SERIES : THOLEIITIC

CLIENT: LAPAUSE SURFACE DATA FILE: LAPAUSE 06:4410.9M | 16 MAY 07

DISCLAIMER: THE DWNER OF THE PROBRAM IS NOT RESPONSIBLE FOR ANY PRODUCTS OF ERRORS THAT MAY ARTS. FROM THE USE OF THE CATAL

***** REFERENCE AUTHOR: LAPAUSE		1987 REFE	RENCE : LAPA	AUSE	NTS SHEET C.IDENT.: MATIC SERIES :			SAMPLE	JRD NO.: 3150
PROVINCE :	TOWNSHIP .		arrest That a full of	race.	NTS SHEET		LONG	QF49 11 E.L.	4T.
			ECTM 7Ghd >	HIM G	O THENT	HTM EACT .	Luna.	CERM MIDERAL	,
TOL.AGL:	eroi penu .	GL DL 5	NUT DONNE NE	e Contract	0:1 1120-141 4 4	GIII GROT +	DOCK TV	f-f: + £-30	HE NAME .
ONTEXT :	C. C.	TRATIGRAPHY :		MA/3	MATTE GEDTEC .	cente	GRAUTTY	, , , , , , , , , , , , , , , , , , , ,	
DESCRIPTION :		LINELL ALDIMIN THE		11114	THEFT WALLED O		MICHAELL T		
***** ORIGINAL	DXIDES AND TRA	CE ELEMENTS +	***			_			
102 : 44.80	CAD : 6.98	MNO :	0.18	5 :	BI :	F :		F'B :	7M :
4L203: 6.58	NA20 : 0.17	cor:	6.50	AG :	Cr :	146 :		SN :	
E203: 11.30	K20 : 0.015	C02 :		A5 :	CO :	, LI:		SR :	
EO :	TIO2: 0.36	H20.P:		AU:	CR :	MO:		V :	
##### DRIBINAL 1 5102 : 44.80 AL203: 6.58 FE203: 11.30 FE0 : 21.50	P205 : 0.05	H20.M:		BA:	CU:	NI :		W :	
	* * * * * .	* * * * * * *	*****	ALCULA	T I O N S * *	* * * * * *	* * * * *	* * *	
***** NORMALIZE	D DXIDES (PYRI	TE REMOVED IF	E SULFUR, IRO	ON AS ZOX FE	203 AND 80% FE	EO, DRY, TOTA	L=100%) **	***	
3102 : 49.22	AL203: 7.23	FE203:	2.48	FEO : 8.94	MGO : 2	23.62 CA	0 : 7.67		
6102 : <b>49.</b> 22 NA20 : .19	K20 1 .02	1102 :		7203 : .03	LING \$	• 2			
***** OXIDES	RATIOS AND IN	DEXES *****							
4-F-M :	.6 32.4	67.01	FED (TOT)	AL)/MGO :	.47 ALK	ALINITY RATIO	: 1.03	BASICITY	INDEX: 27.
A20 K20-S102 :	6 0	100	K:	20/NA20 :	.11 ALKA	ALI INDEX	:9.52 9	DLIDIFICATION	INDEX : 67.
(20/NA20+K20 :	. 1								
					MA	AFIC INDEX	:32.59	MARCOTTE	INDEX: 5.
***** NORMATIVE	MINERALS L	ISTING ****	*						
QUARTZ :	ACM	ITE :	1	MAGNETITE	: 3.59	HALITE	:	* WOLLA	STO(DP): 7.
ORUNDUM	CA-	SILICATE :		HEMATITE	1	FLUORITE	:	* ENSTA	TIT(DP): S.
ORTHOCLASE :	.09 NA-	MSILICATE:		ILMENITE	75	THENARDITE	:	* FERRO	SIL (DF): 1.
ALBITE : 1	.58 K-M	SILICATE :		SPHENE	:	PYRITE	:	* ENSTA	TIT(HF): 36.
NORTHITE : 18	.83 WOL	LASTONITE:		PEROVSKITE	:	CHROMITE	:	* FERRO	SIL (HF): B
LEUCITE :	DIO	PSIDE : 1	4.99	RUTILE	:	ZIRCON	:	* FORST	ERS(DL): 11.
NEPHELITE :	HYP	ERSTHENE :	45.6	FLUORAPATITE	: .04	CALCITE	:	* FAYAL	ITE (OL):
***** NORMATIVE ZUARTZ : CORUNDUM : DRTHOCLASE : ALBITE : 1 ANDRTHITE : 18 LEUCITE : NEPHELITE : KALIOPHILITE:	OLI	VINE 1	4.41			****:TOTAL	*: 99.88		
OR - AB - AN :	. 4 7.7	91.9 CO	LOR_ INDEX	: 79	.34 TO	TAL % FELDSPA	RS : 20.	5	
DRTZ-DRTH-PLAG :	0 .4	99.6 CR	YSTALLIZATIO	N INDEX: 68	.39 TO	TAL % PLAGIO	LASES: 0.4	1	
****** NORMATIV OR - AB - AN : ORTZ-ORTH-PLAG :		DII	FFERENTIATIO	N INDEX:	1.67 PL	AGIOCLASE IND	EX :	92	
RITTMAN VALUES	*								
***** MOLE NUMB	ERS *****					*****	RITMAN VA	LUES *****	
31 : -819	FF+2+ .124	NO t	00A P	001	S : 0	SI :	49.22	CA : 3	AN :
L : .147	MG : .58A	K :	0 MN	: .003	H20+: -0001	Al ·	6.5	ALK: _3	
****** MOLE NUMB SI : .819 AL : .142 FE+3: .031	CA : .137	TI :	005 002	: 0	H20-: -0001	FM :	47.36	K : .06	
***** GAINS AND	LOSSES BY COM	PARISON TO T	HE AVERAGES	OF THE ABITI	BI VOLCANICS	(DESCARREAUX,	1973) ***	***	
	A20 : .19 K	20: .02	MGU: 23.62						
THIS SAMPLE N	2.64	23			-				
THIS SAMPLE N		21	16.21	PRIORI	IY :				
THIS SAMPLE N	-2.45								
THIS SAMPLE N NORMAL VALUE BAIN OR LOSS		C ROCK) ****	5.F.						
THIS SAMPLE N NORMAL VALUE GAIN OR LOSS ****** LITHONAME MCDONALD-KATSURA	S (IF VOLCANI	ES: SUBALKAL	INE TY	PE & FIELD N	AME :				
THIS SAMPLE N NORMAL VALUE GAIN OR LOSS ****** LITHONAME MCDONALD-KATSURA	S (IF VOLCANI	ES: SUBALKAL	INE TY	PE & FIELD N CK NAME BY S	AME : 102 : BASALT				
THIS SAMPLE N NORMAL VALUE BAIN OR LOSS	S (IF VOLCANI	ES: SUBALKAL	INE TY	PE & FIELD N CK NAME BY S RAGAR LITHON	AME : 102 : BASALT			V7 alt.	

CLIENT : LAPAUSE SURFACE DATA FILE : LAPAUSE OB: 44: 40FM 16 MAY 87 DISCLAIMER: THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT MAY ARISE FROM THE USE OF THESE DATA. \*\*\*\*\* REFERENCE DATA \*\*\*\*\* RECORD NO.: 31587 AUTHOR: LAPAUSE YEAR : 1987 REFERENCE : LAPAUSE SAMPLE NO : #210029# PROVINCE : TOWNSHIP ... NTS SHEET : LONG. : LAT. : UTM ZONE : UTM SQ. IDENT .: UTM EAST : UTM NORTH : GEOL. AGE : GEOL. PROV. : GEOL. ENVIRONMENT : ROCK TYPE : ROCK NAME : SPEC. GRAVITY : CONTEXT: STRATIGRAPHY: MAGMATIC SERIES : DESCRIPTION : \*\*\*\*\* ORIGINAL DXIDES AND TRACE ELEMENTS \*\*\*\*\* S : F: CAD : 9.09 MNO : 0.18 BI: PB : ZN: SIO2 : 54.00 ALZ03: 14.00 NA20 : 2.89 LOI : 1.10 CL: HG: SN: FE203: 13.00 K20 : 0.39 C02 : AS : SR : CO : LI: TI02: 1.38 H20.P: AU : CR : V : FEO : MO : NI: MGO : 4.23 P205 : 0.10 H20.M: BA: CU: W : \*\*\*\*\*\* NORMALIZED DXIDES (PYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND 80% FE0, DRY, TOTAL=100%) \*\*\*\*\*\* FE203: 2.64 FEO : 9.53 MGO : 4.31 CAO : 9.26 SI02 : 54.98 AL203: 14.25 TI02: 1.41 P205: .1 MND : .18 NA20 : 2.94 K20 : .4 \*\*\*\*\*\* OXIDES -- RATIOS AND INDEXES \*\*\*\*\* : 16.85 61.4 21.75 FEO(TOTAL)/MGO: 2.76 ALKALINITY RATIO : NA BASICITY INDEX : 18.96 ALKALI INDEX :11.98 SOLIDIFICATION INDEX : 22.04 NA20-K20-SI02 : 5 1 94 K20/NA20 : .14 K20/NA20+K2D : .12 FELSIC INDEX : 26.51 HASHIMOTO INDEX : 27.85 MAFIC INDEX :73.85 MARCOTTE INDEX : -.99 \*\*\*\*\* NORMATIVE MINERALS -- LISTING \*\*\*\*\* \* WOLLASTO (DP): 8.65 QUARTZ : 8.78 ACMITE : MAGNETITE : 3.83 HALITE . HEMATITE : CORUNDUM \_\_\_\_\_ CA-SILICATE : \* ENSTATIT(DP): 3.84 FLUORITE 1 ILMENITE : 2.66 \* FERROSIL(DF): 4.78 ORTHOCLASE : 2.34 NA-MSILICATE: THENARDITE : # ENSTATIT(HP): 6.88 : 24.89 K-MSILICATE : SPHENE PYRITE ALBITE : ANORTHITE : 24.51 WOLLASTONITE: PEROVSKITE : CHROMITE : \* FERROSIL (HP): 8.55 DIOPSIDE : 17.28 RUTILE : ZIRCON \* FORSTERS(OL): LEUCITE : : NEPHELITE : HYPERSTHENE : 15.43 FLUORAPATITE: .08 CALCITE : \* FAYALITE(OL): KALIOPHILITE: OLIVINE : \*\*\*\*: TOTAL\*: 99.8 \*\*\*\*\*\* NORMATIVE MINERALS -- RATIOS AND INDEXES \*\*\*\*\*\* OR - AB - AN : 4.5 48.1 47.4 COLOR INDEX : 39.2 ORTZ-ORTH-FLAG : 14.5 3.9 81.6 CRYSTALLIZATION INDEX: 37.61 TOTAL % FELDSPARS : 1.74 TOTAL % PLAGIOCLASES: 49.4 DIFFERENTIATION INDEX: 27.23 PLAGIOCLASE INDEX : 50 \* RITTMAN VALUES \* \*\*\*\*\* RITMAN VALUES \*\*\*\*\* \*\*\*\*\* MOLE NUMBERS \*\*\*\*\* P : .001 S: SI : 54.98 CA : 4 AN : SI : .915 FE+2: .133 NA : .095 AL : 12.82 ALK : 4.81 AL : .28 MG : .107 K : .008 MN : .003 H20+: .0001 FM : 8.75 K : .08 FE+3: .033 CA : .165 TI : .018 C02 : 0 H20-: .0001 \*\*\*\*\*\* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX. 1973) \*\*\*\*\*\*

THIS SAMPLE NA20 : 2.94 K20: .4 MGO : 4.31 NORMAL VALUE 3.45 .42 4.97 GAIN OR LOSS -.52 -.02 -.72 PRIORITY:

\*\*\*\*\* LITHONAMES (IF VOLCANIC ROCK) \*\*\*\*\* MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE IRVINE-BARAGAR MAGMATIC SERIES :

JENSEN MAGMATIC SERIES : THOLEIITIC

and the second s

TYPE & FIELD NAME : ROCK NAME BY SID2 : ANDESITE

BARAGAR LITHONAME :

JENSEN LITHONAME : IRON RICH THOLEIITE

¥7

CLIENT : LAPAUSE SURFACE DATA FILE : LAPAUSE 08:45:18FM 16 MAY 87 DISCLAIMER: THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT MAY ARISE FROM THE USE OF THESE DATA. RECORD NO.: 31588 \*\*\*\*\* REFERENCE DATA \*\*\*\*\* AUTHOR: LAPAUSE YEAR : 1987 REFERENCE : LAPAUSE SAMPLE NO : (#210030) NTS SHEET: LONG. : LAT. : PROVINCE: TOWNSHIP: UTM NORTH : UTM SQ.IDENT.: UTM EAST : UTM ZONE : ROCK TYPE : ROCK NAME : GEOL. PROV. : GEOL. ENVIRONMENT : GEOL. AGE : CONTEXT : MAGMATIC SERIES : SPEC. GRAVITY: STRATIGRAPHY: DESCRIPTION : \*\*\*\*\*\* ORIGINAL OXIDES AND TRACE ELEMENTS \*\*\*\*\* SIG2: 68.30 CAD: 1.46 MND: 0.02 S: BI: F : FB: ZN: AL203: 15.70 NA20: 6.89 LOI : 1.20 AG : CL: HG: SN: FE203: 1.64 K20 : 1.48 C02 ----AS : CO: LI: SR : TIO2: 0.24 H20.P: P205: 0.08 H20.M: V: AU: CR: FEO : MO: CU: NI: W : MGD : 0.79 BA: \*\*\*\*\*\* NORMALIZED OXIDES (PYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND 80% FE0, DRY, TOTAL=100%) \*\*\*\*\*\* AL203: 16.27 FE203: 34 FE0 : 1.22 MGO : .82 CAO : 1.51 K20 : 1.53 TI02 : .25 P205 : .08 MNO : .02 S102: 70.8 NA2D: 7.14 \*\*\*\*\* OXIDES -- RATIOS AND INDEXES \*\*\*\*\* A-F-M : 78.46 14.12 7.42 FEO(TOTAL)/MGO : 1.86 ALKALINITY RATIO : NA BASICITY INDEX : 2.73 ALKALI INDEX : 17.65 SOLIDIFICATION INDEX : 7.44 NA20-K20-SI02: 9 2 89 K20/NA20: .21 FELSIC INDEX : 85.17 HASHIMOTO INDEX : 21.36 K2D/NA20+K2D : .18 MAFIC INDEX :65.55 MARCOTTE INDEX : -2.22 \*\*\*\*\* NORMATIVE MINERALS -- LISTING \*\*\*\*\* QUARTZ : 18.42 ACMITE : \* WOLLASTO (DF): MAGNETITE : .49 HALITE : FLUORITE : \* ENSTATIT(DF): HEMATITE : CORUNDUM : 31 CA-SILICATE: ILMENITE : .47 THENARDITE : \* FERROSIL(DF): DRTHOCLASE : 9.06 NA-MSILICATE: # ENSTATIT(HP): 2.03 K-MSILICATE : SPHENE : PYRITE : ALBITE : 60.43 \* FERROSIL (HP): 1.59 DIOPSIDE : PEROVSKITE : CHROMITE : ANORTHITE : 6.96 WOLLASTONITE: ZIRCON : CALCITE : \* FORSTERS (OL): LEUCITE : RUTILE : \* FAYALITE(OL): FLUORAPATITE: .06 CALCITE NEPHELITE : HYPERSTHENE: 3.63 KALIOPHILITE: OLIVINE : \*\*\*\*:TOTAL\*: 99.83 \*\*\*\*\*\* NORMATIVE MINERALS -- RATIOS AND INDEXES \*\*\*\*\*\* DR - AB - AN : 11.9 79 9.1 COLOR INDEX : 4.59

DRTZ-ORTH-PLAG : 19.4 9.5 71 CRYSTALLIZATION INDEX: 8.38 TOTAL % FELDSPARS : 6.45 TOTAL % PLAGIOCLASES: 7.39 DIFFERENTIATION INDEX: 69.8 PLAGIOCLASE INDEX : 10 \* RITTMAN VALUES \* \*\*\*\*\* RITMAN VALUES \*\*\*\*\* \*\*\*\*\* MOLE NUMBERS \*\*\*\*\* SI : 70.8 CA : 0 AN : AL : 14.64 ALK: 12.24 AL: .319 MG: .02 K: .032 MN : 0 H20+: .0001 K : .12 CD2 : 0 H20-: .0001 FM : 1.65 FE+3: .004 CA : .027 TI : .003 \*\*\*\*\* BAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) \*\*\*\*\*\* THIS SAMPLE NA20 : 7.14 K20: 1.53 MBO : .82 NORMAL VALUE 4.7 1.43 .98 GAIN OR LOSS 2.44 . 1 -.34 PRIORITY: \*\*\*\*\* LITHONAMES (IF VOLCANIC ROCK) \*\*\*\*\*\* TYPE & FIELD NAME : MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE

ROCK NAME BY SIO2 : RHYOLITE

JENSEN LITHONAME : RHYOLITE

Dyke 16

BARAGAR LITHONAME :

IRVINE-BARAGAR MAGMATIC SERIES :

JENSEN MAGMATIC SERIES : CALC-ALKALINE

CLIENT : LAPAUSE SURFACE DATA FILE : LAFAUSE	08:45:56PM 16 MAY 87
	OR ANY PROBLEMS OR ERRORS THAT MAY ARISE FROM THE USE OF THESE DATA.
***** REFERENCE DATA *****	RECORD NO.: 31589
ALTERNATION AND ADDRESS OF THE PARTY AND ADDRE	CAMPIE NO MERCEN
PROVINCE : TOWNSHIP :	NTS SHEET: LONG.: LAT.:  UTM SG.IDENT.: UTM EAST: UTM NORTH:
UTM ZONE :	UTM SQ.IDENT.: UTM EAST: UTM NORTH:
GEOL. AGE: GEOL. PROV.: GEOL. ENVIRONMENT:	RUEN LYTE: RUCK NAME:
CONTEXT: STRATIGRAPHY:	MAGMATIC SERIES : SPEC. GRAVITY :
DESCRIPTION :	
****** ORIGINAL OXIDES AND TRACE FLEMENTS *****	
SID2: 46.50 CAO: 10.00 MNO: 0.16 S:	BI: F: PB: ZN:
AL203: 11.80 NA20: 2.74 LOI: 11.70 AG:	CL: HG: SN:
SI02 : 46.50 CAO : 10.00 MNO : 0.16 S : AL203: 11.80 NA20 : 2.74 L0I : 11.70 AG : FE203: 8.61 K20 : 0.58 C02 : AS : FE0 : T102 : 0.67 H20.P: AU : MGO : 8.58 P205 : 0.07 H20.M: BA :	CO : LI : SR :
FEO : TIO2 : 0.67 H20.P: AU :	CR : MO : V :
FEO : TIO2 : 0.67 H20.P: AU : M60 : 8.58 P205 : 0.07 H20.M: BA :	CU: NI: W:
* * * * * * * * * * * * * * * * CAL	CULATIONS * * * * * * * * * * * * * * * * * * *
****** NORMALIZED OXIDES (PYRITE REMOVED IF SULFUR, IRON A	S 20% FE203 AND 80% FED, DRY, TOTAL=100%) ******
SID2 : 52.24 AL203: 13.26 FE203: 1.93 FED	: 6.96 MGO : 9.64 CAO : 11.23
NA20 : 3.08 K20 : .65 T102 : .75 P205	5 : .08 MNO : .18
****** OXIDES RATIOS AND INDEXES ******	
A-F-M : 16.76 39.94 43.31 FED(TOTAL)/	MGO: .9 ALKALINITY RATIO: NA BASICITY INDEX: 19.33
NA20-K20-SI02: 6 1 93 K20/N	MGO: .9 ALKALINITY RATIO: NA BASICITY INDEX: 19.33 MACO: .21 ALKALI INDEX: 17.43 SOLIDIFICATION INDEX: 43.49
K2D/NA20+K2D : .17	FELSIC INDEX: 24.93 HASHIMOTO INDEX: 41.83
	MAFIC INDEX :47.98 MARCOTTE INDEX :36
AND	
****** NORMATIVE MINERALS LISTING ******	ETITE . 2.0 HALLTE . # WOLLASTO(DP) . 14.52
CORLINDIA + CA-SILTCATE + HEMA	ATTIF : # ENSTATIT (DP): 9.46
ORTHOCLASE: 3.85 NA-MSILICATE: ILME	NITE : 1.42 THENARDITE : * FERROSIL (DF): 4.05
ALBITE : 26.04 K-MSILICATE : SPHE	NE : PYRITE : * ENSTATIT(HP): 5.59
ANORTHITE : 20.42 WOLLASTONITE: PERO	DVSKITE: CHROMITE: * FERROSIL(HP): 2.39
LEUCITE : DIOPSIDE : 28.04 RUTI	LE : ZIRCON : * FORSTERS(OL): 6.25
NEPHELITE : HYPERSTHENE : 7.99 FLUO	DRAPATITE: .06 CALCITE : * FAYALITE(UL): 2.95
KALIUPHILITE: ULIVINE : 9.22	######################################
WARRAN MODERATUR MINERALC DATIOS AND INDEVES ARREST	
OR - AB - AN : 7.7 51.8 40.6 COLOR INDEX ORTZ-ORTH-PLAG: 0 7.7 92.3 CRYSTALLIZATION IN DIFFERENTIATION IN	: 49.47 TOTAL % FELDSPARS : 0.31
ORTZ-ORTH-PLAG: 0 7.7 92.3 CRYSTALLIZATION IN	NDEX: 50.99 TOTAL % PLAGIOCLASES: 6.46
DIFFERENTIATION IN	NDEX: 29.89 PLAGIOCLASE INDEX : 44
* RITTMAN VALUES *	
***** MIN F NIMBERS *****	***** RITMAN VALUES *****
SI : .869 FE+2: .097 NA : .099 P :	.001 S : 0 SI : 52.24 CA : 7 AN :
AL : .26 MG : .239 K : .014 MN :	.003 H20+: .0001 AL : 11.93 ALK : 5.27
SI : 869	o H2D-: .0001 FM : 19.37 K : .12
	THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ******
***** GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF T	
THIS SAMPLE NA20 : 3.08 K20: .65 MGO : 9.64	
THIS SAMPLE NAZO: 3.08 K2O: .65 MGO: 9.64 NORMAL VALUE 3.06 .32 6.01	PRIORITY .
THIS SAMPLE NA20: 3.08 K20: .65 MG0: 9.64 NORMAL VALUE 3.06 .32 6.01 GAIN OR LOSS .01 .33 3.56	
THIS SAMPLE NA20: 3.08 K20: .65 MG0: 9.64 NORMAL VALUE 3.06 .32 6.01 GAIN OR LOSS .01 .33 3.56	
THIS SAMPLE NA20: 3.08 K20: .65 MG0: 9.64 NORMAL VALUE 3.06 .32 6.01 GAIN OR LOSS .01 .33 3.56	
THIS SAMPLE NA20: 3.08 K20: .65 MG0: 9.64 NORMAL VALUE 3.06 .32 6.01 GAIN OR LOSS .01 .33 3.56	
THIS SAMPLE NAZO: 3.08 K2O: .65 MGO: 9.64 NORMAL VALUE 3.06 .32 6.01	

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	DATA *****						RECORD NO.: 3
	YEAR : 1987		: LAPAUSE				SAMPLE NO : 2210
PROVINCE :	.TOWNSHIP:	LITTLE T	ONE . UTM :		ET:		LAT. :
CEDI ACE .	GEOL PROU .	CEOL ENUIDON	ONE : UTM :	BGI- LDENI-I	DILL EMPI :	ROCK IVER	: ROCK NAME :
CUNTEXT >	GEOL.PROV. :	TERAPHY +	MA:	SMATIC SERIE	S: SPEC. (	BRAVITY :	
DESCRIPTION :		A CASE OF THE R P. LEWIS CO., LANSING, MICH.					
***** DRIGINAL (	IXIDES AND TRACE E	LEMENTS *****					
SID2 + 71 20	CAD + 1.20	MND + 0.01	S :	BI:	F:	PB	: ZN :
AL203: 16.50	NA20 : 5.76	LDI : 0.90	AG :	CL:	HG:		
FE203: 1.32	NA20 : 5.76 K20 : 2.98	CO2	.AS:	CO :	LI:		
FEO :	TI02: 0.21 P205: 0.05	H20.P:	AU:	CR :	MC :	V	
MGO : 0.96	P205 : 0.05	H20.M:	BA:	CU:	NI :	W	:
	* * * * * * *	* * * * * * *	* CALCULA	TIONS			* *
***** NORMAL 17F	D OXIDES (PYRITE R	EMOVED IF SULFL	R. IRON AS 20% F	E203 AND BOX	FEO. DRY. TOTAL	_=100%) ****	<del>+ *</del>
SIO2 : 71.14	AL203: 16.49	FE203: .26	FEO : .9	5 MGO	: .96 CAI	: 1.2	
NA2D: 5.76	K20 : 2.98	T102 : .21	P205 : .0	5 MND	: .01		
***** OXIDES	RATIOS AND INDEXE	S *****	ALICEPEER CONTRACTOR				
A-F-M : 1	30.11 11.09	8.8 FE	CO(TOTAL)/MGD :	1.23 A	ALKALINITY RATIO	: NA	BASICITY INDEX : 2
NA20-K20-SID2 :	80.11 11.09 7 4	89	K20/NA20:	.52 A	ALKALI INDEX	:34.1 SOL1	DIFICATION INDEX : B
K20/NA20+K20 :	. 34				FELSIC INDEX	: 87.93	HASHIMOTO INDEX : 3
					MAFIC INDEX	:55.76	MARCOTTE INDEX :
***** NORMATIVE	MINERALS LISTI	NG *****					
QUARTZ : 21	.86 ACMITE .73 CA-SILI	:	MAGNETITE	: .38	HALITE	:	* WOLLASTO(DF):
CORUNDUM : 1	.73 CA-SILI	CATE:	HEMATITE	:	FLUORITE	:	* ENSTATIT(DP):
ORTHOCLASE : 17	.59 NA-MSIL .69 K-MSILI .62 WOLLAST	ICATE:	ILMENITE	: .39	THENARDITE	:	* FERROSIL (DF):
ALBITE : 48	.69 K-MSILI	CATE :	SPHENE	:	PYRITE CHROMITE	:	* ENSIGNATION (NEV.
ANURTHITE : 5	.62 WULLAST	UNITE:	PERUVSKITE			•	* ENSTATIT(DP):  * FERROSIL(DP):  * ENSTATIT(HP):  * FERROSIL(HP):  * FORSTERS(OL):
	DIOCSID	HENE : 3.58	FLUORAPATIT	E: .03	ZIRCON CALCITE	:	* FAYALITE(OL):
NEPHELITE :		TILL . CIDO			****:TOTAL	v. 00 07	
NEPHELITE : KALIOPHILITE:	DLIVINE					X: 77.0/	
ANORTHITE : 5 LEUCITE : NEPHELITE : KALIOPHILITE:						*: 77.6/	
***** NODMATTU	E MINERAL C DATE	OC AND INDEVES	****				
***** NODMATTU	E MINERAL C DATE	OC AND INDEVES	****				
***** NODMATTU	E MINERAL C DATE	OC AND INDEVES	****				5
****** NORMATIV OR - AB - AN	E MINERALS RATI 24.5 67.7 7 23.3 18.8 57.	OC AND INDEVES	****				0
****** NORMATIV OR - AB - AN	E MINERALS RATI 24.5 67.7 7 23.3 18.8 57.	OS AND INDEXES 28 COLOR INI 9 CRYSTALL) DIFFERENT	****** DEX : IZATION INDEX: ITATION INDEX:	<b>4.35</b> 7.29 68.01	TOTAL % FELDSPA TOTAL % FLAGIOC PLAGIOCLASE IND	RS : 71.9 LASES: 4.31 EX : 10	ES *****
****** NORMATIV OR - AB - AN	E MINERALS RATI 24.5 67.7 7 23.3 18.8 57.	OS AND INDEXES 28 COLOR INI 9 CRYSTALL) DIFFERENT	****** DEX : IZATION INDEX: ITATION INDEX:	<b>4.35</b> 7.29 68.01	TOTAL % FELDSPA TOTAL % FLAGIOC PLAGIOCLASE IND	RS : 71.9 LASES: 4.31 EX : 10	ES *****
****** NORMATIV OR - AB - AN	E MINERALS RATI 24.5 67.7 7 23.3 18.8 57.	OS AND INDEXES 28 COLOR INI 9 CRYSTALL) DIFFERENT	****** DEX : IZATION INDEX: ITATION INDEX:	<b>4.35</b> 7.29 68.01	TOTAL % FELDSPA TOTAL % FLAGIOC PLAGIOCLASE IND	RS : 71.9 LASES: 4.31 EX : 10	ES *****
****** NORMATIV OR - AB - AN	E MINERALS RATI 24.5 67.7 7 23.3 18.8 57.	OS AND INDEXES 28 COLOR INI 9 CRYSTALL) DIFFERENT	****** DEX : IZATION INDEX: ITATION INDEX:	<b>4.35</b> 7.29 68.01	TOTAL % FELDSPA TOTAL % FLAGIOC PLAGIOCLASE IND	RS : 71.9 LASES: 4.31 EX : 10	ES *****
****** NORMATIV OR - AB - AN ORTZ-ORTH-PLAG:  * RITTMAN VALUES ****** MOLE NUMB SI : 1.184 AL : .323 FE+3: .003  ******* GAINS AND	E MINERALS RATI 24.5 67.7 7 23.3 18.8 57.  * ERS ***** FF+2: .013 N MG : .024 K CA : .021 T  LOSSES BY COMPARI	OS AND INDEXES  .8 COLOR INI  9 CRYSTALL)  DIFFERENT  IA : .186  : .063  I : .003  SON TO THE AVER	******  IZATION INDEX: FIATION INDEX:  P : .001 MN : 0 C02 : 0  RAGES OF THE ABIT	4.35 7.29 68.01 S: H20+: .00 H20-: .00	TOTAL % FELDSPA TOTAL % FLAGIOC PLAGIOCLASE IND  ******  O SI:  OO1 AL:  OO1 FM:	RS : 71.9 LASES: 4.31 EX : 10 RITMAN VALUI 71.14 CA 14.84 ALI	ES ****** : -1 AN : <: 11.62 : .25
****** NORMATIV OR - AB - AN ORTZ-ORTH-PLAG:  * RITTMAN VALUES ****** MOLE NUMB SI : 1.184 AL : .323 FE+3: .003  ****** BAINS AND THIS SAMPLE N	E MINERALS RATI 24.5 67.7 7 23.3 18.8 57.  * ERS ***** FE+2: .013 N MG : .024 K CA : .021 T  LOSSES BY COMPARI A20 : 5.76 K20:	OS AND INDEXES '.8 COLOR INI 9 CRYSTALL') DIFFERENT  IA : .186 ( : .063 T : .003  SON TO THE AVEF 2.98 MGO :	******  IZATION INDEX: FIATION INDEX:  F : .001  MN : 0  C02 : 0  RAGES OF THE ABIT	4.35 7.29 68.01 S: H20+: .00 H20-: .00	TOTAL % FELDSPA TOTAL % FLAGIOC PLAGIOCLASE IND  ******  O SI:  OO1 AL:  OO1 FM:	RS : 71.9 LASES: 4.31 EX : 10 RITMAN VALUI 71.14 CA 14.84 ALI	ES ****** : -1 AN : <: 11.62 : .25
****** NORMATIVOR - AB - AN : ORTZ-ORTH-PLAG:  * RITTMAN VALUES ****** MOLE NUMB SI : 1:184 AL : .323 FE+3: .003  ****** GAINS AND THIS SAMPLE N NORMAL VALUE	E MINERALS RATI 24.5 67.7 7 23.3 18.8 57.  * ERS *****  FE+2: 013 N MG : .024 K CA : .021 T  LOSSES BY COMPARI A20 : 5.76 K20: 4.7	OS AND INDEXES 'AB COLOR INI 'P CRYSTALL' DIFFERENT  A : .186 : .063 I : .003  SON TO THE AVEF 2.98 MGO : 1.46	******  EX : ZATION INDEX: ITATION INDEX:  P : .001 MN : 0 C02 : 0  RAGES OF THE ABIT .96	4.35 7.29 68.01 S : H20+: .00 H20-: .00	TOTAL % FELDSPA TOTAL % FLAGIOC PLAGIOCLASE IND  ******  O SI:  OO1 AL:  OO1 FM:	RS : 71.9 LASES: 4.31 EX : 10 RITMAN VALUI 71.14 CA 14.84 ALI	ES ****** : -1 AN : <: 11.62 : .25
****** NORMATIV OR - AB - AN . : ORTZ-ORTH-PLAG :  * RITTMAN VALUES ****** MOLE NUMB SI : 1:184 AL : .323 FE+3: .003  ****** BAINS AND THIS SAMPLE N	E MINERALS RATI 24.5 67.7 7 23.3 18.8 57.  * ERS *****  FE+2: 013 N MG : .024 K CA : .021 T  LOSSES BY COMPARI A20 : 5.76 K20: 4.7	OS AND INDEXES 'AB COLOR INI 'P CRYSTALL' DIFFERENT  A : .186 : .063 I : .003  SON TO THE AVEF 2.98 MGO : 1.46	******  IZATION INDEX: FIATION INDEX:  F : .001  MN : 0  C02 : 0  RAGES OF THE ABIT	4.35 7.29 68.01 S : H20+: .00 H20-: .00	TOTAL % FELDSPA TOTAL % FLAGIOC PLAGIOCLASE IND  ******  O SI:  OO1 AL:  OO1 FM:	RS : 71.9 LASES: 4.31 EX : 10 RITMAN VALUI 71.14 CA 14.84 ALI	ES ****** : -1 AN : <: 11.62 : .25
****** NORMATIVOR - AB - AN : ORTZ-ORTH-PLAG:  * RITTMAN VALUES ****** MOLE NUMB SI : 1.184 AL : .323 FE+3: .003  ****** GAINS AND THIS SAMPLE N NORMAL VALUE GAIN OR LOSS	E MINERALS RATI 24.5 67.7 7 23.3 18.8 57.  * ** ******* FE+2: 013 N MG : .024 K CA : .021 T  LOSSES BY COMPARI A20 : 5.76 K20: 4.7 1.06	OS AND INDEXES '.8	******  EX : ZATION INDEX: ITATION INDEX:  P : .001 MN : 0 C02 : 0  RAGES OF THE ABIT .96 .9415 PRIOR	4.35 7.29 68.01 S : H20+: .00 H20-: .00 IBI VOLCANIO	TOTAL % FELDSPA TOTAL % PLAGIOC PLAGIOCLASE IND  ******  O SI: 001 AL: 001 FM: CS (DESCARREAUX,	RS : 71.9 LASES: 4.31 EX : 10 RITMAN VALUI 71.14 CA 14.84 ALI	ES ****** : -1 AN : <: 11.62 : .25
****** NORMATIVOR - AB - AN : ORTZ-ORTH-PLAG:  * RITTMAN VALUES ****** MOLE NUMB SI : 1:184 AL : .323 FE+3: .003  ****** GAINS AND THIS SAMPLE N NORMAL VALUE GAIN OR LOSS	E MINERALS RATI 24.5 67.7 7 23.3 18.8 57.  ** ERS ***** FE+21 .013 N MG : .024 K CA : .021 T  LOSSES BY COMPARI A20 : 5.76 K20: 4.7 1.06	OS AND INDEXES '.8	******  EX : ZATION INDEX: ITATION INDEX:  P : .001 MN : 0 C02 : 0  RAGES OF THE ABIT .96 .9415 PRIOR	4.35 7.29 68.01 S : H20+: .00 H20-: .00 IBI VOLCANIO	TOTAL % FELDSPA TOTAL % PLAGIOC PLAGIOCLASE IND  ******  O SI: 001 AL: 001 FM: CS (DESCARREAUX,	RS : 71.9 LASES: 4.31 EX : 10 RITMAN VALUI 71.14 CA 14.84 ALI	ES ****** : -1 AN : <: 11.62 : .25

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CLIENT : LAPAUSE SURFACE DATA FILE : LAPAUSE

08:47:12FM 16 MAY 87 DISCLAIMER: THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT MAY ARISE FROM THE USE OF THESE DATA. RECORD NO.: 31591 \*\*\*\*\* REFERENCE DATA \*\*\*\*\* SAMPLE NO : 8210033 AUTHOR: LAPAUSE YEAR 1 1987 REFERENCE : LAPAUSE TOWNSHIP : NTS SHEET : LONG, t LAT. : PROVINCE : UTM SQ. IDENT.: UTM EAST : UTM NORTH : UTM ZONE : ROCK TYPE : GEOL, ENVIRONMENT : BOCK NAME : GEOL. AGE : GEOL. PROV. : MAGMATIC SERIES : SPEC. GRAVITY : CONTEXT : ..... SIRATIGRAPHY: DESCRIPTION : \*\*\*\*\* ORIGINAL DXIDES AND TRACE ELEMENTS .\*\*\*\*\* F: PB · 7N + SI02: 47.70 CAO : 8.12 MNO : 0.18 S: BI: CL: HG : SN: AL203: 13.00 NA20: 1.42 LOI : 10.30 AG : AS : 00: LI: SR : FE203: 10.40 K20 : 0.52 \_C02\_\_: FEO : TI02: 0.47 H20.P: AU: CR : MO : V : P205 : 0.07 H2D.M: BA : CU: NI: W : MGO : 9.57 \*\*\*\*\*\* NORMALIZED OXIDES (PYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND 80% FE0, DRY, TOTAL=100%) \*\*\*\*\*\* FEO : 8.26 MGD : 10.56 CAO : 8.96 FE203: 2.29 SI02 : 52.64 AL203: 14.35 NA20: 1.57 K20 : .57 TI02 : .52 P205: .08 MNO : .2 \*\*\*\*\* OXIDES -- RATIOS AND INDEXES \*\*\*\*\* - 98 ALKALINITY RATIO : NA BASICITY INDEX: 20.31 : 9.2 45.38 45.42 FED(TOTAL)/MGO: ALKALI INDEX : 26.64 SOLIDIFICATION INDEX : 45.87 96 \_\_\_\_ K20/NA20 : .36 NA20-K20-SI02 : 3 K2D/NA20+K20 : .27 FELSIC INDEX : 19.28 HASHIMOTO INDEX: 51.39 MAFIC INDEX :49.98 MARCOTTE INDEX: .74 \*\*\*\*\* NORMATIVE MINERALS -- LISTING \*\*\*\*\* MAGNETITE : 3.32 \* WOLLASTO(DP): 5.65 HALITE QUARTZ : 3.7 ACMITE : : # ENSTATIT(DF): .3.56 FLUORITE : CA-BILICATE : HEMATITE CORUNDUM : : THENARDITE : \* FERROSIL(DP): 1.73 ORTHOCLASE : 3.39 NA-MSILICATE: ILMENITE : \* ENSTATIT(HP): 22.73 PYRITE K-MSILICATE : SPHENE . ALBITE 1 13,25 : \* FERROSIL (HP): 11.05 PEROVSKITE : CHROMITE ANORTHITE : 30.41 WOLLASTONITE: 2 : \* FORSTERS(OL): RUTTLE ZIRCON DIOPSIDE : 10.94 LEUCITE : = \* FAYALITE(OL): CALCITE NEPHELITE : HYPERSTHENE: 33.79 FLUORAPATITE: .06 : \*\*\*\*:TOTAL\*: 97.84 KALIOPHILITE: OLIVINE : \*\*\*\*\* NORMATIVE MINERALS -- RATIOS AND INDEXES \*\*\*\*\* : 49.03 TOTAL % FELDSPARS : 7.05 OR - AB - AN : 7.2 28.2 64.6 COLOR INDEX QRTZ-ORTH-PLAG: 7.3 6.7 86 CRYSTALLIZATION INDEX: 54.02 TOTAL % PLAGIOCLASES: 3.66 PLAGIOCLASE INDEX : DIFFERENTIATION INDEX: 16.64 \* RITTMAN VALUES \* \*\*\*\*\* MOLE NUMBERS \*\*\*\*\* \*\*\*\*\* RITMAN VALUES \*\*\*\*\* NA : .051 P : .001 S: 0 SI : 52.64 CA : 2 AN : SI : .876 FE+2: .115 ALK: 2.92 MG : .262 K : .012 MN : .003 H20+: .0001 AL : 12.91 AL: .281 FM : 21.23 K : .19 FE+3: .029 CA : .16 TI: .007 CO2 : O H2D-: .0001 \*\*\*\*\*\* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) \*\*\*\*\*\* THIS SAMPLE NA20 : 1.57 K20: .57 MBO : 10.56 3.12 \_\_\_.33\_\_\_\_\_5.85 NORMAL VALUE GAIN OR LOSS -1.56 . 24 4.65 PRIORITY: \*\*\*\*\* LITHONAMES (IF VOLCANIC ROCK) \*\*\*\*\* MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE TYPE & FIELD NAME : IRVINE-BARAGAR MAGMATIC SERIES : ROCK NAME BY SID2 : BASALT **V7 MI** 

BARAGAR LITHONAME :

A DESCRIPTION OF THE PROPERTY OF THE PROPERTY

JENSEN MAGMATIC SERIES : CALC-ALKALINE

JENSEN LITHONAME : MAGNESIUM RICH THOLEIITE

ISCLAIMER : THE	SURFACE OWNER OF THE PR			BLE FOR ANY	PROBLEMS C	R ERRORS TH	AT MAY AF	RISE FRO		B:47:50FM E USE OF T		
	YEAR : 19	197 REFE	RENCE : LA	PAUSE	NTC 5	NEET .	1.4	DNI/C		SAMPLE	RD NO.:	
ROVINCE :	TOWNSHIP	Address of the Control of the Contro	4 1787 A 4 75 75 107	LITE	NIS S	HEET :	ACT .	JNG. I		LTM NODTH		
			UTM ZUNE	: Uin	SULIDENT:	UIM E	A51 :	DOOK T	mm .	JIM NUKTH	T NOME .	
	GEOL.PROV. :	GEUL. E	NOTHUMBENT	:				MULK II	IFE. S	ROC	as memme :	
	STR	ATIGRAPHY :		M	AGMATIC SEF	RIES:	SPEC. GR	1 YTIVE				
ESCRIPTION :	1300											
	5.55											
	DXIDES AND TRACE											
3102 : 71.70	CAO : 1.60	MNO :	0.02	S:	BI :		F :		PB:		ZN :	
AL203: 16.50	NA2D : 6.64 K2D : 1.50	roi :	1.40	AG :					SN:			
E203: 1.09	K20 : 1.50	CO2 :		AS .:			LI:		SR :			
EO :	T102 : 0.15	H20.P:		AU:	CR :		MO :		V :			
160 : 0.47	T102 : 0.15 P205 : 0.11	H20.M:		BA :	CU:		NI :		W :			
ARRES MODMAL 170	* * * * * *	* * * * * *	* * * * * C	ALCUL	FEORT AND F	ROY FED DRY	TOTAL =	100%) #4	****			
102 : 71.92 1A20 : 6.66	AL203: 16.55 K20 1 1.5	T102 :	. 15	P205: .	11 MNC	: .02	CHU	: 1.6	ь			
WARRE UALDES	RATIOS AND INDE	XES *****										
1-F-M	84.65 10.48	4.88	FED (TO	TAL ) /MGD :	2.1	ALKALINITY	RATIO:	NA		BASICITY	INDEX :	2.05
1020-K20-8102 ·	84.65 10.48 B 2	90	, 20110	K20/NA20 +	. 23	ALKALI IND	FX :	18.38 9	SOLIDI	IFICATION	INDEX :	4.89
20 / NA20+ 420	10 2 2023 - 100	19		KZU/MAZU .		FELSIC	INDEX +	83.61	٠ -			
20/NA20+K20 :	4.40	15				MAFIC IN	DEX :	68.74		MARCOTTE	INDEX :	-2.
	一、一、一、一、一、	A				1111 20 214	2000					
NAMES NODMOTTUE	MINERALS LIS	STING SARAS										
				MAGNETITE	* 71	HALIT	F .			* WOLLAS	STO (DP) :	
CA 1 ALTHUR.	.11 ACMIT	IL ICATE .		HEMATITE	31	ELIND	TTE .			# FNSTAT	FIT(DP) -	
DAUNDUR 1 1	LH-51	OT TOOTE		TI MENTYE	. 20	FLUOR THENA PYRIT	DDITE -			* FEBBUG	STI (DP)	
KINUCLASE : 8	NA-ME	MILIUHIE!		TELENTIE	28	INENH	E I			# ENGTA	TT (HP)	1 1
FRITE : 36	. 35 K-MS)	ILICATE I		DEDOUGHT	- :	CHECK L	E I			# EEDDOO	STL (HP) -	1.0
NURTHIJE : 7	×24 WOLLP	45 IUNI TE1		PERUVSKITE	1	THENA PYRIT CHROM ZIRCO CALCI	AIC. S			# FERRUS	DE (UL)	1.0
EUCITE :	DIOPS	SIDE :		RUTILE	:	ZIRCU	N :			* FURSIE	EKS (OL):	
WEPHELITE :	HYPER	RSTHENE: 2	2.22	FLUORAPATI	TE: .08	CALCI	IE :	70		* FAYAL	LIE (UL):	
KALIOPHILITE:	.11 ACMIT .31 CA-SI .89 NA-MS .35 K-MSI .24 WOLLA DIOPS HYPER OLIVI	INE :				****	:TOTAL*:	99.79				
***** NORMATIV	E MINERALS RA	ATIOS AND IN	DEXES ***	**		TOTAL	E BOSASS		40			
JR - AB - AN:	12.3 77.7	10	UR INDEX		2.81	TUTAL % F	ELUSPARS	: Z.	48			
RTZ-ORTH-PLAG:	12.3 77.7 24.2 9.3 6	56.5 CRY	/STALLIZATI	ON INDEX:	8.06	TOTAL % F	LAGIOCLA	SES: 3.	24			
		DIF	FERENTIATI	ON INDEX:	66.55	PLAGIOCLA	SE INDEX	:	11			
	, # · · · · · · · · · · · · · · · · · ·						5	*******	AL LIEC			
RITTMAN VALUES							***** R	TIMAN V	HLUES	*****	011	
RITTMAN VALUES			215 P	: .002	s :	0	SI : 71	. 92	CA	21	AN :	
RITTMAN VALUES		NA L				0001	Al : 14	. B9	ALK .	: 11.49		
RITTMAN VALUES		K : .C	032 MN	: 0	H20+:	.0001	.,					
RITTMAN VALUES		K : .0	032 MN 002 C02	: 0	H2O+:	.0001	FM :	. 95	K	: .13		
RITTMAN VALUES ***** MOLE NUMB 51 : 1.197 NL : .325 E+3: .003	FERS ****** FE+2: .011 MG : .012 CA : .029									: .13		
* RITTMAN VALUES ****** MOLE NUMB GI : 1.197 AL : .325 E+3: .003 ******* GAINS AND	FERS ****** FE+2: .011 MG : .012 CA : .029	ARISON TO TH	HE AVERAGES	OF THE AB						: .13		
RITTMAN VALUES ****** MOLE NUMB SI : 1.197 AL : .325 E+3: .003 ****** GAINS AND THIS SAMPLE N	FERS ****** FE+2: .011 MG : .012 CA : .029 LOSSES BY COMPA	ARISON TO TH	HE AVERAGES	OF THE AB						: .13		
RITTMAN VALUES  ***** MOLE NUMB  I : 1.197  AL : .325  E+3: .003  ***** GAINS AND  HIS SAMPLE N	FERS ****** FE+2: .011 MG : .012 CA : .029	ARISON TO TH	HE AVERAGES	OF THE AB						: .13		
RITTMAN VALUES  ***** MOLE NUMB  I : 1.197  L : .325  E+3: .003  ***** GAINS AND  HIS SAMPLE N  RORMAL VALUE	FERS ****** FE+2: .011 MG : .012 CA : .029 LOSSES BY COMPA	ARISON TO TH	HE AVERAGES	OF THE AB	ITIBI VOLCA					: .13		
RITTMAN VALUES  ***** MOLE NUMB  I : 1.197  L : .325  E+3: .003  ****** GAINS AND  HIS SAMPLE N  HORMAL VALUE  GAIN OR LOSS	ERS ***** FE+2: .011 MG : .012 CA : .029 LOSSES BY COMPA IA20 : 6.66 K20 4.7	ARISON TO THO: 1.55 h	HE AVERAGES 1GO: .47 .83	OF THE AB	ITIBI VOLCA	NICS (DESCAR				: .13		
RITTMAN VALUES ****** MOLE NUMB SI : 1.197 AL : .325 E+3: .003 ****** GAINS AND THIS SAMPLE N HORMAL VALUE GAIN OR LOSS	ERS ***** FE+2: .011 MG : .012 CA : .029 LOSSES BY COMPA IA20 : 6.66 K20 4.7	ARISON TO THO: 1.55 h	HE AVERAGES 1GO: .47 .83	OF THE AB	ITIBI VOLCA	NICS (DESCAR				: .13		
* RITTMAN VALUES  ****** MOLE NUMB  GI : 1.197  AL : .325  E+3: .003  ******* GAINS AND  THIS SAMPLE N  NORMAL VALUE  GAIN OR LOSS	ERS ***** FE+2: .011 MG : .012 CA : .029 LOSSES BY COMPA IA20 : 6.66 K20 4.7	ARISON TO THO: 1.55 h	HE AVERAGES 1GO: .47 .83	OF THE AB	ITIBI VOLCA	NICS (DESCAR				: .13		
RITTMAN VALUES ****** MOLE NUMB SI : 1.197 AL : .325 E+3: .003 ****** GAINS AND THIS SAMPLE N HORMAL VALUE GAIN OR LOSS	ERS ***** FE+2: .011 MG : .012 CA : .029 LOSSES BY COMPA IA20 : 6.66 K20 4.7	ARISON TO THO: 1.55 h	HE AVERAGES 1GO: .47 .83	OF THE AB	ITIBI VOLCA	NICS (DESCAR						
RITTMAN VALUES ****** MOLE NUMB SI : 1.197 AL : .325 E+3: .003 ****** GAINS AND THIS SAMPLE N HORMAL VALUE GAIN OR LOSS	ERS ***** FE+2: .011 MG : .012 CA : .029 LOSSES BY COMPA IA20 : 6.66 K20 4.7 1.96	ARISON TO THO: 1.55 h	HE AVERAGES 1GO: .47 .83	OF THE AB	ITIBI VOLCA	NICS (DESCAR				12		

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CLIENT: LAPAUSE SURFACE DATA FILE: LAPAUSE DISCLAIMER: THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT MAY ARISE FROM	08:48:28PM 16 MAY 87 THE USE OF THESE DATA.
***** REFERENCE DATA *****  AUTHOR: LAPAUSE YEAR : 1987 REFERENCE : LAPAUSE  PROVINCE : TOWNSHIP : LONG :  UTM ZONE : UTM SQ.IDENT : UTM EAST :	RECORD NO.: 31593 SAMPLE NO : 10055 LAT. :
GEOL.AGE: GEOL.PROV.: GEOL. ENVIRONMENT: ROCK TYPE	: ROCK NAME :
CONTEXT: STRATIGRAPHY: MAGMATIC SERIES: SPEC. GRAVITY: DESCRIPTION:	
****** ORIGINAL OXIDES AND TRACE ELEMENTS *****	
SID2: 51.50 CAD: 8.34 MND: 0.21 S: BI: F: PB	ZN:
AL203: 15.30 NA20: 2.49 LOI: 3.70 AG: CL: HG: SN	
AL203: 15.30 NA20 : 2.49 LOI : 3.70 AG : CL : HG : SN FE203: 12.10 K20 : 0.015 CO2 : AS : CO : LI : SR	
FEO : TIO2: 0.69 (H20.Pt AU: CR: MO: V	
***************************  SID2: 51.50	•
* * * * * * * * * * * * * * * * C A L C U L A T I O N S * * * * * * * * * * * * * * * * * *	* *
****** NORMALIZED OXIDES (PYRITE REMOVED IF SULFUR, IRON AS 20% FE2D3 AND 80% FED, DRY, TOTAL=100%) ****	**
SI02 : 53.48 AL203: 15.89 FE203: 2.51 FED : 9.05 MGD : 6.72 CAO : 8.66	
SI02 : 53.48 AL203: 15.89 FE203: 2.51 FED : 9.05 MGD : 6.72 CAO : 8.66 NA2O : 2.59 K2O : .02 TI02 : 7.72 P205 : .17 MNO : .22	
****** OYIDES RATIOS AND INDEXES ******	
****** DXIDES RATIOS AND INDEXES ****** A-F-M : 12.49 55.34 32.17 FEO(TOTAL)/MGO : 1.68 ALKALINITY RATIO : NA NA20-K20-SIO2 : 5 0 95 K20/NA20 : .01 ALKALI INDEX : .77 SOL	BASICITY INDEX: 19.25
NA20-S102 + 5 0 95 K20/NA20 + 01 ALKALI INDEX + 77 SD	IDIFICATION INDEX : 32.56
K2D/MA20+K2D : .01 FELSIC INDEX : 23.16	HASHIMOTO INDEX : 37.47
	MARCOTTE INDEX :8
MAFIC INDEX :63.24	THROUTTE TRUES TO
***** NORMATIVE MINERALS LISTING *****	
QUARTZ : 6.2 ACMITE : MAGNETITE : 3.63 HALITE :	* WOLLASTO(DP): 4.25
CORUNDUM : CA-SILICATE : HEMATITE : FLUORITE :	* ENSTATIT (DP):2.25
ORTHOCLASE: .09 NA-MSILICATE: ILMENITE: 1.36 THENARDITE:	* FERROSIL(DP): 1.85
ALBITE : 21.87 K-MSILICATE : SPHENE : PYRITE :	* ENSTATIT(HP): 14.47
ANDRTHITE : 31.69 WOLLASTONITE: PEROVSKITE : CHROMITE :	* FERROSIL(HP): 11.9
LEUCITE : DIOPSIDE : 8.36 RUTILE : ZIRCON :	* FORSTERS(OL):
NEPHELITE : HYPERSTHENE : 26.37 FLUORAPATITE: .13 CALCITE :	* FAYALITE(OL):
***** NORMATIVE MINERALS LISTING ******  QUARTZ : 6.2 ACMITE : MAGNETITE : 3.63 HALITE : CORUNDUM : CA-SILICATE : HEMATITE : FLUORITE : ORTHOCLASE : .09 NA-MSILICATE : ILMENITE : 1.36 THENARDITE : ALBITE : 21.87 K-MSILICATE : SPHENE : PYRITE : ANORTHITE : 31.69 WOLLASTONITE : PEROVSKITE : CHROMITE : LEUCITE : DIOPSIDE : 8.36 RUILE : ZIRCON : NEPHELITE : HYPERSTHENE : 26.37 FLUORAPATITE: .13 CALCITE : KALIOPHILITE: OLIVINE : ******:TOTAL*: 99.7	
***** NORMATIVE MINERALS RATIOS AND INDEXES ******	
QRTZ-ORTH-PLAP: 10.4 .2 89.5 CRYSTALLIZATION INDEX: 46.68 TOTAL % PLAGIOCLASES: 3.56 DIFFERENTIATION INDEX: 21.96 PLAGIOCLASE INDEX: 5	59
	,
* RITTMAN VALUES *  ***** MOLE NUMBERS ***** RITMAN VALUES	ICO ARARA
****** TULL NUMBERS *****	4 : 2 AN :
SI : .89 FE+2: .126 NA : .084 P : .002 S : 0 SI : 53.48 CA AL : .312 MG : .167 K : 0 MN : .003 H20+: .0001 AL : 14.3 AL	1
AL : .312 MG : .167 K : 0 MN : .003 H20+: .0001 AL : 14.3 AL	.K : 3.9
FE+3: .031 CA: .154 TI: .009 C02: 0 H20-: .0001 FM: 13.56 K	: 0
****** GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ***** THIS SAMPLE NA20: 2.59 K20: .02 MGO: 6.72	E·传
NORMAL VALUE 3.24 .36 5.53 GAIN OR LOSS6635 1.13 PRIORITY:	
GAIN OR LOSS6635 1.13 PRIORITY:	
***** LITHONAMES (IF VOLCANIC ROCK) ******	Section Company
MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE . TYPE & FIELD NAME :	
IRVINE-BARAGAR MAGMATIC SERIES : ROCK NAME BY SIO2 : BASALT	_
BARAGAR LITHONAME :	. V7 e
JENSEN MAGMATIC SERIES : THOLEIITIC JENSEN LITHONAME : THOLEIITIC BASALT	

AUTHOR: LAPAUSE PROVINCE: TOWNSHIP: YEAR: 1987 REFERENCE: LAPAUSE PROVINCE: TOWNSHIP: UTM ZONE: UTM SO.IDENT.: UTM EAST GEOL.AGE: GEOL.FROV: GEOL. ENVIRONMENT: UTM SO.IDENT.: UTM EAST GEOL.AGE: GEOL.FROV: STRATIGRAPHY: MAGMATIC SERIEG: SPECURITION:  ***********************************	
###### ORIGINAL OXIDES AND TRACE FLEMENTS ######  ###### ORIGINAL OXIDES AND TRACE FLEMENTS ######  ###### ORIGINAL OXIDES AND TRACE FLEMENTS ######  #############################	
###### ORIGINAL DXIDES AND TRACE FLEMENTS #######  ############################	
###### ORIGINAL DXIDES AND TRACE FLEMENTS ####################################	
###### ORIGINAL DXIDES AND TRACE FLEMENTS ####################################	
###### ORIGINAL DXIDES AND TRACE FLEMENTS ####################################	
****** NORMALIZED DXIDES (FYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND 80% FED, DRY, TO 5102: 52.74	: PB: ZN: : SN: : SR: ! V:
***** NORMALIZED DXIDES (PYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND 80% FED, DRY, TO 102 : 52.74	: FB : ZN : : SN : : SR : ! V : ! W :
***** NORMALIZED DXIDES (PYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND 80% FED, DRY, TO 102: 52.74	: SN : : : SR : : : : : : : : : : : : : : :
***** NORMALIZED DXIDES (PYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND 80% FED, DRY, TO 102: 52.74	SR: V: W:
***** NORMALIZED DXIDES (PYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND 80% FED, DRY, TO 102 : 52.74	) : V : W :
****** NORMALIZED DXIDES (FYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND 80% FED, DRY, TO SID2: 52.74	W :
****** NORMALIZED DXIDES (FYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND 80% FED, DRY, TO 5102: 52.74	
***** OXIDES RATIOS AND INDEXES ******  -F-M : 12.66 55.19 32.15 FEO(TOTAL)/MGO : 1.68 ALKALINITY RATA A20-K20-SI02 : 4 0 95 K20/NA20 : .08 ALKALI INDEX FELSIC INDEX FELSIC INDEX  ***** NORMATIVE MINERALS LISTING ******  UARTZ : 4.56 ACMITE : MAGNETITE : 3.66 HALITE DRUNDUM : CA-SILICATE : HEMATITE : FLUORITE FLUORITE ILMENITE : 1.37 THENARDITE LBITE : 20.88 K-MSILICATE: ILMENITE : 1.37 THENARDITE LBITE : 20.88 K-MSILICATE : SPHENE : PYRITE NORTHITE : 31.18 MOLLASTONITE: PEROVSKITE : CHROMITE LUCITE : DIOPSIDE : 11.98 RUTILE : ZIRCON EUCLTE : DIOPSIDE : 11.98 RUTILE : ZIRCON CALCITE ALIOPHILITE: DLIVINE : X****:TOTALITE: DLIVINE : X****:TOTALITE: DLIVINE : X****:TOTALITE: DLIVINE : X*****  ***** NORMATIVE MINERALS RATIOS AND INDEXES ******  RR - AB - AN : 2.3 39.2 58.5 COLOR INDEX : 41.86 TOTAL % FELDS DIFFERENTIATION INDEX: 22.08 PLAGIOCLASE I	TOTAL=100%) *****
****** OXIDES RATIOS AND INDEXES ******  A-F-M : 12.66 55.19 32.15 FED(TOTAL)/MGO : 1.68 ALKALINITY RAT  MA20-K20-S102 : 4 0 95 K20/NA20 : .08 ALKALI INDEX  (20/NA20+K20 : .07 FELSIC INDEX  ****** NORMATIVE MINERALS LISTING ******  DUARTZ : 4.56 ACMITE : MAGNETITE : 3.66 HALITE  CDRUNDUM : CA-SILICATE : HEMATITE : FLUORITE  NRTHOCLASE : 1.2 NA-MSILICATE : ILMENITE : 1.37 THENARDIT  NLBITE : 20.88 K-MSILICATE : SPHENE : PYRITE  MORTHITE : 31.18 MOLLASTONITE: PEROVSKITE : CHROMITE  EUCITE : DIOPSIDE : 11.98 RUTILE : ZIRCON  (EFPHELITE : HYPERSTHENE : 24.85 FLUORAPATITE: .09 CALCITE  (ALIOPHILITE: DLIVINE : ***********************************	CAB : 9.39
************ OXIDES RATIOS AND INDEXES ******  A-F-M : 12.66 55.19 32.15 FED(TOTAL)/MGO : 1.68 ALKALINITY RAT  A20-K20-S102 : 4 0 95 K20/NA20 : .08 ALKALI INDEX  ******* NORMATIVE MINERALS LISTING ******  *****************************	
-F-M : 12.66 55.19 32.15 FED(TOTAL)/MGO : 1.68 ALKALINITY RATAZO-K2O-SIO2 : 4 0 95 K2O/NA2O : .08 ALKALI INDEX  ****** NORMATIVE MINERALS LISTING ******  UARTZ : 4.56 ACMITE : MAGNETITE : 3.66 HALITE  ORUNDUM : CA-SILICATE : HEMATITE : FLUORITE  RTHOCLASE : 1.2 NA-MSILICATE : ILMENITE : 1.37 THENARDIT  LBITE : 20.88 K-MSILICATE : SPHENE : PYRITE  NORTHITE : 31.18 MOLLASTONITE: PEROVSKITE : CHROMITE  EUCITE : DIOPSIDE : 11.98 RUTILE : ZIRCON  EPHELITE : DLIVINE : TIRCON  ALIOPHILITE: OLIVINE : ***********************************	
##### NORMATIVE MINERALS LISTING ######  UARTZ : 4.56	
FELSIC INC MAFIC INDEX  ****** NORMATIVE MINERALS LISTING ******  QUARTZ : 4.56	ATIO: NA DASICITY INDEX:
****** NORMATIVE MINERALS LISTING ******  DUARTZ : 4.56	. :7.49 SOLIDIFICATION INDEX :
****** NORMATIVE MINERALS LISTING ******  DUARTZ : 4.56	NDEX : 22.14 HASHIMUTU INDEX :
******* NORMATIVE MINERALS LISTING ******  CACMITE: MAGNETITE: 3.66 HALITE  CDRUNDUM: CA-SILICATE: HEMATITE: FLUORITE  CDRINDUM: CA-SILICATE: ILMENITE: 1.37 THENARDIT  CALBITE: 20.88 K-MSILICATE: SPHENE: PYRITE  CHROMITE: SPHENE: PYRITE  CHROMITE: DIOPSIDE: 11.98 RUTILE: ZIRCON  NEPHELITE: HYPERSTHENE: 24.85 FLUORAPATITE: .09 CALCITE  (ALIOPHILITE: DLIVINE: ************************************	X :63.19 MARCUITE INDEX :
CH**** NORMATIVE MINERALS RATIOS AND INDEXES ******  OR AB AN : 2.3 39.2 58.5 COLOR INDEX : 41.86  ORTZ-ORTH-FLAG : 7.9 2.1 90 CRYSTALLIZATION INDEX: 47.71 TOTAL % FLAGIOCLASE 1  ORTZ-ORTH-FLAG : 2.08 PLAGIOCLASE 1	
****** NORMATIVE MINERALS RATIOS AND INDEXES ******  OR AB - AN : 2.3 39.2 58.5 COLOR INDEX : 41.86 TOTAL % FELDS  ORTZ-DRTH-FLAG : 7.9 2.1 90 CRYSTALLIZATION INDEX: 47.71 TOTAL % PLAGIOCLASE 1	* MOULAGE (PE)
****** NORMATIVE MINERALS RATIOS AND INDEXES ******  OR AB - AN : 2.3 39.2 58.5 COLOR INDEX : 41.86 TOTAL % FELDS  ORTZ-DRTH-FLAG : 7.9 2.1 90 CRYSTALLIZATION INDEX: 47.71 TOTAL % PLAGIOCLASE 1	* WULLASTU (DF):
****** NORMATIVE MINERALS RATIOS AND INDEXES ******  OR AB - AN : 2.3 39.2 58.5 COLOR INDEX : 41.86 TOTAL % FELDS  ORTZ-DRTH-FLAG : 7.9 2.1 90 CRYSTALLIZATION INDEX: 47.71 TOTAL % PLAGIOCLASE 1	E : # ENSTAILL(DF):
****** NORMATIVE MINERALS RATIOS AND INDEXES ******  OR AB - AN : 2.3 39.2 58.5 COLOR INDEX : 41.86 TOTAL % FELDS  ORTZ-DRTH-FLAG : 7.9 2.1 90 CRYSTALLIZATION INDEX: 47.71 TOTAL % PLAGIOCLASE 1	ITE: * FERRUSIL (DF):
****** NORMATIVE MINERALS RATIOS AND INDEXES ******  OR AB - AN : 2.3 39.2 58.5 COLOR INDEX : 41.86 TOTAL % FELDS  ORTZ-DRTH-FLAG : 7.9 2.1 90 CRYSTALLIZATION INDEX: 47.71 TOTAL % PLAGIOCLASE 1	: * ENSIALL(NE):
****** NORMATIVE MINERALS RATIOS AND INDEXES ******  OR AB - AN : 2.3 39.2 58.5 COLOR INDEX : 41.86 TOTAL % FELDS  ORTZ-DRTH-FLAG : 7.9 2.1 90 CRYSTALLIZATION INDEX: 47.71 TOTAL % PLAGIOCLASE 1	FERRUSIE (MF)1
****** NORMATIVE MINERALS RATIOS AND INDEXES ******  OR AB - AN : 2.3 39.2 58.5 COLOR INDEX : 41.86 TOTAL % FELDS  ORTZ-DRTH-FLAG : 7.9 2.1 90 CRYSTALLIZATION INDEX: 47.71 TOTAL % PLAGIOCLASE 1	: FUNSIERB(UL):
****** NORMATIVE MINERALS RATIOS AND INDEXES ******  OR AB - AN : 2.3 39.2 58.5 COLOR INDEX : 41.86 TOTAL % FELDS  ORTZ-DRTH-FLAG : 7.9 2.1 90 CRYSTALLIZATION INDEX: 47.71 TOTAL % PLAGIOCLASE 1	* FAYALITE(OL):
****** NORMATIVE MINERALS RATIOS AND INDEXES ******  OR AB AN _ : 2.3 _ 39.2 _ 58.5 _ COLOR INDEX _ : _ 41.86	OTAL*: 99.77
R - AB - AN : 2.3 39.2 58.5 COLOR INDEX : 41.86 TOTAL % FELDS RTZ-DRTH-FLAG : 7.9 2.1 90 CRYSTALLIZATION INDEX: 47.71 TOTAL % PLAGIOCLASE 1  DIFFERENTIATION INDEX: 22.08 PLAGIOCLASE 1	
4 DITTMAN UNITED #	
E ETTIMAN UALITEC A	DSPARS : 3.26
4 DITTMAN UNITED #	GIDCLASES: 2.06
DITTMAN UALLES #	I INDEX : 60
DITTMON UNITED #	
***** MOLE NUMBERS *****	
SI : .878 FE+2: .127 NA : .08 P : .002 S : 0 SI	**** RITMAN VALUES *****
	I : 52.74 CA : 3 AN :
AL: .308 MG: ,168 K: .004 MN: .003 H2D+: .0001 AL	. : 14.13 ALK : 3.9
E+3: .032 CA : .167 TI : .009 CD2: 0 H20-: .0001 FM	1 : 13.69 K : .05
***** GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAL	

\*\*\*\*\* LITHONAMES (IF VOLCANIC ROCK) \*\*\*\*\* MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE TYPE & FIELD NAME : IRVINE-BARAGAR MAGMATIC SERIES : ROCK NAME BY SID2 : BASALT BARAGAR LITHONAME :

JENSEN LITHONAME : THOLEIITIC BASALT JENSEN MAGMATIC SERIES : THOLEIITIC

UM m. 47

LIENT : LAPAUSE SURFACE DATA FILE : LAPAUSE ISCLAIMER : THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS	OB:45:45EM 16 MAY 87 OR ERRORS THAT MAY ARISE FROM THE USE OF THESE DATA.
***** REFERENCE DATA ****** JTHOR: LAPAUSE YEAR : 1987 REFERENCE : LAPAUSE	RECORD NO.: 31595 SAMPLE NO : FOR THE PROPERTY OF THE PROPERTY
ROVINCE: TOWNSHIP:	SHEET : LONG. : LAT. :
UTM ZONE : UTM SQ. IDENT.	
COL.AGE: GEOL.PROV.; GEOL. ENVIRONMENT:	ROCK TYPE: ROCK NAME:
	ERIES : SPEC. GRAVITY :
SCRIPTION :	
그들은 요즘 바다 그 방송하는 것 같아. 하는 중요한 사람들은 사람들이 되었다.	
**** ORIGINAL DXIDES AND TRACE ELEMENTS *****	The state of the s
D2:50.70 CAD: 9.69 MND: 0.23 S: BI:	F: FB: ZN:
203: 14.60 NA2D: 2.29 LOI: 4.30 AG: CL:	HG: SN:
203: 12.20 K2D : 0.11 C02 : AS : C0 :	LI: SR:
D: TIO2: 0,68 H20.P: AU: CR:	MO: V:
0 : 6.36 P205 : 0.12 H20.M: BA : CU :	
D . 0.00 1200 . 0.12	NA . W .
* * * * * * * * * * * * * * * CALCULATION	
a a a a a a a a a a a a a a a a a a a	
**** NORMALIZED OVIDES (PVDITE DEMOLED IF BUILDING TOOK AS DAY FEDDE AND	HOW SEED BOW TOTAL - 100WA WARREN
**** NORMALIZED OXIDES (PYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND	
	30 : 6.62 CAD : 10.09
20: 2.39 K20: .11 TIO2: 1.71 P205: .13 MM	NO : .24
	The second section of the second section of the second sec
**** OXIDES RATIOS AND INDEXES *****	
F-M : 12.01 56.17 31.81 FED(TOTAL)/MGO: 1.73	ALKALINITY RATIO : NA BASICITY INDEX : 20.05
20-K20-S102 : 4 0 95 K20/NA20 : .05	ALKALI INDEX :4.4 SOLIDIFICATION INDEX : 32.2
0/NA20+K20 : .04	FELSIC INDEX : 19.86 HASHIMOTO INDEX : 35.03
a the state of	MAFIC INDEX :63.84 MARCOTTE INDEX : -1.13
	HULTO THREY 100-04 HULDOLLE HAREN : -1110
**** NORMATIVE MINERALS LISTING ******	3 C 4 DEED
	HALTE
RUNDUM : CA-SILICATE: HEMATITE :	FLUORITE : * ENSTATIT(DP): 4.12
THOCLASE : .67 NA-MSILICATE: ILMENITE : 1.34	THENARDITE : * FERROSIL(DP): 3.49
BITE : 20.18 K-MSILICATE : SPHENE :	PYRITE : # ENSTATIT(HP): 12.37
ORTHITE 1 30.45 WOLLASTONITE: PEROVSKITE:	CHROMITE : # FERROSIL(HP): 10.48
CUCITE : DIOPSIDE : 15.47 RUTILE :	ZIRCON : * FORSTERS(OL):
PHELITE: HYPERSTHENE: 22.85 FLUDRAPATITE: .09	CALCITE : * FAYALITE(OL):
	**************************************
LIDPHILITE: OLIVINE :	
**** NORMATIVE MINERALS RATIOS AND INDEXES *****	
	TOTAL Y CELECOPOR . Et 7
- AB - AN : 1.3 39.3 59.4 COLOR INDEX : 43.34	TOTAL % FELDSPARS : 51.3
TZ-ORTH-PLAG: 8.9 1.2 89.9 CRYSTALLIZATION INDEX: 48.01	TOTAL % PLAGIOCLASES: 0.63
DIFFERENTIATION INDEX: 20.85	PLAGICCLASE INDEX : 60
RITTMAN VALUES *	
**** MOLE NUMBERS *****	***** RITMAN VALUES *****
: .879 FE+2: .127 NA : .077 F : .002 S :	0 SI : 52.81 CA : 4 AN :
: .298 MG : .164 K : .002 MN : .003 H2D+:	
+3: .032 CA: .18 TI: .009 CD2: 0 H20-:	
	ANICS (DESCARREAUX, 1973) ******
**** RAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ARTITUDE VOLCA	HIADE INDESCRIPTIONS 1//C/ COCCO
IS SAMPLE NA20 : 2.39 K20: .11 MGD : 6.62	
IS SAMPLE NA20 : 2.39 K20: .11 MGD : 6.62 RMAL VALUE 3.14 .33 5.78	1. a tau - 1.
IS SAMPLE NA20 : 2.39 K20: .11 MGD : 6.62 RMAL VALUE 3.14 .33 5.78	
IS SAMPLE NA20: 2.37 K20: .11 MGO: 6.62  RMAL VALUE 3.14 .33 5.78  IN OR LOSS7722 .78 PRIORITY:	
RMAL_VALUE	
IS SAMPLE NA20: 2.39 K20: .11 MGD: 6.62  RMAL VALUE 3.14 .33 5.78  IN OR LOSS7722 .78 PRIORITY:  **** LITHONAMES (IF VOLCANIC ROCK) ******  DONALD-KATSURA MAGMATIC SERIES: SUBALKALINE TYPE & FIELD NAME:	
IS SAMPLE NA20: 2.39 K20: .11 MGO: 6.62  RMAL VALUE 3.14 .33 5.78  IN OR LOSS7722 .78 PRIORITY:  **** LITHONAMES (IF VOLCANIC ROCK) ******	
IS SAMPLE NA20: 2.39 K20: .11 MGD: 6.62  RMAL VALUE	

THOS. LABALISE	DATA *****		Popular	DALIDE					RECORD NO.: SAMPLE NO : #	
JIHUK: LAMAUSE	YEAR 1 19		4 *		MTC (	SHEET:	1 (7)(10)		LAT	Tank and A
UVINCE :	TOWNSHIP 1	manada de la	LITA TON	LITTE	NID :	LITH EAST :	LUNG. :		LMIA I	
au ann		050	UIM ZUNE	i Uir	A PR'IDENT'	THU FW21:	BOCK 7	WDF .	THE MONTH I	
OL.AGE :	GEOL.FROV. :		ENVIRONMENT						ROCK NAME	:
NIEXI:				· · · · · · · · · · · · · · · · ·	MAGMATIC SEL	RIES : SPEC.	GRAVITY :			
SCRIPTION :		10.41								
		Ship at the second	K. 1							
**** DRIGINAL.	DXIDES AND TRACE	FLEMENTS	<b>技术技术</b>			** 1				
02 : 51.70	CAD : 9.57	MNO :	0.23	S : AG :	BI:			FB:		
203: 14.80	NA20 : 1.98	LOI :	2.20	AG :	CL:			SN:		
203: 12.10	CAD : 9.57 NA20 : 1.98 K20 : 0.11			AS I	: 02			SR :		
: 0:	TID2 : 0.68	H20.P:		AU :	CR :	MO :		V :		
D : 6.76	TI02: 0.68 P205: 0.10	H20. Mi		BA :	CU :	NI :		W ±		
	7-7-	010-31 S	7.3			and the second of the providence of the second				
	* * * * * *	* * * * *	* * * * C	ALCUL	ATIONS		* * * * *	* *	*	
**** NORMAL 17F	D OXIDES (PYRITE	REMOVED TI	E SULFUR. I	RON AS 20%	FE203 AND 8	30% FED, DRY, TOTA	AL=100%) *	****		
02 : 53.27	: At 203: 15:25 6	FE203:	2.49	FED : 8	. 98 MG(	1 6.96 C	10 : 9-E	6		
20 1 2.04	K20	TIN2 :	7	P205 :	. 1 MN	2 6.96 C				
20 . 2.04		0.9755								
**** DYIDES	- RATIOS AND INDE	XES *****								
E-M .	10 45 55 77	TT 00	EEO (TO	TALL/MED +	1.61	ALKALINITY RATIO	1 + NA		BASICITY INDEX :	19.88
1 H	10.45 55.75	20.02	1. ED (10	KOUNNOO :	04	ALKALI INDEX	· 55, 10	SOLID		
		J- 12.	1.0	AZU/AHZU :					HASHIMOTO INDEX :	
0/NA20+K20 :	.03	25 1	A			PACTO THREE	147 24		MADOUTTE INDEX	- 7A
		2523	CONTRACTOR SE			MHETC INDEX	:02.24		MARCOTTE INDEX	/4
			- 181	to the second second second						
	MINERALS LIS								* DOLL ACTO (PT)	
	.98 ACMIT				: 3.61				* WOLLASTO (DP):	
RUNDUM :	3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00	LICATE :	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			FLUORITE.	<b>.</b>		* ENSTATIT(DP):	
THOCLASE :	.66 NA-MS	ILICATE	AUTO AND	ILMENITE	: 1.33	THENARDITE	:		* FERROSIL (DF):	2.87
DITC . 17		LICATE t	Active Active	SPHENE	:	PYRITE	2		* ENSTATIT (HP):	13./1
DITE 4 17	7.26 K-MS1									
(Uninile	Call I I I I I I I I I I I I I I I I I I	STONITE:		PEROVSKITE	E :	CHROMITE	:		* FERRUSIE INF /	10.63
CUCITE :	DIOPS	IDE : 1	3.23	RUTILE	2	PYRITE CHROMITE ZIRCON	:		* FORSTERS(OL):	10.83
UCITE :	DIOPS HYPER	IDE : 1	3.23 4.54	RUTILE	ITE: .08	CALCITE	:		* FORSTERS(OL): * FAYALITE(OL):	: 10.83
UCITE :	DIOPS HYPER	IDE : 1	3.23 4.54	RUTILE	2	ZIRCUN	: : : L*: 97.8		* FERROSIL (DP): * ENSTATIT (HP): * FERROSIL (HP): * FORSTERS (OL): * FAYALITE (OL):	10.83
UCITE :	DIOPS HYPER	IDE : 1	3.23 4.54	RUTILE	2	CALCITE	: : : :*: 97.8		* FORSTERS(OL): * FAYALITE(OL):	10.83
UCITE : PHELITE : LIOPHILITE:	DIOPS HYPER	IDE : 1 STHENE : 2 NE :	3.23 4.54	RUTILE FLUORAPATI	2	CALCITE	: : : L*: 97.8		* FORSTERS(OL): * FAYALITE(OL):	10.83
UCITE : PHELITE : LIOPHILITE: ***** NORMATIV	DIOPS HYPER OLIVI VE MINERALS RA	IDE : 1 STHENE : 2 NE : TIOS AND I	3.23 4.54 NDEXES ****	RUTILE FLUORAPAT:	TTE: .08	ZIRCUN CALCITE *****:TOTAL	ARS : 0.	03	* FORSTERS(OL): * FAYALITE(OL):	10.83
UCITE : PHELITE : LIOPHILITE: **** NORMATIV	DIOPS HYPER OLIVI VE MINERALS RA	IDE : 1 STHENE : 2 NE : TIOS AND I	3.23 4.54 NDEXES ****	RUTILE FLUORAPAT:	TTE: .08	ZIRCUN CALCITE *****:TOTAL	ARS : 0.	03	* FORSTERS(OL): * FAYALITE(OL):	10.83
UCITE : PHELITE : LIOPHILITE: **** NORMATIV	DIOPS HYPER OLIVI VE MINERALS RA	IDE : 1 STHENE : 2 NE : TIOS AND I 64.2 CO 6.6 CR	3.23 4.54 NDEXES ****	RUTILE FLUORAPAT: ** ON INDEX:	.: ITE: .08 .42.71 .49.55	ZIRCUN CALCITE ****:TOTA	ARS : 0. CLASES: 9.	03 37	* FORSTERS(OL): * FAYALITE(OL):	10.85
UCITE : PHELITE : LIOPHILITE: **** NORMATIV	DIOPS HYPER OLIVI VE MINERALS RA	IDE : 1 STHENE : 2 NE : TIOS AND I 64.2 CO 6.6 CR	3.23 4.54 NDEXES **** LOR INDEX	RUTILE FLUORAPAT: ** ON INDEX:	.: ITE: .08 .42.71 .49.55	ZIRCON CALCITE *****: TOTAL TOTAL % FELDSP TOTAL % PLAGIO	ARS : 0. CLASES: 9.	03 37	* FORSTERS(OL): * FAYALITE(OL):	10.83
UCITE : PHELITE : LIOPHILITE: **** NORMATIV - AB - AN : TZ-ORTH-PLAG :	DIOPS HYPER OLIVI VE MINERALS RA 1.3 34.5 12.2 1.2 8	IDE : 1 STHENE : 2 NE : TIOS AND I 64.2 CO 6.6 CR	3.23 4.54 NDEXES **** LOR INDEX	RUTILE FLUORAPAT: ** ON INDEX:	.: ITE: .08 .42.71 .49.55	ZIRCON CALCITE *****: TOTAL TOTAL % FELDSP TOTAL % PLAGIO	ARS : 0. CLASES: 9.	03 37	* FORSTERS(OL): * FAYALITE(OL):	10.85
WICHTE : PHELITE : LIOPHILITE: **** NORMATIV - AB - AN : TZ-ORTH-PLAG : RITTMAN VALUES	DIOPS HYPER OLIVI VE MINERALS RA : 1.3 34.5 : 12.2 1.2 8	IDE : 1 STHENE : 2 NE : TIOS AND I 64.2 CO 6.6 CR	3.23 4.54 NDEXES **** LOR INDEX	RUTILE FLUORAPAT: ** ON INDEX:	.: ITE: .08 .42.71 .49.55	TIRCON CALCITE *****:TOTA *****:TOTAL % FELDSP TOTAL % PLAGIO PLAGIOCLASE IN	ARS : 0. CLASES: 9. DEX :	03 37 65	* FORSTERS(OL): * FAYALITE(OL):	10.85
UCITE : PHELITE : LIOPHILITE: **** NORMATIV TABLE AN : TZ-ORTH-PLAG : RITTMAN VALUES **** MOLE NUME	DIOPS HYPER OLIVI VE MINERALS RA 1.3 34.5 12.2 1.2 8	IDE : 1 STHENE : 2 NE : TIOS AND I 64.2 CO 6.6 CR DI	3.23 4.54 NDEXES **** LOR INDEX YSTALLIZATI FFERENTIATI	RUTILE FLUORAPAT: ** ON INDEX: ON INDEX:	42.71 49.55 17.92	TIRON CALCITE *****:TOTA  TOTAL % FELDSP TOTAL % PLAGIO PLAGIOCLASE IN	ARS : 0. CLASES: 9. DEX :	03 37 65 ALUES	\$ *****	
CHITTHAN VALUES  RITTMAN VALUES  **** MOLE NUME  **** MOLE NUME	DIOPS HYPER OLIVI /E MINERALS RA 1.3 34.5 12.2 1.2 B	IDE : 1 STHENE : 2 NE : TIOS AND I 64.2 CO 6.6 CR DI	3.23 4.54 NDEXES **** LOR INDEX YSTALLIZATI FFERENTIATI	RUTILE FLUORAPAT: ** :: :: :: :: :: :: :: ::	42.71 49.55 17.92	TIRCON CALCITE *****:TOTA  TOTAL % FELDSP TOTAL % PLAGIO PLAGIOCLASE IN  ******	ARS : 0. CLASES: 9. DEX : * RITMAN \ 53.27	03 37 65 ALUES	\$ *****	
WUCITE : PHELITE : LIOPHILITE: **** NORMATIVE *- AB - AN : TZ-ORTH-PLAG : **** MOLE NUME **** MOLE NUME **** BBZ ****	DIOPS HYPER OLIVI VE MINERALS — RA : 1.3 34.5 : 12.2 1.2 8 : 12.2 1.2 8 : FE+2: 125 MG : 173	IDE : 1 STHENE : 2 NE : TIOS AND I 64.2 CO 6.6 CR DI	3.23 4.54  NDEXES **** LOR INDEX YSTALLIZATI FFERENTIATI  066 P. 002 MN	RUTILE FLUORAPAT: ** :: ON INDEX: ON INDEX: :: .001 :: .003	42.71 49.55 17.92	TIRCON CALCITE *****:TOTA  TOTAL % FELDSP TOTAL % PLAGIO PLAGIOCLASE IN  ***** O SI: OOO1 AL:	ARS : 97.8  CLASES: 9.  DEX :  * RITMAN \ 53.27 13.72	03 37 65 ALUES CA ALK	3 ***** 5 AN	
WILLIAM PHELITE: PHELITE: LIOPHILITE: **** NORMATIV - AB - AN : TZ-ORTH-PLAG: RITTMAN VALUES **** MOLE NUME :	DIOPS HYPER OLIVI /E MINERALS RA 1.3 34.5 12.2 1.2 B	IDE : 1 STHENE : 2 NE : TIOS AND I 64.2 CO 6.6 CR DI	3.23 4.54  NDEXES **** LOR INDEX YSTALLIZATI FFERENTIATI  066 P. 002 MN	RUTILE FLUORAPAT: ** ON INDEX: ON INDEX:	: .08 42.71 49.55 17.92 S:	TROWN CALCITE *****:TOTA  TOTAL % FELDSP TOTAL % PLAGIO PLAGIOCLASE IN  *****  O SI  .0001 AL :	ARS : 0. CLASES: 9. DEX : * RITMAN \ 53.27 13.72 14.04	03 37 65 ALUES CA ALK	3 ****** 3 AN:: : 3.17	
WUCITE : PHELITE : LIOPHILITE:  **** NORMATIVE - AB - AN : TZ-ORTH-PLAG :  RITTMAN VALUES  **** MOLE NUME	DIOPS HYPER OLIVI VE MINERALS RA : 1.3 34.5 : 12.2 1.2 8 : 12.2 1.2 8 : 12.2 1.2 8 : 173 CA : .176	IDE : 1 STHENE : 2 NE : TIOS AND I 64.2 CO 6.6 CR DI NA : K : . TII : .	3.23 4.54  NDEXES **** LOR INDEX YSTALLIZATI FFERENTIATI  066 P 002 MN 009 C02	RUTILE FLUORAPAT: ** ON INDEX: ON INDEX:	: .08 42.71 49.55 17.92  S:	TIRUN CALCITE *****: TOTA  TOTAL % FELDSP TOTAL % PLAGIO PLAGIOCLASE IN  ***** O SI: .0001 AL: .0001 FM:	* RITMAN \ 53.27 13.72 14.04	03 37 65 /ALUES CA ALK K	S ****** 1	
CUCITE : PHELITE : ALIOPHILITE:  ***** NORMATIVE  ***** NORMATIVE  ***** NORMATIVE  ***** NORMATIVE  ***** NORMATIVE  ***** MOLE NUMB  ***** MOLE NUMB  ***** GAINS ANI	DIOPS HYPER OLIVI  /E MINERALS RA 1.3 34.5 12.2 1.2 8 6 * BERS ***** FF+2: 125 MG : .173 CA : .176 D LOSSES BY COMPA	IDE : 1 STHENE : 2 NE : TIOS AND I 64.2 CO 6.6 CR DI  NA : TI: . RISON TO T	3.23 4.54  NDEXES **** LOR INDEX YSTALLIZATI FFERENTIATI  066 P 002 MN 009 C02  HE AVERAGES	RUTILE FLUORAPAT:  **  ON INDEX: ON INDEX:  1 .001 : .003 : .0  O OF THE AB:	: .08 42.71 49.55 17.92  S:	TROWN CALCITE *****:TOTA  TOTAL % FELDSP TOTAL % PLAGIO PLAGIOCLASE IN  *****  O SI  .0001 AL :	* RITMAN \ 53.27 13.72 14.04	03 37 65 /ALUES CA ALK K	S ****** 1	
RITTMAN VALUES **** MOLE NUME - 299	DIOPS HYPER GLIVI VE MINERALS — RA : 1.3 34.5 : 12.2 1.2 B : 12.2 1.2 B : 12.2 1.2 B : 12.2 1.2 C : 12.2 1.2 1.2 C : 12.2	IDE : 1 STHENE : 2 NE : TIOS AND I 64.2 CO 6.6 CR DI  NA :	3.23 4.54  NDEXES **** LOR INDEX YSTALLIZATI FFERENTIATI  066 P 002 MN 009 C02  HE AVERAGES MGO : 6.96	**  ION INDEX: ON INDEX:  I .001 I .003 I O  OF THE AB	42.71 49.55 17.92 S: H20+: H20-:	TIRUN CALCITE *****: TOTA  TOTAL % FELDSP TOTAL % PLAGIO PLAGIOCLASE IN  ***** O SI: .0001 AL: .0001 FM:	* RITMAN \ 53.27 13.72 14.04	03 37 65 /ALUES CA ALK K	S ****** 1	
CUCITE : CPHELITE : CHALIOPHILITE: CHARACTER NORMATIVE CHARACTER N	DIOPS HYPER OLIVI VE MINERALS — RA 1.3 34.5 12.2 1.2 8 8 * BERS ***** FE+2: 125 M6 : 173 CA : 176 D LOSSES BY COMPA NA20 : 2.04	IDE : 1 STHENE : 2 NE : TIOS AND I 64.2 CO 6.6 CR DI  NA : K : TI : . RISON TO T 1 .11	3.23 4.54  NDEXES **** LOR INDEX YSTALLIZATI FFERENTIATI  066 P 002 MN 009 CD2  HE AVERAGES MGD : 6.94	**  ON INDEX:  1 .001  : .003  : .003	#2.71 49.55 17.92 \$ : #20+: #20-:	TIRUN CALCITE *****: TOTA  TOTAL % FELDSP TOTAL % PLAGIO PLAGIOCLASE IN  ***** O SI: .0001 AL: .0001 FM:	* RITMAN \ 53.27 13.72 14.04	03 37 65 /ALUES CA ALK K	S ****** 1	
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WUCITE : PHELITE : LICITE : PHELITE : LICIPHILITE:  **** NORMATIVE	DIOPS HYPER OLIVI VE MINERALS RA 1.3 34.5 12.2 1.2 8 6 * BERS ***** FF+2: 125 MG : .173 CA : .176 D LOSSES BY COMPA NA20 : 2.04 % K20 3.21 -1.18	IDE : 1 STHENE : 2 NE : TIOS AND I 64.2 CO 6.6 CR DI  NA : K : TI : . RISON TO T 1 .11 .3524	3.23 4.54  NDEXES **** LOR INDEX YSTALLIZATI FFERENTIATI  066 P 002 MN 009 C02  HE AVERAGES MG0 1 6.96 1.3	**  ON INDEX:  1 .001  : .003  : .003	#2.71 49.55 17.92 \$ : #20+: #20-:	TIRUN CALCITE *****: TOTA  TOTAL % FELDSP TOTAL % PLAGIO PLAGIOCLASE IN  ***** O SI: .0001 AL: .0001 FM:	* RITMAN \ 53.27 13.72 14.04	03 37 65 /ALUES CA ALK K	S ****** 1	
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	CAO : 9.85	MND : 0.22	S :	BI: CL:	F :	PB : SN :	ZN :
L203: 15.00	NA20 : 1.75	LOI : 2.50	AG :	CL:	HG :		
E203: 12.60	K20 : 0.22	CO2	AS :		LI:	SR :	
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60 : 6.88	P205 : 0.09	H20.Ms	BA:	CU:	NI a	W :	
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***** NORMALIZ	ED OXIDES (PYRITE	REMOVED IF SULF	UR. IRON AS	20% FE203 AND 80	% FED, DRY, TOTAL	100%)_*****	The second secon
102 : 51.97	AL203: 15.56 K20 : .23	FE2031 2.61	FEO (	9.41 MGO	: 7.14 CAO	: 10.22	
A20 : 1.82	K20 : .23	TID2 : .73	P205 s	.09 MND	: .23		
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-F-M :	9.67 56.67 3	3.66 F	ED (TOTAL) /ME	60: 1.65	ALKALINITY RATIO :	NA BASIC	11Y INDEX : 20.7
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20/NA20+K20 :	.11	1 - All 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	ST . WE .			16.71 HASHIM	
	2 2 4	a Tenantha	2,470		MARIE INDEX :	62.73 MARCO	THE INDEX :/I
ERREE MODMATTI	C MINERALE LICT	TNG HANNA					
ARRAN NUNUHIIV	S 20 ACMITE	AIND KRKKKK	MARNET	TITE : 3.78	HALITE :	* MU	LLASTO(DP): 6.86
DRUNDUM :	PΔ-QTI	ICATE :	HEMAT			* EN	STATIT(DF): 3.67
RTHOCLASE :	5.28 ACMITE CA-SIL 1.34 NA-MSIL 5.36 K-MSIL 3.63 MOLLAS DIOPSI	LICATE:	ILMEN	ITE : 1.37	THENARDITE	# FE	RROSIL(DP): 2.96 STATIT(HP): 14.09
LBITE : 1	5.36 K-MSIL	ICATE :	SPHEN	:	PYRITE :	# EN	STATIT(HP): 14.09
NORTHITE : 3	3.63 WOLLAS	TONITE:	PEROV	SKITE :	CHROMITE :	. * FE	RROSIL(HP): 11.38
		DE : 13.51	RUTIL	E :	ZIRCON :	# F0	RSTERS (OL):
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EUCITE : EPHELITE :	DIOFSI HYPERS	IMENE : 25.47	LOUIT	11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CHECTIE .	* I P	YALTIE (UL):
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EPHELITE : ALIOPHILITE: **** NORMATI R - AB - AN	HYPERS GLIVIN VE MINERALS RAT : 2.7 30.5 A	IOS AND INDEXES	DEX	.: 44.13.	TOTAL X FELDSPARS	: 0.33	YACITE (UL):
EPHELITE : ALIOPHILITE: ***** NORMATI R - AB - AN	HYPERS OLIVIN VE MINERALS RAT	106 AND INDEXES 6.8 COLOR IN .1 CRYSTALL	DEXIZATION IND	: _44.13. EX: 51.42	TOTAL % FELDSPARS	S : 0.33 ASES: 8.99	YACITETOLI
EPHELITE : ALIOPHILITE: ***** NORMATI R - AB - AN	HYPERS GLIVIN VE MINERALS RAT : 2.7 30.5 A	106 AND INDEXES 6.8 COLOR IN .1 CRYSTALL	DEXIZATION IND	: _44.13. EX: 51.42	TOTAL X FELDSPARS	S : 0.33 ASES: 8.99	YACITETOLI
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EPHELITE: ALIOPHILITE: ***** NORMATI R - AB - AN RTZ-ORTH-PLAG  RITTMAN VALUE ***** MOLE NUM I : 865	HYPERS OLIVIN  VE MINERALS RAT  : 2.7 30.5 A  : 9.5 2.4 BB  S *  BERS ******  FF+2: 131	IOS AND INDEXES 6.8 COLOR IN .1 CRYSTALL DIFFEREN NA : .059	###### IDEX IZATION INDE	: 44.13 EX: 51.42 EX: 16.7	TOTAL % FELDSPARS TOTAL % PLAGIOCLASE INDEX  ******* F	S : 0.33 ASES: 8.99 ( : 69	* 3 AN :
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	.37 21.			(TOTAL)/MGD	: .28	ALKALINIT	Y RATIO	: 1.04	BASTO	ITY INDEX :	29.81
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**** NORMATIV	E MINERALS -										
		ACMITE		MAGNETIT				:		LLASTO(DF):	
RUNDUM :		CA-SILICATE		HEMATITE		FLU0	RITE		* ENS	STATIT(DP):	2.92
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RUNDUM : THOCLASE : BITE : DRTHITE : 10 UCITE : PHELITE : LIOPHILITE: **** NORMATI	1.31 0.92 VE MINERALS	CA-SILICATE NA-MSILICATE K-MSILICATE HOLLASTONITE DIOPSIDE HYPERSTHENE OLIVINE RATIOS AN	: 7.08 : 26.23 : 50.58	HEMATITE ILMENITE SPHENE PEROVSKI RUTILE FLUORAFA	: .49 TE : TITE: .03	THEN THEN PYRI CHRO ZIRO CALO	RITE PARDITE TE MITE ON RITE *:TOTAL*	: : : : : 99.89	* EN: * FEI * EN: * FEI * FOI	STATIT(DP): RROSIL(DP): STATIT(HP): RROSIL(HP): RSTERS(OL):	2.92 .41 : 22.99 : 3.23 : 43.68
RUNDUM: THOCLASE: BITTE: DITTE: JCITE: FHELITE: LIOPHILITE: W*** NORMATI	1.31 0.92 VE MINERALS	CA-SILICATE NA-MSILICATE K-MSILICATE WOLLASTONITE DIOPSIDE HYPERSTHENE OLIVINE RATIOS AN	: 7.08 : 26.23 : 50.58 ID INDEXES *-	HEMATITE ILMENITE SPHENE PEROVSKI RUTILE FLUORAFA	: .49 TE : : TITE: .03	FLUC THEN PYRI CHRC ZIRC CALC ****	RITE HARDITE TE HMITE ON LITE *:TOTAL*	: : : : : 99.89	* EN: * FEI * EN: * FEI * FOI	STATIT(DP): RROSIL(DP): STATIT(HP): RROSIL(HP): RSTERS(OL):	2.92 .41 : 22.99 : 3.23 : 43.68
RUNDUM: PHOCLASE: BITE: BITE: BITE: USITE: PHELITE: LIOPHILITE: W*** NORMATI' - AB - AN	1.31 0.92 VE MINERALS	CA-SILICATE NA-MSILICATE K-MSILICATE HOLLASTONITE DIOPSIDE HYPERSTHENE OLIVINE RATIOS AN	: 7.08 : 26.23 : 50.58 ID INDEXES ** COLOR_INDE: CRYSTALLIZE	HEMATITE ILMENITE SPHENE PEROVSKI RUTILE FLUORAFA *****	: .49 : TE : : TITE: .03	FLUC THEN PYRI CHRO ZIRC CALC **** TOTAL % TOTAL %	RITE HARDITE TE MITE ON LITE *: TOTAL* FELDSPAR PLAGIOCL	: : : : : 99.89 S : 2.33	* EN: * FEI * EN: * FEI * FOI	STATIT(DP): RROSIL(DP): STATIT(HP): RROSIL(HP): RSTERS(OL):	2.92 .41 : 22.99 : 3.23 : 43.68
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RUNDUM: THOCLASE: BITE: ORTHITE: UCITE: PHELITE: LIOPHILITE: **** NORMATI - AB - AN TZ-ORTH-PLAG  RITTMAN VALUE: **** MOLE NUM: . 757 . 084	1.31 0.92 VE MINERALS : B 1( : 0 S * BERS ****** FE+2: 1( MG : .86	CA-SILICATE NA-MSILICATE K-MSILICATE K-MSILICATE HOGIASTONITE DIOPSIDE HYPERSTHENE OLIVINE RATIOS AN 0.6 88.6 .8 99.2	: 7.08 : 26.23 : 50.58 ID INDEXES ** COLOR INDE: CRYSTALLIZE DIFFERENTIA	HEMATITE ILMENITE SPHENE PEROVSKI RUTILE FLUORAPA **** X. : ATION INDEX: ATION INDEX:	# .49  TE : TITE: .03  87.53 77.01 1.41	FLUC THEN PYRI CHRC ZIRC CALC **** TOTAL % PLAGICCL	RITE ARDITE TE MITE ON ITE *:TOTAL*  FELDSPAR PLAGIOCL ASE INDE  ****** SI: AL:	: : : : : : : : : : : : : : : : : : :	# EN: # FE! # FO! # FA'	FTATIT(DP): RROSIL(DP): RROSIL(MP): RROSIL(MP): RSTERS(OL): YALITE(OL):	: 2.92 : 41 : 22.99 : 3.23 : 43.68 : 6.79
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RUNDUM: THOCLASE: BITE: ORTHITE: UCITE: PHELITE: LIOPHILITE: **** NORMATI - AB AN TZ-ORTH-PLAG  RITTMAN VALUE: **** MOLE NUM: 1.757 1.084 +3:.027  ***** GAINS ANI IS SAMPLE RMAL VALUE IN OR LOSS	VE MINERALS :	CA-SILICATE NA-MSILICATE K-MSILICATE K-MSILICATE K-MSILICATE HOLLASTONITE DIOPSIDE HYPERSTHENE OLIVINE RATIOS AN 0.6 88.6 89.2  09 NA 1 31 K : 73 TI : COMPARISON T K20: 02 3.6	. 7.08 26.23 . 50.58 ID INDEXES **	HEMATITE ILMENITE SPHENE PEROVSKI RUTILE FLUORAFA  **** X : ATION INDEX: ATION INDEX: OO2 CO2: O GES OF THE A 5.55	: .49 TE : :TITE: .03 87.53 77.01 1.41  S : H20+: H20-: BITIBI VOLC	THEN PYRI CHRC ZIRC CALC ****  TOTAL % TOTAL % PLAGIOCL  0 .0001	RITE ARDITE TE MITE ON ITE *:TOTAL*  FELDSPAR PLAGIOCL ASE INDE  ****** SI : AL : FM :	: : : : : : : : : : : : : : : : : : :	# EN: # FEI # EN: # FOI # FA'	FTATIT(DP): RROSIL(DP): RROSIL(DP): RROSIL(HP): RROSIL(HP): RSTERS(OL): YALITE(OL):	: 2.92 : 41 : 22.99 : 3.23 : 43.68 : 6.79
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THOR: LAPAUSE	YEAR	1 1987	REFERE	INCE : LAPA	AUSE						SAMPLE		SECTION AND
DVINCE - 1	TOWNSHIP-L			manufacture and a			SHEET :		LONG. :			T. :	
						I SQ. IDENT.	: UTM	EAST :					
DL.AGE :	GEOL. PROV.			IRONMENT :					ROCK T	YF'E :	ROD	NAME. :	
NTEXT :		STRATIG	RAPHY :-	-		AGMATIC SE	RIES :	SPEC. 6	SRAVITY :				
SCRIPTION		10000	1	\$									
**** ORIBINAL D	TYTHE AND	PACE ELE	MENTE ASS	***									
02:50.30	CAO : 9.		MNO : O		5 :	BI :		F :		PB:		ZN:	
203: 14.90	NA20 : 1.		LOI : 3		AG :	CL:		HG:				214 :	
										SN:			
203: 12.10	_K20 : 0.	H1	C02 I		ls_r					SR :			
1 0	T102 : 0.	62	H20.P1		AU 1	CR :		MO:		V :			
0 1 7.13	P205 : 0.	.06	H20.M1	- 1	3A :	CU s	73.1	NII		W :			
And the state of t		**	30				the real or second to the second						
	* * * *	* * * *	* * * * *	* * * C #	ALCUL	ATION	S * * * *	* * * * 1	* * * * *	* * *			
**** NORMALIZED	DINIDES (P'	RITE REM	OVED IF S	ULFUR. IRC	N AS 20%	FE203 AND	BOY FED. D	RY. TOTAL	=100%) #	****			
02 + 52.28	AL 2014 15	AQ STREET	FF203.	2.51	FO 6 9	OA 177 MG	0.00007 81	COL	. 9 4	7			
02 : 52.28 20 : 1.84	K30	Q4	TIDO	44	205	04	0	- CHU	, , , , , ,				
20 4, 71.04	N20 1		1102	.01	200 1 .	OB FIR	0 1 .24						
VALUE OVIDEO	DATTOR AND	TAMENEO											+
**** OXIDES						4 ==	## 14m # #**		***			W A 183 87 11	00.00
F-M : 1		42 34.2				1.53		TY RATIO			BASICITY		
20-K20-SI02 :		2 9	5	K	20/NA20 .: .	46	ALKALI.I	NDEX	:31.34	SOLIDI	FICATION .	INDEX :: .	34.61
0/NA2D+K2D :	.31		12 5 14	4			FELS	IC INDEX	: 21.79	H	ASHIMOTO	INDEX :	41.86
4.1			A 5 大学	1 110			MAFIC	INDEX	:60.96		MARCOTTE	INDEX :	53
4			the state of	1403 119			1						
**** NORMATIVE	MINERAL C	- LIGITING	*****										
BARTZ : 3.	OZ	ACMITE	:		AAGMETTTE	: 3.64	1101	ITE	:		* WOLLAS	TOURDAY	6.1
	73 1	ACRITIC		ŗ									
RUNDUM :		CA-SILICA	15.00	E-12				ORITE			* ENSTAT		
THOCLASE : 4.	97	H-MSILIC	ATE:		LMENITE			NARDITE			* FERROS		
BITE : 15.	56	(-MSILICA	TE I MA		BPHENE	I		ITE	1		* ENSTAT	IT(HP):	14.82
IDRTHITE 31.	.51	MILLASTON	ITE		PEROVSKITE		CHR	OMITE	1		* FERROS	IL(HP):	11.19
CUCITE :	1	DIOPSIDE	: 12.5	77 5	RUTILE	:	ZIR	CON	:		* FORSTE	RS(OL):	
PHELITE :			NE : 26.0		LUCRAPATI	TE: .04	CAL	CITE	1		* FAYALI	TE (OL):	
LIOPHILITE:		DLIVINE						**: TOTAL					
CAUCHALA I CA		JI-1-8-118E	12			+		.www.iuinm.	4 2 .2 .e. LQLQ		- W 6-		
	MINERALE		-	-vra									
- AB - AN :	7 0	9 84.1				49.7			ASES: 7.				
- AB - AN :	, 0.		DIFFE	RENTIATION	N INDEX:	20.53	PLAGIOC	LASE INDE	EX :	67			
- AB - AN :	, 6.												
- AB - AN :	, 6												
TZ-ORTH-PLAG:													
TZ-ORTH-PLAG :	*		5.4					*****	RITMAN V	ALUES	****		
TZ-ORTH-PLAG : RITTMAN VALUES **** MOLE NUMBE	* ERS: #*#**	No	. 059	, p	- 001	s .	0		RITMAN V			AN ·	
TZ-ORTH-PLAG: RITTMAN VALUES **** MOLE NUMBE : .87 F	* ERS ***** FF+2: .12			P 1			0	.SI. : .:	52.28	CA :	3	AN :	
TZ-ORTH-PLAG: RITTMAN VALUES **** MOLE NUMBE : .37 F	* ERS ***** FF+2: .126 16 : .184	4 K	: .018	MN :	.003	H20+:	.0001	AL :	52.28 13.94	CA :	3 3.6	AN :	
TZ-DRTH-PLAG:  RITTMAN VALUES  **** MOLE NUMBE  : .37 F  : .304	* ERS ***** FF+2: .12	4 K		MN :	.003		.0001	.SI. : .:	52.28 13.94	CA :	3	AN :	100000000000000000000000000000000000000
TZ-ORTH-PLAG:  RITTMAN VALUES **** MOLE NUMBE : .37 F : .304 M +3: .031 C	# ERS ##### FF+2: .126 1G : .184 CA : .172	4 K 2 TI	: .018	9 MN 1	.003	H20+: H20-:	.0001	SI : :	52.28 13.94 14.94	CA :	3 3.6	AN :	-1-
TZ-ORTH-PLAG:  RITTMAN VALUES **** MOLE NUMBE : .87 : .304 M +3: .031 C	# ERS ***** FE+2: .12/ MG : .18/ CA : .17/ LOSSES BY (	4 K 2 TI COMPARISO	: .018 : .008	MN CO2	0 .003 C OF THE ABI	H20+: H20-:	.0001	SI : :	52.28 13.94 14.94	CA :	3 3.6	AN :	-1-
RITTMAN VALUES **** MOLE NUMBE : .304 M +3: .031 C	# ERS ***** FE+2: .12/ MG : .18/ CA : .17/ LOSSES BY (	4 K 2 TI COMPARISO	: .018 : .008	MN CO2	0 .003 C OF THE ABI	H20+: H20-:	.0001	SI : :	52.28 13.94 14.94	CA :	3 3.6	AN :	51.
RITTMAN VALUES **** MOLE NUMBE : .304   +3: .031    **** BAINS AND IIS SAMPLE NA	# ERS ***** FE+2: .12/ MG : .18/ CA : .17/ LOSSES BY (	4 K 2 TI COMPARISO K20:	: .018 : .008 IN TO THE	MN CO2	OF THE ABI	H20+: H20-: TIBI VOLCA	.0001	SI : :	52.28 13.94 14.94	CA :	3 3.6	AN :	
RITTMAN VALUES **** MOLE NUMBE : .304 +3: .031  **** BAINS AND IIS SAMPLE NA	# ERS ***** FF+2: .12/ MG : .184 CA : .17/ LOSSES BY ( A20 : 1.84	4 K 2 TI COMPARISO K20:	: .018 : .008 IN TO THE .84 MGC	AVERAGES 1 0 : 7.41	.003 0 OF THE ABI	H2O+: H2O-:	.0001	SI : :	52.28 13.94 14.94	CA :	3 3.6	AN :	
RITTMAN VALUES **** MOLE NUMBE : .304 +3: .031  **** BAINS AND IIS SAMPLE NA	# ERS ***** FF+2: .12# 16 : .184 CA : .177	4 K 2 TI COMPARISO K20:	: .018 : .008 IN TO THE	AVERAGES 1	.003 0 OF THE ABI	H20+: H20-: TIBI VOLCA	.0001	SI : :	52.28 13.94 14.94	CA :	3 3.6	AN :	-1-
RITTMAN VALUES **** MOLE NUMBE : .87 F : .304 M +3: .031 C **** BAINS AND IS SAMPLE NA	* ERS ***** FE+2: .12/ 46 : .18/ CA : .17/ LOSSES BY { A20 : 1.84	4 K 2 TI COMPARISO K20:	: .018 : .008 IN TO THE .84 MGC	AVERAGES 1 0: 7.41 5.99 1.35	.003 0 OF THE ABI	H2O+: H2O-:	.0001	SI : :	52.28 13.94 14.94	CA :	3 3.6	AN =	-1-
: .304 M +3: .031 C **** BAINS AND HIS SAMPLE NA FRMAL VALUE IN OR LOSS	# ERS ***** FE+2: .12/ 16 : .18/ CA : .17/ LOBSES BY ( A20 : 1.84 3.07 -1.24	4 K 2 TI COMPARISO K20:	: .018 : .008 IN TO THE .84 MGC .32 .52	AVERAGES 1 0 : 7.41 5.99	OF THE ABI	H2O+: H2O-: TIBI VOLCA	.0001	SI : :	52.28 13.94 14.94	CA :	3 3.6	AN :	
RITTMAN VALUES **** MOLE NUMBE : .87 F : .304 M +3: .031 C **** BAINS AND ITS SAMPLE NA RMAL VALUE IN OR LOSS **** LITHONAMES DONALD-KATSURA	# ERS ****** FF+2: .12/ MG : .18/ CA : .17/ LOSSES BY ( A20 : 1.84 3.07 -1.24 MAGMATIC SE	4 K 2 TI COMPARISO K20:  ANIC ROCK ERIES: SU	: .018 : .008 IN TO THE .84 MGC .32 .52	AVERAGES 1 0 : 7.41 5.99 1.35	PRIC	H20+: H20-: TIBI VOLCA	.0001 .0001 INICS (DESC	SI : :	52.28 13.94 14.94	CA :	3 3.6	AN :	
TZ-ORTH-PLAG:  RITTMAN VALUES  **** MOLE NUMBE  : .37 F : .304 M +3: .031 C  **** BAINS AND IS SAMPLE NA RMAL VALUE IN OR LOSS  **** LITHUNAMES DONALD-KATSURA	# ERS ****** FF+2: .12/ MG : .18/ CA : .17/ LOSSES BY ( A20 : 1.84 3.07 -1.24 MAGMATIC SE	4 K 2 TI COMPARISO K20:  ANIC ROCK ERIES: SU	: .018 : .008 IN TO THE .84 MGC .32 .52	AVERAGES 1 0 : 7.41 5.99 1.35	PRIC	H2O+: H2O-: TIBI VOLCA	.0001 .0001 INICS (DESC	SI : :	52.28 13.94 14.94	CA : ALK: : K : ****	3 3.6	AN :	-1-

	CLIENT: LAPAUSE SURFACE DATA FILE: LAPAUSE  OB:52:55FM 16 MAY 87  DISCLAIMER: THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT MAY ARISE FROM THE USE OF THESE DATA.
	***** REFERENCE DATA ******  AUTHOR: LAPAUSE YEAR: 1987 REFERENCE: LAPAUSE  PROVINCE: TOWNSHIP: NTS SHEET: LONG.: LAT.:
	UTM ZONE: UTM SQ.IDENT.: UTM EAST: UTM NORTH:  GEOL.AGE: GEOL.PROV.: GEOL. ENVIRONMENT: ROCK TYPE: ROCK NAME:
	CONTEXT: STRATIGRAPHY: MAGMATIC SERIES: SPEC. GRAVITY:  DESCRIPTION:
	***** DRIBINAL DXIDES AND TRACE ELEMENTS *****
	SIG2: 52.30 CAO: 9.59 MNO: 0.21 S: BI: F: PB: ZN: AL203: 15.20 NA20: 2.22 LOI: 2.70 AG: CL: HG: SN:
	FE203: 12.30 K20: 0.25 C02: AS: CD: LI: SR:
	FEO : TIO2 : 0.72 H20.P: AU : CR : MO : V : M60 : 5,95 P205 : 0.09 H20.M: BA : CU : NI : W :
	MGO : 5.95 P205 : 0.09 H20.M: BA: CU: NI: W:
phone	**************************************
_	****** NORMALIZED OXIDES (FYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND 80% FE0, DRY, TOTAL=100%) ******
	SIO2 : 53.45 AL203: 15.54 FE203: 2.51 FE0 : 9.05 MGD : 6.08 CAD : 9.8 NA2D : 2.27 K2D : .26 TIO2 : .74 P205 : .09 MND : .21
	NAZU 1 2.27 KZU 1 .26 1102 1 .74 PZUS 1 .09 HNU 1 .21
	***** OXIDES RATIOS AND INDEXES *****
	A-F-M : 12.54 57.31 30.14 FEO(TOTAL)/MGO: 1.86 ALKALINITY RATIO: NA BASICITY INDEX: 19.5
	NAZU-KZU-SIUZ : 4 0 95 KZU/NAZU : .11 ALKALI INDEX : 10.28 SULTDIFICATION INDEX : 50.52
	K2D/NA20+K20 : .1 FELSIC INDEX : 20.52 HASHIMOTO INDEX : 34.44
	MAFIC INDEX :65.53 MARCOTTE INDEX : -1.08
-	****** NORMATIVE MINERALS LISTING ******
	CODINIDING . CA ON YOARS . LICHARTTE . CHOOTE . CONTATTION. 7 57
	ORTHOCLASE : 1.5 NA-MSILICATE: ILMENITE : 1.39 THENARDITE : # FERROSIL(DP): 3.2
	ORTHOCLASE: 1.5 NA-MSILICATE: ILMENITE: 1.39 THENARDITE: *FERROSIL(DP): 3.2  ALBITE: 19.19 K-MSILICATE: SPHENE: PYRITE: *ENSTATIT(HP): 11.6  ANORTHITE: 31.44 WOLLASTONITE: PEROVSKITE: CHROMITE: *FERROSIL(HP): 10.52  LEUCITE: DIOPSIDE: 13.66 RUTILE: ZIRCON: *FORSTERS(GL):
	ANDRINGIE : 31.44 WULLABILINIE: PERUSKIE: CHRUMIE: * FERRUSL (AF): 10.52
	LEUCITE: DIOPSIDE: 13.66 RUTILE: ZIRCON: *FORSTERS(OL):  NEPHELITE: HYPERSTHENE: 22.12 FLUORAPATITE: .07 CALCITE: *FAYALITE(OL):  KALIOPHILITE: OLIVINE: *****:TOTAL*: 99.8
	KALIOPHILITE: OLIVINE : ####:TOTAL#: 99.8
	****** NORMATIVE MINERALS RATIOS AND INDEXES ******
	OR - AB - AN : 2.9 36.8 60.3 COLOR INDEX : 40.81 IDTAL % FELDSPARS : 2.13
	GRTZ-GRTH-PLAG: 11.5 2.5 85.9 CRYSTALLIZATION INDEX: 47.18 TOTAL % PLAGIOCLASES: 0.63 DIFFERENTIATION INDEX: 20.69 PLAGIOCLASE INDEX: 62
	* RITTMAN VALUES *
	***** MOLE NUMBERS ******  SI : 89 FE+2: 126 NA : .073 P : .001 S : .001 S : .53.45 CA : .3 AN :
-	
	AL: .305 MG: .151 K: .006 MN: .003 H2D+: .0001 AL: 13.98 ALK: 3.66 FE+3: .031 CA: .175 TI: .009 CD2: 0 H2D-: .0001 FM: 12.28 K: .07
_	
	***** BAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ****** THIS SAMPLE NA20 : 2.27 K20: .26 MBD : 6.08
	NORMAL VALUE 3.23
	GAIN OR LOSS9711 .49 PRIORITY:
	ANNAL A THIRMANES AND DOOR STORM TO THE STORM
-	##### LITHONAMES (IF VOLCANIC ROCK) #####
	MCDONALD-KATSURA MAGMATIC SERIEB: SUBALKALINE TYPE & FIELD NAME : IRVINE-BARAGAR MAGMATIC SERIES : ROCK NAME BY SIO2 : BASALT BARAGAR LITHONAME : V77

CLIENT: LAFAUSE BURFACE DATA FILE: LAFAUSE 08:53:33FM 16 MAY 87

AUTHOR: LAPAU PROVINCE : GEOL. AGE :	NCE DAT	YEAF	₹ : 19	67 1	REFERENC	E I LAP	AUSE		NTS S	HEET 1		LONG.		REC SAMPLE L	ORD NO.: NO : (A) A).	
					UTM	ZONE :	n,	rm sQ.	IDENT.:	UTM	EAST :			UTM NORTH	:	
														RD	CK NAME	
CONTEXT : DESCRIPTION :	14 L				ald.					IES :	SPEC. I	3RAVI1Y	1			
***** ORIGIN	AL OXID	BAND	TRACE	ELEMEN	18 ****				BI :				PR :		ZN :	
5102 : 51.30	LAI	3 1 6	3.00	MNU	1 0.2	^	5 1		BI:		F :		SN :		ZN :	
FE203: 14.00	K2	10: 2	2.04	C03	: 2.4	o .	AC .		CO		17 .		SR :			
EEO.	TI	12 . /	2.49	Han	D.		All .		CD .		MO .		V :			
S102 : 51.30 AL203: 14.00 FE203: 11.90 FE0 : 6.70	P20	J5 : C	0.08	H20	Mr	Y.	BA :		CU :		NI I		W			
***** NORMAL	IZED OX	* * * 1	* * *	* * * *	* * * *	* * C	A L C U I	_ A T	I O N S	0% FED, DF	Y. TOTAL	=100%)	*****			A to detail to
SI02 1 53.59 NA20 : 2.97	K2	1 :	.44	T10:	2 1 .7		P205 :	.08	MNC	23			. 70			
***** OXIDES																
A-F-M NA20-K20-SI02	: 15.6	52.	.34	32.05		FEO (TOT	AL)/MGO	: 1	.6	ALKALINIT	Y RATIO	1 NA		BASICITY	INDEX :	19.4
NA20-K20-SI02	-3-2-Miles	<u> </u>	1	94		K	20/NA20	L	15	ALKALIIN	IDEX	:12.9	SOLII	DIFICATION	INDEX :	32.42
K20/NA20+K20		\$ .		11		3 1 1				FELSI	C INDEX	: 27.6	3	HASHIMOTO	INDEX :	38.47
	15	3000	4. 7		0.4	11		( L		MAFIC 1	NDFX	162.02		MARCOTTE	INDEX :	-1
***** NORMAT																
	3.09			E			MAGNETIT	Ξ :	3.6	HAL 1	TE	:		* WOLLA	STO(DP):	7.71
CORUNDUM	W.L.	W. T.	CA-SI	LICATE	C. 1 . 90 c.		HEMATITE	1		FLU0	RITE		-	* ENSTA	TIT(DP):	4.17
DRTHOCLASE :	2.59	1	NA-MS	ILICATE	San Garage		ILMENITE		1.34	THEN	ARDITE	:		* FERRO	151L (DP):	3.26
WERLIE !	25.1	14.15	K-MSI	LICATE:			SCHENE			PYR:	MITT			* ENSTA	HILL (MP):	10.25
HINDRINIE 1	73.74	- 1 1 1	DIODS	TOE	. 15 15		EEKUVSKI.	IE 1		LHKL	JULY 1E			# FORET	DET (UL) :	10.30
ORTHOCLASE : ALBITE : ANORTHITE : LEUCITE : NEPHELITE :			HABER	STHENE	23.42		EL HUBABA.	: ::TF:	.04	COL	LITE			* FORST * FAYAL	ITE (DL):	
KALIOPHILITE:			OLIVI	NE	. 20.02		FLOORAFA	11161	.00	FAR	* TOTAL	*: 99.B	4	- FRIHL		
***** NORMA	TIVE MI	HEDAL B	00	TIOS AN	n THINEYE		*		'1 57 69	TOTAL % TOTAL % PLAGIOCO	FELDSPA PLAGIOC ASE IND					
OR - AB - AN ORTZ-ORTH-PLA						Section 1				S 2 00 1 - 2 1	KIND					
OR - AB - AN QRTZ-ORTH-PLA * RITTMAN VAL		· · · · · ·	-													
OR - AB - AN QRTZ-ORTH-PLA * RITTMAN VAL ***** MOLE N	.UES #	*****									***	RITMAN	VALUE			
OR - AB - AN QRTZ-ORTH-PLA * RITTMAN VAL ****** MOLE N SI : .892	UES * IUMBERS ·	******	25	NA .	.096	P	001	9	S	.0	SI :	53.59	CA	: 3	AN :	
OR - AB - AN ORTZ-ORTH-PLA * RITTMAN VAL ****** MOLE N SI : .892 AL : .287	UES * IUMBERS FE+2 MG	.12	25 74	K :	.009	MN	: .003	H	120+: .	0001	SI :	53.59 13.15	CA	: 3 : 4.89	AN :	
OR - AB - AN ORTZ-ORTH-PLA * RITTMAN VAL ****** MOLE N SI : .892 AL : .287	UES * IUMBERS ·	.12	25 74	NA 1. K : TI :	.009	MN	: .001 : .003 : 0	H	120+: .	.0 .0001 .0001	SI :	53.59 13.15	CA	: 3	AN :	
OR - AB - AN ORTZ-ORTH-PLA * RITTMAN VAL ***** MOLE N SI : .892 AL : .287 FE+3: .031 ****** GAINS	UES * IUMBERS FE+2 MG CA AND LOSS	****** : .13 : .13	25 74 59 COMPA	K : TI :	.009 .009	MN CO2 ERAGES	: .003 : 0	H H BITIBI	120+: . 120-: .	0001	SI : AL : FM :	53.59 13.15 14.12	CA ALK K	: 3 : 4.89 : .08	AN :	
OR - AB - AN ORTZ-ORTH-PLA * RITTMAN VAL ***** MOLE N SI : .892 AL : .287 FE+3: .031	UES * IUMBERS FE+2 MG CA CA AND LOS	****** : .13 : .13	25 74 59 COMPA K20	K : TI :	.009 .009 D THE AV	MN CO2 ERAGES	: .003 : 0	H H BITIBI	120+: . 120-: . VOLCAN	0001	SI : AL : FM :	53.59 13.15 14.12	CA ALK K	: 3 : 4.89 : .08	AN :	
* RITTMAN VAL ****** MOLE N SI : .892 AL : .287 FE+3: .031 ****** BAINS THIS SAMPLE NORMAL VALUE GAIN OR LOSS	LUES * IUMBERS FE+2 MG CA AND LOS	SES BY 2.97 3.25 29	25 74 59 COMPA K20	RISON T	.009 .009 D THE AV	ERAGES 7 5.48	: .003 : 0 OF THE A	BITIBI	120+: . 120-: . VOLCAN	0001 0001 NICS (DESC	SI : AL : FM :	53.59 13.15 14.12	CA ALK K	: 3 : 4.89 : .08	AN :	
* RITTMAN VAL ****** MOLE N SI : .892 AL : .287 FE+3: .031 ****** GAINS THIS SAMPLE NORMAL VALUE	LUES * IUMBERS FE+2 MG CA AND LOS	SES BY 2.97 3.25 29	25 74 59 COMPA K20	RISON T	.009 .009 D THE AV	ERAGES 7 5.48	: .003 : 0 OF THE A	BITIBI	120+: . 120-: . VOLCAN	0001 0001 NICS (DESC	SI : AL : FM :	53.59 13.15 14.12	CA ALK K	: 3 : 4.89 : .08	AN :	

**** REFERENCE	DATA ##	***			larva							REC	ORD NO.:	3160
JTHOR: LAPAUSE ROVINCE J	TOWNSHIE	AR 1 19	/87 R	EFERENCE	I LAPAI	USE	NTS	SHEET	1	LONG.	ı	SAMPLE	AT.	
UL. AGE :	GEOL, PRO	3V. z	GEOL	_ ENVIRO	NMENT :					RDCK	TYPE	RU	ICK NAME	:
SCRIPTION :		2011	RATIGRAPH	4 × *			MAGMATIC	BERIES :	SPEC.	GRAVITY				
**** ORIGINAL	DXIDES A	ID TRACE	ELEMENT	8 ****	A A STATE OF									
02 : 50.80	CAO :	7.88	MNO	1 0.21	S	1	BI	1	F :		PB :		ZN s	
.203: 14.70	NA20 :	2.57	LOI	1 6.10	Al	B :	CL	2	HG :		SN :			
203: 11.70	K20 :	0.32	C02	1	A	B		4	LI t		SR :			
0 1	T102 1	0.72	H20.	Pt	A	U s	CR	1	MO :		V :			
***** ORIGINAL ID2 : 50.80 .203: 14.70 .203: 11.70 	P205 i	0.14	H20.	Mi	Bi	A :	CU	1	NI :		W :			
**** NORMALIZE	n avines	(PVRITE	F REMOVED	TE SUIF	UR TRO	N AS 20	LATIO!	4 S * *	* * * * * * * * * * * * * * * * * * *	+ + + + + FAL=100%)	* * *	#		
02 : 53.48	AL 203:	15.48	FE20	2 : .76	FI P:	EO :	8.87 P	190 s	7.25 .22	AO I	8.2			
**** OXIDES F-M : 20-K20-SIG2 :	RATIOS A	AND INDE	EXES ****	***	ED / TOTAL	1 /MOO	. 4 87	A1 1/2	M INITY DATE	. NA		DACTOITY	/ INDEY +	10
20-K20-SI02 :	5	1	95	r	K2	B/NA20	: .13	ALK	ALI INDEX	: 11.15	SOLII	DIFICATION	INDEX :	33.
0/NA20+K20 i	.11							M/	FELSIC INDEX	: 26.8 :60.98	7	MARCOTTE	INDEX:	40.8
***** NORMATIVE PARTZ : 4 PRUNDUM THOCLASE : 1 BITE : 22 PRUNTHITE : 25 CUCITE : PHELITE : ALIOPHILITE:	MINERALS	5 LIS	STING ***	***										
ARTZ : 4	57	CA-S	IL TOATE		M	AGNE   1	E 1 3.50	5	FLUORITE	1		* WULLE	ATIT(DP):	2.!
THOCI ASE	99	NA-M	STI TCATE		T	MENTTE	1 1.4	5	THENARDITE			# FERRO	SIL (DP):	1
BITE : 22	2.89	K-MS	ILICATE :	1.02	S	PHENE			PYRITE			* ENSTA	TIT(HP):	15
ORTHITE 1 25	2.08	WOLL/	ASTONITE:	14 45 45	P	EROVSKI	TE 1		CHROMITE	1 1		* FERRO	SIL (HP):	11
UCITE :		DIOPS	SIDE :	9.09	R	UTILE	1		ZIRCON	:		* FORST	TERS (OL):	
PHELITE :		HYPEF	RSTHENE :	27.01	F	LUORAPA	TITE: .1	1	CALCITE	I		# FAYAL	.ITE(OL):	
LIOPHILITE:	1.7	OLIV	INE :	1.					****: TOT	AL*: 99.7	3			
**** NORMATI	E MINERAL	_S R	ATIOS AND	INDEXES	*****		44 05			2455	<b>-</b> 0.			
TT ODTU- OLAC	7.0	7.4	23.7	COVETAL I	TZATION	TAIDEV	41.09	TO	TAL & PELUSI	PARS I	1 07			
TZ-ORTH-PLAG	7.8	3.4 8	38.8	DIFFEREN	TIATION	INDEX:	24.88	PL	AGIOCLASE II	NDEX :	56			
RITTMAN VALUES	3 *													
**** MOLE NUME	BERS ****	##							***	** RITMAN	VALUE	5 *****		
1 .89	FE+21	123	NA L	087	_ P _ 1		S :	0	SI	: 53.48	CA	: 2	AN :	
: .304 +3: .031	MG :	.18	K :	.007	MN : CO2 :	.003	H20+:	.0001	AL FM	: 13.93	ALK K	: 4.4		
	Titanaa 1								(DEGGASDEAL)					
	NAZO 1 2.	71 K2	D: .34	MGO I	7.25	r IHE A	BITTBI VUL	LANICS	(DESCARRENO	19/3/	*****			
**** GAINS ANI	17 19 - 4											Secretary and the second		
#### BAINS ANI IIS SAMPLE   1 IRMAL VALUE IN OR LOSS	3.	54	03		1.67	PR	IORITY :							

JENSEN MAGMATIC SERIES : THOLEIITIC JENSEN LITHONAME : THOLEIITIC BASALT

CLIENT: LAPAUSE BURFACE DATA FILE: LAPAUSE 08:54:50FM 16 MAY 87

# RIT' ****** SI * AL : FE+3: ***** THIS !	TMAN VALUE * MOLE NUM * 887 .3 .032 * SAINS AN SAMPLE VALUE OR LOSS * LITHONAM	BERS *** FE+2: MG : CA : D LOSSES NAZO : 2	. 126 . 185 . 158 By COM . 24 K	TI PARISON 20:	: .00° : .00° TD THE 25 MG	5 MN 9 CO2 AVERAGES 0: 7.45 5.58 1.81	: .003 : 0	H2O+: H2O-: TIBI VOLCA	.0001	SI :	13.76 15.02	ALK K		AN :	
# RIT ##### SI # AL : FE+3: ###### THIS ! NORMA!	* MOLE NUM .887 .3 .032 * BAINS AN SAMPLE L VALUE	BERS ### FE+2: MG : CA : D LOSSES NA20 : 2	.126 .185 .158 BY COMF	NA K TI PARISON 20;	005 : .009 TO THE 25 MB(	5 MN 9 CO2 AVERAGES 0 : 7.45	: .003 : 0	H2O+: H2O-: TIBI VOLCA	.0001	AL : FM :	53.32 13.76 15.02	ALK K	: 2	AN :	
# RIT	* MOLE NUM .887	BERS ### FE+2: MG :	.126	NA K	.00	5 MN	: .003	H20+:	.0001	AL :	53.32 13.76	ALK	: 2	AN :	
RTZ-G	* MOLE NUM	BERS ###			07	2 P	10.		0					AN :	
			30 1	2111	1										
		2.8	36.9		CRYS	R_INDEXTALLIZATIO			TOTA	AL % FELDSPA AL % PLAGIOC BIOCLASE IND	LASES: 4	9.9			
	* NORMATI	UE MINER	1	Carl Carl	AND IND	× *				***** TOTAL	*: .99.91			100 (100 / 10	
NEPHE	LITE :		DIOF	SIDE	1 10.4	48		t		ZIRCON	:		* FORST * FAYAL	ERS(OL): ITE(OL):	
DRTHO	CLASE : 1 HITE : 3	1.46 8.97	K-MS	BILICAT BILICATI ASTONI	E'1	A	ILMENITE SPHENE PEROVSKITE	1 1.37		THENARDITE PYRITE CHROMITE			# ENSTA	CTI /UDY .	15.6
WART:		E MINERA 5.79	ACM1		1		MAGNETITE HEMATITE			HALITE FLUORITE	1		* WOLLA	STO(DP): TIT(DP):	
20/N	A20+K20 :	1		134					MAF	TELSIC INDEX	: 21.94		MARCOTTE		
***** A-F-M	* OXIDES - : : : : :	- RATIOS 11.56 4	AND IND 53.85	34.59 96	****	FEO(TOT	AL)/MGO:	1.52	ALKAL ALKAL	INITY RATIO	: NA :10.04	SOLID	BASICITY IFICATION	INDEX :	35
102 1A20	: 53.32 : 2.24	¥ AL203 K20	1 15.29 25	FI	2031 : 102 1	2.52 .72	FEO : 9.	03 MN	0 : 7	.45 CA .24	0 1 8.0	36		100	- / /
	# NORMAL 17	* *								* * * * *					
EO (	7.21	T102	0.70	H.	20.P: 20.M:		AU : BA :	CR : CU :	2:	MD : NI :		V I			
AL203	: 51.60 : 14.80 : 12.20	NA20	8.57 2.17	L	10 : 0	1.80	S : AG : AS :	BI : CL :		F: HG:		PB: SN:		ZN :	
ESCR	IPTION :	A WILL J. CORP.						4							
	AGE :	GEOL.P			OL. EN	JTM ZONE : VIRONMENT	uTM:	SQ. IDENT.		UTM EAST :	ROCK 1	TYPE :	RO		
	RI LAPAUSE	E DATA *	YEAR I	987	REFERE	ENCE : LAP	AUSE	NTS	SHEET :		LONG. 1		SAMPLE	NO :	
AUTHOR	* DEEEDENG														

CLIENT : LAPAUSE SURFACE DATA FILE : LAPAUSE 08:55:28PM 16 MAY 87

DISCLAIMER : THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT MAY ARISE FROM THE USE OF THESE DATA. \*\*\*\*\* REFERENCE DATA \*\*\*\*\* **RECORD NO.: 31604** AUTHOR: LAPAUSE YEAR 1 1987 REFERENCE | LAPAUSE SAMPLE NO : STEROGE PROVINCE 1 TOWNSHIP ... NTS SHEET 1. LONG. : LAT. : UTM ZONE : UTM SQ. IDENT.: UTM EAST : UTM NORTH : GEOL. AGE : GEOL, PROV. : GEOL, ENVIRONMENT : ROCK TYPE : ROCK NAME : CONTEXT : MAGMATIC SERIES : STRATIGRAPHY : SPEC. GRAVITY : DESCRIPTION : \*\*\*\*\* ORIGINAL OXIDES AND TRACE ELEMENTS \*\*\*\*\* SIO2 : 62.50 CAO : 2.38 MNO : 0.04 SI BI : FI PB : ZN: AL203: 18.80 NA20 : 9.92 LOI : 2.80 AG : CL : HG : SN: FE203: 2.86 K20 : 0.47 CO2 AS ... CO. LI : SR : FEO 1 TI02 1 0.36 H20.P: V : AU : CR I MD : MGO : 1.17 P205 1 0.12 H20.MI BA : CU I NI : \*\*\*\*\*\* NORMALIZED DXIDES (PYRITE REMOVED IE SULFUR, IRON AS 20% FE203 AND 80% FEQ. DRY. IDTAL=100%) \*\*\*\*\*\*

SIO2: 63.52 AL203: 19.11 FE203: .58 FE0 : 2.09
NA20: 10.08 K20: .48 TIO2: .37 P205: .12 MGO 1 1.19 CAO 1 2.42 MNO : .04

\*\*\*\*\* OXIDES -- RATIOS AND INDEXES \*\*\*\*\* : 73.23 18.52 FEO(TOTAL)/MGO: 2.19 8.25 ALKALINITY RATIO : NA BASICITY INDEX : 4.48 NA20-K20-SI02 : 14 K20/NA20 : .......05\_ ALKALI INDEX ....:4.55 SOLIDIFICATION INDEX : 8.29 K20/NA20+K20 1 .05 FELSIC INDEX : 81.36 HASHIMOTO INDEX : 11.79 MAFIC INDEX 169.17 MARCOTTE INDEX : -4.05

\*\*\*\*\* NORMATIVE MINERALS -- LISTING \*\*\*\*\* MAGNETITE : .84 ACMITE HALITE \* WOLLASTO (DP): 2.39 2 CORUNDUM CA-SILICATE : HEMATITE FLUORITE \* ENSTATIT(DP): 1.19 ORTHOCLASE 1 2.82 NA-MSILICATE: ILMENITE \* THENARDITE : # FERROSIL(DP): 1.14 ALBITE 1 79.41 K-MSILICATE : SPHENE PYRITE \* ENSTATIT(HP): ANORTHITE 1 5.46 WOLLASTONITE: PEROVSKITE : CHROMITE # FERROSIL (HP): LEUCITE DIOPSIDE : 4.73 RUTILE ZIRCON \* FORSTERS(OL): 1.23 2 NEPHELITE : 3.19 HYPERSTHENE : FLUORAPATITE: CALCITE \* FAYALITE(OL): KALIOPHILITE: DLIVINE : \*\*\*\*\*: TOTAL\*: 99.77

\*\*\*\*\* NORMATIVE MINERALS -- RATIDS AND INDEXES \*\*\*\*\*\* OR - AB - AN : 3.2 90.6 4.2 COLDR INDEX 8.8 TOTAL % FELDSPARS : 7.69 2 QRTZ-ORTH-PLAG : 0 3.2 96.8 CRYSTALLIZATION INDEX: 9.26 TOTAL % PLAGIOCLASES: 4.87 DIFFERENTIATION INDEX: 85.42 PLAGIOCLASE INDEX :

\* RITTMAN VALUES \* \*\*\*\*\* MOLE NUMBERS \*\*\*\*\* \*\*\*\*\* RITMAN VALUES \*\*\*\*\* SI 1 1.057 FE+2: .029 SI : .63.52 CA. : .03 AL : .375 MG : K : . 01 MN : .001 H20+: .0001 AL : 17.19 ALK : 15.6 FM : 2.4 FE+3: .007 CA : .043 TI : .005 CO2 : 0 H20-: .0001 K : .03

: (

12 on US lepiti

\*\*\*\*\* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) \*\*\*\*\*\* THIS SAMPLE NAZO : 10.08 K20: .48 M60 : 1.19 NORMAL\_VALUE 4.55 87 2.4 GAIN OR LOSS 5.51 -,4 -1.35 PRIORITY :

\*\*\*\*\* LITHONAMES (IF VOLCANIC ROCK) \*\*\*\*\*\* MCDONALD-KATSURA MAGMATIC BERIES: ALKALINE TYPE & FIELD NAME : IRVINE-BARAGAR MAGMATIC SERIES ROCK NAME BY SID2 : DAEITE BARAGAR : LITHONAME : \_\_\_\_\_ JENSEN MAGMATIC SERIES JENSEN LITHONAME : RHYOLITE : CALC-ALKALINE

CLIENT : LAPAUSE SURFACE DATA FILE : LAPAUSE 08:56:06PM 16 MAY 87 DISCLAIMER : THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT MAY ARISE FROM THE USE OF THESE DATA. \*\*\*\*\* REFERENCE DATA \*\*\*\*\* RECORD NO.: 31605 YEAR : 1987 REFERENCE : LAPAUSE AUTHOR: LAPAUSE SAMPLE NO : #2200#8 PROVINCE : TOWNSHIP NTS SHEET : LONG. : LAT. : UTM ZONE : UTM SQ. IDENT .: UTM NORTH : UTM EAST : GEOL. AGE : GEOL. PROV. : GEOL. ENVIRONMENT : ROCK TYPE : ROCK NAME : CONTEXT : STRATIGRAPHY ... MAGMATIC SERIES . SPEC. GRAVITY : DESCRIPTION & \*\*\*\*\* ORIGINAL DYIDES AND TRACE FI FIENTS \*\*\*\*\* 5102 : 68.00 CAO : 2.81 MND : 0.04 S : BI : F : PR : 7N : AL203: 15.80 NA20 : 6.53 LOI : 2.70 AG : CL : HG : SN: FE203: 2.84 K20 : 1.44 CD2 1 AS .: .CO. : ... SR : LI : FEO : TI02 : 0.32 H20.P: V : AU : CR : NO I P205 1 0.15 7 MGO : 1.45 H20. M: BA : CU: NI t W : \*\*\*\*\*\* NORMALIZED OXIDES (PYRITE REMOVED IF SH.FUR, IRON AS 20% FE203 AND 80% FED, DRY, TOTAL=100%) \*\*\*\*\*\* SIG2 : 68.58 AL203: 15.74 FE203: 57 NA20 : 6.59 K20 : 1.45 TIO2 : .32 FEO : 2.06 MGO : 1.46 CAO : 2.83 P205 : .15 MND : .04 \*\*\*\*\* OXIDES -- RATIOS AND INDEXES \*\*\*\*\*\* : 66.28 21.68 12.04 FEO(TOTAL)/MGO: 1.76 ALKALINITY RATIO : NA BASICITY INDEX : 4.78 NA20-K20-SI02 : 9 .... K20/NA20 : .22 ALKALI INDEX : 18.03 SOLIDIFICATION INDEX : 12.09 K20/NA20+K20 1 .18 FELSIC INDEX : 73.97 HASHIMOTO INDEX : 23.6 MAFIC INDEX :64.3 MARCOTTE INDEX : -2.15 \*\*\*\*\* NORMATIVE MINERALS -- LISTING \*\*\*\*\* : 16.33 ACMITE : MAGNETITE : .82 HALITE # WOLLASTO (DP): 1.43 CA-SILICATE 1 CORLINDUM HEMATITE : FLUORITE : \* ENSTATIT(DP): \_\_.77 ORTHOCLASE 8.58 NA-MBILICATE: ILMENITE : THENARDITE : # FERROSIL (DP): ALBITE 1 55.72 K-MSILICATE : \* ENSTATIT(HP): 2.86 SPHENE PYRITE ANDRIHITE 4 9 A2 PEROVSKITE ... WOLLASTONITE CHROMITE \* FERROSIL(HP): 2.24 LEUCITE DIOPSIDE : 2.82 \* FORSTERS(OL): 2 RUTILE ZIRCON NEPHELITE : HYPERSTHENE : 5.11 \* FAYALITE (OL): FLUORAPATITE: CALCITE . 11 2 OLIVINE \_\*\*\*\*\*:TOTAL\*: 99.72 \*\*\*\*\*\* NORMATIVE MINERALS -- RATIOS AND INDEXES \*\*\*\*\* OR - AB - AN 1 11.6 75.4 13 COLOR INDEX : 9.36 TOTAL % FELDSPARS : 3.92 QRTZ-ORTH-PLAG: 18.1 9.5 72.4 CRYSTALLIZATION INDEX: 13.29 TOTAL % PLAGIOCLASES: 5.34 DIFFERENTIATION INDEX: PLAGIOCLASE INDEX : 64.3 \* RITTMAN VALUES \* \*\*\*\*\* MOLE NUMBERS \*\*\*\*\* \*\*\*\*\* RITMAN VALUES \*\*\*\*\* FE+21 .029 SI : 1.141 NA I . 213 P . . . . . 002 SI : 68.58 CA : 1 AN : AL : .313 MG : .036 K : .031 MN : .001 H20+: .0001 AL : 14.34 ALK : 11.33 FE+3: .007 CA : . 05 TI: .004 CO2 : H20-: .0001 FM : 2.94 K : .12 \*\*\*\*\*\* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) \*\*\*\*\*\* THIS SAMPLE NA20 : 6.59 K20: 1.45 MGO: 1.46 NORMAL VALUE 1.25 4.7 1.34 GAIN OR LOSS 1.89 -.06 PRIORITY : \*\*\*\*\* LITHONAMES (IF VOLCANIC ROCK) \*\*\*\*\*

TYPE & FIELD NAME :

ROCK NAME BY SID2 : RHYODACITE

JENSEN LITHONAME : RHYOLITE

BARAGAR LITHONAME :

MCDONALD-KATBURA MAGMATIC BERIES! BUBALKALINE

IRVINE-BARABAR MACHATIC SERIES

: CALC-ALKALINE

JENSEN MAGMATIC SERIES

CLIENT: LAPAUSE SURFACE DATA FILE: LAPAUSE 08:56:44PM 16 MAY 87

LIENT : LAPAUS ISCLAIMER : TI	HE DWNER (	OF THE PI	ROGRAM IS	ILE : LA	PONSIBLE FO	OR ANY PR	OBLEMS (	DR ERRORS	THAT MAY	ARISE FF	OM THE I	56:44PM USE OF TH	ESE DA	MAY 87 TA.
**** REFEREN UTHOR: LAPAUS ROVINCE : EDL.AGE :	ICE DATA **	YEAR : 1	787 A	EFEMENCE	i LAPAUSE		NTS	SHEET :		LONG. :		RECOR SAMPLE N	D NO.:	31606
EOL.AGE :	GEOL.PI	ROV. :	GEOL	UTM . ENVIRO	ZONE : ONMENT :	UTM SQ	. IDENT.	: UT	M EAST :	ROCK 1	UTI	M NORTH :	NAME	:
ESCRIPTION 1		ST	RATIORAPH	V .	New Year and the	MAGM	ATIC SE	RIES	SPEC.	GRAVITY :	10			
DCRIFTION .				14.0				100						
**** DRIGINA														
02 : 50.10		9.42			S :				F :		PB:		ZN :	
203: 17.10		1.50	C03	1 2.90	AG:		CL:		HG:		SN :			
20 10 10	1102	0.55	H20	P. 198	AU I	MINISTER - ATT	CR I	10.	MO :		V :	1919		
0 1 30 1 7.69	P205	0.05	H20.	Hi	BA :		CU:		NI 1		With			
1100000					* * CAL	CULAT	ION	S * * * *		* * * * :	* * *			
**** NORMAL I	ZED OXIDE	B (PYRIT	E REMOVED	IF SULF	UR, IRON A	5_20% FE2	03. AND	BOX FED.	DRY, TOTA	L=100%). d	****	444	1.39.1	153
02 1 52.14 20 1 1.56	K20	.22	1102	5: 2.1	P205	: .05	MN	0 1 .1	9	10 1 1 7.		125 3		
**** OXIDES	RATIOS	AND IND	EXES **** 41.13	*** F										18.57
20-K20-S102 0/NA20+K20	3	. 0	97		K20/N	A20 :	. 14	ALKALI	INDEX	:12.36_	SOLIDIF	ICATION 1	NDEX_1	41.58
O/NA20+K <b>20</b>	. 12							MAFIC	SIC INDEX	: 15.37	HA: M	ARCOTTE 1	NDEX :	<b>41.98</b> 01
**** NORMATI		S LI	STING ***	***										
	5.76	ACMI	TE :		MAGNI	ETITE :	3.04	HA	LITE	1		* WOLLAST	(DP):	3.08 1.84
RUNDUM	100	NO-M	IL TCATE	The sales of	HEMA TI MEI	NITE :	1.08	TH	ENARDITE	•	40.00	# FERROSI	(L (DP):	1.07
ORUNDUM RTHOCLASE BITE NORTHITE	13.2	K-MB	ILICATE :		SPHE			PY	RITE	1		* ENSTAT	T(HP):	1.07 18.08 10.49
ORTHITE	40.9	MOLL	ASTONITE	<b>外的主义证据</b>	PERO	VSKITE :		CH	ROMITE			* FERROS	(L(HP):	10.49
EUCITE :			SIDE :	6 28.57	RUTII	LE : RAPATITE:	04	ZI	RCON	:		* FORSTER	RS (DL):	
LIOPHILITE:					FLUU	RAPATITES	.04	ZI CA	**** TOTAL	*1.99.88		* LHIHET	EVOLT	
1.	1		INE											
**** NORMAT					3 *****	. 70	40	TOTAL	Y EEL DOD	NPC . #	70			
TZ-ORTH-PLAG	9.4	2.1	88.5	CRYSTALL	IZATION IN	DEX: 57.	54 . 49	TOTAL	% PLAGIO	CLASES: 5	4.1 76			
RITTMAN VALU		11 10 10 10	1,00 (1,01)											
**** MOLE NU				S. Hart .						RITMAN				
	FF+21	4.105											_ AN .:	
: .349	MG :			.005		.003	H20+:	.0001	AL :	16.02	ALK:	2.56		
+3: .026	CA :	. 175	TI :		CO2 :	and the later and the same			-		** - ** - **			
**** GATNO A	ND LOBBEB	BY COMP	ARISON TO	THE AVE	ERAGES OF T	HE ABITIB	I VOLCA	NICS (DES	CARREAUX	1973) *	****			
IS SAMPLE	1 14 14 14 14 14 14 14 14 14 14 14 14 14													
			111 886 31											
HHHH GAINS A HIS SAMPLE DRMAL VALUE AIN OR LOSS		. 49	1	A STATE OF THE PARTY OF THE PAR	1.89									
AIN OR LOSS	-1	. 49 UOL CANTO	1		1.89	PRIORIT	Υ:							
AIN OR LOSS	-1 MES (IF JRA MAGMAT	.49 VOLCANIC IC BERIE	ROCK) **	ALINE	1.89	PRIORIT	Υ:							
IN OR LOSS	-1 MES (IF JRA MAGMAT	.49 VOLCANIC IC BERIE	ROCK) **	ALINE	1.89	PRIORIT	Υ:					17. or V91	<b>10</b>	

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								OR ERROR		HITTOE II				
**** REFERENCE	DATA ##	***	100									SAMPLE	RD NO.:	
THOR: LAPAUSE	Y	EAR 1.1	787	REFEREN	CE & LAF	PAUSE						BAMPLE		STATE OF THE PARTY.
OVINCE :	TOWNSHI	P. 1						SHEE! !	TM EAST :	LUNG. 1		LP	11. 3	
							M SQ. IDENT	.: U	IM EAST :		U	IM NURTH	E STANFE	
DL.AGE :			GEO			:				ROCK	TYPE :	ROC	K NAME	
NTEXT :			TRATIGRAPI	1Y .			MAGMATIC S	ERIES :	SPEC.	GRAVITY :				
SCRIPTION :						100								
**** ORIGINAL	DX IDEB	ND TRAC	E ELEMEN	TB	##									- 100 110 1 100
02 : 54.00	CAO I	6.54	MNO	1 0.3	20	S : AG :	BI	:	F :		PB:		ZN:	
203: 13.80	NA20 :	2.49	LOI	: 1.	20	AG :	CL	:	HG :		SN:			
207. 1/ 00	K20 :	0.015	C02	-1		AS I			LI		SR :			10,000,000
n :	TIDE	1.25	H20	.P.		AU :	CR	:	MO :		'V 1			
203: 15.80 0 : 0 : 3.54	P205	0.07	H20	-Ma	1	BA :	CU		NI t		W z			
	7- Mg.	1 1 2 1 12		S. Sandy	Mary .					a samulaine				
	* *	* * * 1	* * * *	* * *	* * * C	ALCUL	ATION	S * * *	* * * *	* * * *	* * * *	+		
**** NORMALIZE	ED OXIDES	(PYRII	TE REMOVE	D. IF SU	LEUR. II	RON AS 202	FE203 AND	80% FED.	DRY. TOTA	L=100%)	******			
02 : 55.47 20 : 2.56	AL 2031	14217	FE2	03: 333	45	FEO : 12	2.42 M	GO : 3.	64 CA	0 1 6.	72	1 40	You	S. 1504. 3
20 . 2.56	K20	02	710	2	2B	P205 :	.07 M	NO :	21				4 4 4	
2.00		6 W. A-W			The state of the	, 2.00						1.1		
**** OXIDES				***										
F-M :	11 40	71 84	14 40		FEO (TO	TAL)/MGO :	4.27	ALKAL T	NITY RATIO	· NA		BASICITY	INDEX :	21.05
20-K20-SI02 :	11.00	/1.04	96.				.01	ALKAL T	INDEX					
0/NA20+K20 1			Caralla Tana	Contract	STATE OF	NZU/ NHZU :	.01		LSIC INDEX					
U/NA2U+K2U 1	.01	4.5%	Sec. 3. 4.1	4 45 40 1	34344	est						MARCOTTE		
	12 1 1 1	4 1 5		Sim to	100			UHF I	C INDEX	161.54	2	THREGITE	INDEX :	-1.10
Total Commence		E STEEL SELECTION			V-0.7						(after the )			
**** NORMATIVE														0.70
ARTZ : 13	5.84	ACM:	ITE	:			: 4.99					* WOLLAS		
RUNDUM :		CA-5	SILICATE	1		HEMATITE			LUDRITE			ENSTA	11110611	81
THOCLASE 1	.09	NA-1	<b>MSILICATE</b>	1		ILMENITE	: 2.43		HENARDITE	:		* FERROS	SIL(DP):	1.63
BITE : 2:	1.64	K-M	SILICATE	E		SPHENE	:	F	YRITE	:		* ENSTA	111 (HP):	8.24
ORTHITE 1 2	7.15	HOLI	LASTONITE	1	State and the	PEROVSKI	TE :		HROMITE	. :		* FERRUS	SIL (HP):	16.59
RUNDUM: THOCLASE : 2: BITE : 2: ORTHITE : 2: UCITE :		DIO	PSIDE	: 4.83	5	RUTILE	:	2	IRCON	:		* FORST	ERS(OL):	
PHELITE :		HYPE	FRSTHENE	. 24.93		FLUORAPA"	TITE: .05		CHROMITE CIRCON CALCITE	1		* FAYAL	ITE(OL):	
LIOPHILITE:		OLI	VINE	:					****: TOTAL	*: 99.85				
	1	if he			AND LEE									
**** NORMATI	IE MYNEDA	V 0	DATTOR AN	D INDEX	FS ****	**								
- AR - AN	. 2	44 7	55.5	COLOR	INDEX		37.08	TOTAL	% FELDSPA	RS : 8	. 88			Landard Co.
TZ-ORTH-PLAG	22 1	1	77 0	CRYSTA	I I TTATT	ON THREY.	34 67	TOTAL	7 PLAGIDO	LASES: 8	. 79			
12-UNIN-FERD	, 22.1		//.0	DIECEE	ENTIATI	ON INDEX.	21 73	PLAGI	OCI ASE IN	FY :	56			
				DIFFER	CHITAIT	DIA TIADEX.	21.70	, LHO	OCCHOC INC		-			
RITTMAN VALUES	0 .			1		material material state								
**** MOLE NUM					3 .				****	RITMAN	UALLIES	*****		
			사용한 성환당	407	5.00 CA		S :	^	CI -	SE 47	CA	. 1	AN	
: .923			NA 1	- DBS	ALL PART		U201	0001	AL :	10.75	AL V	3.86		
: .278	MG :			0		: .003	HZU+:	.0001				: 0		
+3: .043	CA :	.12	TI :	.016	C02	: 0	H20-:							
				T T T T T T T T T T T T T T T T T T T	MARKET				AND THE SHAPE OF					
	D LDSSEE	BY COM	PARISON T	O THE P	VERABES	OF THE A	BILIBI AOFF	ANICE CDE	SCARREAUX,	19/3) *	****			
**** GAINS AND	MACH	36 K	201	MGO	1 3.64									
**** GAINS AN	WHZU I Z	307	4		4.8									
**** GAINS AN	10000000000000000000000000000000000000			/	-1.22	PR	IORITY:							
**** GAINS AN	3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		43	١.										
**** GAINS AN	3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		43	,										
**** GAINS AND IS SAMPLE STRINGL VALUE OIN OR LOSS	ES (IF )	.97 ZOLCANII	C ROCK) *	****						in passenting				Line percentage at
**** GAINS AND IS SAMPLE STRINGL VALUE OIN OR LOSS	ES (IF )	.97 ZOLCANII	C ROCK) *	****		YPE & FIF	LD NAME 1			in received				
**** GAINS AND IS SAMPLE RMAL VALUE	ES (IF )	.97 ZOLCANII	C ROCK) *	****		YPE & FIE	LD NAME : BY SID2 : 4	NDESITE	10.15	en e <del>gere</del> nni i i				List gent interest of

***** REFERENC AUTHOR: LAPAUSE PROVINCE:	E DATA *** YE	*** AR : 1987	REFE	RENCE , L	_APAUS	E	N	TS SHEE	Т.:		LONG.		Sf	RECORI MPLE N LAT	NO.:	31608
CONTEXT:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	STRATIG	ROPHY .	8 3 4 6 7 7		Silber	AUMA IIL	SERIES	la di maranin	BEEL.	-BRAVII	¥ \$				- 11 14 11
DESCRIPTION :			100 mg	# 18	1,150		- 1	1 1 1 A			1					
***** ORIGINAL	DXIDES AN	D TRACE FI E	MENTS			0.69	كعماء المتلك					48.11.2				
SI02 : 41.80	CAO :	7.38	MNO :	0.20	S	1 1	В	I :		F :		PB	1		ZN :	
AL203: 15.00	NA20 :	2.28	LOI :	3.40	AG	:	CI			HG :		SN	2			
FE203: 12.30	K20 ;	20.0	CO2 :	War and the second	AS			J		LILL		SR	-			0.41.014
FE203: 12.30 FE0 : MGO : 7.23	7102 a P205 a	0.68	H20 H H20 M		BA	•	C	7 : 5 :		MO :		W				
****** NORMALI SIO2 : 48.63 NA20 : 2.65  ****** OXIDES A-F-M NA20-K20-SIO2 K20/NA20+K20  ****** NORMATI GUARTZ : CORLINDUM ORTHOCLASE : ALBITE : ANORTHITE : LEUCITE : KALIOPHILITE:	AL203: K20  RATIOS A 11.05 5  .01  VE MINERALS	17.45 03 ND INDEXES 4.27 34.6 0 5 LISTING ACMITE CA-SILIC NA-MSILIC K-MSILIC	FE2036 T102 1	7,86 ; 79 FED (*	FEO P20	/MGO: NAZO: NETITE ATITE ENITE	1.53 .01	MGO : MNO : AL AL	8.41 .23 .KALIN: .KALI: FELS MAFIC HAL FLU THE	TY RATI INDEX SIC INDE INDEX INDEX INDEX INDEX INDEX	AD : 1.2 :1.12 X : 23. :61.0	8.59 3 SOL. 78	BAS IDIFIC HASH MAR	ICITY I ATION I IMOTO I COTTE I WOLLAST ENSTATI FERROSI ENSTATI	NDEX: NDEX: NDEX: NDEX: T(DP): T(DP): T(HP):	21.66 35.09 42.89 49 2.79 1.53 1.15 12.09
****** NORMAT: OR - AB - AN ORTZ-ORTH-PLAG  * RITTMAN VALUE	: O	.3 99.7														
***** MOLE NUI	ARERS SARE	- CONTRACT	Mark.	5 75 60 7						****	* RITMA	N VALU	ES ***	***		
CT . QOQ .	EEA24	147 NO	1 .0	86 P	1	001	S	<b>1</b>		SI .	.48.63	CA			_AN z	
AL : .342 FE+3: .036	MG : . CA : .	209 K 153 TI	: .0	01 M	N :	.003	H20+ H20-	: .000	01	AL : FM :	15.7 16.96	K	.K :	0		
***** GAINS AND THIS SAMPLE NORMAL VALUE GAIN OR LOSS	un incere p	V POMPARTED	N CTO THE	E DUFRAR	FR OF	THE ART	TIRI UN	LCANTES	(DES	CARREAUX	, 1973)	****	*			
				_												
****** LITHONAL MCDONALD-KATSU IRVINE-BARAGAR	RA MAGMATIC MAGMATIC B	BERTES SU ERTES	BALKAL I	NE 40	TYPE ROCK BARAG	& FIELD NAME BY IAR_LITH	NAME : SIO2 :	BASALT				7	¥7.4	5 n		a conse
								M1101 F 5		DADAL T						
JENSEN MAGMATI	C SERIES	: TH	OLEIITI	C	JENSE	N LITH	INAME :	INULEI	HILL	BASALI						

	DATA *****								RD NO. 1 3	
JTHOR: LAPAUSE	YEAR : 1	987 REFE	ERENCE   LAPA	USE				SAMPLE	NO :	200
ROVINCE :	TOWNSHIP 1	constant or trace is an extraction to the extraction of the extrac				SHEET 1	LONG	LA		
			UTM ZONE :		SO.IDENT.	: UTM EAST :				
OL.AGE:	GEOL.PROV. :	GEOL. F	ENVIRONMENT :				ROCK TYPE		K NAME :	
NTEXT :	ST ST	RATIGRAPHY :	2 30 34 34 36 3	MAC	MATIC SE	RIES: SPEC.	GRAVITY			and the second second
SCRIPTION :									1	3 12
**** DRIGINAL	DXIDES AND TRAC	E ELEMENTS			Section 1					Sec. 25 . 27
	CAO : 10.30	MNO +	0.21 5	1	BI :	Fı	PB		ZN s	
		int :		G :	CL :	HG:	SN			
203: 12.00	NA20 : 1.53 K20 : 0.18		4	8.		Limin - Lini				
	TI02 1 0.69	H20 P.		U		MO :			1000	98.6
60 : 6.47	P205 : 0.11	H20.M:		A	CU I	NI i	W			
	****	* * * * *			TIONS	5 * * * * * * * *	* * * * * * *	*		
						DAY 550 DEV TOT	AL 400W)	_		
135 NURMAL 17E	A DOTE TO A	F REMUVED IF	SULFUR IRO	IN AS 20% FE	ZUS ANU	BOX FED, DRY, TOT	HL=10U&1*****	<b>7</b>	43-29	Solly St. 15.
2D: 1.56	K20 i .18	TI02:		205	MN	6.58 C	HD : 10.46			
	- RATIOS AND IND		and the same of the same of the same of	100 40 Table 1 1 1 1	<u> </u>	mercine or to describe				
	6.9 57.44			L)/MGD :	1.67	ALKALINITY RATI	D : NA	BASICITY	INDEX : :	19.76
20-K20-SIG2 :		97				ALKALI INDEX				
)/NA20+K20 :		V 4 - 452	150000000000000000000000000000000000000	and the	1.5	FELSIC INDE				
		1			31		:63.05			
**** NORMATIVE	E MINERALS LI									
ARTZ : E	B. 97 ACMI	TE :	۲	IAGNETITE	: 3.53	HALITE	:	* WOLLAS	TO (DP):	6.69
RUNDUM	CA-S	IL ICATE :		EMATITE	1	FLUORITE		* ENSTAT	IT (DP):	3.56
THOCLASE : 1	1.08 NA-M	SILICATE:	A STATE OF T	LMENITE	: 1.33	THENARDITE	:	# FERROS	IL(DP):	2.9
BITE : 13	3.16 K-MS	ILICATE :		PHENE	1	PYRITE	1	* ENSTAT	IT(HP):	12.81
ORTHITE : 3	35.2 WOLL	ASTONITE:	100	EROVSKITE		CHROMITE	. 1	* FERROS	IL (HP):	10.44
UCITE :		SIDE : 13		RUTILE	2	ZIRCON	:	* FURSIE	RS (UL):	
PHELITE :	HYPE	RSTHENE : 23	3.26 F	LUORAPATITE	.08	CALCITE	:	* FAYALI	TE(OL):	
IOPHILITE:	OLIV	INE:				*******TOTA	L*: .99.78			
	9.									
	VE MINERAL'S F					TOTAL % FELDSP	ADC - D 44			
	: 15.4 1.8	82.8 CRY	YSTALLIZATION FFERENTIATION	INDEX: DI	1.66	PLAGIOCLASE IN	LLASES: 6.36	•		
		DIF	*FERENTIALION	INDEX:	14.24	LEMBIOCEMSE IN	DEX : /.	,		
Z-ORTH-PLAG:										
TZ-ORTH-PLAG :	S * BERS *****			344			* RITMAN VALUE	S *****		
TZ-ORTH-PLAG : RITTMAN VALUES **** MOLE NUME	S * BERS *****	NA :	.05 P	.002	S			: 3 .	AN	
TZ-ORTH-PLAG : RITTMAN VALUES **** MOLE NUME : #887	S * BERS *****	NA : .C		.003	H2O+:			: 3 . : 2.52	_AN	
RITTMAN VALUES ***** MOLE NUME : #887 : 307	S * BERS ***** FE+2: .122	K : .(	.05 P : 004 MN : 009 CG2 :	.003	H2O+:	0 SI : .0001 AL : .0001 FM :	53.29 CA 14.09 ALH 13.28 K	:3 : 2.52 : .07	AN	
RITTMAN VALUES **** MOLE NUMI : .887 : .307 +3: .031 **** GAINS ANI	S * BERS *****  FE+2: .122  MG : .163 CA : .187  D LOSSES BY COMF	K : .(	004 MN : 009 CG2 :	.003 0	H20+: H20-:	0 SI : .0001 AL : .0001 FM :	53.29 CA 14.09 ALI 13.28 K	:3 : 2.52 : .07	AN I	
TZ-ORTH-PLAG: RITTMAN VALUES **** MOLE NUMI : .887 : .307 +3: .031 **** GAINS ANI	S * BERS *****  FE+2: .122  M6 : .163  CA : .187  D LOSSES BY COMF	K : .(	004 MN : 009 CG2 :	.003 0	H20+: H20-:	0 SI : .0001 AL : .0001 FM :	53.29 CA 14.09 ALI 13.28 K	:3 : 2.52 : .07	AN1	
TZ-ORTH-PLAG: RITTMAN VALUES **** MOLE NUME : .887 : .307 +3: .031 **** GAINS ANI IS SAMPLE RMAL VALUE	S * BERS *****  FE+2: .122  M6 : .163  CA : .187  D LOSSES BY COMF  NA20 : 1.56	K : .( TI : .( PARISON TO T) TO: .18 (	004 MN: 009 CO2: HE AVERAGES C	.003 0 F THE ABIT!	H2O+: H2O-: IBI VOLCA	0 SI : .0001 AL : .0001 FM :	53.29 CA 14.09 ALI 13.28 K	:3 : 2.52 : .07	.AN . 1	
RITTMAN VALUES **** MOLE NUME : .887 : .307 +3: .031 ***** GAINS ANI IS SAMPLE N	S * BERS *****  FE+2: .122  M6 : .163  CA : .187  D LOSSES BY COMF	K : .(	004 MN : 009 CG2 :	.003 0 F THE ABIT!	H2O+: H2O-: IBI VOLCA	0 SI : .0001 AL : .0001 FM :	53.29 CA 14.09 ALI 13.28 K	:3 : 2.52 : .07	AN I	
TZ-ORTH-PLAG:  RITTMAN VALUES  **** MOLE NUME: .887 : .307 +3: .031  **** GAINS ANI IS SAMPLE N  RMAL VALUE IN OR LOSS	S * BERS *****  FE+2: .122  M6 : .163  CA : .187  D LOSSES BY COMF  NA20 : 1.56	K : .( TI : .( PARISON TO T) 20: .18 : .35	004 MN: 009 CO2: HE AVERAGES C MGO: 6.58	.003 0 F THE ABIT!	H2O+: H2O-: IBI VOLCA	0 SI : .0001 AL : .0001 FM :	53.29 CA 14.09 ALI 13.28 K	:3 : 2.52 : .07	AN .	
RITTMAN VALUES **** MOLE NUME : .887 : .307 +3: .031  **** GAINS ANI IS SAMPLE NUME IN OR LOSS **** LITHONAME	S * BERS *****  FE+21 .122  MG : .163  CA : .187  D LOSSES BY COMP  NA20 : 1.56 .42  -1.66	K :	004 MN: 009 CG2: HE AVERAGES C MGO: 8.58	.003 0 F THE ABIT!	H2D+: H2O-: IBI VOLCA	0 SI : .0001 AL : .0001 FM :	53.29 CA 14.09 ALI 13.28 K	:3 : 2.52 : .07	AN .	

###### DRIGINAL OXIDES AND TRACE FIREMAN  SID2: 72.50	# 4 1 mm 1 1 mm	REFEREN	CE DA	TA ***	F# ##			¥ 74										RE	CORD NO. :	31610
STRAIT GRAPHY   PROMATIC SERIES   SPEC. GRAVITY	AUTHOR.	: LAPAUS	E	YE	IAR x 7	1987	RE	FERENCE	I LAP	AUSE		NITE	OUPET			1 CONTO		SAMPL	E NO 1	1
STRAIT GRAPHY   PROPRIET   SPEC. GRAVITY	PROVIN	LE I	1 (1)	MMSHIF	find them			11TM	ZONE .		HTM C	NIE O TOCKI	SHEET	STEM C	AGT .	LUND.	:	HITM MOOT	LiPH andr	
STRAILGRAPHY   PROPARIC SERIES   SPEC. GRAVITY	GEOL A	BE +	GE	nag in	1V +	r	SEOL.	ENUTED	NMENT	,	(317) 52	G . 115EN	• •	GIII G	HO1 I	RDCK	TYPE	· F	DCK NAME	
DESCRIPTION					P3.7	COATEM	MILION		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		MAG	MATIC S	SERIES_		SPEC.					
######################################	DESCRI	PTION :			- 5	100	1.15	0.42	100	1829										ž
######################################					2 11 14 14	1	1	A Section 1		1			1 9							
FECO: 196 K20 : 2.04 CD2 : AS : CD : LI : SR: FEO: 17102 : 0.31 M20/Pt A U : CR : MO : V : MMO : 1.12 P205 * 0.15 M20/H; AU : CR : MO : V : MMO : 1.12 P205 * 0.15 M20/H; AU : CR : MO : V : MMO : 1.12 P205 * 0.15 M20/H; AU : CR : MO : V : MMO : 1.12 P205 * 0.15 M20/H; AU : CR : MO : V : MMO : 1.12 P205 * 0.15 M20/H; BA: CU : NI : W :  ********************************					VD. TRAI	FIR	TENTE	WM###	F 100 No. 1	<u> </u>	me had a box	- 14	-		-	F-F-F-11-1-10-10-10-10-1				
FECO: 196 K20 : 2.04 CD2 : AS : CD : LI : SR: FEO: 17102 : 0.31 M20/Pt A U : CR : MO : V : MMO : 1.12 P205 * 0.15 M20/H; AU : CR : MO : V : MMO : 1.12 P205 * 0.15 M20/H; AU : CR : MO : V : MMO : 1.12 P205 * 0.15 M20/H; AU : CR : MO : V : MMO : 1.12 P205 * 0.15 M20/H; AU : CR : MO : V : MMO : 1.12 P205 * 0.15 M20/H; BA: CU : NI : W :  ********************************							1NO	1 0.02	2	SI		BI	:		F :		PB	:	ZN :	
FEO : 1.12 P205: 0.51 H20.H: PBA: CB: MO: V:  **********************************			N	A2U :	2.45	l.	.01	1 0.90	,	AG :		CL	:		HG :		SN			
****** NORMALIZED OXIDES (FYRITE REPOVED IS BLEUR, IRON AS 20% FEEDS, AND 80% FEED, DRY, IDIAL=100%) ******  \$102 * 72.51	FER .	1.70	<u>K</u>	102	0.31	<b>以根据</b>	ם חבו	1.52 340	R MC NEWS										-15-2	5
****** NORMALIZED OXIDES (FYRITE REPOVED IS BLEUR, IRON AS 20% FEEDS, AND 80% FEED, DRY, IDIAL=100%) ******  \$102 * 72.51	MGO :	1.12	P	205	0.15	(4)	120. M		1/4	BA									100	
SID2 * 72.51		647	- 1 V - 3E								ULA	TION	15 * *	* * *	* * *	* * * *	* * * *	*		after and the discount
SID2 * 72.51								1.												
******* OXIDES RATIOS AND INDEXES ******  AFF-M : 71.95 17.72 10.76 FED (TOTAL) / MSO : 1.57 ALKALINITY RATIO : NA BASICITY INDEX : 2.91 NA20-K20-SID2 : 7 3 51 K20/NA20 : .37 ALKALI INDEX : 27.24 SOLIDIFICATION INDEX : 10.58 FELSIC INDEX : 87.3 MAFIC INDEX : 61.64 HASHINOTO INDEX : 32.55 MAFIC INDEX : 21.05 MARCOTTE INDEX : -1.00 MARCOTTE	*****	NORMAL I	ZED O	XIDES	(PYRI	E REM	OVED	IF SULF	UR. IR	ON_AS	20% FE	203 ANI	BOX FE	D, DRY	. TOTA	L=100%)		*		10 57 Kitasa
******* OXIDES RATIOS AND INDEXES ******  AFF-M : 71.95 17.72 10.76 FED (TOTAL) / MSO : 1.57 ALKALINITY RATIO : NA BASICITY INDEX : 2.91 NA20-K20-SID2 : 7 3 51 K20/NA20 : .37 ALKALI INDEX : 27.24 SOLIDIFICATION INDEX : 10.58 FELSIC INDEX : 87.3 MAFIC INDEX : 61.64 HASHINOTO INDEX : 32.55 MAFIC INDEX : 21.05 MARCOTTE INDEX : -1.00 MARCOTTE	SI02 .	72.51	A	L2034	15.5	1975	E203	13	<b>经验</b>	FEO	1 1.41		TGD I	1.12	CA	U : 1	.09		Sales A	
******* OXIDES RATIOS AND INDEXES ******  ****** OXIDES RATIOS AND INDEXES *****  ******* OXIDES RATIOS AND INDEXES *****  ******* OXIDES RATIOS AND INDEXES ******  ******* OXIDES RATIOS AND INDEXES ******  *****************  **********	NHZU 1	D. 43		CL .	2.04	22	102	- 1	2.数据3	r <b>Z</b> UD	15	T.	MAIN I	.02						
A-F-M	*****	OXIDES	RA	TIOS /	AND IN	EXES :	****	*												
NAZO-K2O-SID2: 7 3 91 K2D/NAZO: 37 ALKALI INDEX : 27.24 SOLIDIFICATION INDEX : 10.8 K2D/NAZO+K2O : .27 FEISIC INDEX : 61.64 RACOTTE INDEX : 37.3 HASHIMTOT INDEX : 37.35 HASHI								F	EO (TOT	AL) /M	60 :	1.57	ALK	ALINITY	RATIO	: NA				
##### NORMATIVE MINERALS LISTING ######  QUARTZ : 28.59	NACO-K	20-0102		7	7	0			К	20/NA	20 :	37	ALK	ALI IND	EX.	:27.24	SOLI	DIFICATIO	N INDEX	10.8
##### NORMATIVE MINERALS LISTING ******  QUARTZ : 28.59	K20/NA	20+K20		27		5.000	5.5 0			16 4				FELSIC	INDEX	: 87.3	3	HASHIMOT	D INDEX	32.58
#***** NORMATIVE MINERALS LISTING ******  QUARTZ : 28.59						13.00		"话说!				1.3	Mr	AFIC IN	DEX	:61.64	1	MARCOTT	E INDEX	-1.01
QUARTZ : 28.59 ACMITE : MAGNETITE : .56 HALITE : * WOLLASTO(DP): CORUNDUM : 2.7 CA-SILICATE : HEMATITE : .58 THENARDITE : * ENSTATITOP): CORTHOCLASE : 12.05 NA-MSILICATE: ILMENITE : .58 THENARDITE : * FERROSIL (DP): ALBITE : 46.12 K-MSILICATE : SPHENE : PYRITE : * ENSTATIT (HP): 2.76 ANDRTHITE : 42 WOLLASTONITE: PEROVSKITE : CHROMITE : * FERROSIL (HP): 1.75 LEUCITE : DIOPSIDE : RUTILE : ZIRCON : * FORSTERS(OL): NEPHELITE : HYPERSTHENE : 4.58 FLUORAPATITE: .11 CALCITE : * FAYALITE(OL): KALIOPHILITE: OLIVINE : * * *******************************			400 5400			7.7775000	365.000	THEY SELE	10 May 12 11	E413.844			1				1 1 1 1 1 1 1			
CORINDUM: 2.7 CA-SILICATE: HEMATITE: FLUGRITE: * ENSTATITOP): ORTHOCLASE: 12.05. NA-MSILICATE: ILMENITE: .58 THENARDITE: * FERROSIL (DP): ALBITE: 46.12 K-MSILICATE: SPHENE: PYRITE: * ENSTATITOP): 2.78 ANDRHITE: 4.42 WOLLASTONITE: PEROVSKITE: CHROMITE: * FERROSIL (HP): 1.75 ANDRHITE: DIOPSIDE: RUTILE: ZIRCON: * FORSTERS(OL): NEPHELITE: HYPERSTHENE: 4.58 FLUGRAPATITE: .11 CALCITE: * FAVALITE(OL): NALIOPHILITE: OLIVINE: * **********************************										MACNE	TITE	. =		HAL TT	_			as similar	ACTO (DP)	
NEPHELITE : HYPERSTHENE : 4.58 FLUGRAPATITE: .11 CALCITE : * FAYALITE(OL): KALIOPHILITE: OLIVINE : ***********************************	CORLIND	I IM .	20.37		CA	STL TCA	TF .													
NEPHELITE : HYPERSTHENE : 4.58 FLUGRAPATITE: .11 CALCITE : * FAYALITE(OL): KALIOPHILITE: OLIVINE : ***********************************	DRTHOC	LASE :	12.05	1 je	NA-	SILIC	ATE		的分类者 斯勒拉拉											
NEPHELITE : HYPERSTHENE : 4.58 FLUGRAPATITE: .11 CALCITE : * FAYALITE(OL): KALIOPHILITE: OLIVINE : ***********************************	ALBITE	1	46.12	100	K-M	BILICA	TE I													
NEPHELITE : HYPERSTHENE : 4.58 FLUDRAPATITE: .11 CALCITE : * FAYALITE(OL): KALIOPHILITE: OLIVINE : ***********************************	ANORTH	ITE :	4.42	. 4	WOL	ASTON	ITE	100	The second second					CHROM	ITE			* FERE	OSIL (HP)	1.79.
**************************************														ZIRCO	IN .	:		* FORS	TERS (OL)	
****** NORMATIVE MINERALS RATIOS AND INDEXES ******  OR - AB - AN : 19.3 73.7 7.1 COLOR INDEX : 5.72 TOTAL % FELDSPARS : 2.59  ORTZ-ORTH-PLAG : 31.4 13.2 55.4 CRYSTALLIZATION INDEX: 6.37 TOTAL % PLAGIOCLASES: 0.54  DIFFERENTIATION INDEX: 60.87 PLAGIOCLASE INDEX : 9  ******** MOLE NUMBERS ******  ***********************  SI : 1.207 FE+2: .02 NA : .176 P : .002 S : 0 SI : 72.51 CA : -2 AN :  AL : .304 MG : .028 K : .043 MN : 0 H2D+: .0001 AL : 13.95 ALK: 10.21  FE+3: .005 CA : .019 TI : .004 CD2 : 0 H2D-: .0001 FM : 2.25 K : .19  ***********************************							NE :	4.58		FLUOR	APATITE	: .13		CALCI	TE.	:		* FAYA	LITE (UL)	
****** NORMATIVE MINERALS RATIOS AND INDEXES ******  OR - AB - AN : 19.3 73.7 7.1 COLOR INDEX : 5.72 TOTAL % FELDSPARS : 2.59  ORTZ-ORTH-PLAG : 31.4 13.2 55.4 CRYSTALLIZATION INDEX: 6.37 TOTAL % PLAGIOCLASES : 0.54  DIFFERENTIATION INDEX: 60.87 PLAGIOCLASE INDEX : 9  **********************************	KALIDE	HILITE						Series .	275					****	LIUIAL	*1.99.7	/ 1			
OR - AB - AN : 19.3 73.7 7.1 COLOR INDEX : 5.72 TOTAL % FELDSPARS : 2.59  ORTZ-ORTH-PLAG : 31.4 13.2 55.4 CRYSTALLIZATION INDEX: 6.37 TOTAL % PLAGIOCLASES: 0.54  DIFFERENTIATION INDEX: 60.87 PLAGIOCLASE INDEX : 9  * RITTMAN VALUES *  ******* MOLE NUMBERS ******  SI : 1.207 FE+2: .02 NA : .176 P : .002 S : 0 SI : 72.51 CA : -2 AN :  AL : .304 MG : .028 K : .043 MN : 0 H20+: .0001 AL : 13.95 ALK: 10.21  FE+3: .005 CA : .019 TI : .004 CD2 : 0 H20-: .0001 FM : 2.25 K : .19  ******* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ******  THIS SAMPLE NA20 : 5.45 K20: 2.04 MSO: 1.12  NORMAL VALUE 4.7 1.59 TO	*****	NORMAT	TUE M	INFRA			AND	INDEXES												
* RITTMAN VALUES *  ****** MOLE NUMBERS ******  ****** MOLE NUMBERS ******  ****** MOLE NUMBERS ******  ****** RITMAN VALUES ******  ******* RITMAN VALUES ******  ******* RITMAN VALUES ******  ******* RITMAN VALUES ******  ******* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ******  THIS SAMPLE NA20 : 5.45 K20: 2.04 MS0: 1.12  NORMAL VALUE 4.7 1.59											5	.72	TO	TAL X F	ELDSPA	ARS :	2.59			
* RITTMAN VALUES *  ****** MOLE NUMBERS ******  ****** MOLE NUMBERS ******  ****** MOLE NUMBERS ******  ****** RITMAN VALUES ******  ******* RITMAN VALUES ******  ******* RITMAN VALUES ******  ******* RITMAN VALUES ******  ******* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ******  THIS SAMPLE NA20 : 5.45 K20: 2.04 MS0: 1.12  NORMAL VALUE 4.7 1.59	ORTZ-O	RTH-PLAG	:	31.4	13.2	55.4	C	RYSTALL	IZATIO	N IND	EX: 6	.37	TO	TAL % F	LAGIDO	LASES:	0.54			
****** MOLE NUMBERS ******  SI : 1.207 FE+2: .02 NA : .176 P : .002 S : 0 SI : 72.51 CA : -2 AN :  AL : .304 MG : .028 K : .043 MN : 0 H20+: .0001 AL : 13.95 ALK : 10.21  FE+3: .005 CA : .019 TI : .004 CD2 : 0 H2D-: .0001 FM : 2.25 K : .19  ******* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ******  THIS SAMPLE NA20 : 5.45 K20: 2.04 M90: 1.12  NORMAL VALUE 4.7 1.59 76							D	IFFEREN	TIATIC	ON IND	EX: 6	0.87	PL	AGIOCLA	SE IN	EX :	9			
****** MOLE NUMBERS ******  SI : 1.207 FE+2: .02 NA : .176 P : .002 S : 0 SI : 72.51 CA : -2 AN :  AL : .304 MG : .028 K : .043 MN : 0 H20+: .0001 AL : 13.95 ALK : 10.21  FE+3: .005 CA : .019 TI : .004 CD2 : 0 H2D-: .0001 FM : 2.25 K : .19  ******* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ******  THIS SAMPLE NA20 : 5.45 K20: 2.04 M90: 1.12  NORMAL VALUE 4.7 1.59 76												Charles in								
SI : 1.207 FE+2: .02 NA : .176 P : .002 S : 0 SI : 72.51 CA : -2 AN : AL : .304 MG : .028 K : .043 MN : 0 H2D+: .0001 AL : 13.95 ALK : 10.21 FE+3: .005 CA : .019 TI : .004 CD2 : 0 H2D-: .0001 FM : 2.25 K : .19  ******** GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ****** THIS SAMPLE NA20 : 5.45 K2D: 2.04 MB0: 1.12 NORMAL VALUE 4.7 1.59								1	2. 2. 9.							FITTMAN	LUALUE			
AL : .304 MG : .028 K : .043 MN : 0 H2D+: .0001 AL : 13.75 ALK : 10.21 FE+3: .005 CA : .019 TI : .004 CD2 : 0 H2D-: .0001 FM : 2.25 K : .19  ***********************************						NA	13.15	174			002								ΔN	
****** GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ****** THIS SAMPLE NAZO : 5.45 K20: 2.04 MSO: 1.12 NORMAL VALUE 4.7 1.59			MG	<del>-</del>	028	K		043	MN		002	H20++	. 0001		Al :	13.95	ALK	: 10.21		
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THIS SAMPLE NAZO : 5.45 KZD: 2.04 MBO: 1.12 NORMAL VALUE 4.7 1.59 .76																1.40	****	V 100		
THIS SAMPLE NAZO: 5.45 KZO: 2.04 MBO: 1.12 NORMAL VALUE 4.7 1.57 76 GAIN OR LOSS .75 .45 .2 PRIORITY:													CANICS	(DESCAR	REAUX	1973)	****			
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GAIN OR LOSS .75 .45 .2 PRIORITY:				4	.7	1	59	李维斯	-76	100	Lanca de la constante de la co		-			- 11-1			a minor recovery	
	GAIN O	R LOSS		• 7	15		. 45		. 2		PRIORI	IY :								
***** I THOUGHT (IE WOLLD DOCK)	*****	LITUONA	MEC	(TE 10	OL COMP	r pork		***												
****** LITHONAMES (IF VOLCANIC ROCK) ***** MCDONALD-KATSURA MAGMATIC SERIES: SUBALKACIDE TYPE & FIELD NAME:	大大大大方方方		11.00	Sand	V 42.			Many Comments Sec. 201		PF 1	FIELD N	AME .			13			11.100		1
MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE TYPE & FIELD NAME:  IRVINE-BARAGAR MAGMATIC SERIES: ROCK NAME BY SIO2: RHYOLITE  BARAGAR LITHONAME:			1212 4 174	Per salar Tr	- DELCT	-04 00	PITTING	7	dollar.	ICK NO	ME DV C	102 • 1	RHYDL TT	-					1000	
BARAGAR LITHONAME 1		-BARARAD	MARIM	ATTE 4	SERTER	A	. S. STEPP													

08:59:55fM CLIENT : LAPAUSE SURFACE DATA FILE : LAPAUSE 16 MAY 87

DISCLAIMER : THE OWNER OF	DATA FILE : THE PROGRAM IS NOT!		PRODUCMS OR FE	YAM TAHT SHORE		- 08:59:55PM 16 HE USE OF THESE DA	
ARREST DECEDENCE DATA AN		MAN A MINISTRAL TOTAL OF THE PARTY.				DECORD NO	71411
AUTHOR: LAPAUSE YERROVINCE: TOWNSHIP	CAD 1007 DEEEDE	ALE + I VEVILLE				CAMPLE NO .	01011
DOUGHOUSE TOUNGUE	EHR : 1707 REFEREI	TUE : LAFAUSE	NTC CUEET		1.000	SHITE NO I	ERNMAN
RUVINCE I IUWNSHII	El . La		NIS SHEET	1	LUNG. :	LAI. :	
	U	TM ZONE : UTM	SU.IDENT.:	UTM EAST :		UTM NORTH :	
GEOL.AGE: GEOL.FR	DV.: GEOL, ENV	IRONMENT :			ROCK TYPE :	ROCK NAME	1
			AGMATIC SERIES.	SPEC. G	RAVITY :		
DESCRIPTION :							
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DOTOTIAL CUTSCO A	A PER AND A PROPER THE PRODUCT OF THE REAL PROPERTY AND ASSESSMENT OF THE REAL PROPERTY OF THE REAL PROPERTY ASSESSMENT OF THE REAL PROPERTY OF THE REAL PR	at the second se				14 14	
ESTOR : 50.00 CAO : CAC	6.86 MND : 0	20 5 :	BI:	F ±	F'B :	ZN :	
1 203: 14 AO NA20 :	2.09 107 + 5	90 AG	Ct ·	HG :	GN -		
TOOT. 10 40 KDO .	0.44 000	AC .	CC .	1.7	50	•	
· [ ZU3	Date of the second of the seco	All -	CD	LI:	. an. :	17.7%	The second second second
-EO : 1102 :	0.71 H2U.P:	AU I	CR I	nu i	V :	•	
1GO : 7.55 P205 :	0.10 H20.M:	BA I	CU :	NI:	W :	•	
* *	* * * * * * * * * * * *	* * * CALCUL	ATIONS*+	. * * * * * *	* * * * * *	*	
***** NORMALIZED OXIDES	(EYRITE REMOVED IF 8	ILFUR. IRON AS 20%	FE203 AND 80% F	ED. DRY. TOTAL	=100%} *****	*	
102 : 53.22 AL 203:	15.54 FF203: 2	A4 FFO , 9	-5 MGO r	8.04 CAC	. 7.3		
SID2 : 53.22 AL203: NA20 : 2.22 K20 :	47 TID2 .	74 P205	11 MNO	. 21			
TILL I ALAE NEU I	1102	7203 1 .	A INO I				
*****	AND INDEXES *****						10.01
1-F-M : 11.76	53.08 35.16	FEO(TOTAL)/MGO:	1.48 ALK	CALINITY RATIO	: NA	BASICITY INDEX	: 19.81
A20-K20-S102 : 4	1 95	K20/NA20 :	21ALk	CALI INDEX	:17.47 SOLII	DIFICATION.INDEX.:	35.57
(20/NA20+K20 : .17			· ·	EELSIC INDEY	· 24 93	HACHIMOTO INDEX	A7.9
				AFIC INDEX	:60.16	MARCOTTE INDEX	. 12
	5	Committee of the Commit				MARCOTTE INDEX	
***** NORMATIVE MINERAL BUARTZ : 5.56 CORUNDUM : BRIHOCLASE : 2.76 ALBITE : 18.82 NORTHITE : 31.03 EUCITE : EPHELITE : GALIOPHILITE:	S LISTING *****						
NIART7 + 5 54	ACMITE .	MAGNETITE	. 3.82	HAL TTE		# WHILLASTRIDES	1.87
CONTROLLER . S. 30	CA_CILICATE .	HEMATITE	. 0.02	CLUODITE	:	# ENSTATIT/DOX	1 04
DETUCCIONE - 0.71	NA MOTI TONTE	TI MENTE	. 4 47	TUTNADATT		# EEDDOOTI (NO.)	75
MINULLHSE 1 2.76	NH-DSILIUHIEI	ILMENTIE	1 1.43	PYDITE		* FERRUSIL (DF)	
LEITE : 18.82	K-MSILICATE :	SPHENE	1	PARTIE	:	+ ENSIAILI (HP)	18.76
ANDRIHITE : 31.03	WOLLASTONITE:	PEROVSKITE		CHROMITE	:	* FERROSIL(HP)	:.13.66
_EUCITE :	DIOPSIDE : 3.6	7 RUTILE	:	ZIRCON	:	* FORSTERS(OL):	•
WEPHELITE :	HYPERSTHENE: 32.6	2 FLUORAPATI	TE: .08	CALCITE	:	* FAYALITE(OL)	:
ALIOPHILITE:	OLIVINE :			***** TOTAL	: 99.79		
***** NORMATIVE MINERA	LS BATIOS AND INDE	XES *****					
DR - AB - AN + 5 2	35.8 59 COLOR	INDEX .	41.54 Tr	TAL % FELDSPAR	S : 2.61		
DRT7-DRTH-PLAG . D 4	4 7 85 7 CDVCT	ALLIZATION INDEX-	4A.5A Tr	TAL Z PLACTOCI	ASES: 9 85		
	nices	DENTIATION INDEX:	21 50 01	ACTOC ACE THOS	Y , LO		
	DIFFE	CENTRALIDA HADEVI	21.00 Ft	THOTOCKHOK INDE	02		
7 1 1							
RITTMAN VALUES *					577W0N		
RITTMAN VALUES *	St. M.			*****	RITMAN VALUES	S *****	
RITTMAN VALUES *	St. M.	P002	S. :	***** ) Si ::	RITMAN VALUES	S ***** : 1 AN	
* RITTMAN VALUES *	St. M.	P : .002 MN : .003	8 :	***** D. SI.: S L AL : 1	RITMAN VALUES 3.22 CA 3.98 ALK	S ***** : 1 AN : 3.8	
RITTMAN VALUES *	St. M.	P : .002 MN : .003 CD2 : 0	8. :	***** O. SI.: 5 L AL: 1	RITMAN VALUES 3.22 CA 3.98 ALK 6.21 K	S ****** : 1 AN : 3.8 : .12	
RITTMAN VALUES *	St. M.	P : .002 MN : .003 CD2 : 0	8. :	***** O SI : 5 L AL : 1 L FM : 1	RITMAN VALUES 3.22 CA 3.98 ALK 6.21 K	S ***** : 1 AN : 3.5 : .12	
* RITTMAN VALUES *  ****** MOLE NUMBERS ****  61 : .886	** .132 NA : .072 .199 K : .01 .13 TI : .01 BY COMPARISON TO THE	AVERAGES OF THE ABI	TIBI VOLCANICS	SI:S L AL:I L FM:	3.22 CA 3.98 ALK 6.21 K	: 1 AN : 3.8 : .12	10.100
* RITTMAN VALUES *  ****** MOLE NUMBERS ****  61 : .886	** .132 NA : .072 .199 K : .01 .13 TI : .01 BY COMPARISON TO THE	AVERAGES OF THE ABI	TIBI VOLCANICS	SI:S L AL:I L FM:	3.22 CA 3.98 ALK 6.21 K	: 1 AN : 3.8 : .12	1 / 1 / 2
* RITTMAN VALUES *  ****** MOLE NUMBERS ****  61 : .886	** .132 NA : .072 .199 K : .01 .13 TI : .01 BY COMPARISON TO THE	AVERAGES OF THE ABI	TIBI VOLCANICS	SI:S L AL:I L FM:	3.22 CA 3.98 ALK 6.21 K	: 1 AN : 3.8 : .12	1 - 1
* RITTMAN VALUES *  ****** MOLE NUMBERS ****  SI : .886	** .132 NA : .072 .199 K : .01 .13 TI : .01 BY COMPARISON TO THE 22 K20: .47 MGD	AVERAGES OF THE ABI : 8.04	TIBI VOLCANICS	SI:S L AL:I L FM:	3.22 CA 3.98 ALK 6.21 K	: 1 AN : 3.8 : .12	
* RITTMAN VALUES *  ****** MOLE NUMBERS ****  SI : .886	** .132 NA : .072 .199 K : .01 .13 TI : .01 BY COMPARISON TO THE 22 K20: .47 MGD	AVERAGES OF THE ABI : 8.04	TIBI VOLCANICS	SI:S L AL:I L FM:	3.22 CA 3.98 ALK 6.21 K	: 1 AN : 3.8 : .12	1-1-2
* RITTMAN VALUES *  ****** MOLE NUMBERS ****  SI : .886	** .132 NA : .072 .199 K : .01 .13 TI : .01  BY COMPARISON TO THE 22 K20: .47 Mg0 .2 .35 98 .12	AVERAGES OF THE ABI : 8.04 - 5.62 2.35 PRIO	TIBI VOLCANICS	O SI: 5 AL: 1 FM: 3 (DESCARREAUX,	3.22 CA 3.98 ALK 6.21 K	: 1 AN : 3.8 : .12	2 - 1
****** NUMBATIVE MINERA OR - AB - AN : 5.2  ORTZ-ORTH-PLAG: 9.6  * RITTMAN VALUES *  ******* MOLE NUMBERS **** SI : .886 FE+2: AL : .305 MG : FE+3: .033 CA :  ******* GAINS AND LOSSES THIS SAMPLE NA20 : 2.  NORMAL VALUE 3 GAIN OR LOSS  ******* LITHONAMES (IF V	** .132 NA : .072 .199 K : .01 .13 TI : .01  BY COMPARISON TO THE 22 K20: .47 Mg0 .2 .35 98 .12	AVERAGES OF THE ABI : 8.04 - 5.62 2.35 PRIO	TIBI VOLCANICS	O SI: 5 AL: 1 FM: 3 (DESCARREAUX,	3.22 CA 3.98 ALK 6.21 K	: 1 AN : 3.8 : .12	
* RITTMAN VALUES *  ****** MOLE NUMBERS ****  SI : .886	** .132 NA : .072 .199 K : .01 .13 TI : .01  BY COMPARISON TO THE 22 K20: .47 Mg0 .2 .35 98 .12	AVERAGES OF THE ABI : 8.04 - 5.62 2.35 PRIO	TIBI VOLCANICS	O SI: 5 AL: 1 FM: 3 (DESCARREAUX,	3.22 CA 3.98 ALK 6.21 K	: 1 AN : 3.8 : .12	
****** MOLE NUMBERS **** SI : .886	** .132 NA : .072 .199 K : .01 .13 TI : .01  BY COMPARISON TO THE 22 K20: .47 Mg0 .2 .35 98 .12	AVERAGES OF THE ABI : 8.04 - 5.62 2.35 PRIO	TIBI VOLCANICS	O SI: 5 AL: 1 FM: 3 (DESCARREAUX,	3.22 CA 3.98 ALK 6.21 K	: 1 AN : 3.8 : .12	
RITTMAN VALUES *  ****** MOLE NUMBERS ****  SI : .886 FE+2:  AL : .305 MG :  FE+3: .033 CA :  ******* GAINS AND LOSSES  THIS SAMPLE NA20 : 2.  ***********************************	** .132 NA : .072 .199 K : .01 .13 TI : .01  BY COMPARISON TO THE 22 K20: .47 Mg0 .2 .35 98 .12	AVERAGES OF THE ABI : 8.04 - 5.62 2.35 PRIO	TIBI VOLCANICS	O SI: 5 AL: 1 FM: 3 (DESCARREAUX,	3.22 CA 3.98 ALK 6.21 K	: 1 AN : 3.8 : .12	

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UTHOR	LAPAUR	ε	YEAR :	1987	REFERENC	E + LAPAL	ISE						SAMPLE	NO .	01012
ROVINE	CE I	TOWNS	SHIP :		7 14001 601 4001 400	7 G. F. 11 F 10	7.004	NTS	SHEET	: UTM EAST :	LONG		JAN LL	1	
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иния ПО -	EO OO	CVU	7.05	E FLEE	MO . O .	11 0	:	BI		F:	-	PB:		ZN:	
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to a soil Million	ann an iomhail air an an iomhail ann										* * * * *	* * *	•		- present refer where comments
5### 02 i	NORMAL I	ZED OXID	ES (PYR)	ITE REMO	E203: 2.3	FUR. IRON	LAS 20% F	FE2D3 AND	80% FE	0. DRY, TOTA 8.55 CA	L=100%) *	*****			A TALL I MAN THE STREET, A TALL INTO CARPORATE AND A STREET, AND A STREE
20 1	3.75	K20	25	9 T	102: .5	58 P2	205 ;	.1	INO :	.21					
****	OXIDES	RATIC	I DIA 2	NDEXES *	****										
T	20 0100	: 1/.21	40.30	36.43		PEUCIUIAL	.)/860 :	1.24	ALKA	LINITY RATIO	: NA		BASICITY	INDEX :	18.75
ALL KA	20-5102				<u></u>	K2f	17NA20_1	UB.	ALKA	LILINDEX	:7.18	SULIDI	FICATION .	INDEX .:	-56.B
J/NA2	20+K20	t .07				- 4	1 445	- 1		FELSIC INDEX		1	HASHIMOTO	INDEX :	44.69
	1 Table 1					4-1. A		Salar C		FIC INDEX	: 56		MARCOTTE	INDEX :	61
	NOOMATT	LIE MYNICE	201.0	PATTLE		-									
		VE MINER												***	
HKIZ	:		ACM	JI IE	: E:					HALITE	1				2.13
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DIE	TE STATE	31.76	K-L	MSILICAT		SF	PHENE ROVSKITE	I.		CHROMITE	•		* ENSTAT	11 (MP)1	7.42
		29.89	WLL	LLASTONI	151	PE	HUYSKIJE						* FERROS	TE (HF) 1.	5.81
			DIG	TEREST DE	4.16	RL	IIILE	*		ZIRCON	:		* FORSTE * FAYALI	R5 (UL):	7.41
	ITE :		HYF	TERSTHEN	: 4.16 NE : 15.23	FL	LUORAPAT I	1E: .08	3	CALCITE			* FAYALI	IE (BL):	5.05
1 1 1 14-1-	HILITE:	1. (1)		A V A I V	- 14474	-		ber a la la co		*****:TOTAL	*: 99 <sub>*</sub> 8.				
		W.		PATTOR	**	S *****									
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****	B - AN	2.	7 50.2	47.2	COLOR I	NDEX	1 1	36.39	TOT	AL X FELDSPA	RS : 3.	.33			
**** AE	B - AN	2.	7 50.2	47.2	CRYSTAL	LIZATION	INDEX:	46.6	TOT	AL % PLAGIOC	LASES: 1.	65			7
**** AE	B - AN	2.	7 50.2	47.2	CRYSTAL	LIZATION ENTIATION	INDEX:	46.6	TOT	AL % FELDSPA AL % PLAGIOC GIOCLASE IND	LASES: 1.	65			7.70
- AE	B - AN RTH-PLAG	. 2.	7 50.2	47.2	CRYSTAL	LIZATION	INDEX:	46.6	TOT	AL % PLAGIOC	LASES: 1.	65			
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- AI	B - AN RTH-PLAG MAN VALU MOLE NU	: 2. ES * MBERS **	7 50.2 0 2.7	<b>47.2</b> 97.3	COLOR I CRYSTAL DIFFERE	LIZATION	INDEX:	46.6 33.44	TOT PLA	AL % PLAGIOC GIOCLASE IND	LASES: 1. EX :	. 65 . 48 /ALUES	****		
**** - Ai TZ-OF RITTN ****	B - AN RTH-PLAG  MAN VALU  MOLE NU  .849	ES * MBERS ** FE+2:	7 50.2 0 2.7	97.3	COLOR I CRYSTAL DIFFERE	LIZATION ENTIATION	INDEX: INDEX:	46.6 33.44	PLA	AL % PLAGIOC GIOCLASE IND	LASES: 1. EX : RITMAN \	48 /ALUES .CA :	1	AN :	
**** - AI TZ-OF RITTN ***	B - AN RTH-PLAG  MAN VALU  MOLE NU  .849 .342	: 2. : : : : : : : : : : : : : : : : : : :	7 50.2 0 2.7 ***** -119 -212	97.3 NA K	COLOR I CRYSTAL DIFFERE	LIZATION ENTIATION P:	INDEX: INDEX:	46.6 33.44	PLA PLA 0	AL % PLAGIOC GIOCLASE IND ****** SI : AL :	LASES: 1. EX : RITMAN V 51 15.69	/ALUES CA:	5.91	AN :	
RITTN	B - AN RTH-PLAG  MAN VALU  MOLE NU  .849	: 2. : : : : : : : : : : : : : : : : : : :	7 50.2 0 2.7	97.3 NA K	COLOR I CRYSTAL DIFFERE	LIZATION ENTIATION P:	INDEX: INDEX:	46.6 33.44	PLA	AL % PLAGIOC GIOCLASE IND	LASES: 1. EX : RITMAN V 51 15.69	/ALUES CA:	1	AN :	
**** TZ-OF RITTN **** :	B - AN RTH-PLAG	ES * MBERS ** FF+2: MG : CA :	7 50.2 0 2.7 ***** .119 .212 .126	97.3 NA K TI	COLOR I CRYSTAL DIFFERE	P: MN: CO2:	INDEX: INDEX:	8 : H20+: H20-:	0 .0001	AL % PLAGIOC GIOCLASE IND ***** SI : AL : FM :	RITMAN \51 15.69 17.21	/ALUES CA: ALK:	5.91 04	AN :	
- AE TZ-OF RITTN **** : +3:	B - AN RTH-PLAG  MAN VALU  MOLE NU  .849 .342 .03	ES * MBERS ** FE+2: MG : CA :	7 50.2 0 2.7 ***** .119 .212 .126	97.3 NA K TI	COLOR I CRYSTAL DIFFERE	P: MN: CO2:	INDEX: INDEX: 001 003 0	8 : H20+: H20-:	0 .0001 .0001	AL % PLAGIOC GIOCLASE IND ****** SI : AL : FM :	RITMAN \51 15.69 17.21	/ALUES CA: ALK:	5.91 04	AN :	4.1
**** - AI TZ-OF RITTN **** : +3:	B - AN RTH-PLAG MAN VALUI MDLE NUI .849 .342 .03 GAINS AI	ES * MBERS ** FE+2: MG : CA : ND LOSSE NA20 :	7 50.2 0 2.7 ***** .119 .212 .126 ES BY COP 3.75 k	747.2 97.3 NA K TI MPARISON K20:	COLOR I CRYSTAL DIFFERE : .006 : .007	P: MN: C02:	INDEX: INDEX:	#6.6 33.44 	0 .0001 .0001	AL % PLAGIOC GIOCLASE IND ****** SI : AL : FM :	RITMAN \51 15.69 17.21	/ALUES CA: ALK:	5.91 04	AN :	- 1 - 1
**** - AI TZ-OF RITTN **** : +3: **** IS SA	B - AN RTH-PLAG MAN VALUI MDLE NUI .849 .342 .03 GAINS AI	ES * MBERS ** FE+2: MG : CA : ND LOSSE	7 50.2 0 2.7 ***** .119 .212 .126 ES BY COM 3.75 k	47.2 97.3 NA K TI MPARISON K20:	COLOR I CRYSTAL DIFFERE : .121 : .006 : .007 N TO THE AV 29 MGO: .28	P: MN: C02:	INDEX: INDEX:001003 0	46.6 33.44 	0 .0001 .0001	AL % PLAGIOC GIOCLASE IND ****** SI : AL : FM :	RITMAN \51 15.69 17.21	/ALUES CA: ALK:	5.91 04	AN :	of. (1)
- AF TZ-OF RITTN **** : +3: **** IS SA RMAL IN OF	B - AN RTH-PLAG MAN VALU MDLE NU .B49 .342 .03 GAINS AI AMPLE VALUE R LOSS	ES * MBERS ** FE+2: MG : CA : ND LOSSE NA20 !	7 50.2 0 2.7 ***** .119 .212 .126 ES BY COM 3.75 k 2.89 .86	NA K TI MPARISON K20:	COLOR I CRYSTAL DIFFERE : .121 : .006 : .007 N TO THE AV 29 MGO : 28	P: MN: C02: /ERAGES OF: 8.55 1.95	OO1 OO3 O PRIOR	46.6 33.44 	0 .0001 .0001	AL % PLAGIOC GIOCLASE IND ****** SI : AL : FM : DESCARREAUX,	RITMAN \51 15.69 17.21	/ALUES CA: ALK:	5.91 04	AN :	4. 1
RITTN ****  +3:  **** IS SA	B - AN RTH-PLAG MAN VALU MDLE NU .B49 .342 .03 GAINS AI AMPLE VALUE R LOSS	ES * MBERS ** FE+2: MG : CA : ND LOSSE NA20 !	7 50.2 0 2.7 ***** .119 .212 .126 ES BY COM 3.75 k 2.89 .86	NA K TI MPARISON K20:	COLOR I CRYSTAL DIFFERE : .121 : .006 : .007 N TO THE AV 29 MGO : 28	P: MN: C02: /ERAGES OF: 8.55 1.95	OO1 OO3 O PRIOR	46.6 33.44 	0 .0001 .0001	AL % PLAGIOC GIOCLASE IND ****** SI : AL : FM : DESCARREAUX,	RITMAN \51 15.69 17.21	/ALUES CA: ALK:	5.91 04	AN :	of Of
**** - AI TZ-OF RITTN *** : +3: *** IS SA	B - AN RTH-PLAG MAN VALU MDLE NU .B49 .342 .03 GAINS AI AMPLE VALUE R LOSS	ES * MBERS ** FE+2: MG : CA : ND LOSSE NA20 !	7 50.2 0 2.7 ***** .119 .212 .126 ES BY COM 3.75 k 2.89 .86	NA K TI MPARISON K20:	COLOR I CRYSTAL DIFFERE : .121 : .006 : .007 N TO THE AV 29 MGO : 28	P: MN: C02: /ERAGES OF: 8.55 1.95	OO1 OO3 O PRIOR	46.6 33.44 	0 .0001 .0001	AL % PLAGIOC GIOCLASE IND ****** SI : AL : FM : DESCARREAUX,	RITMAN \51 15.69 17.21	/ALUES CA: ALK:	5.91 04	AN :	- A123
**** - AI TZ-OF RITTN *** : +3: *** IS SA RMAL IN OF	B - AN RTH-PLAG MAN VALU MDLE NU .B49 .342 .03 GAINS AI AMPLE VALUE R LOSS	ES * MBERS ** FE+2: MG : CA : ND LOSSE NA20 !	7 50.2 0 2.7 ***** .119 .212 .126 ES BY COM 3.75 k 2.89 .86	NA K TI MPARISON K20:	COLOR I CRYSTAL DIFFERE : .121 : .006 : .007 I TO THE AV 29 MGO: .28	P: MN: C02: /ERAGES OF: 8.55 1.95	OO1 OO3 O PRIOR	46.6 33.44 	0 .0001 .0001	AL % PLAGIOC GIOCLASE IND ****** SI : AL : FM : DESCARREAUX,	RITMAN \51 15.69 17.21	/ALUES CA: ALK:	5.91 04	AN :	

*** REFERENCE DATA *****  THOR: LAPAUSE YEAR: 1987 REFERENCE: LAPAUSE  VINCE: TOWNSHIP: NTS		
HOR. LAPAINE VEAR , 1987 REFERENCE . LAPAINE		RECORD NO.: 31613
TENN I 1707 AFFERENCE I LHEHOSE		SAMPLE NO 1
	ni in the same of	SAPPLE NO IL
UTM ZONE : UTM SQ.IDENT.		
DL.AGE: GEOL.PROV.: GEOL.ENVIRONMENT:  MAGMATIC SE  MAGMATIC SE		TYPE: ROCK NAME:
CRIPTION 4	THE RESERVE TO SERVE THE PARTY OF THE PARTY	The same of the sa
CRIF (ION )		
*** ORIGINAL OXIDER AND TRACE ELEMENTS ******		
12:69.80 CAD: 2.26 MNO: 0.04 S: BI:		PB: ZN:
203: 15.30 NA20 : 5.65 LOI : 2.60 AG : CL :		SN:
203; 2,65 K20 : 1.30 C02 : AS : C0 :	LL	SR:
TID2 : 0.28 H20.P1 AU + CR :	MO t	V :
7102 : 0.28 H20.P: AU i CR : 0 : 1.14 P205 : 0.13 H20.Hi BA : CU :		W :
**************************************		
* * * * * * * * * * * * * * * CALCOLAIION		* * * *
**** NORMALIZED DXIDES (PYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND	BO% FEO, DRY, TOTAL=100%)	K####
12 1270.98 AL203: 15.56 FE203: 254 FE0 : 1.94 MG	0 : 1.16 CAO : 2	.3
02 : 70.98 AL203: 15.56 FE203: .54 FE0 : 1.94 MG 20 : 5.75 K20 : 1.32 T102 : .28 P205 : .13 MN	D : .04	
**** OXIDES RATIOS AND INDEXES ******	An Wall Committee of Committee	
	ALKALINITY BATTO . NO	DARICITY INDEX - 4 04
F-M : 66.01 23.16 10.83 FEO(TOTAL)/MGO : 2.09	ALKALINITY RATIO : NA	BASICITY INDEX: 4.21
20-K2U-S1U2: / 2 91 K2U/NAZU: .23		SOLIDIFICATION INDEX : 10.89
J/NA20+K20 : .19	FELSIC INDEX : 75.45	HASHIMOTO INDEX : 23.55
- 100m	MAFIC INDEX :68.13	MARCOTTE INDEX : -1.65
	MAFIC INDEX :68.13	
**** NORMATIVE MINERALS LISTING *****	A STATE OF THE PARTY OF T	The state of the s
ARTZ : 24.98 ACMITE : MAGNETITE : .78	HALITE :	# WOLLASTO(DP):
RUNDUM : 81 CA-SILICATE : HEMATITE :		# ENSTATIT (DP):
THOCLASE : 7.81 NA-MSILICATE: ILMENITE : .54	THENARDITE :	* FERROSIL (DP):
SITE : 48.61 K-MSILICATE : SPHENE :	PYRITE :	* ENSTATIT(HP): 2.88
RTHITE 10.55 WOLLASTONITE: PEROVSKITE	CHROMITE	* FERROSIL (HP): 2.72
JCITE : DIOPSIDE : RUTILE :	ZIRCON :	* FORSTERS(OL):
HELITE : HYPERSTHENE : 5.61 FLUORAPATITE: .1	ZIRCON : CALCITE :	* FAYALITE(OL):
	**************************************	
	TENENT TENENT LUI MLTI. 77.27	
**** NORMATIVE MINERALS RATIOS AND INDEXES *****		
- AB - AN : 11.7 72.6 15.7 COLOR INDEX : 6.93	TOTAL % FELDSPARS : 6	, 95
Z-ORTH-PLAG: 27.2 8.5 64.3 CRYSTALLIZATION INDEX: 12.55	TOTAL % PLAGIOCLASES: 9	. 14
DIFFERENTIATION INDEX: 57.23	PLAGIOCLASE INDEX :	
21. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
RITTMAN VALUES *	and the same of th	
	##### RITMAN '	VALUES *****
**** MOLE NUMBERS *****		
		CA :1 AN
	.0001 AL : 14	ALK: 9.94
	.0001 FM : 2.34	K : .13
: .305 MG : .029 K : .028 MN : .001 H2D+: +3: .007 CA : .041 TI : .004 CD2 : 0 H2D-:		
+3: .007 CA: .041 TI: .004 CD2: 0 H20-:	MARKET AND	쑛 뜻 뜻 뜻 뜻 F
+3: .007 CA: .041 TI: .004 CD2: 0 H20-:	WILE OFSCARRENIE 1971 -	
+3: .007 CA : .041 TI : .004 CO2 : 0 H20-:	NICS (DESCARREAUX, 1973) *	
+3: .007 CA : .041 TI : .004 CO2 : 0 H20-:	ANIUS (DESCARREAUX, 1973) *	
+3: .007 CA: .041 TI: .004 CO2: 0 H2O-:  **** BAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCA IS SAMPLE NAZO: 5.75 K2O: 1.32 MGO: 1.16  RMAL VALUE 4.7 1.45 .96	ANICS (DESCARREAUX, 1973) *	
+3: .007 CA : .041 TI : .004 CO2 : 0 H20-:	NIUS (DESCARREAUX, 1973) *	10.000
+3: .007 CA: .041 TI: .004 CO2: 0 H2O-:  **** BAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCA IS SAMPLE NAZO: 5.75 K2O: 1.32 MGO: 1.16  RMAL VALUE 4.7 1.45 .96	NIUS (DESCARREAUX, 1973) *	
+3: .007 CA: .041 TI: .004 CD2: 0 H20-:  +*** BAINS AND LOSSEB BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCA  SAMPLE NA20: 5.75 K20: 1.32 MGO: 1.16  RMAL VALUE	NICS (DESCARREAUX, 1973) *	
+3: .007 CA: .041 TI: .004 CO2: 0 H2O-:  +*** SAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCA IS SAMPLE NA20: 5.75 K2O: 1.32 MGO: 1.16  RMAL VALUE 4.7 1.45 .96 IN OR LOSS 1.0513 .02 PRIORITY:  **** LITHONAMES (IF VOLCANIC ROCK) ******		
+3: .007 CA: .041 TI: .004 CO2: 0 H2O-:  ***** GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCA IS SAMPLE NA20: 5.75 K2O: 1.32 MGO: 1.16  ***** VALUE		
+3: .007 CA: .041 TI: .004 CO2: 0 H2O-:  +*** SAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCA IS SAMPLE NA20: 5.75 K2O: 1.32 MGO: 1.16  RMAL VALUE 4.7 1.45 .96 IN OR LOSS 1.0513 .02 PRIORITY:  **** LITHONAMES (IF VOLCANIC ROCK) ******	YOLITE .	N4 on V2

CLIENT : LAPAUSE SURFACE DATA FILE : LAPAUSE 09:01:49PM 16 MAY 87 DISCLAIMER: THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT MAY ARISE FROM THE USE OF THESE DATA. \*\*\*\*\* REFERENCE DATA \*\*\*\*\* RECORD NO.: 31614 AUTHOR: LAPAUSE YEAR 1 1987 REFERENCE : LAPAUSE SAMPLE NO : MELOCOST PROVINCE : TOWNSHIP : NTS SHEET : LONG. : LAT. 1 UTM SQ. IDENT.: UTM ZONE : UTM EAST : UTM NORTH : GEOL, AGE : GEOL. PROV. : GEOL. ENVIRONMENT : ROCK TYPE : ROCK NAME : CONTEXT : STRATIGRAPHY: MAGMATIC SERIES : SPEC. GRAVITY : DESCRIPTION : \*\*\*\*\* ORIGINAL OXIDES AND TRACE ELEMENTS \*\*\*\*\* CAO : 3.93 MNO : 0.25 BI : F : PB: SID2 : 50.60 S : ZN : LOI : 4.40 CL : SN: AL203: 15.30 NA20 : 2.46 AG : HG 1 FE203: 14.80 K20 : 0.34 CD2 ... AS : CO. : LI : SR : CR : FEO 1 TI02 : 0.88 H20.Pt AU : MO : V : MGD : 6.64 P205 : 0.12 H20.M: BA : CU : NI : 2 \*\*\*\*\*\* NORMALIZED OXIDES (PYRITE REMOVED IE SULFUR, IRON AS 20% FE203 AND 80% FE0, DRY, IDTAL=100%) \*\*\*\*\*\* SIO2 1 53.75 AL203: 16.25 FE203: 3.14 FEO : 11.32 MGO . 1 7.05 CAD : 4.17 7102 i NA20 : 2.61 K20 : .36 P205 : .13 MNO : .27 \*\*\*\*\* OXIDES -- RATIOS AND INDEXES \*\*\*\*\* BASICITY INDEX : 20.07 : 12.13 59.07 28.8 FED (TOTAL) /MGO : 2.01 ALKALINITY RATIO : NA NA20-K20-SIG2 : ALKALI INDEX :12.12 SOLIDIFICATION INDEX : 29.17 K20/NA20 : . 14 K20/NA20+K20 : HASHIMOTO INDEX : 52.22 FELSIC INDEX : 41.6 MAFIC INDEX MARCOTTE INDEX: .25 167.22 \*\*\*\*\* NORMATIVE MINERALS -- LISTING \*\*\*\*\* QUARTZ : 10.26 ACMITE MAGNETITE : 4.55 HALITE \* WOLLASTO (DP): CORUNDUM 2 4.27 CA-SILICATE : HEMATITE : FLUORITE. \* ENSTATII (DP): ORTHOCLASE : 2.13 \* FERROSIL (DP): NA-MSILICATE: ILMENITE : 1.77 THENARDITE : : 22.11 \* ENSTATIT(HP): 17.56 AL RITE K-MSILICATE : SPHENE PYRITE 1 \* FERROSIL (HP): 17.14 ANORTHITE : 19.87 WOLLASTONITE: PEROVSKITE : CHROMITE LEUCITE DIOPSIDE ZIRCON \* FORSTERS(OL): : RUTILE 2 NEPHELITE HYPERSTHENE: 34.7 FLUORAPATITE: CALCITE \* FAYALITE(OL): KALIOPHILITE: OLIVINE : \*\*\*\*\* TOTAL \*: 99.76 \*\*\*\*\*\* NORMATIVE MINERALS -- RATIOS AND INDEXES \*\*\*\*\*\* DR - AB - AN 1 4.8 50.1 45 COLOR INDEX : 41.02 TOTAL % FELDSPARS : 4.11 QRTZ-ORTH-PLAG: 18.9 3.9 77.2 CRYSTALLIZATION INDEX: 32.18 TOTAL % PLAGIOCLASES: 1.98 DIFFERENTIATION INDEX: 28.51 PLAGIOCLASE INDEX : \* RITTMAN VALUES \* \*\*\*\*\* MOLE NUMBERS \*\*\*\*\* \*\*\*\*\* RITMAN VALUES \*\*\*\*\* SI : .895 FE+2: 158 NA. .084 P ... .002 S 1 .....0 SI 1 53.75 \_\_ CA : -3 MG : MN : H2D+: .0001 AL : .319 . 175 K : .008 .004 AL : 14.62 ALK : 4.27 FE+3: .039 .074 .012 CO2 : H20-: .0001 FM : 14.25 . 08 CA : TI : 0 K : \*\*\*\*\* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) \*\*\*\*\*\* THIS SAMPLE NA20 1 2.61 K20: .36 MGO : 7.05 NORMAL\_VALUE -37 5.42 3.28 GAIN OR LOSS 1.57 -.67 -.01 PRIORITY :

TYPE & FIELD NAME 1

ROCK NAME BY SIO2 : BASALT

JENSEN LITHONAME : THOLEIITIC BASALT

\*\*\*\*\*\* LITHONAMES (IF VOLCANIC ROCK) \*\*\*\*\*\*
MCDONALD-KATSURA MAGMATIC SERIES SUBALKALINE

: THOLEIITIC

IRVINE-BARAGAR MAGMATIC SERIES

JENSEN MAGMATIC SERIES

LITERDA & ABALIST	DATA ***	***			- 1 252105						RD NO.:	
UTHOR: LAPAUSE	YE	AR 1 19	RATE NO	EFERENCE	LAPAUSE				4		NO 1 2	
ROVINCE :	TOWNSHIP	-	- Anna -	HTM T	C115			1			Two Borns	
EDI ADE			-			UTM SQ.ID	ENI.:	UIM EAST I		UTH NORTH		
EOL.AGE :	GEOL.PRO			. ENVIRON					ROCK TYP		K NAME :	
ONTEXT :				¥_4	and the second designation of the second des	MAGMATI	C SERIES	SPEC.	BRAVITY 1			
ESCRIPTION :	AN PARE T	F 20 20	No.	No. 41				1 7 7				3 (PA)
***** ORIGINAL	OVERED AL	-		486-11	i is wat h			4. Web 21				
	CAO :							F :				A commence and a second
L203: 15.90	NA20 :		HNU	: 2.30	S :		CL :	HG:		B : N :	ZN :	
E203: 13.40	K20 :			: 2.30			CO	LI		R:		
EZUS: Z.1/	XZII I	0.07	LIDO	n.		at the management of the same	CR x		V			and a contract of the second o
ED : IGO : 1.16	102	0.27	HZU.	Pt	BA:		CU	MO : NI :		:		
nn 1 1.10	2U3 1	0.06	HZU.	m s	BH I		LO I	NI I	W	•		
			<del></del>		* C A I C	HILATI	0 11 6 4 4					
	* * *				* L H L L	OFHII	U N S * *	* * * * * * * *		* *		
			0540455			DAN FERRIT			- 4 0 0 2 3 4 4 4 4			
**** NORMALIZE	D UXIDES	TEANTIE	REMUVED	IF SULFU	K. IKUN AS	20%_FE203.	AND BOX FE	O DKY TOTAL	#100%) ***	***	-	
ID2   70.42  A20   5.71	HLZU31	10010	FEZO.	31 74	PEG 1	1.54	MNC -	1. 18 CAL	2.78			
120 1 3.71	*** K20 1	1.36	1102	1 -27	P205 :	.06	MNU 1	.03				
							y garage district	and the books of the last	in many and a second			
***** OXIDES	- KALLUS A	IND TABE	XES ####	# # 	0.470741 \			U THITTU DATES		DAGIGITY	TAIDEN	
-F-M :	68.77	.9.75	11.48	FE	O(TOTAL)/MG			LINITY RATIO		BASICITY		
A20-K20-SI02 :		2	91		K207NA2	.0 24		ALI INDEX				
20/NA20+K20 1	. 19						4.3	FELSIC INDEX	: 71.78	HASHIMOTO		
	1000		SCALL FOR				MA	AFIC INDEX	:63.24	MARCOTTE	INDEX:	-1.68
		1,34	100 11 120 27		seems on the state of	net						Name - Antonio
**** NORMATIVE												
UARTZ : 23			E :			ITE :		HALITE	:	* WOLLAS		
	_37		LICATE :					FLUORITE	4	# ENSTA		
RTHOCLASE : E	1.04		ILICATE		ILMENI	-	.52	THENARDITE		* FERROS		0.07
LBITE : 48	3.32		LICATE :		SPHENE PEROVS	:		PYRITE		# ENSTAT	II (MP):	2.93
NORTHITE 13			STONITE					CHROMITE ZIRCON CALCITE	.1	# FERROS		2.15
		DIOPS				:		ZIRCON	:	* FORSTE		
EPHELITE :			STHENE :	5.09		APATITE:	.04	CALCITE	:	* FAYAL	TE (UL):	
ALIOPHILITE:	d (0.70)	OLIVI						_#####1TOTAL	99.87			
A COLUMN								1 25				
**** NORMATIV	E MINERAL	S RA	TIOS AND	INDEXES	*****							
R - AB - AN 1	11.5	69.3	19.2	COLOR IND	EX	: 6.24		AL X FELDSPA	RS 1. 9.77			
	25.2	8.6 6	6.2	CRYSTALLI	ZATION INDE	X: 15.46	TO	TAL % PLAGIOCI	ASES: 1.73			
VIZ-ONIN-FLHO :				DIFFERENT	IATION INDE	X: 56.73	PLA	AGIOCLASE INDI	-X :	22		
(12-OKIN-PLAG :								1				
RITTMAN VALUES									RITMAN VAL		***	
RITTMAN VALUES	ERS ****									A : 0	AN :	
RTZ-ORTH-PLAG : RITTMAN VALUES ***** MOLE NUME I : 1.172	FE+2:	022	NA .		P :		: 0					
RITTMAN VALUES ***** MOLE NUME I : 1:172	ERS ***** FE+2: MG : .	022	K :	.029	MN :	O H20	+: .0001	AL :	14.54 A	LK : 9.92		
RITTMAN VALUES **** MOLE NUME I : 1:172	FE+2:	022		.029		O H20		AL :	14.54 A			
RITTMAN VALUES **** MOLE NUME : 1:172 : :317 E+3: .006	FE+2: . MG : . CA :	022 029 .05	K : TI :	.029	MN : C02 :	0 H20	0001 0-: .0001	AL : FM :	14.54 A 2.38 K	LK: 9.92 : .13		
RITTMAN VALUES ***** MOLE NUME I : 1.172 - : .317 E+3: .006 ***** BAINS AND	FE+2: MG : . CA :	022 029 .05	K : TI : RISON TO	.029 .003	MN : CO2 :	O H2C	0+: .0001 0-: .0001	AL : FM :	14.54 A 2.38 K	LK: 9.92 : .13		
RITTMAN VALUES  **** MOLE NUME  1:1:172  ::317  :+3:.006  **** BAINS AND  HIS SAMPLE N	ERS ***** FE+2: M6 : . CA : CA :	022 029 .05 OY COMPAI	K : TI : RISON TO : 1.36	.029 .003 THE AVER	MN : CO2 : AGES OF THE 1.18	O H2C	0+: .0001 0-: .0001	AL : FM :	14.54 A 2.38 K	LK: 9.92 : .13		
RITTMAN VALUES  **** MOLE NUME  1:1:172  ::317  :+3:.006  **** BAINS AND  HIS SAMPLE N	FE+2: MG : . CA :	022 029 .05 OY COMPAI	K : TI : RISON TO : 1.36	.029 .003 THE AVER MGO :	MN : CO2 : AGES OF THE 1.18 1.04	O H2C	0+: .0001 0-: .0001	AL : FM :	14.54 A 2.38 K	LK: 9.92 : .13		
RITTMAN VALUES **** MOLE NUME  : 1:172  : :317  +3: .006  ***** BAINS AND HIS SAMPLE NORMAL VALUE	ERS ***** FE+2: M6 : . CA : CA :	022 029 .05 8Y COMPAI 71 K20	K : TI : RISON TO : 1.36	.029 .003 THE AVER MGO :	MN : CO2 : AGES OF THE 1.18 1.04	O H2C	0+: .0001 0-: .0001	AL : FM :	14.54 A 2.38 K	LK: 9.92 : .13		* 1 0000 0000 100 100 100 100 100
RITTMAN VALUES **** MOLE NUME : 1.172 : .317 +3: .006  **** BAINS AND ITS SAMPLE N	ERS ***** FE+2: MG : CA : LOSSES E	022 029 .05 8Y COMPAI 71 K20	K : TI : RISON TO : 1.36	.029 .003 THE AVER MGO :	MN : CO2 : AGES OF THE 1.18 1.04	O H2C O H2C ABITIBI V	0+: .0001 0-: .0001	AL : FM :	14.54 A 2.38 K	LK: 9.92 : .13		
RITTMAN VALUES ***** MOLE NUME I: 1.172 :: .317 E+3: .006 ***** BAINS AND HIS SAMPLE N RMAL VALUE AIN OR LOSS ***** LITHONAME	FE+2: MG : . CA :	022 029 .05 8Y COMPAI 71 K20 .7	K : TI : RISON TO : 1.36 1.4 04	.029 .003 THE AVER MGD:	MN : CO2 : AGES OF THE 1.18 1.04	O H2C O H2C E ABITIBI V	0+: .0001 0-: .0001	AL : FM : CDESCARREAUX,	14.54 A 2.38 K	LK: 9.92 : .13	20 0 0	
RITTHAN VALUES ***** MOLE NUME I : 1.172 - : .317 E+3: .006  ***** BAINS AND HIS SAMPLE NORMAL VALUE AIN OR LOSS  ***** LITHONAME CDONALD-KATSURA	FE+2: MG : . CA :	022 029 .05 8Y COMPAI 71 K20 .7 01 01 CANIC	K : TI : RISON TO : 1.36 1.4 04 ROCK) ##	.029 .003 THE AVER MGD:	MN : CO2 : AGES OF THE 1.18 1.0404	O H2C O H2C E ABITIBI V PRIORITY :	0+: .0001 0-: .0001 OLCANICS	AL : FM : (DESCARREAUX,	14.54 A 2.38 K	LK: 9.92 : .13		
RITTMAN VALUES **** MOLE NUME  1:1:172 ::317 E+3:.006  ***** BAINS AND HIS SAMPLE N RMAL VALUE AIN OR LOSS  ***** LITHONAME	FERS **** FE+2: MG : CA : DLOSSES E 420 : 5.7 A 1.0 A MAGMATIC S 1486MATIC S	022 029 .05 8Y COMPAI 71 K20 .7 01 01 CANIC	K : TI : RIBON TO : 1.36 1.4 04 ROCK) **	.029 .003 THE AVER MGD:	MN : CO2 : AGES OF THE 1.18 1.0404	O H2C O H2C E ABITIBI V	0+: .0001 0-: .0001 OLCANICS	AL : FM : (DESCARREAUX,	14.54 A 2.38 K	LK: 9.92 : .13		

DISCLAIMER : TI								THE USE OF TH	ESE DATA.
***** REFEREN	CE DATA ****	14	EEEDENCE . I	ADALIBE		SHEET : UTM EAST :			D NO. 1 31616
PROVINCE	TOWNSHIP	700	EFERENCE I LI	HEHUBE	NTS	SHEET :	LONG. 1	LAT	- 1
			UTM ZONE	: UTI	SQ. IDENT.	: UTM EAST		UTM NORTH :	
SEOL.AGE :	GEOL. PROV.	. : GEOL	ENVIRONMENT	Γ:	HADMATIC CC	RIES 1 SPEC	ROCK TYP	E : ROCK	NAME :
ESCRIPTION :		BIRALIGRAPH	IY		THUMAITU SE	RIES I SPEL	BRAVIII I		
	1 0 1 1 CM		(CC), 11						
**** ORIGINA	CXIDES AND	TRACE ELEMENT	S *****						
102 : 53.60	CAO : 6	5.90 MNO	: 0.20	S :	BI :	F : HG : L1 :	P	B :	ZN:
L203: 14.80	NA20 : 1	1.32 LOI	: 4.80	AG :	CL :	HG :	9	in :	
E203: 13.00	KZO : C	1.34 LII2	P.	AS :	CR	MO :	, in the second	K. 1	
E0 : 160 : 5.53	P205 1	).03 H20.	Mi	BA :	CU			1 1	
	* * * 1	*****	* * * * * * (	CALCUL	ATION	S * * * * * * *		* *	
**** NORMALI	ZED OXIDES (F	PYRITE REMOVE	IF SULFUR.	IRON AS 20%	FE203. AND_	BOX FED, DRY, TO	FAL=100%)_###	***	
102 : 56.13	AL2031 1	15.5 FE20	31 2.72	FEO :	7.8 MG	0 1 5.79	CAO 1 7.23		
IA20 : 1.38	1K2D 1	.36 T102	1 186	P205 :	.03 MM	0 : 5.79 0 : .21			
HUNNE OVINCE	DATTOR AND	D THREVER MANA							
-F-M	: 8.68 62.	.44 28.88	FEO (TO	DTAL)/MGO :	2.12	ALKALINITY RAT	ID : NA	BASICITY I	NDEX : 19.03
A20-K20-S102	1 2	1 97		.K20/NA20 :	. 26	ALKALI_INDEX	:20.69 SC	LIDIFICATION I	NDEX : 29.27
20/NA20+K20	: .21					ALKALINITY RAT ALKALI INDEX FELSIC IND MAFIC INDEX	EX: 19.4 :68.38	MARCOTTE I	NDEX : 41.67 NDEX : .01
***** NORMATI	VE MINERALS -	LISTING *** ACMITE : CA-SILICATE :	+++						
WARTZ :	16.12	ACMITE :		MAGNETITE	: 3.94	HALITE FLUORITE	1	* WOLLAST	O(DF): .25
ORUNDUM :	A STATE OF THE STATE OF	CA-SILICATE		HEMATITE		FLUORITE.		* ENSTATI	I(DP):12
ARITE .	11 A9	NA-MSILICATE		SPHENE	: 1.65	PYRITE		# FNSTATI	T(HP): 14.29
				PEROVSKITE	Ε	THENARDIT PYRITE CHROMITE		# FERROSI	L(HP): 14.59
EUCITE :		DIOPSIDE :	.5	RUTILE	:	ZIRCON	:	* FORSTER	S(OL):
EPHELITE :		HYPERSTHENE :	28.89	FLUORAPAT	ITE: .02	ZIRCON CALCITE *****TOT		* FAYALIT	E(OL):
	and the second second	The Part of the Control of the Contr				*******	AL*: 99.92		
**** NORMAT	IVE MINERALS	RATIOS AND	INDEXES ***	***					
IR - AB - AN	24.8	5.9 71.8	COLOR INDEX	TON TAMEY.	34.96	TOTAL % FELDS	PARS 1.8.82	2	
	: 24.8	3.2 /1.9	DIFFERENTIAL	ION INDEX:	13.79	TOTAL % PLAGI PLAGIOCLASE I	NDFY .	75	
RIZ-URIH-PLAG			DATE COLUMN	TON PRODUCT	(4.10) + (0.10)				
RTZ-URTH-PLAG									
RITTMAN VALU									
RITTMAN VALU	MBERS *****					****	** RITMAN VAL	UES *****	an .
RITTMAN VALU	MBERS ##### FE+2: 13	36 NA 1	045 P	0	S :	0 51	56.13	CA 1 0	.AN :
RITTMAN VALU: ****** MOLE NU **: 934 **: 304 **: 034	MBERS ##### FE+2: 13	36 NA 1 44 K :	.008 MN	: .003	H20+: H20-:	0 51	56.13	CA : 0	.AN :
RITTMAN VALU ***** MOLE NU I : 934 L : .304 E+3: .034	MBERS ****** FF+2: 13 MG : .14 CA : .12	36 NA : 44 K : 29 TI :	.008 MN	: .003 2: 0	H20+: H20-:	0 51 .0001 AL .0001 FM	1 56.13 ( 1 13.95 ( 1 11.71 )	CA : 0 ALK : 2.43 < : .14	.AN :
RITTMAN VALU ****** MOLE NU II : .934 NL : .304 E+3: .034	MBERS *****  FE+2: 13  MG : .14  CA : .12	3A NA : 44 K : 29 TI :	.008 MN .011 CO	: .003 2: 0	H20+: H20-:	0 SI .0001 AL .0001 FM	1 56.13 ( 1 13.95 ( 1 11.71 )	CA : 0 ALK : 2.43 < : .14	AN :
RITTMAN VALU ***** MOLE NU BI : .934 NL : .304 E+3: .034 ***** BAINS A	MBERS ***** FE+2: 13 MG : .14 CA : .12 ND LOSSES BY NA20 : 1.38	36 NA : 44 K : 29 TI : COMPARISON TO K20: 36	.008 MN .011 CO	: .003 2: 0 5 OF THE AB	H2O+: H2O-: ITIBI VOLCA	0 51 .0001 AL .0001 FM	1 56.13 ( 1 13.95 ( 1 11.71 )	CA : 0 ALK : 2.43 < : .14	AN :
RITTMAN VALUE	MBERS *****  FE+2: 13  MG : .14  CA : .12	36 NA : 44 K : 29 TI : COMPARISON TO K20: .36	.008 MN .011 CO THE AVERAGE MGQ r 5.7	: .003 2 : 0 5 OF THE AB 9	H2O+: H2O-: ITIBI VOLCA	0 SI .0001 AL .0001 FM	1 56.13 ( 1 13.95 ( 1 11.71 )	CA : 0 ALK : 2.43 < : .14	AN :
RITTMAN VALUE	MBERS ***** FE+2: 13 MG : .14 CA : .12 ND LOSSES BY NA20 : 1.38 3.61 -2.24	36 NA 1 44 K : 29 TI : COMPARISON TO K20: .36	.008 MN .011 CO THE AVERAGE MGO : 5.7 4.5	: .003 2 : 0 5 OF THE AB 9	H20+: H20-: ITIBI VOLCA	0 SI .0001 AL .0001 FM	1 56.13 ( 1 13.95 ( 1 11.71 )	CA : 0 ALK : 2.43 < : .14	AN :
RITTMAN VALUE RI	MBERS ****** FF+2: 13 MG : .14 CA : .12 ND LOSSES BY NA20 : 1.38 3.61 -2.24	36 NA : 44 K : 29 TI : COMPARISON TO K20: 36 A7 -:12	.008 MN .011 CO THE AVERAGE MGO r 5.7 4.5	: .003 2: 0 5 OF THE AB 9 7 6 PRI	H2D+: H2O-: ITIBI VOLC#	0 SI .0001 AL .0001 FM	: 56.13 ( : 13.95 / : 11.71 / X, 1973) ****	CA : 0 ALK : 2.43 < : .14	AN :
RITTMAN VALUE RI	MBERS ****** FF+2: 13 MG : .14 CA : .12 ND LOSSES BY NA20 : 1.38 3.61 -2.24	36 NA : 44 K : 29 TI : COMPARISON TO K20: 36 A7 -:12	.008 MN .011 CO THE AVERAGE MGO r 5.7 4.5	: .003 2: 0 5 OF THE AB 9 7 6 PRI	H2D+: H2O-: ITIBI VOLC#	0 SI .0001 AL .0001 FM	: 56.13 ( : 13.95 / : 11.71 / X, 1973) ****	CA : 0 ALK : 2.43 < : .14	AN :

DIS	CLAIME	R : TH	E OV	NER	OF 1	THE	PROG	RAM I					FOR	ANY	PROBL	.EMS (	RERF	ORS	THAT	MAY	ARISE	FROM		9:03:4 USE 0			MAY E	17
AUTI	HOR: LI VINCE	FERENC APAUSE	E DA	ATA 4	YEAR		1987		REFE	RENC	EıL	APAU	SE			NTS 9	HEET				LONG.			SAME	LE N		460,025.	
GEOL	. AGE	t	GE	OL.F	ROV.			GEO	L. E	UTM	ZONE	: T :		UTM :	50.10	ENT.		UTM	EAS'	T :	ROCI	< TYP	E :	TM NOF	TH :			
DESC	TEXT :	DN 1	4						4	S1											RAVIT		12	3		** : - : - : - : - : - : - : - : - : - :		
<b>共装装</b>	HHH. DR	IGINAL	mine t		Tax a diam	100	ALC: NAME	The second second		***	*					ionos ar 13 ta		1,110,000	2		اعتشعت	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			Mil To	À		
SIO:	2 : 71. 03: 15.	.60	1	A0 1A20	1 8	3.25		LOI	:	1.7	0	S AG	1			BI :			F	1		S	B t N :			ZN :		
FEO HBO	2 : 71 03: 15 03: 2	18		102		26	1.1.3	H20	.Pı			AS	1		-	CR :	AL ALLES		MO				R					
iou.	181213	*2.453	200	* *		(1 A)			* *		* *	CA	L C U	LA	TI	ONS	* *	* *	* * :		* * *		-				-	
	*** NO	DMAI 17	ED (	NIDE	e //	VDT	TE D	EMOUE	n 15	CIII	ELID	TRON	AC 2	0% E	5203	AND 6	07 FE	O D	by '	TOTAL	~1007	) . ###	***					
310: 1A20	2 1 72 0 1 8	31	幣	1.203 (20		. 12 . 18		FE2 TIO	03 2	. 2	6	P2	05 1	1.5	8 4	MBC	1	.46		CAC		.64						-
***	*** OX -M 0-K20-1	IDES -	- RA	SOITE	ANI	IN	DEXE	5 ###	***															BASICI				
1A21	NA20+	SID2 :	Star	02	distribution of the second	1500	Araby.	89	30 1	-		_K20	ZNA20	1	. 02	2								FICATI				
53	/NA20+I				1.			74.			met at						MA	FIC	INDE	X	:81.4	5		MARCO1				
UAI	*** NOI	RMATIV	E MI	NERA	LS -	- L	IST I	NG **	**** :				GNETI													D (DP)		
RTH	JNDUM_ HOCLASI	E	1.07	" Street	2. 0. 4	NA-	1SIL	CATE				IL	MATIT MENIT	E	1	. 49		THE	NARD:	ITE	1			# ENS	RROSI	L(DP)		
NO!	ITE RTHITE	7	2.93	12 1	a si	NOL	LAST	CATE	! 1				HENE ROVSK				-	PYR	ITE OMITI	Ε	1			* ENS	RROSI	L(HP)	2.1	4
VEP	CITE HELITE LOPHIL	:				HYPI	ERST	HENE	:	3.3		FL	TILE UORAP	ATIT	E:	.03					: 99.9			* FOF	RSTER	E(OL)		
***	*** NO	ORMATI	VE I	IINER	ALS	-	RATI	NA BC	D IN	IDEXE	S ***	***																
3R ∴ 2RT	Z-ORTH	-PLAG	:	21.3	9/	. 1	77.	5	CRY	STAL	NDEX LIZAT NTIAT	ION	INDEX	:	3.74		TOT	AL %	PLA	SIOCL	ASES:	3.26	4	9 9				P-49
	TTMAN					3.5	14												Cree 14									
	*** MOI						N	A	. 2	PAR	P		- 00	1	S		0							*****		AN		
AL	: .3:	12		2		1	K	:	.0		MN				H20	)+: . )-: .	0001		AL FM	: 1	4.32	A	LK :	12.64	\$			
THIS	*** GA	LE . W	NA2C		.31	K	201	4.18	1 M	1GO :	. 4	6		ABIT	IBI V		ICS (				1973)				2			100
	VAL VAL				4.7			-1.37					P	RIOR	ITY :													
***	HH LI	THONAM	ES	(IF	YOL	ANI	C RO	CK) #	美美美芸	<b></b>								-	- company or other	and region from	a manage company							
MCDO	ONALD-I	KATSUR	A H	TAME	IC 8	ERI	183	BUBAL	KALI	NE .		TVDE	& FI NAME	ELD.	NAME	1		. 3	Ju. "		+ +1							

JTHOR: LAPAUSE	DATA ****** YEAR	1987 RE	FERENCE : LAF	PAUSE				RECORD NO.: SAMPLE NO.: LAT.:: UTM NORTH:	31618
ROVINCE 1	TOWNSHIP	and the state of t			NTS SHEET	4	LONG.	LAT	
			UTM ZUNE	บาท รผ	. IDENI.:	UIM EAST :	DOOK TUDE	UIR NURTH I	
EOL.AGE :	GEOL. PROV. 1	GEUL.	ENVIRONMENT	2			RULK I THE	I RUCK NHITE I	
DNTEXT :		TRATIORAPHY	The second reserve	MAGM	ATIC SERIES	spec. (	RAVITY 1	eller in a language at a con-	
EBCRIPTION			:3			5 m 对键 4 cm		105-	
**** ORIGINAL	38					11445	J 3 45 8 8 7 1	mile and the mile and	
**** ORIGINAL	DXIDES AND TRA	CE ELEMENTS	MARKET	سنشب المداعية	تعلقه مهمست والمتاسسين		فالمشائل فيستناه فللماطالة	and the same of the same of the same	
102 : 35.60	CAO : 2.00	MNO	: 0.10	S:	BI:	F 1	PB	z ZN :	
.203: 8.88	NA20 : 0.02	LOI	: 20.10	AG :	CL:	HG :	SN	İ	
203: 11-10	K20 . 0.06	C02	1	AS :	CO :	LI_+	SR	La carrier de la composition de la carrier d	-
ED : Add to	TI02 1 0.41	H20. P	1 10 S	AU :	CR :	MO :	V	: ZN :	
19.80	P205   0.34	H20.1	la .	BA :	CU :	NI:	. (1.1 ≥ 1.1 W)	1	
the star straigh		18 18 Z 18 18 18 18 18 18 18 18 18 18 18 18 18				A 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
			*****	ALCULAT	I O N S # #	* * * * * * *		****	
	5 6VIDES (6V5)	TE DEMOUSED	TE CH EUD T	DON: AC DAY EED	DT AND 004 E	ED DOV TOTAL	-10091 #####		
**** NORMALIZE	D DYIDES TPYRI	TE REPUVED	JE SULFUR, U	UN AS ZUL FEZ	US HAD BOX F	EU- DICY- IUIN	TETOON TEXAS	***************************************	
102 1 46.12 A2D 1 .03	AL203( 111.5	FEZUS	2.87	FED 1 10.35	MOU \$	23.63 LH	1 2.39		
A2D 1	K20 1 P	1102	\$ 53 Fee	P205 : .14	MNO. s	.13			
24 34 2 2 2 2 3 4 3		The state of the s	<u> </u>		ورشده کاکمان در میدانست	-			19.60
***** OXIDES	RATIOS AND IN	IDEXES ****	++						
-F-M :	.28 33.91	65.8	FEO (TO	TAL)/MGO :	.5 ALK	ALINITY RATIO	: 1.02	BASICITY INDEX : DIFICATION INDEX :	27.34
A20-K20-S102 :	0 0	100		K2D/NA20: 2	. 67 ALK	ALI INDEX	172.73 SOLI	DIFICATION INDEX :	66.29
20/NA20+K20 1	.73	11-04				CEL CIC THREY	. A 07	HACHIMOTO INDEX .	90.76
9 6	100	district.			- M	AFIC INDEX	:34.01	MARCOTTE INDEX :	7.35
1.15	1	Water August			100				
**** NORMATIVE	MINERALS I	ISTING ****	***						
IART7	ACI	ATTE -		MAGNETITE .	4.16	HAL ITE		* WOLLASTO (DP):	
DOI NITH .	7	CTL TCATE		HEMATITE .		FLUORITE		# WOLLASTO (DP): # ENSTATII (DP):	
OTUDO ACC	AR A SECTION	MOTE TOATE		TIMENTTE -	1 3	THENARDITE		# FERROSII (DP):	
DITE		MOTILICATE -		COUENC -	• 10	PYRITE		# ENSTATIT (HP) .	49.85
LDIIL	-21	PALICHIE!		DEPOUEVITE -		CHOOMITE	:	# EEBBOGII (HE) .	12.48
NURIHITE 1 11	- 42	LASIUNITEL		FERUVSKIIE :		LITORN	The second of the second	# ENSTATII(DP); # FERROSIL(DP); # ENSTATII(HP); # FERROSIL(HF); # FORSTERS(D);	0 01
EUCITE :	DIC	PSIDE :		KULILE I		ZIKCUN		* FORSTERS(OL): * FAYALITE(OL):	7.01
EPHELITE :	HYF	PERSTHENE :	62.34	FLUORAPATITE:	. 11	CALCITE	:	* FAYALITE (UL):	2./1
ALIOPHILITE:		LVINE :	12.54		12 Sar   12 P = 246	-*****: TOTAL	*: 99.Z3	4 - 44 - 45 - 4	
		Art and a second							
**** NORMATIV	E MINERALS	RATIOS AND	INDEXES ****	**					
R - AR - AN .	3.6	94.B	COLOR INDEX	: BO.	04 TC	TAL % FELDSPA	RS 2.58		
	0 3.6	96.4	CRYSTALLIZATI	DN INDEX: 56.	67 TD	TAL % PLAGIOC	LASES: 2.13		
RTZ-ORTH-FLAG :		I	DIFFERENTIATI	ON INDEX: 7	.66 PL	AGIOCLASE IND	EX : 98	3	
RTZ-ORTH-FLAG:									
RTZ-ORTH-PLAG :									
	1 4					*****	RITMAN VALUE	5 *****	
RITTMAN VALUES	FOO HANANA					St .	46.12 CA	: -4 AN :	
RITTMAN VALUES	FOO HANANA	NA .	001 0	• 002				12	
RITTMAN VALUES	ERS *****	NA I	_001 P	002	U204 0001	Δι .	የብ ፕሮ ል፣ ል		
RITTMAN VALUES	ERS *****	NA s	.001 P	: .002	H20+: .0001	AL :	10.35 ALF		
RITTMAN VALUES	ERS *****	NA : K : TI :	.001 P .002 MN .007 C02	: .002	H20+: .0001	AL:	10.35 ALF 51.44 K	: .66	
RITTMAN VALUES ***** MOLE NUMB I : .768 L : .226 E+3: .036	ERS ***** FE+2: 144 MG : .636 CA : .046	K : TI :	.002 MN .007 CO2	: .002	H2D+: .0001	AL: FM:	process and the last	AND THE RESIDENCE OF THE PARTY	
RITTMAN VALUES ***** MOLE NUMB I : .74B L : .226 E+3: .036	ERS ****** FE+2: 144 MG : .636 CA : .046	TI:	.002 MN .007 CO2	: .002 : 0	H20+: .0001 H20-: .0001	AL : FM :	process and the last	AND THE RESIDENCE OF THE PARTY	
RITTMAN VALUES ***** MOLE NUMB I : .74B L : .226 E+3: .036	ERS ****** FE+2: 144 MG : .636 CA : .046	TI:	.002 MN .007 CO2	: .002 : 0	H20+: .0001 H20-: .0001	AL : FM :	process and the last	AND THE RESIDENCE OF THE PARTY	
RITTMAN VALUES ***** MOLE NUMB I : .76B L : .226 E+3: .036 ***** GAINS AND HIS SAMPLE N DRMAL VALUE	FERS ****** FE+2: .144 MG : .636 CA : .046 LOSSES BY COM	TI:  PARISON TO (20: 2.08	.002 MN .007 CO2 THE AVERABES MGO : 25.65	OF THE ABITIE	H20+: .0001 H20-: .0001	AL: FM:	process and the last	AND THE RESIDENCE OF THE PARTY	
RITTMAN VALUES ***** MOLE NUMB I : .74B L : .226 E+3: .036	FERS ****** FE+2: .144 MG : .636 CA : .046 LOSSES BY COM	TI:  PARISON TO (20: 2.08	.002 MN .007 CO2 THE AVERABES MGO : 25.65	OF THE ABITIE	H20+: .0001 H20-: .0001	AL : FM :	process and the last	AND THE RESIDENCE OF THE PARTY	
RITTMAN VALUES ***** MOLE NUMB I : .76B L : .226 E+3: .036 ***** GAINS AND HIS SAMPLE N DRMAL VALUE	FERS ****** FE+2: .144 MG : .636 CA : .046 LOSSES BY COM	TI:  PARISON TO (20: 2.08	.002 MN .007 CO2 THE AVERABES MGO : 25.65	OF THE ABITIE	H20+: .0001 H20-: .0001	AL : FM :	process and the last	AND THE RESIDENCE OF THE PARTY	
RITTMAN VALUES  ***** MOLE NUMB  I : .74B  L : .226  E+3: .036  ***** GAINS AND  HIS SAMPLE NORMAL VALUE  AIN OR LOSS	ERS ****** FE+2: .144 MG : .636 CA : .046 D LOSSEB BY COM MAZO : .03 ) -2.2 -2.18	FI :  1PARISON TO (20:	.002 MN .007 C02 THE AVERAGES MGD : 25.65 8.69 16.65	OF THE ABITIE	H2D+: .0001 H2D-: .0001 BI VOLCANICS	AL: FM: tDESCARREAUX,	process and the last	AND THE RESIDENCE OF THE PARTY	
RITTMAN VALUES  ***** MOLE NUMB  I : .74B  L : .226  E+3: .036  ***** GAINS AND  HIS SAMPLE NORMAL VALUE  AIN OR LOSS	ERS ****** FE+2: .144 MG : .636 CA : .046 D LOSSEB BY COM MAZO : .03 ) -2.2 -2.18	FI :  1PARISON TO (20:	.002 MN .007 C02 THE AVERAGES MGD : 25.65 8.69 16.65	OF THE ABITIE	H2D+: .0001 H2D-: .0001 BI VOLCANICS	AL: FM: tDESCARREAUX,	process and the last	AND THE RESIDENCE OF THE PARTY	
RITTMAN VALUES  ***** MOLE NUMB  I : .74B  : .226  E+3: .036  ***** GAINS AND  HIS SAMPLE N  DRMAL VALUE  AIN OR LOSS	ERS ****** FE+2: .144 MG : .636 CA : .046 D LOSSEB BY COM MAZO : .03 ) -2.2 -2.18	FI :  1PARISON TO (20:	.002 MN .007 C02 THE AVERAGES MGD : 25.65 8.69 16.65	OF THE ABITIE	H2D+: .0001 H2D-: .0001 BI VOLCANICS	AL: FM: tDESCARREAUX,	1973) *****	AND THE RESIDENCE OF THE PARTY	

CLIENT : LAPAUSE SURFACE DATA FILE : LAPAUSE 09:05:00FM 16 MAY 87

**** REFERENCE UTHOR: LAPAUSE ROVINCE	E DATA *	YEAR I	1987	REFERENC	CE : LAPA	AUSE	NTC	SHEET	•	LONG		RECORD NO.: SAMPLE NO : LAT. : UTM NORTH : ROCK NAME	31619
				1177	1 70NF +	LIT	M SO IDENT	onee:	HTM FAST	LUND.		LITH MODTH .	
EOL.AGE :	GEOL.P	ROV. I	GEC	L. ENVIF	RONMENT :		II SGLIDENI	• •	OTT EAST .	ROCK	TYPE :	ROCK NAME	:
ONTEXT:			TRATIGRAP	HY_+			MAGMATIC S	ERIES :	SPEC.	GRAVITY	· 4 mayoraya		
ESCRIPTION :				A.							716		
***** ORIGINAL	OXIDES	AND TRA	CE ELEMEN	TS ****	the manner	eila							
102 : 69.20	CAU	: 2.02	MNO	1 0.0	03 8	5 1	BI	=	F 1		PB :	ZN :	
203: 10.00	NHZU V20	. 7.40	007	: 2.0	,	40 I	CD		MG 1		SN I		
FO (	TIDS	0.31	HOL	. P.		MI 4	CD.		MO .		U i	ZN :	
30 1 1.50	N P205	0.08	H20	. Mt		AA :	CII		NT t	4 200	N. T.		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		a with market	<b>新疆大学</b>	14.7	- 15						4.7	**************************************	
NORHALIZ 102 : 69.7 A20 : 4.64	ED OXIDE AL203 K20	S (PYR)	TE REMOVE	D IF SU 031   1	FUR, IRO	ON AS 20% FEO : 1	.95 N	80% FEI	0, DRY, IO1 1.51 .03	AL=100%)	.03	33	
MANA OYING	- PATIO	OND TA	DEVEC AL	28/3/24/3 A									
-E-W .	- KM 1105	22.35	T SE	A A A	FEO (TOTA	MSD .	1.41	AI VAI	I INITY PAT	n . NA		BASICITY INDEX: IFICATION INDEX: HASHIMOTO INDEX: MARCOTTE INDEX:	A 76
A20-K20-SID2	A	7	91		120(101)	20/NA20 •	.54	DI KUI	TI INDEA	135 A1	SOL TO	TETCATION INDEX :	13.42
2D/NA20+K20 1	- 35	1 100	Call Schelage			20/14620 .			EELSTO INDE	X 1 77 F	A	HASHIMOTO INDEX :	37.55
A brack that is	T 150 50		1 3 3 3 4 4					MAI	FIC INDEX	162.25		HASHIMOTO INDEX : MARCOTTE INDEX :	8
Charles Later a	10.70	1					Dr. a.J. race a						
***** NORMATIV	JE MINERA	LS L	ISTING **	****									
DARTZ : 2	25.47	ACM	IITE	1	1	MAGNETITE	1 .78	}	HALITE	2		# WOLLASTD (DP):	
ORLINDUM :	2.82	CA-	SILICATE	-	1	HEMATITE			FLUORITE			* ENSTATIT(DP):	
RTHOCLASE 1	4.76	NA-	MSILICATE	. 2		LMENITE	1 ,59	,	THENARDITE	E 1		* FERROSIL (DP):	
MODILITE .	9.28	and the state of	SILICATE		3	PHENE	:		PYRITE	ž.		# ENSIATIT (HP):	3.76
FICITE	- Z. D. Z	DIC	PRIDE			SITTIE	C 1		7 I PCON			* FORSTERS(OL):	4.0/
EPHELITE :		HYP	ERSTHENE	: 6.43	·	LUORAPAT	ITE: .04	1	CALCITE			* FAYALITE (OL):	
ALIOPHILITE:		OL.I	VINE	1		200/11/11/11			***** TOTA	L*: 99.E	6	" THE TE TOUT	
**** NORMATI	UE MINER	A G	PATTING AL	D INDEVI								* WOLLASTO (DP):  * ENSTATIT (DP):  * FERROSIL (DP):  * ENSTATIT (HP):  * FERROSIL (HP):  * FORSTERS (OL):  * FAYALITE (OL):	
R - AB - AN	23.2	61.6	15.2	COLOR	INDEX		7.8	TOTA	AL % FELDSE	PARS :	3.73		
RTZ-ORTH-PLAG	: 28.6	16.5	54.9	CRYSTAL	LIZATION	INDEX:	12.33	TOT	AL % PLAGIC	CLASES:	8.97		
R - AB - AN RTZ-ORTH-PLAG				DIFFERE	ENTIATION	INDEX:	56.86	PLA	GIOCLASE IN	NDEX :	20		
RITTMAN VALUE	.5 *		1.										
**** MOLE NUM	MEKR ###	***	NA .	4 85	-			^	****	* RITMAN	VALUES	****** 12 AN :	
720	MG	077	NA !	15 .	MAI .	.001	B :	0001	SI	15 04	EA.	1 -2 AN :	14
: .328 E+3: .007	CA +	.037	TT :	.004	CUS	. 0	H20-:	.0001	FM :	3.04	K	. 7.40	
	<b>Э</b> П .	. 000		.004	002		H20-1	.0001	111	3.04			
BEERE GATNE AN	ID LOSSES	BY CON	PARISON T	O THE AV	VERAGES (	OF THE AE	ITIBI VOLC	ANICS (	DESCARREAU	(, 1973)	*****		
HIS SAMPLE		4.7 MAN	1.34	31 111	1.15	w 16 w	DIRECTOR BOTA	1 10 to the 2 and	de la companya de la	N 11			
ORMAL VALUE		· na	1.16	ı	. 18	PRI	ORITY:						
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THERN LAPACHE   THERN   TERM   TOWNSHIP   TERM	**** REFERENCE	DATA ***	***	1.4											RE	CORD NO. 1	31620
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STRATIGNOPHY   STRA	OVINCE	TOWNSHIP		- 1. Lilian	a di				NTS SH	HEET :			LONG. :			LAT. 1	
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#### ORIGINAL OXIDES AND TRATE ####################################				TREADHA	-			MAGMA I	IL SEK	LES -1	5	relia i	RMVIIY.		4-14-1	are a late to	Table 1 1 1 1 1 1 1
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#### MORMAL IZED_DUIDES GVRITE REMOMED TO SULFUR, IRDN AS 20% FE203 AND 80% FE0, DRY, TDTAL=100%) *******  12 : 47,12	T2 : 41.60	CAO :	6.17	MNO	0.18	9	1		BI :		F	1		PB :		ZN :	
#### MORMAL IZED_DUIDES GVRITE REHOMED TO SULFUR, IRDN AS 20% FE203 AND 80% FEQ. DRY, TDTAL=100%) *******  12 : 47.12   PL203   5.86   FE203   2.56   FE0 : 9.22   M80 : 26.73   CAO : 6.99    20 : .09   K20   502   TI02 : 41   P205 : .09   MNO : .2  ***********************************	203: 5.81	NA20 1	0.08	LOI	9.30	Ā	G :		CL :		Н	B :		SN a			
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### NORMATIVE MINERALS LISTING ***** ARTZ : MACMITE : MAGNETITE : 3.7 HALITE : **MOLLASTO(DP): 6.92 RINDUM : CA-SILICATE : HENATITE : FLUORITE : **ENSTATIT(DP): 5.13 FMOCLASE : .1 NA-MBILICATE: ILMENITE : .77 THENARDITE : **ENSTATIT(DP): 5.13 PITE : .76 KMSILICATE : SPHENE : PYRITE : **ENSTATIT(HP): 29.72 RINTHITE : 17.49 MOLLASTONITE: PERDOSKITE : CHROMITE : **FERROSIL(HP): 6.48 DISTE : DIOPSIDE : 13.17 RUILE : ZIRCON : **FERROSIL(HP): 6.48 PHELITE : HYPERSTHENE : 36.2 FLUORAPATITE: .07 CALCITE : **FAYALITE(OL): 5.34 PHELITE : OLIVINE : 27.56  ***** NORMATIVE MINERALS RATIOS AND INDEXES ***** ************* *****************	**** OXIDES	- RATIOS A	ND INDEXE	5 ****	*												
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######################################	**** NORMATIVE	MINERALS	LISTI	NG ***	**												
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######################################	THOCLASE	1 2 30 0 2	NA-MSIL	ICATES		1	LMENTIE		.//	1	HENAK	DITE	1		# FERR	ATIT (UP)	20 72
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######################################	UCITE :	-7.7	DIOPSID	E :	13.17	R	UTILE	:			IRCON		1		* FORS	TERS (OL)	22.17
**** NORMATIVE MINERALS RATIOS AND INDEXES ******  - AB - AN : .5	PHELITE :		HYPERST	HENE :	36.2	F	LUORAPA	TITE:	.07	Ċ	CALCIT	E	:		* FAYA	LITE (OL)	5.34
**** NORMATIVE MINERALS RATIOS AND INDEXES ******  - AB - AN : .5	LIOPHILITE:		OLIVINE		27.56				1 1000		****	TOTAL	1: 99.8	2			
- AB - AN : .5				Marin .													
TZ-ORTH-PLAG: 0 .5 99.4 CRYSTALLIZATION INDEX: 71.55 TOTAL % PLAGIOCLASES: 8.25 DIFFERENTIATION INDEX: .86 PLAGIOCLASE INDEX: 96  RITTMAN VALUES *  ***** MOLE NUMBERS ******  1.784 FE+2: .128 NA : .003 P : .001 S : .0 SI : 47.12 CA : .3 AN :  1.129 MG : .663 K : .0 MN : .003 H20+: .0001 AL : 5.92 ALK : .15  +3: .032 CA : .125 TI : .005 CO2 : .0 H20-: .0001 FM : 53.58 K : .13  ***** GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ******  IS SAMPLE NA2D : .09 K2D: .02 MGO : 26.73  RMAL VALUE 2.34 .19 B.22  IN OR LOSS -2.2516 18.28 PRIORITY :	**** NORMATIV	E MINERAL	S RATI	DS AND	INDEXES	*****	•										
RITTMAN VALUES *  **** MOLE NUMBERS *****  1.784	- AB - AN 1	5_	4.1 95	.3 C	OLOR_IN	DEX	1	81.4		TOTAL	% FE	LDSPA	RS : 8	3.35			
RITTMAN VALUES *  **** MOLE NUMBERS *****  1.784	TI-ORTH-PLAG:	0	.5 99.	4 C	RYSTALL	IZATION	INDEX:	71.55	5	TOTAL	. % FL	AGIOC	ASES: 1	3.25			
***** MOLE NUMBERS ******  1 784 FE+2: 128 NA : .003 F : .001 S : .0 SI : 47.12 CA : 3 AN :  1 .129 MG : .663 K : .0 MN : .003 H2D+: .0001 AL : 5.92 ALK : .15  +3: .032 CA : .125 TI : .005 CD2 : .0 H2D-: .0001 FM : 53.58 K : .13  ***** BAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ******  IS SAMPLE NA2D : .09 K2D: .02 MGD : 26.73  RMAL VALUE 2.34 19 B.22  IN OR LOSS -2.2516 18.28 PRIORITY :				D	IFFEREN	TATION	I INDEX:	. 8	36	FLAG.	LUCLAS	F IND	:. X :	96			
***** MOLE NUMBERS ******  1 784 FE+2: 128 NA : .003 F : .001 S : .0 SI : 47.12 CA : 3 AN :  1 .129 MG : .663 K : .0 MN : .003 H2D+: .0001 AL : 5.92 ALK : .15  +3: .032 CA : .125 TI : .005 CD2 : .0 H2D-: .0001 FM : 53.58 K : .13  ***** BAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ******  IS SAMPLE NA2D : .09 K2D: .02 MGD : 26.73  RMAL VALUE 2.34 19 B.22  IN OR LOSS -2.2516 18.28 PRIORITY :	DITTMON HALLIE	2 #															
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IN OR LOSS -2.2516 18.28 PRIORITY:	#### BAINS AND	LOSSES B	Y COMPARI	SON TO	THE AVE	RAGES C	F THE A	BITIBI	VOLCAN	ICS (DE	ESCARR	EAUX,	1973)	*****			
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TYPE & FIELD NAME :	IN OR LOSS	-2.2	5	16		18.28	PR	IORITY	1								
ONALD-KATSURA MAGMATIC BERIES: SUBALKALINE TYPE & FIELD NAME :																	
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	**** LITHONAME	-	interior, of smarr	MI INDI LAKE	TARE .	- March 100											

	DATA ***	**	S. J. J. Co.							CORD NO.: 31621	
THOR: LAPAUSE	YEA	R 4 1987	RE	FERENCE I	LAPAUSE	NTC	SHEET :	LONG	SAMPLE LITH MORTH	E NO :	
OVINCE 1		- E - company of the company of the contract o		LITM 70N	E :	HTM SO IDENT	: UTM EAS		UTM NORTH	umin is -	
OL.AGE :	GEOL. PROV	. :		ENVIRONME			3177 2112			DCK NAME :	
NTEXT :				and the second second		MAGMATIC SE	RIES : SPI	C. GRAVITY	4	The state of the s	-
SCRIPTION :											
**** DRIGINAL 02 : 41.50 203: 5.20	OVEREC AND	TRACE E	EMENTE							A CANADA	
02 : 41.50	CAO :	6.03	MNO	: 0.17	S :	EI :	F		PB:	ZN 1	
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20-K20-S102 :	Ω		100		K20/NA2	20: .18	ALKALI INDEX	:15.38	SOLIDIFICATION	N INDEX : 73.3	
D/NA20+K20 i	15 HE	A 是 2. 数14			- 5		FELSIC I	NDEX : 1.9	HASHIMOTO	D INDEX : 81.24	
	2009 February	9. 10.	200	S. C. C. C.			MAFIC INDE	: 26.89	MARCOTTI	E INDEX : 7.58	
	日本の大学を表示しています。 1000年 - 1000年 - 10000年 - 1000年 - 100	7.10	THE RESERVE OF THE PARTY OF THE	Ser Section							
					and the same of th						
**** NORMATIVE	MINERALS	LISTI	NG ***	**		TITE : 3.42	HALITE			ASTO(DP): 7.27	
**** NORMATIVE	MINERALS	LISTI	NG ****	**	HEMAT	ITE :	FLUORIT	E, 1	* ENST	ATIT(DP): 5.52	
**** NORMATIVE ARTZ : RUNDUM	MINERALS	LISTI ACMITE CA-SILI	CATE :	75-35-05-5	HEMAT I	ITE : .69	ELUORIT THENARD	ITE I	* FERRI	ATIT(DP): 5.52 OSIL(DP): 1	
**** NORMATIVE ARTZ : RUNDUM	MINERALS	LISTI ACMITE CA-SILI NA-MSILI K-MSILI	CATE :		ILMENI SPHENE	ITE : .69 E :	ELUORIT THENARD	ITE I	* FERRI	ATIT(DP): 5.52 OSIL(DP): 1	
**** NORMATIVE ARTZ : RUNDUM THOCLABE BITE ORTHITE : 15	MINERALS	LISTI ACMITE CA-SILI NA-MSILI K-MSILI	CATE :		ILMENI SPHENE	ITE : .69 E :	FLUORIT THENARD PYRITE CHROMIT	TE .	# ENST/ # FERRI # ENST/ # FERRI	ATII(DP): 5.52 OSIL(DP): 1 ATIT(HP): 24.18 OSIL(HP): 4.41	
**** NORMATIVE ARTZ : RUNDUH THOCLABE BITE DRTHITE : 15 UCITE :	MINERALS	LISTI ACMITE CA-SILI NA-MSILI K-MSILI	CATE :		ILMENI SPHENE	ITE : .69	FLUGRIT THENARD PYRITE CHROMIT ZIRCON CALCITE	ITE I	* ENST * FERRI * ENST * FERRI * FORS * FAYAL	ATIT(DP): 5.52 OSIL(DP): 1	
**** NORMATIVE ARTZ RINDUM (HOCLABE BITE DRIHITE 15 JCITE HELITE:	MINERALS	LISTI ACMITE CA-SILI NA-MSILI K-MSILI WOLLAST DIOPSID HYPERST	CATE: CATE: CATE: CATE: CATE: CHECK CATE:	**	HEMATI ILMENI SPHENE PEROVS RUTILE FLUORA	ITE : .69 E : .69 EKITE : .67	FLUGRIT THENARD PYRITE CHROMIT ZIRCON CALCITE	TE .	* ENST * FERRI * ENST * FERRI * FORS * FAYAL	ATII(DP): 5.52 OSIL(DP): 1 ATIT(HP): 24.18 OSIL(HP): 4.41	
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**** NORMATIVE ARTZ : RUNDUM THOCLASE BITE DRIHITE : 15 UCITE : PHELITE : LIOPHILITE: **** NORMATIV - AB - AN : IZ-ORTH-PLAG :	MINERALS 194 127 VE MINERALS 0	LISTI ACMITE CA-SILI NA-MSILI K-MSILI WOLLAST DIOPSID HYPERST OLIVINE	CATE:	13.8 28.59 34.93	HEMATI ILMENI SPHENE PEROVS RUTILE FLUORA	ITE : .69 E : .69 SKITE : .67 E : .67 AFATITE: .07	FLUGRIT THENARD PYRITE CHROMIT ZIRCON CALCITE	TTE : ::	* FNST	ATIT(DP): 5.52 OSIL(DP): 1 ATIT(HP): 24.18 OSIL(HP): 4.41 TERS(OL): 30.68 LITE(OL): 6.18	
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*** NORMATIVE RTZ LUNDUM HOCLASE LITE LITE LITE LOPHILITE  *** NORMATIV - AB - AN .: Z-ORTH-PLAG :  *** MOLE NUMB : .77 : .114	MINERALS  74 75 76 MINERALS  6 0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	LISTI ACMITE CA-SILI NA-MSILI K-MSILI WOLLAST DIOPSID HYPERST OLIVINE 3 + RATI 5.8 93 .6 99.	CATE : ICATE : CATE : C	13.8 28.59 34.93 INDEXES ** COLOR INDEX ENYSTALLIZA	HEMATI ILMENI SPHENI SPHENI PEROVS RUTILE FLUORA TION INDE	ITE : .69 E : .69 E : .67 E : .69 E :	FLUGRIT THENARD PYRITE CHROMIT ZIRCON CALCITE *****:I TOTAL % FEL TOTAL % PLA PLAGIOCLASE	E :  E :  DTAL*: 99.B  DSPARS : 16  GIOCLASES: 6.  INDEX :  **** RITMAN V  : 46.27	# FNST/ # FERRI # ENST/ # FERRI # FORS # FAYAI	ATIT(DP): 5.52 OSIL(DP): 1 ATIT(HP): 24.18 OSIL(HP): 4.41 TERS(OL): 30.68 LITE(OL): 6.18	
**** NORMATIVE ARTZ : RUNDUM THOCLABE BITE DRIHITE : 15 UCITE : PHELITE : LIOPHILITE: **** NORMATIV - AB - AN : TZ-ORTH-PLAG :  RITTMAN VALUES **** MOLE NUMB : .77 : .114 +3: .03	######################################	LISTI ACMITE CA-SILI MA-MSILI K-MSILI WOLLAST DIOPSID HYPERST OLIVINE S. # RATII S.B 93 .6 99.	CATE: ICATE: ICATE: CATE: DNITE: HENE: HENE: 4 CD	13.8 28.59 36.93 INDEXES *** COLOR INDEX CRYSTALLIZA DIFFERENTIA 0 1	HEMATI ILMENI SPHENE SPHENE PEROVS RUTILE FLUORA  ***** C TION INDE NTION INDE NTION INDE NTION INDE NTION INDE	ITE : .69 E : .67 E :	FLUGRIT THENARD PYRITE CHROMIT ZIRCON CALCITE *****:I  TOTAL % FEL TOTAL % PLA PLAGIOCLASE	E : : : : : : : : : : : : : : : : : : :	# FNST # FERR # ENST # FORS # FORS # FAYAU .3 21 94 ALUES ***** CA : .3 ALK : .18 K : .11	ATIT(DP): 5.52 OSIL(DP): 1 ATIT(HP): 24.18 OSIL(HP): 4.41 TERS(CL): 30.68 LITE(OL): 6.18	
*** NORMATIVE ARTZ  SALINDUM FHOCLASE BITE BITE BITE FORTHITE STATE STAT	# MINERALS  ###################################	LISTI ACMITE CA-SILI NA-MSILI K-MSILI MOLIAST DIOPSID HYPERST OLIVINE 5.8 93 .6 99.	CATE:	13.8 28.59 36.93 INDEXES *** COLOR INDEX CRYSTALLIZA DIFFERENTIA 0 1 .005 (	HEMATI ILMENI SPHENI SPHENI PEROVS RUTILE FLUORA ATTION INDE	ITE : .69 E : .67 E :	FLUGRIT THENARD PYRITE CHROMIT ZIRCON CALCITE *****:I  TOTAL % FEL TOTAL % PLA PLAGIOCLASE  ** 0 SI .0001 AL .0001 FM	E : : : : : : : : : : : : : : : : : : :	# FNST # FERR # ENST # FORS # FORS # FAYAU .3 21 94 ALUES ***** CA : .3 ALK : .18 K : .11	ATIT(DP): 5.52 OSIL(DP): 1 ATIT(HP): 24.18 OSIL(HP): 4.41 TERS(CL): 30.68 LITE(OL): 6.18	
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UCITE .		DIOPSII	OF :	21.81	RUT	UF	2		ZIRCON	:		* FORST	ERS (OL)	11.88
UCITE : PHELITE :		HABERS.	THENE :	42.3	FLU	BAPATIT	F: .06		CALCITE	:		# FAYAL	ITE (OL)	2.3
IOPHILITE:		DITUTNE	E 1	14.21	, 20.				***** TOTA	L*: 99.8	1			
TUPHILITE:	10 AF 3 5 5		Andrew Coll	1.00	-0.									
HER MODMATTI	E MYNED!	ALC - BATI	TOP AND	TAINEVEC	*****									
- AB - AN :	30.7	10.3	39 C	DLOR IN	DEX	: 8	1.63	TOTA	AL % FELDSF	ARS :	8.12	and their	-	
TZ-ORTH-PLAG :	0	30.7 69.	.3 [	RYSTALL	IZATION I	VDEX: 6	6.71	TOTA	AL % PLAGIC	CLASES:	2.56			
Z-ORTH-PLAG:			Г	IFFEREN	ITIATION II	4DEX:	7.43	PLA	GIOCLASE IN	DEX :	85			
RITTMAN VALUES	3 <b>*</b>	A Lucion	A late	Marie .										
*** MOLE NUME	ERS ***	ANN DESCRIPTION	SWACT	75	1424					* RITMAN		_		
: .859				-007	P .			0				: _5_	AN	
			K :							4.77				
+3: .024	CA :	.14	TI :	.004	CO2 :	0	H20-:	.0001	FM :	47.69	K	: ./4		
	1 00000	DV COMPAR	TRON: TO	THE AUG	BARER OF	THE ADIT	TRT UDIC	ANTES C	DESCAPPEALLY	19731			1 1 1	farm of the
HANN CATNO AND	LUBBER	27 LUTTEN	DOM: 10	MOD .	PA 9	INE HOLL	IBI VOLUE	114700 (1	DESCHARLENOX	, 17737				1.
**** GAINS AND	M20 1	97		riou i	6.26					25	į.			1
IS SAMPLE 'N						PRIOR	ITY :					A COMPANY OF THE PROPERTY OF		
S SAMPLE N						1 112 011								
IS SAMPLE N		• / 0												
IS SAMPLE A RMAL VALUE IN OR LOSS	-2.			***						annuagan a militar in thinking continue			-	
**** GAINS AND IS SAMPLE A RMAL VALUE IN OR LOSS **** LITHONAME DONALD-KATSURE VINE-BARAGAR *	-2.	VOLCANIC RO	BUBALKA	A White	TYPE	FIELD	NAME :		4 0		<u> </u>	2 P W 2 P 4	1.450	je god

CLIENT: LAPAUSE SURFACE DATA FILE: LAPAUSE 09:08:10FM 16 MAY 87

UTHOR: LAPAUSE	DATA ***** YEAR TOWNSHIP	1007	REFERE	NCE : LAP	AUSE	нтя	SHEET :		LONG. :		RECORD N SAMPLE NO : LAT. : IM NORTH : ROCK NA	10.: 31624
EOL.AGE :	GEOL.PROV.	: GI	EDL. ENV	ITM ZONE : IRONMENT	UTM	SQ.IDENT.	: U	TM EAST :	RDCK TYP	E:	M NORTH : ROCK NA	AME :
ESCRIPTION	or to the same	SIRAIIGR	ME43 1 6		The state of the s	INDPIALITE, SE	MIES :	SPEL.	GRAVITY :			
OBTETNAL	OXIDES AND	TRACE ELEM	ENTS +++	444		<u>.</u>						
102 : 41.80	CAD : 4	. 46 MI	ND : 0	. 15	S :	EI :		F i	F	B :	7	N :
203: 5.34	NA20 : 0.	.10 L	JI : 9	2.50	AG :	CL :		HG :	5	i Ma		
-203: 10.90	- K20 - 0	2	12 :	52 50 12h	AS :	CO :		LI :		R:		
IO2: 41.80 L203: 5.34 E203: 10.90 E0: 28.70	P205 1 0	.03	20.P1 20.M1		BA :	CD :		NI :		1 :	+	
***** NORMALIZE 102 : 45.91 A2D : .11												4- 4-1
UNDER MYTHEE	CATTOO ALIE	TAIR TAIR A										v . 20 22
-F-M :	. 36 23	0 99		FEBUUDI	20/NA20 :	1.18	ALKALII	INDEX	•54 17 St	t HITOTE	SASILITY INDE	X 1 29.22
20/NA20+K20 :	54 18 30 11	Barrell 15:7:	AT UNIT		ZUXIVAZU I	1.10	FEI	LSIC INDEX	: 4.67	HE	SHIMOTO INDE	X : 86.33
1000	and the second second	M 2 5					MAFI	C INDEX	:25.89	1	ASHIMOTO INDE	X : 8.59
						-				-		to the detail or with the
***** NORMATIVE JARTZ : JRUNDUM : RTHOCLASE : _BITE : NORTHITE : 15	MINERALS -	~ LISTING :	*****		MACNETITE	. 7.4/	O.	AL T.T.E.			* WOLLASTO	D) - 7 74
TRUNDUM		CA-SIL ICATI	F		HEMATITE	: 3.46	FI	LUDRITE	:		* FNSTATIT(	OP): 2.85
RTHOCLASE 1	. 77	NA-MSILICA	TE:		ILMENITE	: .66	Ti	HENARDITE	1	+ 1.3	* FERROSIL (	P): .49
BITE	.92	K-MSILICATI	Et		SPHENE		P.	YRITE	:	- 5	# ENSTATIT (	(P): 25.83
NURTHITE 1 15.	12	DICESTONI	1F:	.0	PEROVSKITE			HROMITE	1 - 1- 27		# FERRUSIL ()	92):4.46 Y )
EUCITE : EPHELITE : ALIOPHILITE:		HYPERSTHEN	E : 30.	3	FLUORAPATI	TE: .02	C	ALCITE	:		* FAYALITE	OL): 6.65
ALIOPHILITE:		OLIVINE	: 41.5	i6		201- 1	*	****: TOTAL	*: 97.9		-	-
NONATYIN	E WINEDALD	Darroo	AND TAITUE	VF0								
THE THE PARTY OF T	4.6 5	.6 95.4	CRYST DIFFE	ALLIZATIO RENTIATIO	N INDEX: N INDEX:	74.2 1.69	TOTAL PLAGI	% PLAGIOC OCLASE IND	LASES: 6.04	94		the second of all particles and
R - AB - AN : TZ-ORTH-PLAG :											******	
R - AB - AN :	1898 963	4. 4.35 25 15		2.1					DITMON HO	UEC .		
R - AB - AN :	1898 963	4. 4.35 25 15		the selp	. 0	S :	0	***** 91 :	RITMAN VAL	.UES +	*****	N 1
R - AB - AN :	1898 963	4. 4.35 25 15		P MN	0 002	S : H2O+:	0.0001	***** SI : AL :	RITMAN VAL 45.91	UES :	****** 1At	¥. 1
R - AB - AN : RTZ-ORTH-PLAG : RITTMAN VALUES ***** MOLE NUMBI 1 : .764 - : .115 ! E+3: .03 !	* ERS ***** FE+2: 1	2 NA 2 K 7 TI	: .004 : .003									N. 1
R - AB - AN : RTZ-ORTH-FLAG :  RITTMAN VALUES ***** MOLE NUMBI I : .764 - : .115 ! E+3: .03 !	* ERS ***** FE+2: 1: MG : .78: CA : .08:	2 NA 2 K 7 TI	: .004 : .003 : .004	AVERABES	OF THE ABI	TIBI VOLCA						<b>1</b>
R - AB - AN : RTZ-ORTH-PLAG : RITTMAN VALUES ***** MOLE NUMBI 1 : .764 - : .115 ! E+3: .03 !	* ERS ***** FE+2: 11 MG : .78: CA : .08: LDSSEB BY A20 : 11	2 MA 2 K 7 TI COHPARISON	: .004 : .003 : .004 TO THE	AVERAGES 1 31.52 8.79	OF THE ABI	TIBI VOLCA						N. 1
RITTMAN VALUES RITTMAN VALUES ***** MOLE NUMBI 1 764 1: 115 E+3: .03  ***** GAINS AND PRIMAL VALUE	* ERS ***** FE+2: 11 MG : .78: CA : .08: LDSSEB BY A20 : 11	NA 2 K 7 TI COMPARISON K20: .	: .004 : .003 : .004 TO THE 13 MG0 17	AVERABES 1: 31.52 8.79 22.41	OF THE ABI	TIBI VOLCA	ANICS (DE	SCARREAUX,				N. 1

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TO A STATE OF THE	BLE POR ANY PRODUCTION OF ERMOR	AS THAT THAT MAIN THEN THE	
***** REFERENCE DATA *****			RECORD NO.: 31625
AUTHOR: LAPAUSE YEAR : 1987 REFERENCE : LA	PAUSE	LONG, :	SAMPLE NO : MELSONE
PROVINCE : TOWNSHIP :	NTS SHEET :	LDNG. :	LAT. :
UTM ZONE	: UTM SOLIDENT.:	HM EAST : U	TM NORTH :
GEOL. AGE: GEOL. PROV. : GEOL. ENVIRONMENT	*	ROLE TYPE :	RUCK NAME :
CONTEXT : STRATIGRAFHY:	MAGMATIC SERIES:	SELL. UNAVITY:	
DESCRIPTION:			
COLORIAL OVERES AND TRACE OF PROPERTY			
****** ORIGINAL OXIDES AND TRACE ELEMENTS	C	E - CIP -	ZN :
N 207: 14 16 NA20 - 2.01 NAT 4 0.16	5 : E1 :	F: PB:	714 :
SID2 : 50.00	AC . CC .	LI: SR:	
TIDD . O. E4 / NOO! D.	AU: CR:	MO: V:	
TIO2: 0.56 H20.P: 160: 5.77 P205: 0.04 H20.M:	BA: CU:		
160 : 5.77 F203 : 0.04 H20.11	BH : Cu :	W :	
* * * * * * * * * * * * * * * * * *			
	HECOLHIIONS		
***** NORMALIZED DXIDES (FYRITE REMOVED IF SULFUR, I	RON AS 20% FE203 AND BOX FED	. DRY. TOTAL =100%) *****	
SIO2 : 54.42 AL203: 15.11 FE203: 2.85	FFD : 10.26 MGD : 6	.18 CAO : 7.15	
NA20 : 3.12 K20 : .03 TIO2 : .6	P205 : .04 MND :		
****** GXIDES RATIOS AND INDEXES ****** A-F-M : 14.04 58.42 27.54 FEO(TC NA20 K20-SIO2 : 5 0 75			
A-F-M : 14.04 58.42 27.54 FED(TO	TAL)/MGD: 2.08 ALKAL	INITY RATIO : NO	BASICITY INDEX : 19.78
MA20 K20-5102 : 5 0 75	K20/NA20: .01 ALKAL	I INDEX :.95 SOLIDI	FICATION INDEX : 27.89
(ZD/NA20+K20 : .01	F	ELSIC INDEX : 30.58 H	ASHIMOTO INDEX : 37.68
			MARCOTTE INDEX : -1.32
***** NORMATIVE MINERALS LISTING *****			
QUARTZ : 6.23 ACMITE :	MAGNETITE : 4.12	HALITE :	* WOLLASTO(DF): 3.35
CORUNDUM : CA-SILICATE :	HEMATITE :	FLUORITE :	* ENSTATIT(DE):1.62
ORTHOCLASE: .18 NA-MSILICATE: ALBITE: 26.37 K-MSILICATE:	ILMENITE : 1,13	THENARDITE :	* FERROSIL(DP): 1.68
ALBITE : 26.37 K-MSILICATE :	SPHENE :	PYRITE :	* ENSTATIT(HP): 13.77
ANORTHITE : 27.12 WOLLASTONITE: LEUCITE : DIOPSIDE : 6.66	PERDVSKITE :	CHROMITE :	* FERROSIL (HP): 14.27
LEUCITE : DIOPSIDE : 6.66	RUTILE :	ZIRCON :	* FORSTERS(OL):
NEPHELITE : HYPERSTHENE : 28.04	FLUORAPATITE: .03	CALCITE :	* WOLLASTO(DF): 3.35 * ENSTATIT(DF): 1.62 * FERROSIL(DF): 1.68 * ENSTATIT(HF): 13.77 * FERROSIL(HF): 14.27 * FORSTERS(OL): * FAYALITE(OL):
KALIOPHILITE: OLIVINE :		**#**:TOTAL*: 97.88	
****** NORMATIVE MINERALS RATIOS AND INDEXES ****	**		
OR - AB - AN : .3 49.1 50.5 COLOR INDEX	: 39.95 TOTA	L % FELDSPARS : 3.67	
OR - AB - AN : .3 49.1 50.5 COLOR INDEX QRTZ-ORTH-PLAG: 10.4 .3 89.3 CRYSTALLIZATI DIFFERENTIATI	ON INDEX: 40.26 TOTA	L % PLAGIDCLASES: 3.49	
DIFFERENTIATI	ON INDEX: 26.55 FLAG	IOCLASE INDEX : 51	
* RITTMAN VALUES *		STEMAN HALLES	
***** MOLE NUMBERS *****	***	***** RITMAN VALUES	*****
SI : .906 FE+2: .143 NA 1 .101 P	001 S : 0	SI : 54.42	1 AN .:
AL : .276 MG : .153 K : .001 MN	: .004 R20+: .0001	AL : 13.59 ALK :	4./1
FE+3: .036 CA : .127 TI : .008 CD2	2: 0 H20-: .0001	FM : 12.5 K :	Ć.
THE PARTY CATHO AND LOCATE BY COMPANION TO THE AUTHACE	OF THE ADITION HOLDS	ECCADDEALLY 1077\ #####	
****** GAINS AND LOSSES BY COMPARISON TO THE AVERAGES		ESCARREAUX, 17/3/ *****	
THIS SAMPLE NA20 : 3.12 K20: .03 MGO : 6.18			
NORMAL VALUE 3.37 .39 5.17			
GAIN OR LOSS2637 .95	PRIORITY:		
THE LETTER AND CALLS DON'T AND			
****** LITHONAMES (IF VOLCANIC ROCK) *****	The services of the services of the services		
MUDUNALD-KATSURA MAGMATIC SERIES: SUBALKALINE	YPE & FIELD NAME :		
MCDONALD-KATSURA MAGMATIC BERIES: SUBALKALINE IRVINE-BARAGAR MAGMATIC BERIES :	RUCK NAME BY SIOZ : ANDESITE		٧7
	MARAGAR LITHUNAME :		**
JENSEN MAGMATIC SERIES : THOLEIITIC	ENSEN LITHONAME : THOLEIITI	C BASALI	

CLIENT : LAFAUSE SURFACE DISCLAIMER : THE OWNER OF	DATA FILE : LAPAUSE THE FROGRAM IS NOT RESPONSI		R ERRORS THAT MAY		THESE DATA.
***** REFERENCE DATA **** AUTHOR: LAPAUSE YEA PROVINCE: TOWNSHIP	AR : 1987 REFERENCE : LA		HEET :	SAME	ECORD ND.: 31626 PLE NO : 82100699
GEOL.AGE: GEOL.PROV	UTM ZONE	UTM SQ.IDENT.:	UTM EAST :	UTM NOR	8311 :
CONTEXT 1	STRATIGRAPHY 1	MAGMATIC SER	IES : SPEC. G	RAVITY:	
DESCRIPTION :					**
		4. 1			F - 5
***** ORIGINAL OXIDES AND		melalanda una manag aparasa - m			
S102 : 51.70 CAO :		S : B1 :	F :	FB:	ZN :
AL203: 14.80 NA20 :		AG : CL :	HG :	SN:	
FE203: 12.40 K20 :		AS L CO:	LI.	SR :	and the second s
FED : TIO2 :	0.66 H20.P1	AU : CR :	MO:	V :	1
MGO : 6.63 P205 :	0.06 H20.M:	BA: CU:	NI :	W =	
	* * * * * * * * * * * * * * * * * * *	RON AS 20% FE203 AND 8	0% FED. DRY. TOTAL	* * * * * * * * =100%). ****** \$ 9.55	
		The second secon			
***** DXIDES RATIOS AN					
A-F-M : 11.95 55	5.69 32.35 FEO(TO	TAL)/MGO: 1.68	ALKALINITY RATIO		TY INDEX : 19.93
NA20-K20-S102 : 4	1 95	K20/NA20 :13	ALKALI INDEX	:11.51 SULIDIFICATI	ON INDEX : 32.75
K2D/NA20+K20 : .12			FELSIC INDEX	: 20.88 HASHIMO	TO INDEX : 37.64
	- Constitution of the constitution of		MAFIC INDEX	:63.25 MARCOT	TE INDEX :89
***** NORMATIVE MINERALS	LISTING *****				
QUARTZ : 5.78	ACMITE :	MAGNETITE : 3.69	HALITE	: * WOL	LASTO(DF): 6.8
CORUNDUM :	CA-SILICATE:	HEMATITE :	FLUORITE	: * ENS	TATIT(DE): 3.61
ORTHOCLASE : 1.7	NA-MSILICATE:	ILMENITE : 1.28	THENARDITE		ROSIL (DP): 2.98
ALBITE : 18.89	K-MSILICATE :	SPHENE :	PYRITE	* ENS	TATIT(HP): 13.38
ANDRIHITE 1 30.67	WOLL ASTONITE:	PEROVSKITE :	CHROMITE	: * FER	ROSIL(HP): 11.04
LEUCITE :	DIOPSIDE : 13.39	RUTILE :	ZIRCON	: * FOR	RSTERS(OL):
NEPHELITE :	HYPERSTHENE : 24.42	FLUORAPATITE: .04	ZIRCON CALCITE	* FAY	ALITE (OL):
KALIOPHILITE:	OLIVINE :		*****: TOTAL*	: 99.86	
		ary seatment and a second second at the			
***** NORMATIVE MINERALE	S RATIOS AND INDEXES ****	**			
	36.9 59.8 COLOR INDEX		TOTAL X FELDSPAR	S : 1.26	The same of the sa
QRTZ-ORTH-PLAG : 10.1		ON INDEX: 47.83	TOTAL % PLAGIOCL		
		ON INDEX: 20.59	PLAGIOCLASE INDE		
* RITTMAN VALUES *					
***** MOLE NUMBERS *****	*		*****	RITMAN VALUES *****	+
SI : .885 FF+2: .1					
	169 K : .006 MN				
	.17 TI : .009 CD2				
, E. O. 1002 CH : .					
	Y COMPARISON TO THE AVERAGES		IICS (DESCARREAUX,	1973) *****	
NORMAL VALUE 3.2	2 35 5.63				The second second second
GAIN OR LOSS97					
***** LITHONAMES (IF VOL	CANIC ROCK) ******	THE RESERVE AND ADDRESS OF THE PARTY OF THE			
MCDONALD-KATSURA MAGMATIC		YPE & FIELD NAME :			
IRVINE-BARAGAR MAGMATIC SE		ROCK NAME BY BID2 I BAS	BALT		_
		BARAGAR LITHONAME :		_1	٧7
JENSEN MAGMATIC SERIES		BARAGAR LITHONAME : THO		-	11

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***** REFEREN	E	AR 1 198	7   RE	FERENCE ( )	APAUSE					SA	RECORD NO.	
ROVINCE :	GEOL. PRO	ov. :	GEOL.	ENVIRONMEN	E s UTP				ROCK TYI	UTM N	LAT. : ORTH : ROCK NAME	:
ONTEXT	GET ET BESTELLE	STRA	TIGRAPHY	STORES WHILE		AGMATIC SE	RIES :	SPEC. G	RAVITY 1			3 - 5 7
			14. 微微	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
102 : 50.30					S :			-	vant. (a) a (rel 11	ов:	ZN	
L203: 14.70 E203: 12.00 ED :	NAZO :	1.56	LOI	2.70	AG :	CL:		HG:		5N :	ZN	•
203: 12.00	K20 :	0.18	C02	AND ASSESSMENT OF	AS J	CO. 4	****	-LI :		SR:	77.75	
EO 1	TI02:	0.64	H20.P		AU 1	CR I		NO 1		/ : N :		1 1
**** NORMALT	# # :	(PVRTTE	* * * *	* * * * *	CALCUL TRON AS 207	A T I O N	S * * * * *	V TOTAL	=100%) ***	****		
102 : 53,44 A20 : 1.66	K20 1	15.62	FE203	.68	FEO : 9	.18 MG .03 MN	0 1 7.08 10 1 .19	CAD	9.39		2 4	71
***** OXIDES -F-M A20-K20-S102 20/NA20+K20	RATIOS	AND INDEX	ES ****	*	TOTAL LARD .	1 42	ALVALINIT	V PATIO	• NA	BASI	CITY INDEX	. 10 97
20-K20-S102	. 0.73	0.70	97	reu.	K20/NA20 :	.11	ALKALI IN	IDEX	: 10.27 S	DLIDIFICA	TION INDEX	34.7
20/NA20+K20							FELSI MAFIC I	NDEX	162.36	HASHI MARC	MOTO INDEX	: 39.68 :44
***** NORMATI						1411 Area - La Pales						
JARTZ :	8.65	ACMITE	TCATE :		MAGNETITE	: 3.69	HALI	TE		* W	OLLASTO (DP) NSTATII (DP)	: 4.91
THOCLASE :	1.13	NA-HSI	LICATE	<b>建筑</b> 加坡。	ILMENITE	1 1.29	THEN	ARDITE	1	* F	ERROSIL (DP)	2.1
BITE	14.02	K-MSIL	ICATE I		SPHENE		PYRI	TE		* E	NSTATIT (HP)	14.97
EUCITE :		DIOPSI	DE :	9.66	RUTILE	:	ZIRC	ON	:	* F	ORSTERS (OL)	\$ <b>&amp; A. A. MON</b>
DARTZ DORUNDUM RTHOCLASE LBITE LBITE NORTHITE EUCITE EPHELITE ALIOPHILITE:		HYPERS	THENE :	26.85	FLUORAPAT	ITE: .02	CALC	ITE	1 00 01	* F	AYALITE (OL)	:
ALIOPHILITE:		THE TOTAL	1. 4.15 to -17	9, 1 m. 100 m	vi.	- 47		FILUIALE	1 44.41	and the second		ANTO-PRINT
**** NORMAT	IVE MINERAL	S RAT	IDS AND	INDEXES ++	***		William I	1-5-21				
RTZ-ORTH-PLAG	: 14.8	1.9 83	.3 C	RYSTALLIZA IFFERENTIA	TION INDEX: TION INDEX:	50.79 15.15	TOTAL % PLAGIOCL	PLAGIOCL ASE INDE	ASES: 8.6	71		The state of the s
RITTMAN VALU	ES *		No.				A SECTION OF THE SECT	*****	RITMAN VA	_UES ****	**	LA STATE STATE OF STATE OF
889	FF+2:	128	NA +	.054 P	0	- B	0	.SI : 5	3.44	CA : .	2AN	1
E+3: .032			K : TI :		N : .003	H20+1	.0001	FM : 1	4.05	ALK: 2.	07	
HHHHH BAINS AN HIS SAMPLE DRMAL VALUE	ND LOSSES I	COMPAR K201	ISON TO	THE AVERABI	ES OF THE AB	ITIBI VOLCA	NICS (DESCA	RREAUX,	1973) ***	***		4
AIN OR LOSS	-1.3	58	17	1.		DRITY :	California de la compositional					
ERRER   TTHONA	MER - /TE LM	H CANTE D	DCK1 ***	<b>基本基</b>								
CHARA LITHONAL COONALD-KATSUR RVINE-BARAGAR	RA MARNATTI	BERTER.	ST IDAL KA	L'INE SERVICE	TYPE & FIEL ROCK NAME BY	NAME :	L Carrolada		<u> </u>	-		

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	PART BUT	4.5	5/2/5/8/	C 10 3 10	emproveno -				1. 10.0000				grupe de d	- OH AGE	71470
**** REFERENCE	DATA	AR   198	7	EFERENCE	LAPAU	SE	Pt.				7. 21		SAMPLE	NO I	31628
ROVINCE 1	TOWNSHIP		7500000	14754	TONE	4 1974	N1	S SHEET		O.T	LONG. 1		LI	AT. I	
OI ACE	SEDI PPO		BEDI	ENUTED	ZUNE :	UIT	1 SQ. IDEF	11 . 1	UIM EA	81 :	BUCK	TVDE	UIM NUKIH	T NAME	
NIEXT :	OLUC. PRO	STRA	TIGRARH	FIAATUT	HALIETA 1 2		TEMBER	SERIES	: S	PEC. P	RAVITY	1		SIC THEFT ILL	
INTEXT: SCRIPTION:			13 10 10 10		en roes	1 1 2 1 2 1 7	-	-				***			-
· · · · · · · · · · · · · · · · · · ·	44	ACCUPANT OF	机的研究	<b>第一次</b>	Swell from	9 - 14 1-									
								man or a man			insini				ra de leure : com mon militar a deple
02: 49.60	CAD :	7.60	MNO	1 0.16	5	1	B)	1	F			PB	1	ZN i	
203: 19.90	NAZU I	7 27	COS	1 3.20	HG AG		CI		H	7 .		SR			
102 : 49.60 .203: 19.90 .203: 10.60 .203: 10.60 .203: 6.60	T102 1	0.59	H20.1	18.99 34.0	AU		CI		М	0 .	1, -	V	*		
04.4	P205 :	0.05	H20.1	1	BA		Ci	Jan 1	N N	I s	120	W	1 .		
1.000	2.	** N. Y - Y	ELECTION OF	12000031		4 1 1 1 1 1 1 2	27		1000		-				-
	* * *	* * * *	* * * *	* * * *	* * C A	T C U F	ATIO	N S # #	* * * *	* * 1	* * *	* * *	*		
WWW NOOMAL TO	D CYIDES	(D)(DITE	DEMOUSER	7.E. C.I.I. E	TECH	AC 00*	EE007 A	ID DON E	co nov	TOTAL	~100%				
02 . 50.42	A 2031	20.23	FF20	7.15	TRUM	0 7	7A	MBO	71	TO	THE SET	73		e garanteeran on	
102 : 50.42 120 :	K20	3.32	1102		P2	05.	.05	HNO 1	.16					1.31	
					4			1211 - 9 115	W1 5 5 5 7 7	1000	attended to				
**** OXIDES -	- RATIOS A	ND INDEX	ES ***	**						,					
	20.1 4	7.64 3	2.26	F	EO (TOTAL	)/MGD :	1.44	ALK	ALINITY	RATIO	I NA	00: -	BASICITY	INDEX :	17.13
120-K20-S102 10/NA20+K20	Service of the	21.1.1.1.5	97	4 88 654	K20	/NA20 :	3.86	ALK	ALI.INDE	X	179.43	SULT	DIFICATION	INDEX :	
ZU/NHZU+KZU T		245		11		1.4.4	4	4	METC IND	INDEX	74.07		HASHIMOTO MARCOTTE	INDEX :	55.67
			E. Santa A.	Link's		4 5 28 2			W 10 110		107100		THROUTTE	INDER I	
**** NORMATIVE	E MINERALS	LIST	ING ***	***											
JARTZ :	.89	ACMITE	. 1		MA	GNETITE	: 3.	.2	HALITE		1		* WOLLA	STO(DP):	
JARTZ : JACHTZ : JACH	28	CA-SIL	ICATE 1	CONTRACTOR OF	HE	MATITE	No. of the last	2000	FLUORI	TE.	THE BACK		# ENSTA	TIT(DP):	
PITE	- DAIDWENDS	MA-MSI	LICATE	MARKET STORY	A-SERVICE TA	MENITE		3	THENAR	DITE			* FERRU	SIL (DP):	14.7
ORTHITE	7 99	MOLLAS	TONITE	4.6	PF	ROVSKITE	-		CHROMI	TE			* FERRO	SII (HP):	11.78
EUCITE :		DIOPSI	DE :		RU	TILE			ZIRCON		1		* FORST * FAYAL	ERS (OL):	
PHELITE :		HYPERS	THENE :	28.49	FL	UORAPAT:	ITE: .	)4	CALCIT	E	:		# FAYAL	ITE (OL):	
ALTOPHILITE:	ARMADIAN WA	OLIVIN	Æ .						*****	TOTAL	99.89				
HHHH NORMATI															
- AB - AN	TO 2	11 7	TUS MAD	THUEAES	IDEY		32 74	TC	TAL 7 FE	DSPA	98 . 4	94			
RTZ-ORTH-PLAG	1.4	29.8 68	3.8	CRYSTALL	IZATION	INDEX:	49.69	TC	TAL % PL	AGIOC	ASES: 4	5.3			
RTZ-ORTH-PLAG				DIFFEREN	MOITALT	INDEX:	28.23	PL	AGIOCLAS	E INDE	EX :	84			
RITTHAN VALUE				and a											
**** MOLE NUM		100	100	020	100	001		4. 23. 2		****	RITMAN	VALUE	5 *****	ΔΝ	
397	MG .	144	K	.07	MN a	002	H2U*	0001			10 2	UH .	· A 61	HN I	
	CA .		TI		C02 :	.002	H20-	.0001	F	M :	13.52	K	: 4.61 : .72		
	+ + 1 - 1 - 1														
HHHH BAINS AN	LOSSES B	V. COMPAR	180N TO	THE AVE	RABES OF	THE AB	ITIBI VO	CANICS.	(DEBCARR	EAUX,	1973) 4	****			12
HEER BAINS AN HIS SAMPLE DRMAL VALUE	MSD N P	6 K20	3.32	MGO s	5.71	EL THE			200	1:13	<b>第二年</b>				
RMAL VALUE	manufacture of the	The Supple of	76	Self-deviated.	6.75	71.		America other des			-				and the same of the state of the same
AIN OR LOSS	-1.9	2	3.06		14	PRI	3 YTING								
**** LITHONAM	S (IF UN	CANIC S	ROCK) ##	***											
DONALD-KATSUR	MAGMATIC	SERIES	BUBALK	ALINE A	TYPE	& FIELD	D NAME I	13-11	12 (m) (4.5%)		103				1 1
		Market St. Co. Co.	A 2 . 2 . 2 . 7 . 2 . 7	F 1 TO THE RESERVE TO	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Manager		25-11-29	State Carlo	1	- 1 Mary 1			+	
DONALD-KATSUR KVINE-BARAGAR	MASMATIC S	ERIES	4730	2 A	ROCK	WAME B	Y 5102 1	BASALT	No. of the Park		450		70 - V7		4

CLIENT: LAPAUSE SURFACE DATA FILE: LAPAUSE 09:11:21PM 16 MAY B7

AUTHOR: PROVINC	REFERENCE LAPAUSE E	DATA	YEAR	1981		EFER	NCE :	LAPAUI	BE		TS SHEE			LONG.		S	RECO AMPLE	RD NO.: NO :	31629
GEDL. AG	E I  TION I  ORIGINAL  50.20	GEOL.	PROV.	STRAT	GEOL	. EN	ITM ZON	NE I	UT	M SQ.IDE	NT.: SERIES	МТИ	EAST :	ROCK	TYPE	UTM	NORTH ROC	K NAME	
DESCRIP	TION I	TYTHER	AND T					1 1					-1-		3%				
5102 : 5	50.20	CAU	1 9.	47	MNO	: (	1.18	S	1		I s		F :		PB	1		ZN:	
FE203:	9.60	K20	. 0.	18	C02	2 17 3	37.7.	AS			0.		LI		SR.	1	and the same		
FEO :	50.20 14.30 9.60	7102 P205	: 0.	53 06	H20 H20	Pi Mi		BA	:		R: U;		MO I		W		and the second		
		*	* * *	* * *	* * *	* * 1		* CAI	COL	ATIC	ta la								
B102 12 NA20 1	NORMAL 17E 53.3 3.15	AL20 K20	ES (PY 3, 15.	IIE IB	FE20	) IF !	04 156	FEI P2	AS 200	.34 +	MGO # 3	7. 93	RY, TOTA	100%) 10 : 10	.05		34.1	· W	
	CYTREC	DATTO	CIAN D	THINEVE								1 .							
NA20-K2	0-8102	40.17	43.4	0	94		reu	K20	/NA20 1	.06	AL	KALI I	TY RATIO	15.69	SOLI	DIFIC	ATION .	INDEX :	38.79
(20/NA2	0-8102 0-820	.06				ng.					y# 3	FELS MAFIC	IC INDEX	154.19	4	HASH	COTTE	INDEX :	38.09 96
****	NORMATIVE	MINER	AI S	IIST	ING ##	***		MA	GNETITE	. 2.	95								
CORLINDU	AGE 1	2014	C	A-SIL	CATE	- 		HE	MATLIE	B100 2 2 2		FI 11	ORITE	50		*	ENSTAT	IT(DP):	5.73
ALBITE	26	68	K	MSIL	CATE			BPI	HENE HENE		06	PYR	NARDITE ITE OMITE				ENSTAT	IT(HP):	14.01
LEUCITE NEPHELI KALIOPH	TE : ILITE: NORMATIV	1 1	D H	IOPSII YPERS	DE THENE	18.	49 78	RU FLI	TILE UORAPAT	TITE:	05	710	CUM				FORSTE	RS (01.):	
*****	NORMATIV	E MINE	RALS -	RAT	COB AN	O IND	EXES *	****	ne di				Last stand						
QRTZ-OR	TH-PLAG :	1.	5	2 96	5	CRYS	TALLIZ ERENTI	ATION ATION	INDEX:	48.88	T	OTAL X	PLAGIO	CLASES: DEX :	3.38	)			
* RITTM	AN VALUES MOLE NUMB BR7	ERS **	****	dep			Western		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				****	* RITMAN	VALUE	S ***	***		
AL :	. 298	MG :	.197 .179	120	MANGE C :	.00	4 7	P : MN : CO2 :	.003	H20- H20-	.000	01	AL I	13.66 15.96	ALK K	: 4	.91	AN :	100 110
THIS BA		20.0	8 BY C	6201	ISON T	MO	AVERA	GES OF	THE A	OITIBI V	LCANICE	CDEBC	ARREAUX	, 1973)	*****		747		
GAIN OR	LOSS	- 1	07		16		2	. 28	PR	IORITY !					the second number of the second				
MCDONAL	D-KATBURA BARABAR M	S CIF	VOLCA	NIC B	SUBAL	KALEN	E 75.43	TYPE	& FIE	D NAME				7 3	- 575				12.

CLIENT: LAPAUSE BURFACE DATA FILE: LAPAUSE 09:11:59PM 16 MAY 87

UTHOR LAPAUS	NCE DATA ** BE Y	EAR : 1987	REFERENCE	LAPAUSE	NTS SHEET		SAI	RECORD NO.: 31630 MPLE NO: LAT.: ORTH:
								ORTH : ROCK NAME :
ESCRIPTION &					AAGAATIL SERIES	spec. GR	AVIIV I	
102 : 54.00 102 : 14.40 103: 14.40	CAO :	11.10	INO : 0.17	S :	BI :	F :	FB:	TIA :
L203: 14.40 E203: 9.61	NA20 :	2.31	NO : 0.17	AG :	CL: CO;	HG:	SN:	
EO : 5.91	7102 P205	0.80 0.06	H20.Pi H20.Mi	AU : BA :	CR (CU )	MO : NI :	W I	ă.
	Marilla .			* + + + + + + + + + + + + + + + + + + +	HIIUNS#	*****	****	The second secon
102 ( 55.38 120 : 2.37	AL 203) K20 j	14-77 02	FE203; 4.97	FEO P205 :	7.1 MGO .	5.96 CAG	1002) ******	
**** OXIDES	RATIOS	AND INDEXES	*****					
1-0 120-k20-SIO2	1 13.72	0 9	1 FE 6	O(TOTAL)/MGO : K20/NA20 :	1.49 ALI	KALI INDEX	84 SOLIDIFICA	CITY INDEX: 17.74 TION INDEX: 34.6
20/N <b>42</b> 0+K20	41 (0)				7.	FELSIC INDEX	17.36 HASHI 60.35 MARC	MOTO INDEX : 30.31 DTTE INDEX : -1.03
**** NORMAT	IVE MINERAL	S - LISTING	*****		4	HALITE .	44 84	OLIASTO(DP): 11 04
RTHOCLASE	107	MA-HSILICA	ATE: #	HEMATITE	2.65 3 /1.55	THENARDITE		NSTATIT(DP): 6.23 ERROSIL(DP): 4.35 NSTATIT(HP): 8.6 ERROSIL(HP): 6.01
NORTHITE	29 11	MOLL ASTON	TE STORY	PEROVSKIT		CHROMITE	F	ERROSIL (HP): 6.01
EPHELITE :		HYPERSTHEI OLIVINE	1 21.03	KUITEE		ZIRCON :	* F * F 99.86	ORSTERS (OL):
ALIOPHILITE:	TIVE KINERA	B - RATIOS	AND INDEXES	*****	* A	OTAL % FELDSPARS		
RTZ-ORTH-PLAC	3: 15.9	.2 83.9	CRYSTALL I	ZATION INDEX: TATION INDEX:	49.08 TO 20.13 PI	OTAL % PLAGIOCLA: LAGIOCLASE INDEX	SES: 9.65	
RITTMAN VALI	ES :			15		***** R	ITMAN VALUES ****	**
29 E+3: .025	MG s	.148 K	: 0 : .01	MN : .002	H20+1 .000	1 AL : 13	.29 ALK: 3.	57
HIS SAMPLE	VO. LOBBER MAZO N. Z.	BY CONPARTSON 37 (20)	N TO THE AVE	AGES OF THE AB	ITIBI VOLCANICS	(DESCARREAUX, 1	973) *****	e gentleggssteleng gentleg stellege i en een een een een een een een een e
AIN OR LOSS	-1.	15 -	. 42	1.07 PRI	D NAME 1 Y 8102 1 ANDEST		Marinal after proper transports and four monomery professions: Me is brought and	

CLIENT : LAPAUSE BURFACE DATA FILE : LAPAUSE 09:12:37PM 16 MAY 87

WHAT REFERENCE	E DATA ******  YEAR : 19  TOUNSHIP :  GEOL.PROV. :	187 REFEREI	ICE   LAPAUSE	Alve	oucey .	LONG		RECORD NO. 1	31631
MUVINCE TO STATE	- LUMPERITY F	11"	TM ZONE .	LITH CO IDENT	. LITH EA	CT .	117	M NORTH :	
SEDL.AGE :	GEOL.PROV. :	GEOL. ENVI	RONMENT 1	MAGMATIC S	ERIES 1	ROCK REC. GRAVITY	TYPE :	ROCK NAME	1
ESCRIPTION 1				7. N					
ORIBINAL	MAIDER AND TRACE				2, 110	Manuscript St. School St. St.		سي حضرت أشاعت والماء عادا	Labirat de la
102 : 51.80	CAD : 5.86	MNO I O.	.12 5 :	BI	ı F		PB:	ZN :	
L203: 6.42	NA20 : 0.15	LOI : 4	.60 AG :	CL	: H	iG :	SN 1		
F203: 9.10	K20 1 1 33	CO2 t	AS 1		THE PROPERTY OF THE PARTY OF	I - WELVELLE	SR :		
ED IGO 1 22.30	GEOL.PROV. : SIR TRIDES AND TRACE CAO : 5.86 NA20 : 0.15 K20 : 1.33 T102 : 0.26 P205 : 0.06	H20.P1 H20.M1	BA:	CR			ŭ i		
102 i 53 58	ED OXIDES (PYRITE	REMOVED IF SL	LFUR, IRON AS	20% FE203 AND	80% FEO. DRY	TOTAL=100%)	.06		La Maria
A20 : 16	(Six) (48) (20) (17)	31102 1	27 P205	06 M	NO 1 12		2.46-57	4.37	
***** OXIDES -	- RATIOS AND INDE	XES *****							
1-F-M :	4.63 26.03	69.34	FEO (TOTAL) /MC	30 : .37	ALKALINITY	RATIO : NA	E	ASICITY INDEX	23.23
20 MAZONKAU N	STREET, VIEW STATES	### SP - 13 - 4 . N	K20/NA	20 : 8-63	ALKALI INDE	TAIDEY - 30 3	SOLIDIE	CHIMOTO INDEX	79 72
	- RATIOS AND INDE 4.63 26.03			1.38	MAFIC IN	EX 127.29	, m	SHIMOTO INDEX	6.03
**** NORMATIV	E MINERALS LIS	TING *****							
UARTZ :	ACMIT CA-SI	E :	MAGNET	TITE : 2.72	HALITE	1		* WOLLASTO (DP):	6.8
DRUNDUM	CA-SI	ILICATE :	HEMAT	ITE TO THE PARTY	FLUORI	TE		* WOLLASTO (DP): * ENSTATII (DP): * FERROSIL (DP): * ENSTATII (HP): * ENSTATII (HP):	5.15
NI HUCLASE	17	ILICATE	ILMEN!	ITE 1 51	THENAN	DITE I		* FERRUSIL(DP):	. 40
MORTHITE N		STONITE	PEDOU	SKITE !	CHROMI			# EFRROSII (HP)	9.1
EUCITE :	DIOPS	SIDE : 12.9	2 RUTILI	E :	ZIRCON	1 2		* FORSTERS (OL)	2.29
EPHELITE :	HYPEF	RETHENE : 58.1	I FLUOR	APATITE: .04	CALCIT	E :		* FAYALITE (OL)	. 47
ALIOPHILITE:	DLIVI	INE 1 2.7	7		*****	TOTAL *: 99.8	7		
304 915	DIOPS HYPER OLIVI		Art 14 Tolling			A STATE OF			
H - AB - AN	35.7 5.7 0 35.7 6	58.A COLOR	INDEX	1 77.03	IDIAL X FE	LDSPARS 1	22.8		er etge, stancers des e
KIZ-UKIH-PLAG	: 0 35.7 E	DIFFE	ALLIZATION INDE RENTIATION INDE						
RITTHAN VALUE		CONTRACTOR		•				***** 3AN	
1 892	BERS ******	NA	P .	001 8 .	0	AZ.EZ 1	CA .	3 AN	
L : .13	MB 1 .572	K : .029	MN :	002 H2D+1	.0001	L : 5.97	ALK :	1.62	
E+3: .024	M8 : .572 CA : .108	TI : .003	MN : .0	0 H2D-:	.0001 F	M : 46.23	K s	.85	
**** BAINS AN	BACZO # 16 TECCO	ARISON TO THE	AVERAGES OF TH	E ABITIBI VOLC	ANICS DESCAR	REAUX, 1973)	*****		
HIS SAMPLE	MA20 6 - 16 K20	1. 38 MGD	1 23.07						
	-3.11	1.01	17.52	PRIORITY:	300 do 30				V 1007 1100 110 110 110 110 110 110 110 1
AIN OR LOSS					134				
SAIN OR LOSS									
SAIN OR LOSS	ES (IF VOLCANIC	ROCK) *#***	A CONTRACTOR AND A CONT	ETCI D NAME	and an Appell				
SAIN OR LOSS	ES (IF VOLCANTO A JABRATIC BERLES HASHATIC BERLES!	ROCK) ******  BUBALKALINE	TYPE & I	FIELD NAME : ME BY SIO2 : B	ABALT IS		11.4	V7 olt	7 7 4 9

*** REFEREN THOR: LAPAUS OVINCE I	CE DATA .	YEAR 1 19	87	REFERENCE	E & LAPA	USE						RECC SAMPLE	RD NO.	31632
DVINCE 1	TOWNSH	IP .		The Part of	10/2		N	TS SHEET		LONG.		L6	T	
				UIM	LUNE :	UI	U PA INFI	PEI + 3	UIM EHOI	4		UIH NUKIH	ă .	
OL.AGE:	GEOL.P	ROV. :	BEOL	L. ENVIR	DNMENT :					ROCK	TYPE :	ROC	K NAME	1
OL.AGE : NIEXT : BCRIPTION :			ATTGRAP	**************************************	7530		MAGMATIC	SERIES .	SPE(	GRAVITY	. \$			
BURIPIIUN I		1 45			A ST.		朝 深道							
**** ORIGINA		NI BURNE			146		<u> </u>							
02 : 54.60	CAO	4.68	MNO	. 1 0.1	7 8		B	I :	F		PB :		ZN :	
203: 14.20	NA20	4.51		: 5.10			CI	Li	HG :	1	SN :			
מתי דו ידחת	V20	. 0.05	LU2	Taring and	A	15.1	C	0.	LI		SR 1	45.1		
	8205		120	100			C		NI				14	
0 : 4.35		2000年	STATE OF THE										200	
		* * * *		* * * *	* * C A	LCUL	ATIO	N S * *	* * * * *	* * * * *	* * *	*		
**** NORMAL I	ZED OXIDE	B (PYRITE	REMOVE	D IF SUL	FUR IRO	N AS. 20%	FE203 A	ND BOX FE	O. DRY, T	)TAL=100%)	*****	CVERSE ST	148	Catholic Cat
02 : 56.79 20 : 4.69		(a) (b) (b)	地震行	2		205	19	MNO 1	18	LHU		A CONTRACTOR OF THE CONTRACTOR	1	AL AND THE
7.07	· · · · · · · · · · · · · · · · · · ·	W 447	型接近		14	200 1	* 4 7	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1.0		Y 14 19 19			T
F-M	: 21.84	57.33	20.83	1	FEO (TOTA	L)/MGD :	2.69	ALKA	LINITY RA	FID : NA	<b></b>	BASICITY	INDEX	: 17.14
20-K20-S102	CATE A	F = 0 = 0	THE SHEET	The series of	K2	20/NA20 .:	.01	ALK	LI INDEX	11.05	SOLID	IEICATION	TUDEX	. 32 34
**** OXIDES F-M 20-K20-S102 O/NA20+K20	<b>作品的企业</b>		特別條		14.7		1 1	N. M.	FELDIC IN	DEX : 49.3 :73.35	•	MARCOTTE	INDEX	:7
10000000000000000000000000000000000000		12 To 12	1.5	CONT.	2.5		100	- 12.154.9						
**** NORMATI	VE MINERA													
ARTZ :	7.33	ACMIT	LICATE					91	HALITE			* WOLLAS		
RUNDUM	CANCEL STREET	CA-SI	LICATE	AND PERSONS AND	2000	EMATITE		7 U.S. V. 90	FLUORITE		Y 172 ( 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	# ENSTA	TI (DP)	1 72
RUNDUM THOCLASE ** BITE ** ORTHITE **	X9 A0		ILICATE LICATE	<b>P</b>	Mary and	PHENILE	2.	54 1927 TO 7	PYRITE	TE 1	S. A. Artis	# FERRU	IT (HP)	1 10.54
ORTHITE	19.09		STONITE	CANADA SALA	\$ 2000 F	PEROVSKIT	E	- M-11 M	CHROMITE			# FERRO	IL (HP)	1 12.63
UCITE :		DIOPS	IDE	: 3.19	F	RUTILE			ZIRCON	:		* FORSTI	ERS(OL)	:
PHELITE :		HYPER	STHENE	23.17	F	LUORAPAT	ITE: .	14	CALCITE			* FAYAL	TE (OL)	:
LIOPHILITE:		OL I V I	NF	SH SHOT	*****		-		****** TO	TAL#1 99.6	6			
**** NORMAT	THE MINES	ALC 07	TYPE AN	n Tuneve	C BARRES									
AB AN	74 . <b></b>	67.2	37 X	COLOR I	NDEX		. 33. 11	TO	AL % FELD	BPARS 1	9.08			
TZ-ORTH-PLAG	1 11	.5 6	8.5	CRYSTAL	LIZATION	INDEX:	28.03	TOT	TAL % PLAG	IOCLASES: I	8.78			
				DIFFERE	NOITAITM	INDEX:	39.99	PLF	AGIOCLASE	INDEX t	32			
	- P. DO HELD	FINE SALES	VE 45-31-33	086-7 O (UE-VI)	4-0					V. Q. 6- 8	1.72			
RITIMAN VALU	MDEDS 444	大学 体验	A TO	<b>第24</b> "任本	35.45					HAN RITMON	VALUES	*****		
945	0.12	134	MA	3151	P	003	8	. 0	SI	1.56.79	CA	1 1	AN	
: .29	MG :	.112		.001	MN :	.003	H20+	.0001	AL	: 13.29 : 9.17	ALK	: 7.08		
+3: .034	CA :	.087	TI :	.019	C02 i	• 0	H20-	: .0001	FM	: 9.17	K	: 0		
The same of the sa	Contract of the last	PART - TANK	APPENDING NA	erity resignate grides										
TO CAMPIE	* \		STRIN I	D THE RY	ERABES L	IF THE AB	TITEL VO	LCANICS	DESCARREA	7x 1 432)	*****			44.46
#### BAINS A IS SAMPLE RMAL VALUE	1		1		4 34	7 30		13.5					L 20	
IN OR LOSS	data	. 97	-, 45		.11	PRI	ORITY 4						-	
199	7-740 Ex	1.10												
**** LITHONA	MER (TE	UNI CANTO	ROCK) #	****	AZESC ZZ			7,000	STATE OF THE					467
DONALD-KATSU			BUBAL	KALINE	TYP	E & FIEL	D NAME	AMD THE				2.15.		1
A TIME _ DIMERINGUES	THE PERSON NAMED IN	- PERMIT	大田田田	SPET .	<b>高速,表</b> RUL	A MHINE B	I PINT I	HUNCO!	F 18 18 18 18 18 18 18 18 18 18 18 18 18	Men Care			4	1 11
VINE-BARAGAR		T. S. T. T. S. C.	BETTER STATE	A 250	BAF	RAGAR LIT	HONAME :	A 180 F 18 18	1	A Control of the Cont		ч,	J.	-

CLIENT: LAPAUSE SURFACE DATA FILE: LAPAUSE 09:13:53PM 16 MAY 87

SCLAIMER : TH			- depois		-									
**** REFERENC	E DATA ##	***		and an order do are a Lordon								REC	ORD NO.;	31633
THOR: LAPAUSE TOVINCE :	TOUNISH	EAR   198/	R	EFERENCE	i I. LAPAUS	iE	NTC	CHEET.		LONG		SAMPLE	AT .	
OVINCE I	Limitaria	A Company of the Comp		LITM	ZONE -	LITE	NID	SHEET I	HTM EACT -	FONG.	,	LITM NIDOTU	H1. 1	
OL.AGE:	GEOL PE	enu .	GEO	ENVIR	MIMENT .	UII	1 SW. IDENI	. 1	OTT ENSI :	BULK	TYPE .	ni norin	CK NAME	
NTEXT:	OLUC.III	STRAT	LIGRAPH	V PINVINC	MALICIAL P		ADEMATIC S	ERIES :	SPEC.	GRAVITY		1.0	OK MHITE	•
SCRIPTION :	11/4			4.0			M-100 4-1-1-10-10-10-10-10-10-10-10-10-10-10-10		O1 LO1	W111112 1 1	•			
			1000	N. C.										
**** DRIBINAL			EMENT		4									
02 : 46.60	CAO :	9.58	MNO	1 0.24	s s	:	BI	:	F I		PB:		ZN:	
203: 12.60	NA20 r	2.00	LOI	: 11.20	) AG	:	CL	:	HG :		SN:			
**** DRIGINAL 02 : 46.60 203: 12.60 203: 9.92	K20 ;	0.09	C02		AS	:	CO		LI:		SR :			
: 0	TID2	0.63	1H20	Pi	AU	1	CR CU		MO ¢					
0 : 9.01	P205 I	0.17	H20,	Mr.	BA	1	CU	1	NI :		Wz			
, ,	MA15-1 4 2-12	AV 100 C S 10 C S	2000年1月										4-14	anter te
	* *	* * * * *	* * *	* * * *	* * CAL	. CUL	ATION	S * * *	* * * * *	* * * *	* * *	*		
**** NORMAL 12	ED DXIDES	(PYRITE F	REMOVED	IF SULF	UR. IRON	AS 20%	FE203.AND	.80% FEO	DRY, IDT	AL=100%1	*****	1000		
02 : 51.75	HLZU31	13.44	THE AU	31 2.2	FEL PO	1 1 /-	.93 m	BO : 10.	.01 SC	AU 1 10	04	Will to the		
20 : 2,22	77 300	E-Wall	1402		P20	D: .	. 1.A Ll	NO I	. 41					
**** OYTHES -	BATTOS	AND INDEXE	-C ****											
F-M OXIDES -	10.33	45.1 4/	4.57		FO (TOTAL)	/MGO •	. 00	ALKAI	INITY RATE	Α . ΝΔ		BASICITY	INDEY .	20.46
F-M : 20-K20-SIO2 :	4	0	96		K20/	/NA20 -	.05	ALKAI	I INDEX	:4.31	SOLIF	IFICATION	INDEX :	45.01
0/NA20+K20 :	.04	1	A. Hall	2000				F	ELSIC INDE	X : 17.9		HASHIMOTO	INDEX :	44.01
0/NA20+K20 :	The west !	7	100, 4	20127				MAF	ELSIC INDE	±50-3		MARCOTTE	INDEX :	. 11
	2017	1. 18 19 4 4 10	经生活	STATE OF										
**** NORMATIV	VE MINERAL	S LISTI	ING ***	***										
ARTZ :	. 86	ACMITE	1		MAE	SNETITE	: 3.19	1	HALITE			* WOLLA	STO(DP):	9.86
RUNDUM :	2 C THAT CHAIN TO A DO TO THE	CA-SILJ	CATE :		HEN	ATITE_			FLUORITE			* ENSTA	TIT(DP):	6.22
THOCLASE	.59	NA-MBIL	ICATE:		ILM	ENITE	: 1.32		THENARDITE	1		* FERRO	SIL(DP):	3.02
BITE : 1	18.79	K-MSILI	CATE :	4.14	SPF	IENE	:		PYRITE	:		* ENSTA	TIT(HP):	18.69
ORTHITE : 2	27.91%	WOLLAST	ONITE	32.5	PEF	OVSKITE	1 1 .		CHROMITE			* FERRO	SIL (HP):	. 9.06
UCITE :		DIOPSIC	)E :	19.11	RUT	ILE			ZIRCON	:		* FORST	ERS(OL):	
PHELITE :		HYPERST	HENE :	27.75	FLL	JORAFATI	ITE: .14	(	CALCITE	:		* FAYAL	ITE (DL):	
**** NORMATIVARTZ : IRUNDUM : THOCLASE : 1 IORTHITE : 2 IORTHITE : PHELITE : LIOPHILITE:	78 C. C. C.	DETAINE	<del> </del>	<u> </u>				:	***** IDIA	L*: 99.6	5			
**** NORMATI														
- AB - AN	VE DINERA	ILD KAII	US AND	STADE YES	) *****		E . 77	TOTA	. v eer beb	ADC	7 20			
T7-ORTH-PLAC	, 10	1 7 (	27	CDVSTALL	TZATION 1	NDEV.	51.37	TOTAL	L % FELDSF	HRS :	1 4 47			
TZ-ORTH-PLAG	. 1.0	1.4. 7	, ,	DIFFEREN	JILATION I	NDEY.	19 39	PLAG	IDCLASE IN	DEY .	40.7			
				DIFFEREN	TITALION I	HADEAS	17.00	FLAG	IUCEHSE IN	DEX :	80			
RITTMAN VALUE	S *		- 1	27										
**** MOLE NUM		F44	1.	110					****	* RITMAN	VALUES	*****		
: .861			NA.	.072	P 1	- 003	S :	0	SI 1	51.75	CA	: 5	AN :	
: .274	MG :		< :		MN :			.0001	AL :	12.59	ALK	: 3.43		
+3: .028			TI :			0	H20-:		FM i	20.13	K	: .02		
**** GAINS AN	ID LOSSES	BY COMPAR!	BON TO	THE AVE	RAGES OF	THE AB	ITIBI VOLC	ANICS (D	ESCARREAUX	1973)	*****			
	NA20 4 2	22 K20:	Bar 5-1	MGO :	10.01				7.					
IS SAMPLE	15 - Va (18)	99	F. 22 3	· 李八克 并""。	6.2					á				
IS SAMPLE		78	2		3.73	PRIC	DRITY:							
IS SAMPLE RMAL VALUE IN OR LOSS														
#### GAINS AN IS SAMPLE RMAL VALUE IN OR LOSS														
IN UR LOSS		OLCANIC RO	ICK) ##	****					and the second second	THE PERSON NAMED IN COLUMN		-		
IN UR LOSS		C SERVES	BUBACK	#### ALINE	TYPE	& FIELD	) NAME :					-	a to the section of t	a store controllerance in the attention of the
IS SAMPLE  RMAL VALUE  IN OR LOSS  **** LITHONAM  DONALD-KATSUR  VINE-BARAGAR  NSEN MAGMATIC		OLCANIC RO C SERIES: BERIES:	BUBALK	ALINE	TYPE	& FIELI	) NAME : ' SIO2 : B	ASALT		ž-			ot.	- the definition of the series of the

CLIENT: LAPAUSE SURFACE DATA FILE: LAPAUSE 09:14:31PM 16 MAY 87

**** REFERENCE THOR: LAPAUSE COVINCE:	DATA YE	*** 4R († 1987	RE	FERENCE	• LAPAU	SE	32	NTS SHEE	Т		ONG.	S	RECORD N	31634
DL. AGE :	GEOL PRO	J. 1	GEOL.	ENVIRON	ONE :	ATU	1 SQ.IDE	ENT.: C SERTES	UTM EA	AST : RPEC. RR	ROCK TY	UTM PE +	ROCK NA	
SCRIPTION ;		en l	134	Sales in the							i ver			
							1	BI: CL: CO:	F	1G 1		PB : SN :	-	V :
02 : 71.40 .203: 16.00 .203: 1.74 :0 : 0.66	7102 : \$205 :	0) 25 0.12	H20. P		AU BA		i	CR :		10 i		SR : V :	4 44	
	* * *	* * * * 1		* * *	+ CAI	LCUL			* * * * *		* * * *	* * *	•	
02 1971.44 20 1 7.09	AL-ANTA	1			FE P2	0 : 1. 05 :	25 12	MGO :	.66 .02	CAO	1 .1.66	y V		80 X
AAAA DYIDES	PATTICE A	UD TAIDEVE		Mary Control									ICITY INDE	X : 2.76
F-M : 20-K20-S102 : 0/NA20+K20 (t)	100							/	FELSIC MAFIC IN	INDEX :	83.23 70.8	HASH MAR	IMOTO INDE	X : 17.14 X : -2.29
**** NORMATIVE	MINERALS	LISTIN	46 ####	**	MA	GNETITE	1	.5		ITE 1			WOLLASTO (D	P):
ARTZ : 20 RUNDUM THOCLASE : 6 BITE : 60 ORTHITE : 7	79 .02 / 1	MA-HSIL	CATE	111	ILI CALL	MATITE MENITE HENE ROVSKITE		. 47	THENAF	RDITE		•	ENSTATIT (D FERROBIL (D ENSTATIT (H FERROSIL (H	P): 1.64
UCITE : PHELITE : LIOPHILITE:		DIOPSIDE HYPERSTE	E I	3.28	RU FLI	TILE UORAPATI	: ITE:	. 09	ZIRCON	N : FE :		*	FORSTERS (O FAYALITE (O	L): L):
**** NORMATIV	E MINERAL	- RATIO	OS AND	INDEXES							4.			
TZ-ORTH-PLAG :	21.9	7.1 7:	l C	RYSTALL I	ZATION	INDEX: INDEX:	8.6 67.17	T	OTAL % PL	AGIOCLA SE INDEX	SES: 7.4	7		Manager dept. gan and an artifect from the
RITTMAN VALUES	ERS ****					002				R	ITMAN VA	LUES ***	*** O AN	
: .314	MG : .	016 K		.024	MN :	0	H20-	+: .000	01 ,6	AL : 1	4.4	ALK: 11	.78 .09	
**** GAINS AND IS SAMPLE ! N RMAL VALUE	LOBSES B ASO (4 7 D	COMPARTI	DN 10	THE AVE	AGES OF	THE ABI	ITIBI V	OLCANICS	(DESCARE	REAUX, 1	973) ***	***		
IN OR LOSS	2.3	,	34		41	PRIC	DRITY:		adition on a track the own dist		Manager and			-
DONALD-KATSURA VINE-BARABAR M	HARMSTIC	SERIES I	LIBAL KA	LINE	TYPE	& FIELD	NAME :	RHYOLI	TE .	* 18 South 2	7 4	384		A. A.

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**** REFERENCE	E DATA *1	****									RECORD NO	
THOR: LAPAUSE	TOWNEY	EAR 1 178		FLEKENCE	LAPAUSE		NTC CUE	ET .	LONG		SAMPLE NO :	
APP APP LAPPER - Brown server of the		,		UTM 21	INF +	UTM SQ. I	DENT.	LITH FAST		11	TM NORTH	
DL.AGE :	GEOL PE	enu .	SEC	FNUTRON	MENT .	OTTI SULL	DE-141 4 4	UTM EAST	Pnci	TVPF .	ROCK NAM	SE :
NTEXT :	DECETT	STRA	TIGRAPH	V	M-141 4	MAGMAT	IC SERIE	S . SPE	C. BRAVIT	( <u>1</u>	ROLK NAP	
SCRIPTION		1. 474			W		1					1
	全国的第一次			<b>建</b> 不明 。	A STATE OF THE STA		7	3.24	S. C. L. Vine			100
HERE DRIGINAL	OXIDES	NO TRACE	FLEHENT		1000				100	Allen and a second	en course di ligamen	Maria Salah
02 : 50.70	CAD	8.20	MNO	: 0.16	S :		BI :	F		PB:	ZN	4 :
.203: 14.00	NA20	2.42	LOI	1 7.50	AG :		CL:	HG		EN:		
02 : 50.70 .203: 14.00 .203: 10.60 .0 : 5.08	. K20	0.12	CU2	1	AS :		CO :	LI_,	4	SR .:	v 1000 miles and 1000 miles	mangapaga ana arawa saraw
· 756	1102	0.90	H2Q.	Production	AU :		CR :	MO		V		
50 : 5.08	P205	+0.04	##H2Q.	學是但從學	BA I	4	Cn :	MO NI			44.	
		20 - 00 / 2-10 de 2-4	RICHGELT BY	And the second second	# C 0 1	CHIAT		* * * * * *				
	# #		R W H	* * * * *	# CAL	COLHII	0 10 5 *	*****	* * * * *			
**** NORMAL TO	ED DYTHE	(PVPITE	REMOUSE	TE SIN FIR	R. TRON A	B 207 EE203	AND BOY	FEO DOV Y	010 = 100V	******		
**** NORMALIZ 102 : 55.49 120 : 2.65	ECOL 2013	135.325kg		NAME OF STREET	FED	8.35	MGO	5.56	CAD	3.97	(1) 1 H (2) 1 L (2)	1.0
20 1 2.65	K20	<b>最多社</b>	77(12	00	P205	: .04	MNO	18		100		
	<b>了场表现</b> 。177	<b>经验的</b>	<b>1</b>	<b>《</b> 第二十二	43		,			1	1. 计模型 图 3	
**** OXIDES -	- RATIOS	AND INDEX	ES ****	**	1						BASICITY INDE) FICATION INDE) ASHIMOTO INDE) MARCOTTE INDE)	
F-M :	14.62	56.13 2	9.25	FE	(TOTAL)/	MGO: 1.8	8 6	LKALINITY RA	TIO : NA		BASICITY INDEX	17.94
20-K20-SI02 :	5	0	95		K20/N	A20 : 0	5	LKALI INDEX	:4.68	SOLIDI	FICATION INDEX	1 29.61
20/NA20+K20 1	.05	C. C. C.	A	And the second	5454			FELSIC IN	DEX : 23.	56 H	ASHIMOTO INDEX	1 32.87
1	7.552	50000000000000000000000000000000000000		<b>建</b> 主作。464	0.程英文			MAFIC INDEX	:65.7	•	MARCOTTE INDE	(1.572
	1000		14000	do al constant de la	22				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.4. 19	<u> Principal de la companya del companya del companya de la company</u>	
**** NORMATIV	E MINERAL	S LIST	ING ***	***							* WOLLASTO (DF * ENSTATIT (DF * FERROSIL (DF * ENSTATIT (HF * FERROSIL (HF * FERROSIL (HF	
JARTZ :	9.84	ACMITE			MAGN	ETITE :	3.36	HALITE	2.		* WOLLASTO (DE	): 6.13
PRUNDUM :	TO STANK THE STANK	CA-SIL	ICATE 1	COURSE STREET	HEMA	IITE		FLUORITE		PRINCE PRINCES	* ENSTATIT (DE	2) 1, 3, 18
THOCLASE		2. 4. 4.4.4	CICATES	10.50	ILME	NITE 1	1.87	THENARDI	TE .		# FERROSIL (DF	2.78
DETECT : 2	2.91	<b>建设</b> 2.7.4	ICAIE 1		SPHE	NE I		PYRITE	1.0		* ENSIALLI (HE	71 10.66
UCITE .	4.335	DIODEI	DE .	12 11	PUTT	APKITE T		TIPCON			* FORCTERS (DE	11 7.33
PHELITE :		DIOFER	THENE :	10 00	ELIO	DAPATITE:	0.3	COLCITE			* FORSTERS (OL * FAYALITE (OL	· ·
I TOPHILITE:		OI TUTN	INCIAL :	17.77	FLUU	MEHITIEL	.03	EMECTIC EXXXX TO	* 99 4 IAT	9.1	* FHIRETIE (OF	-/•
ALIOPHILITE:	Sugar Com	<b>またいたまるかける</b>	1955 SEA	A 75 C 45	21313255				1 Ph. 2.42.7.a.	Z.A	Contracting to the confirmable announcement of the result.	
**** NORMATI	VE MINER	A B RAT	TOS AND	INDEXES				2 1				
- AR - AN	N. 197 1 198	447 5	MA	COL OR THIN	CY.	1 37.33		TOTAL % FELD	SPARS :	2.71		
TZ-ORTH-PLAG	: 15.7	1,2	83	CRYSTALLI	ZATION IN	DEX: 43.86		TOTAL % FLAG	IOCLASES:	1.94		
				DIFFERENT	IATION IN	DEX: 23.1	8	PLAGIOCLASE	INDEX :	57		
									to the state of th	- John Steel Committee of Commi		Ny 1 to one of the second second second second
RITTMAN VALUE	S * (*)	1. 1		<b>建筑的</b> 的产业	27.5							
THE THEOL	BERB ***		門對學得	4 4	Ave.			***	*** RITMA	N VALUES	*****	
**** MOLE NUM	FE+2	116	NA I	.086	P	.001 5		_051	: 35.49	CA_ :	AN	
**** MOLE NUM		.138	K - 2 -	.003	MN :	.003 H2	0+: .00	001 AL 001 FM	: 13.78	ALK ±	4.1	
**** MOLE NUM 1 924 : .301	MG :		TI :	.012	CO2 :	0 H2	U-: .00	001 FM	: 11.23	K :	.03	
**** MOLE NUM	MG :	.16						A				134,8
**** MDLE NUM 924 301 :+3: .029	CA :	0.1	A STATE OF THE PARTY OF THE PAR	the second second second second second		ME ARITIBI '	VULCANIC	SUDEBCARREA	nx' 1412)	*****	1 1 1 1 1 2 2	
**** MDLE NUM 924 301 :+3: .029	CA :	0.1	100	THE AVER	RUES UF I							
**** MDLE NUM 924 301 :+3: .029	CA :	0.1		MED 4	5,56					74 ft   174   1	1 2 27	The same of the sa
1 ,924 : .301 :+3: .029 :**** GAINS AN HIS SAMPLE	CA :			HEG I	179	Port Control			Ų.		and the first party of the same	
**** MDLE NUM 924 301 :+3: .029	CA :	0.1	-,31	HBQ	.71	PRIORITY	•	3				
1.924 1.924 1.301 1.301 1.43: .029 1.44*** GAINS AND	CA:	37 .88	31		.71	PRIORITY	:				<u> </u>	
+*** MOLE NUM  1 924  2 301  301  43: 029  ***** GAINS AN  AIS SAMPLE  AIN OR LOSS  ***** I THONAM	CA:	.88	31		.71	PRIORITY	1					
1.924 1.924 1.301 1.301 1.43: .029 1.44*** GAINS AND	CA:	.88	31		.71	PRIORITY	1				£1(	

CLIENT + LAPAUSE SURFACE DATA FILE : LAPAUSE 09 : 15 : ARPM 16 MAY 87

1.14

1 Y 1

	: LAPA IMER :						E : LAF	PAUSE PONSIBLE	FOR AN	IY PROE	LEMS	OR ERRO	RS THA	T MAY	ARISE	FROM T	09:15 HE USE			MAY 87 TA.	
ETTHOR: PROVINC	REFERE LAPAU	NCE D ISE	ATA DWNSH	YEAR	1987	REF	ERENCE	) LAPAU	SE ,		NTS	BHEET: 1	1		LONG.		SA	RECOF MPLE M	D NO.:	31636	
	E:			ROV. :	(	GEDL.	UTM 2 ENVIRON	ONE :	UT	M SQ.I	DENT.	3	UTM EA	ST:	ROCI	< TYPE	UTM N	ORTH :			
ONTEXT ESCRIP	TION 3	4.71	Lai B	\$	TRATIE	RAPHY	14			MAGMAI	IC SE	RIES .	S	PEC.	GRAVIT	Y \$					
				An The				3775954	4.7		1				73 7 6	MOTO	-	الماد المحادثا	7N :		
203:	66.70 15.90 2.67	year of	NA20	2.56 7.59			1.20	AG AG	1		BI: CL: CO:		Н	: : :		PB SN SR			ZN I		
EO :	1.37	4.3	T102	0.30	104	H20.P1 H20.M1		AU BA	4.73	117.8	CR :	100	M	10 :		V .	4				
	1000			* * * *	* * * *			+ CA	LCUL	ATI	ON	5 * * *	* * *	* *	* * *	* * * *	#		and house a shipming		
****	NORMAL	17FD 1	OXIDE	S (PYRI	TE REM	OVED I	F SULFI	R IRON	AS 207	FF203	CINA	BO% EEC	DRY.	TOTA	I =100¥	) ****					
02 i 20 i	68.46 7.79		AL 203 (20	16.52			- 1	#2 FE	9 1 25 1	.97 .09	M8 MN	D : 1	.03	CA	0 1	2,63	File				
****	DXIDES	6 R	ATIOS	AND IN	DEXES	*****	1000	V											NEV		
20-K2	20-5102		10	20.72	8	9	FE	CO (TOTAL							: NA :5,35				INDEX :	11.65	_
O/NA2	20+K20		.05		Meg	H														15.08 -2.79	186
****		IVE M		LS L				Mo	BNETITE	and the same	70	eratur in somme som meteorische	HALITE	e de la constante de la consta	2	en en englante en en deren	at 4.8	OLLACI	ro (De) .	1.74	-
RUNDU	JM =		400	CA-	11 11 14	15			MATITE		. /4		FLUORI							.94	
BITE	ASE 1	65 9	2	K-N	MSILICA SILICA	ATE:		SP	MENITE HENE		. 58		THENAR	DITE					(T(HP):		
ORTHI	UE .	B.2	T. 2	SECTION.	LASTON	TERRA	3.42		ROVSKII TILE	E	10	144	CHROMI ZIRCON	TE	1	-			RS(OL):	1.9B	
PHELI	IIE :			HYPI	ERSTHE	NE :	4.53	FL	UORAPAT	ITE:			CALCIT	E	:	B1	* F		TE (OL):		
****	NORMA	TIVE :	HINER	ALB -	BATIOS	AND 1	NDEXEB	##### FX				. 70.25.5									
TZ-OR	RTH-PLA	<b>16</b> :	15.1	2.9	82	CF	RYSTALL	IZATION IZATION	INDEX:	12.08	•	TUTE	L % PL	AGIOC	LASES:	4.17			a tokan tokan		
***	MOLE N	<b>IUMBER</b>	S ***				200			eric.						N VALUE					
	.32		+2: E		NA.		009	MN :	001	S	4.11	0001	2		68.46 14.68		: 12.		NL		-
	.007		:	.047	ŤI		004	C02 :	ő	H2	20-:	.0001	F		2.84						
IS SA	GAINS MPLE	AND L NA.2	00000	1) en 19 k	40 / 60 201		HE AVE	ABES OF	THE AL	ITIBI	VOLCA	NICB (D	ESCARR	EAUX,	1973)	****					
	LOSS			.09		8		13		ORITY		der dichter von eine Steinber volle				*	-	nicolor to annual to the			
DONAL	D-KATS	IAMES URA	COAT	OLF NT	ROCK Sur Sur		INE I	ENTYPE				YODACIT			推销	113					7.
	HUMPHILL	or by Household	STATE OF	DERES	200	ACCRECATE TO	100 St. 100 St	BARO	TWITE E	IT BIU2	. I RH	TUDACIT	E	98.00	1.374 1. 1. 1. 1.	15 M. S. C. C. C.	- 15 P. S. C. C.	17	2. 1	2017	

CLIENT: LAPAUSE SURFACE DATA FILE: LAPAUSE 09:16:26PM 16 MAY 87
DISCLAIMER: THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT MAY ARISE FROM THE USE OF THESE DATA.

AUTHOR: LAPA PROVINCE	ENCE DATA *	YEAR : 198	74 REF		APAUSE	NTE	SHEET 1		LONG. 1		RECORD NO.: SAMPLE NO :	31637
	GEOL.P			UTM ZONE	E: U1 NT:	M SQ. IDENT.	; UT	M EAST :	ROCK 1	YPE :	JTM NORTH : ROCK NAME	
CONTEXT: DESCRIPTION	1. 12. 20 ///	SIRA	TIGROPHY			MAGMATIC SE	RIES:	SPEC.	GRAVITY :		I Wall	
DRIGI	NAL TYTOES	OND TRACE		1. (4.2)	54 14 14							A suppose
AL203: 14.40	· · ·	: 2.61	LOI :	2.20		CL :	and the same of th	F :		PB: SN:		
EO : 190 : 5.84	7102 P205	0.88	#20 F #20 F		AU I BA 1	CR I		MO s NI s		V I		1
	* *	* * * * *	* * * *	* * * * *		ATION	S * * * *	* * * *	* * * * *	* * *	•	n ordere van volkener van methody skryflyflyngsdolffel
***** NORMO 3102 ( 53,06 4020 : 2.)	AL203 K20	S (PYRITE ( 14.87 3 .66	FEROVED T	3.03	P205	OB MI	80% FEO. 30 1 6.0	DRY, TOTA 3 CA 2	L=100%) ±	19		
**** OXIDE	S RATIOS : 14.39	AND INDEX	ES ****** 5.82		rotal)/MGO :		ALKAL IN	ITV RATIC	) i NA		BASICITY INDEX	20.72
	12: 5		94				ALKALI	INDEX	.119.64	SOLID	IFICATION INDEX	26.16
•						4144					MARCOTTE INDEX	
UARTZ	TIVE MINERA	ACMITE				: 4.39	на	LITE	:		# WOLLASTO (DP)	4.2
RTHOCLASE	3.9	NA-MEL	LICATE	le Mellow	TI MENITE	1 1.72	FL TH	UORITE ENARDITE	-		* ENSTATIT (DP)	4.17
NORTHITE	22,8 26,52	WOLLAS	TONITE		PEROVSKI		CH				* ENSTATIT(HP)  * FERROSIL(HP)	14,29
EPHELITE	:	HYPERS	THENE : 2	7.33	FI LIDRAPAT	TITE: .06	CA	LCITE	: : .*:_99.83		* FORSTERS(OL) * FAYALITE(OL)	
***** NORM	NATIVE MINER	ALS - RAT	IOS AND I	NDEXES		41 0						
RTZ-ORTH-PL	.AG: 8.2	6.7 85	.1 CF	YSTALLIZAT	TION INDEX:	39.92	TOTAL PLAGIO	% PLAGIOD CLASE IND	LASES: 9.	32 54		
RITTMAN VA	NUMBERS ***	*** 152		in the	Lan	S .		*****	RITMAN \	ALUES	*****	
L : .292 E+3: .038	MG :	.15		014 M	1 : .003	H20+:	.0001	AL :	13.38 12.21	ALK	4.71	
**** BAINS	AND LOSSES	BY COMPAR	ISON TO T	AVE MAGE	B OF THE AE	SITIBI VOLCA	NICS (DES	CARREAUX,	1973) **	****		35714
ORMAL VALUE AIN OR LOSS	NAZD 1		.31			ORITY :			constitute on Arcabatocci a concension.			
**** LIJHO	NAMES (IF	VOLCANIC R	OCK) ****	**					a			
CDONALD- <b>KAT</b> RVINE-BAR <b>A</b> E	SURA MASMAT AR MASMATIC	SERIES I	BUBACKAL	A PURCHASING THE PROPERTY OF	TYPE & FIEL	D NAME 4	BALT				17.	504

CLIENT: LAPAUSE SURFACE DATA FILE: LAPAUSE 09:17:04PM 16 MAY 87

DISCLAIMER : TH	SE SURFACE SE OWNER O	: )F THE PR(		ILE : LAI		OR ANY PROB	LEMS OR ERR	ORS THAT MA	Y ARISE FRO	09:17:04 M THE USE OF		
***** REFERENC AUTHOR: LAPAUSE PROVINCE:	E DATA **	EAR 1 196	17 T R	EFERENCE	r CAPAUSE	E	NTS SHEET		LONG.		CORD NO.: 31638 E NO :	
GEOL.AGE :		ROV. :	GEOL	. ENVIRO	ZONE :	UTM SQ.I	DENT.:	UTM EAST :	ROCK TY	PE: R	H : DCK NAME :	
CONTEXT: DESCRIPTION :	AXIDER 4	STRA	. 3	THE P		MAGMAT	IC SERIES :	SPEC.	GRAVITY :	1		· 电电子
ID2 : 68.00 L203: 16.00	CAO :	3.27 5.42	MNO	: 0.06	AG :		BI : CL :	F i HG :		PB: SN:	ZN 1	
E203: 3.88 E0 : 160 : 1.87	T102 :	0.41 0.12	CO2 H20. H20.	Pt (Fig. 6)	AS AU BA		GR 1	MQ i		SR: V: W:		
	* *	* * * * *		* * * *	A .	CULATI				* * *		
102 : 68.08 A20 : 5.43	AL 2031 K20	16.02 1 1.17	#FE20	31 178	E0 P20:	1 2.8 5 1 .12	MGO 3 MNO 3	1.87	AD 2 3.2	7	4 4	
***** OXIDES	RATIOS 54.77	AND INDE:	XES ####	***	EO (TOTAL)	/MGD: 1.8	7 ALKA	LINITY RATE	0 : NA	BASICIT	Y INDEX : 6.15	
A20-K20-S102 : 20/NA20+K20 :			91	18	K20/I	NA20: .2	MA	FELSIC INDE	X: 66.87	HASHIMOT MARCOTT	N INDEX : 15.62 O INDEX : 25.89 E INDEX : -1.5	1
***** NORMATIV			TING ***		MAGI	NETITE :		HALITE			ASTO (DF) :	-
ORLINDUM :	.15	CA-SI	ICATE :	a yerd	HEM	ATITE		FLUORITE			ATIT(DP):	
RTHOCLASE 1 4 LBITE 1 4 NORTHITE 1 1	5, 91	K-MSI	LICATE	2 23	BPH	ENITE ENE DVSKITE		THENARDITE PYRITE		W ENDT	ATIT(HP): 4.66	
EUCITE :		DIOPS HYPER	IDE :	8.59	RUT FLU	ILE : DRAPATITE:	.09	CALCITE	: 99.77	* FORS		
**** NORMATI	VE MINER	U.S RA	7106 AND	PERMIN	) = Gallering Con	1 10.48	101	AL % FELDS	PARS	28		
RTZ-DRTH-PLAG	23.3	7.8 6	3.9	CRYSTALL DIFFEREN	IZATION II TIATION II	NDEX: 18.72 NDEX: 52.9	B PLA	AL % PLAGIO GIOCLASE IN	CLASES: 1.	56 25		
RITTMAN VALUE	BERS ****	CRE .	NA L	175		-002 8	. 0	****	* RITMAN V	ALUES ***** CA .:	AN I	
L : .314 E+3: .01	MG : CA :	. 046	K :	.025	MN : CO2 :	.001 H2	0+: .0001 0-: .0001	AL I	14.41 3.77	ALK: 9.31 K: 1.12		
	D LOSSES	BY, COMPA	RISON TO	THE AVE	RAGES OF	THE ABITIBL	VOLCANICS (	DESCARREAU	(, 1973) ##	***		
HIS SAMPLE OF	NA20 1 5		1 2	要を必要	學院代替時	Section 2	1 1 2 2 2 2		Propositive of	The second second second second second	E 534 17-66	5
HHHH BAINS AN HIS SAMPLE ORMAL VALUE AIN OR LOSS		73	04		. 26	PRIORITY			0 4 1 Day 1	and the second s		<u> </u>

	DATA FILE: LAPAU OF THE PROGRAM IS NOT RESPON		OR ERRORS THAT MAY		THM 16 MAY 87 THESE DATA:
***** REFERENCE DATA ***	***			R	ECORD NO.: 31639
AUTHOR: LAPAUSE YE	EAR : 1987 REFERENCE :	LAFAUSE		SAMP	LE NO : MESSES
PROVINCE : TOWNSHIP	YEAR : 1987 REFERENCE :	NTS	SHEET :	LONG. :	LAT. :
	UTM ZON	NE : UTM SQ. IDENT	.: UTM EAST :	UTM NOR	TH :
	DV. : GEOL. ENVIRONME			ROCK TYPE :	ROCK NAME :
	STRATIGRAPHY .	MAGMATIC S	ERIES : SPEC. G	RAVITY :	
DESCRIPTION :					
SID2: 37.70 CAD:	7.02 MNO : 0.18		E E	PB :	7N :
5102 : 57.70 CHO :	7.02 HNO : 0.18	oc		SN:	214 :
FE203: 9.59 K20 :	0.06 LBI : 14.40 0.07 CD2	AS : CO	: HG:	SR:	
FEO :: T102 :	0.31 H20.P:	AU : CR	MO:	V :	
MGO : 2.52 P205 :	0.06 H20.M:	BA : CU	: NI:	w :	
	0.31 H20.P: 0.06 H20.M:	mineral manage (prop ) a reference fra replacement out	-		
* * :	* * * * * * * * * * * * * *	* CALCULATION	15 * * * * * * * * *		
***** NORMALIZED OXIDES	PYRITE REMOVED IF SULFUR,	IRON AS 20% FE203 AND	BOZ FED, DRY, TOTAL	=100%) *****	
S102 : 61.49 AL2031	7.45 FE203: 3,13 .11 TIO2: .51	FEU ::11.26	ISU F 4.11 CAL	11.45	
NH2U 1 .1 .2 .2 .2 .1	.11	P203: .1 P	INO 1 . 27		
***** OXIDES RATIOS	AND INDEXES *****				
A-F-M : 1.12	76.91 21.97 FED	(TOTAL)/MGO : 3.43	ALKALINITY RATIO	: 1.0244 BASICI	TY INDEX : 22.17
NA20-K20-SIQ2 : 0	0 100	K20/NA20 : 1.1	ALKALI INDEX	:52.38 SOLIDIFICATI	ON INDEX : 22.34
K20/NA20+K20 : .52			FELSIC INDEX	: 1.B HASHIMO	TO INDEX : 26.76
			MAFIC INDEX	:77.78 MARCOT	TE INDEX : -1.69
-10/2 21/2 11/2 11/2					The second secon
***** NORMATIVE MINERALS				: * WOL	1 ACTE (DC) 45 CC
QUARTZ : 29.89	ACMITE :	MAGNETITE : 4.53	HALITE	* WUE	LASIU(DF): 15.28
DETUDOL ARE	CA-SILICATE: NA-MBILICATE: K-MSILICATE: WOLLASTONITE:	HEMATITE : .96	FLUORITE THENARDITE		TATII(DE): 5.68
ALDITE . 93	V-MCILICATE	SPHENE : . 76	PYRITE	. Fren	TATIT(UD): 4 55
ANDRIUTE : 10 54	MOUL ACTOMITE:	DEDOUGUITE .	PYRITE CHROMITE	* ENC	POSTI (NP) - 7.92
I FIGTE .	DIOPSIDE : 30 85	RITTIE :	ZIECON	. # FOS	ROSIL(DP): 9.88 TATIT(HP): 4.55 ROSIL(HP): 7.92 STERS(OL):
NEPHELITE :	DIOPSIDE : 30.85 HYPERSTHENE : 12.47	FLUGRAPATITE: .07	ZIRCON CALCITE	* FAY	ALITE(OL):
KALIOPHILITE:	OLIVINE :		#####: TOTAL	99.82	
***** NORMATIVE MINERAL	ALS RATIOS AND INDEXES **	****			
DR - AB - AN 1 3.2	3.9 92.9 COLOR INDEX 1.3 40 CRYSTALLIZA	X 48.81	TOTAL % FELDSPAR	RS : 1.05	
QRTZ-DRTH-FLAG: 58.7	1.3 40 CRYSTALLIZA	ATION INDEX: 35 ATION INDEX: 1.49	TOTAL % PLAGIOCA	ASES: 0.38	
	DIFFERENTIA	ATION INDEX: 1.49	PLAGIOCLASE INDE	X : 96	
PATTHON NO. 177		and a control of the control	at a sample to the sect		
* RITTMAN VALUES *				BETWEEN NAVIGES	
***** MOLE NUMBERS ****				RITMAN VALUES *****	
SI : 1.023 FE+2: AL : .146 MG :	107 K 002 F	P : .001 S : MN : .004 H20+:	0001 01 1 6	6.7 ALK: .26	
FE+3: .039 CA:			.0001 AL :	8.37 K : .42	
FE101 1007 LM 1		LUZ: 0 HZU-1	,0001 FFI I	G.G/ K : .42	
***** GAINS AND LOSSES !	BY COMPARISON TO THE AVERAGE	SES OF THE ABITIBL VOLC	CANICS (DESCARREAUX.	1973) *****	
THIS SAMPLE NAZO :	.1 K20: .11 MGO: 4.	.11	er man mids — a medicination of at some applied &		
NORMAL VALUE 4.3	36 74 2.	. 92			
GAIN OR LOSS -4.:	3164 1.	.07 PRIDRITY:			-
***** LITHONAMES (IF VI	OLCANIC ROCK) *****				

HCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE IRVINE-BARAGAR MAGMATIC SERIES :

TYPE & FIELD NAME :
ROCK NAME BY SIO2 : DACITE
BARAGAR LITHONAME : IRON RICH THOLEIITE

CLIENT: LAPAUSE SURFACE DATA FILE: LAPAUSE 09:18:20PM 16 MAY 87
DISCLAIMER: THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT MAY ARISE FROM THE USE OF THESE DATA.

AUTHOR: LAPAUSE	DATA ****											D NO. 1 316
		₹ : 1987	REF	ERENCE I L	_APAUSE						SAMPLE N	0 1 (2)
PROVINCE :	TOWNSHIP	k			_	N' UTM SQ.IDE	S SHEET I		LONG. :		LAT	. 1
				UTM ZONE	E &	UTM SQ. IDE	VT.:	UTM EAST :			JIM NORTH :	1100dE
			GEUL. 1	ENVIRONMEN	NI :				RUCK	IYPE :	RUCK	NAME :
	<del></del>	SIRATI	GRAPHY		**********	MAGMATIC	SERIES :	SPEC.	GRAVITY	1		
ESCRIPTION :			- 07/57	1.414								
	55 14 16 1		18. 6. 18. 1									
**** ORIGINAL 1						AND ADDRESS (** 1,500 (M. or 1, 4, 1) ) Color	ARE DESCRIPTION OF THE	maria de la composición del composición de la co		55		70.61
102 : 51.10			INO :	0.21 4.30	5 :	В.	: :	F :		PB:		ZN :
203: 15.00	NA20 :				AG :	CI				SR:		
203: 12.00	K2U :	2.13	LUZ I		A5i	CI	J. I	LA i		V :		
10 :	1102 :	3.70	HZU.PI		AU I	U	1 1	MO :		W:		
0 : 30 : 7.09	P205 :	0.05	HZU.MI		BA I	CI	7 8	MT I		W :		
E 2 10 10 10 10 10 10 10 10 10 10 10 10 10	Cara Control		1000000	<del></del>			M. O	And the second second second				
	* * *		***	* * * * *	CALLI	ULATIO	N 5 * * ;		* * * *	* * *	*	
				- OIN III	TDON 40 1	50K 55007 A	ID 60K 55					
**** NORMALIZE	D DXIDES (	PYRIJE RE	MOVED I	SULFUR	TRUN AS	20% FE2US A	AD BOX FEI	1+ DKK- 1011	AL=100%)	*****		
02 : 53.76 / 8 20 : 1.85	ALZ031 1	3.78	FE203:	2.52	FEO 1	9.09	MGU I	7.46 C	4U : 8.	24		
20 : 1.85	K20 1	-14	1102 :	.74	P205 :	.05	HNO :	.22				
ALL DATE OF THE PARTY OF THE PA	247100		2122				an interior					
**** OXIDES					TOTAL :			INITY RATIO			DACTOTTY -	MIDEY - 15
F-M :	9.45 55	.13 35.	42	FED (	TUTAL) /MG	J: 1.52	ALKA	INITY RATIO	J: NA	001 75	BASICITY I	NUEX : 19
		0	96		K20/NA2	3 :	ALKA	_I_INDEX	:7.04	SOLID	IFICATION I	NDEX 1. 35.
0/NA20+K20 :	.07							FELSIC INDE	X : 19.17	1	HASHIMOTO I	NDEX : 42.
							MAI	IC INDEX	: 60.88		MARCOTTE I	NDEX : -
***** NORMATIVE												
JARTZ : B DRINDUM : THOCLASE : LBITE : 15 NORTHITE : 34 EUCLITE : EPHELITE : ALIOPHILITE:	.72	ACMITE	:		MAGNET	ITE : 3.	55	HALITE	:		* WOLLAST	U(DP):
RUNDUM	** _e	CA-SILIC	ATE:		HEMATI	IE	Commence of the Commence of th	FLUORITE			* ENSTATI	T (DP):
THOCLASE :	.8	NA-MSILI	CATE		ILMENI	TE 1.3	39	THENARDITE	:		* FERROSI	L(DP): 1
BITE : 15	-66	K-MSILIC	ATE I	100 00	SPHENE	1		PYRITE	2		* ENSTATI	T(HP): 16
ORTHITE : 34	-34	WOLLASTO	NIIE	11.	PEROVS	KITE 1		CHROMITE	2		* FERROSI	L(HP): 1
CUCITE :		DIOPSIDE		5.7	RUTILE	:		ZIRCON	:		* FORSTER	(S(OL):
PHELITE :		HYPERSTH	ENE : 2	9.58	FLUORA	PATITE: .	04	CALCITE	:		* FAYALIT	E(OL):
ALIOPHILITE:		OLIVINE		Parkette Markette Committee Committe				******TOTA	.*: 99.88			
	DE THE SE		8.0									
The second secon	E HINEKHLD	KHITU	12 HMD TI	MUEXED **	***							
***** MIKUHITA	1.6 3	0.B 67.	66	LOR INDEX		140.32	TOT	AL % FELDSP	ARS : 5	0.8		
R - AB - AN 1		1.3 84	CR	YSTALL I ZA	LION INDE	X: 49.68	TOT	AL % PLAGIO	CLASES:	50		
R - AB - AN 1	14.7		DI	FFERENTIA	TION INDE	X: 16.46	PLA	GIOCLASE IN	DEX :	69		
- AB - AN 1	14.7											
RTZ-ORTH-PLAG:							4					
R - AB - AN : RTZ-ORTH-PLAG :	*						4					
RITTMAN VALUES	# ERS *****								* RITMAN			
R - AB - AN : RTZ-ORTH-PLAG : RITTMAN VALUES ***** MOLE NUMB!	# ERS ***** FE+2: .1	27 NA		.06 P		01 S	0	SI :	53.76	CA	: 1	AN 1
R - AB - AN : RTZ-ORTH-PLAG : RITTMAN VALUES ***** MOLE NUMB! I : .895 L : .31	# ERS ***** FE+2: .1 MG : .1	27 NA 85 K	: .	.06 P		01 S 03 H2D+	.0001	SI :	53.76	CA	: 1	AN 1
R - AB - AN : RTZ-ORTH-PLAG : RITTMAN VALUES RITTMAN VALUES RITTMAN VALUES RITTMAN VALUES RITTMAN VALUES RITTMAN VALUES RITTMAN VALUES RITTMAN VALUES	# ERS ***** FE+2: .1	27 NA 85 K	: .	.06 P 003 MI 009 C		01 S 03 H2D+ 0 H2O-		SI :	53.76	CA	: 1	.AN 1
R - AN I RTZ-ORTH-PLAG: RITTMAN VALUES ***** MOLE NUMB! I895 L : .31   E+3: .032	# ERS ***** FE+2: .1 MG : .1 CA : .	27 NA 85 K 15 TI		003 MI	N : .00	03 H20+ 0 H20-	.0001	SI : AL : FM :	53.76 14.2 15.04	CA ALK K	: 1	.AN 1
R - AB - AN : RTZ-ORTH-PLAG :  RITTMAN VALUES ***** MOLE NUMB! I : .895 L : .31 E+3: .032	# ERS ***** FE+2: _1 MG : .1 CA : .	27 NA 85 K 15 TI	SON TO T	003 MI 009 CI	N : .00	03 H20+ 0 H20-	: .0001 : .0001	SI : AL : FM :	53.76 14.2 15.04	CA ALK K	: 1	.AN 1
RTZ-ORTH-PLAG:  RITTMAN VALUES ***** MOLE NUMB  I: .895 -: .31 E+3: .032	# ERS ***** FE+2: _1 MG : .1 CA : .	27 NA 85 K 15 TI	SON TO T	003 MI 009 CI	N : .00	03 H20+ 0 H20-	: .0001 : .0001	SI : AL : FM :	53.76 14.2 15.04	CA ALK K	: 1	.AN 1
RITTMAN VALUES ***** MOLE NUMB  1: .895  1: .31  E+3: .032  ***** GAINS AND	# ERS ***** FE+2: _1 MG : .1 CA : .	27 NA 85 K 15 TI COMPARIS	SON TO TO	003 MI 009 CI HE AVERAGI MGO 1 7	N : .00 D2 : ES OF THE 46 42	03 H20+ 0 H20-	: .0001 : .0001	SI : AL : FM :	53.76 14.2 15.04	CA ALK K	: 1	_AN
RITTMAN VALUES RITTMAN VALUES **** MOLE NUMB!  1 .895 1 .31 +3: .032  ***** BAINS AND  ITS SAMPLE NORMAL VALUE	# ERS ***** FE+2: 1 MG : 1 CA : .	27 NA 85 K 15 TI COMPARIS	SON TO T	003 MI 009 CI	N : .00 D2 : ES OF THE 46 42	03 H20+ 0 H20-	: .0001 : .0001	SI : AL : FM :	53.76 14.2 15.04	CA ALK K	: 1	.AN 1
R - AB - AN : RTZ-ORTH-PLAG : RITTMAN VALUES ***** MOLE NUMB! : 895 - : .31 E+3: .032 ***** GAINS AND HIS SAMPLE NORMAL VALUE AIN OR LOSS	# ERS ****** ERS ******  FE+2: .1 MG : .1 CA : .  LOSSES BY A20 : 1.85 -1.43	27 NA 85 K 15 TI COMPARIS K20:	SON TO TO 14	003 MI 009 CI HE AVERAGI MGO : 7	N : .00 D2 : ES OF THE 46 42	03 H20+ 0 H20- ABITIBI V0	: .0001 : .0001	SI : AL : FM :	53.76 14.2 15.04	CA ALK K	: 1	AN 1
RTZ-ORTH-PLAG:  RITTMAN VALUES  ***** MOLE NUMB!  I: .895 L: .31 E+3: .032  ***** GAINS AND HIS SAMPLE NUMB! AIN OR LOSS  ***** LITHONAME!	# ERS ****** FE+2: .1 MG : .1 CA : .  LOSSES BY A20 : 1.85 -1.43 S (IF VOL	27 NA 85 K 15 TI COMPARIS K20:	SON TO TO 14 .3724	003 MI 009 CI HE AVERAGI MGO 1 7	N : .00 D2 : ES OF THE 46 42 98	O3 H20+ O H20- ABITIBI VO PRIORITY :	: .0001 : .0001 LCANICS ()	SI : AL : FM :	53.76 14.2 15.04	CA ALK K	: 1	AN I
R - AB - AN I RTZ-ORTH-PLAG:  RITTMAN VALUES ***** MOLE NUMB! I : .31   E+3: .032  ***** GAINS AND HIS SAMPLE N. ORMAL VALUE AIN OR LOSS  ***** LITHONAME:	ERS ****** ERS ******  FE+2: .1  MG : .1  CA : .  LOSSES BY A20 : 1.85  -1.43  S (IF VOL	27 NA 85 K 15 TI COMPARIS K20:	SON TO TO 14 37 24	003 MI 009 CI HE AVERAGI MGO 1 7 5	N : .00 D2 : ES OF THE 46 42 98	03 H20+ 0 H20- ABITIBI VO PRIORITY:	: .0001 : .0001 LCANICS ()	SI : AL : FM :	53.76 14.2 15.04 , 1973) *	CA ALK K	: 1	AN 1
R - AB - AN 1 RTZ-ORTH-PLAG:  RITTMAN VALUES ***** MOLE NUMB! I : 895 L : .31 E+3: .032  ***** GAINS AND HIS SAMPLE NORMAL VALUE AIN OR LOSS	ERS ****** ERS ******  FE+2: .1  MG : .1  CA : .  LOSSES BY A20 : 1.85  -1.43  S (IF VOL	27 NA 85 K 15 TI COMPARIS K20:	SON TO TO 14 37 24	003 MI 009 CI HE AVERAGI MGO 1 7 5	N : .00 D2 : ES OF THE 46 42 98	03 H20+ 0 H20- ABITIBI VO PRIORITY:	: .0001 : .0001 LCANICS ()	SI : AL : FM :	53.76 14.2 15.04 , 1973) *	CA ALK K	: 1	AN 1

CLIENT: LAPAUSE SURFACE DATA FILE: LAPAUSE 09:18:58PM 16 MAY 83

***** REFERENCE	ATA *****								RECORD	NO.: 31641
AUTHOR: LAPAUSE	YEAR	4 1987 F	REFERENCE : L	_APAUSE					SAMPLE NO	THE REAL PROPERTY.
PROVINCE :	OWNSHIP				N7	S SHEET	1	LONG. :	- LAT	1
AUTHOR: LAPAUSE PROVINCE :			UTM ZONE	E: U	ITM SQ. IDEN	4T.:	UTM EAST :		UTM NORTH :	
GEOL.AGE: (	SEOL. PROV.	: GEOL	ENVIRONMEN	NT:						IAME :
		STRATIGRAPH	4Y_ =		MAGMATIC	SERIES :	SPEC.	GRAVITY :		
DESCRIPTION :										
	70000		<u> </u>							
***** DRIGINAL D	IDES AND T	RACE ELEMENT	(S*****			alle etc. in a latinest	0 to 1		***** ** ** ** **	
SIO2 : 45.40 AL2O3: 16.80 FE2O3: 12.90	CAO : 7.	6B MNO	: 0.19	S:	B	1:	F :	PE	3 :	ZN :
AL203: 16.80	NA20 : 3.	15 LOI	: 3.50	AG :	CI	_ :	HG:	18	<b>V</b> :	
FE203: 12.90	K20 : 0.	45 CD2		AS:	-Ct	1 :	LI:	SF	₹ :	
FEO :	T102 1 0.	70 H20.	.Pt	AU :	CF	₹ ;	MD :	V	1	
FEO : MGO : 8.44	P205 1 0.	11 H20.	, MI	BA :	Cl	J :	MT 1	W	1	
Author - No			* * * * * *	AND DESCRIPTION OF THE PARTY OF	an eres a constant of					
	* * * *	* * * * * *	* * * * * *	CALLU	LAIIU	N 5 * *	* * * * * *	* * * * * *	* *	
***** NORMALIZED	OVIDER (PV	DITE DEMOUE	A TE CHI EUD	TOON AC SO	" FEDOT A	אות ממע בר	n nev tot	AL =100%) NAME		
ST02 . 47 9	N 2013-017	79 90 50 50	71 200 00	EEO .	0'0	MOD .	O O O	MC-100%) ***	CHA.	100 000 000
NA20 : 3 32	MC2031 17.	47	74	P20% :	12	MNO :	2	HU 1 0.1		
SI02 : 47.9 NA20 : 3.32			1.1	7200 :	. 1 4	1.40				
***** OXIDES I	RATIOS AND	INDEXES ***	***							
****** OXIDES   A-F-M : 1: NA20-K20-SIO2 :	5.03 49.A	6 35.3	FFOC	TOTAL)/MBD	: 1.38	AL KO	LINITY RATI	0:1.34	BASICITY INC	DEX : 21.02
NA20-K20-ST02 :	6	1 93	, , ,	K20/NA20	. 14	ALKE	UT INDEX	:12.4 501	IDIFICATION INC	EX : 35.49
K2D/NA20+K20 :	12 3	9. 407.53				- FILEINT	FELSIC INDE	Y . 31 88	HASHIMOTO INI	EX : 45.07
KED/IMED/KED	The solutions.	1 5 M				MA	FIC INDEY	:58.45	MARCOTTE INC	NEX : - 56
	140.00	2.00								
***** NORMATIVE   QUARTZ : CORUNDUM :	INFRAIS	LISTING **	****					The state of the state of the		
QUARTZ :	A	CMITE		MAGNETIT	F : 3.9	74	HALITE	1	* WOLLASTO	(DP): 3.08
CORUNDUM :	C	A-SILICATE		HEMATITE	1		FLUORITE		* ENSTATIT	(DP): 1.76
ORTHOCLASE 1 2	8 48 4 64 N	A-MSILICATE	1	ILMENITE	: 1.	.4	THENARDITE		* FERROSIL	(DP): 1.18
ALBITE : 28.	12 K	-MSILICATE	1	SPHENE	1		PYRITE	4	* ENSTATIT	(HP): 1.07
ANORTHITE : 32.	04 W	OLLASTONITE		PEROVSKI	TE :		CHROMITE	1	# FERROSIL	(HP): .72
LEUCITE :	D	IOPSIDE	6.04	RUTILE	:		ZIRCON	:	* FORSTERS	(OL): 13.52
NEPHELITE :	н	YPERSTHENE !	1.79	FLUORAPA	TITE: .C	29	CALCITE	:	* FAYALITE	(DL): 10.03
KALIOPHILITE:	0	LIVINE	23.58	-			*****:TOTA	L*: 99.8		
ORTHOCLASE : 28. ALBITE : 28. ANORTHITE : 32. LEUCITE : KALIOPHILITE:				;						
OR - AB - AN :	4.4 44.	7 50.9	COLOR INDEX		36.75	TOT	TAL X FELDSP	ARS : 2.96	MANUAL . W	
QRTZ-ORTH-PLAG:	0 4.	4 95.6	CRYSTALLIZAT	TION INDEX:	50.11	TOT	TAL % PLAGIO	CLASES: 0.16 DEX :		
			DIFFERENTIA	TION INDEX:	30.92	PLP	AGIOCLASE IN	DEX :	53	
* RITTMAN VALUES		2 1								
***** MOLE NUMBER		Lat " to the same of						* RITMAN VALL		
SI : .797 F					2 S	0	SI t	47.9CI	A	AN . I
	3 : .221			N : .003	H20+	: .0001	AL :	15.94 AL	K: 5.45	
FE+3: .034 C	A : .144	TI :	.009 CC	02: 0	H20-		FM :	17.93 K	: .08	
					1 1 1 4 4 10					
	DSSES BY C	OMPARISON TO	J THE AVERAGE	ES OF THE A	BITIBI VOL	_CANICS (	DESCARREAUX	, 1973) ****	F-16	
***** GAINS AND I	20 1 3,32	K201 ,47	MGO : 8.	. 9			7 4 . 6 5			
***** GAINS AND I		.2	7.5	86					water some some of the same of the same some some some some some some some so	
THIS SAMPLE NA:	2.45			85 PR	TORITY .					
THIS SAMPLE NA:	.87	.28	. 1	00 11						
THIS SAMPLE NA: NORMAL VALUE GAIN OR LOSS	.87			90 11						
THIS SAMPLE NA: NORMAL VALUE GAIN OR LOSS	.87	NIC POCK) #1								
THIS SAMPLE NA: NORMAL VALUE GAIN OR LOSS	.87	NIC POCK) #1						· ***		

DATA FILE : LAPAUSE CLIENT : LAPAUSE SURFACE 09:19:36PM 16 MAY 87

and the second second second	OWNER OF		DATA FIL RAM IS N	NOT RESPO	ONSIBLE FOR	ANY PROBLE	MS OR ER	RORS THAT MAY	ARISE FF	OH THE	USE OF THESE DATA.	
**** REFERENCE	DATA ***	***		X							RECORD NO.: 31642	
THOR: LAPAUSE	YE	AR : 1987	REF	FERENCE	: LAPAUSE						SAMPLE NO : P	
OVINCE	TOWNSHIP	1.8				• N	TS SHEET	1 ···	LONG. :		LAT. I	
				UTM Z	DNE :	UTM SQ. IDE	NT.:	UTM EAST :		UT	M NORTH :	
OL. AGE :					MENT :						ROCK NAME :	
NTEXI :		STRAT	IGRAPHY.			MAGMATIC	SERIES	SPEC.	GRAVITY :			
SCRIPTION :			1 1 1 1									
			3 3 4 5	- 1 P								
**** ORIGINAL	DYIDES AN	D TRACE F	EMENTS	*****		,						
	CAO :				S:	5	I	Fı		PB :	ZN :	
203: 14.40	NA20 :			6.60		-	Li	HG :		SN :	2 14 2	
						L	L 1	LI:				
203: 11.60	_ KZU :-	0.20	1.112	<del></del>						SR		
U	1102 :	0.63	H20, P1	1			RI	MO :		V z		
0 : 7.02	P205 :	0.10	H20. M	I amount	BA :	C	U s	NI :		W		
					* CALC	ULATIO	NS # #	* * * * * *	* * * * *			
**** NORMALIZE	ח חצותה	(PYRITE R	EMNUEN 1	TE SIN FIN	R TRON AS	20% FE203 A	ND BOY E	EN NOV TOTA	l=100%) 4	C.M.M.M.M.M.		
NORMALIZE 12: 53.96 20: 2	AL2031	15.57	FE203	2,51	FEO :	. 9.03	MGO :	7.59 CA	0 : 8.	1		
10: 2	K20 :	. 22	T102 1	.68	P205 s	.11	MNO I	.22		15-2		
7.8 CH 1-17	-21.55 C	Towns Comment	Harris Contract	Kept No.	- 1 1		1 1					
*** UXIDES ***	PATTING A	WILL LINE AE	C NENENE	M.								
-17 :	10.4	4.05 35	. 22	FEI	U(TUTAL)/MG	U: 1.49	ALK	ALINITY RATIO	I NA	E	BASICITY INDEX : 19.39	
0-K20-SI02 :	4	0	96		K20/NA2	.0: .11	ALK	ALI_INDEX	19.91	SOLIDIF	SASICITY INDEX: 19.39 ICATION INDEX: 35.97	
/NA20+K20 :	24- 1	(100)		11				FELSIC INDEX	: 21.49	HA	SHIMOTO INDEX : 43.58	
1	A	Sec. 18	D. F. F. F.	9				AFIC INDEX			ARCOTTE INDEX :11	
2. 1	Salar - III	17 4 49 49 45	N 45-13 1 10									
*** NORMATIVE	MINERALS	LISTI	NG ****	**								
		ACMITE			MACNET	ITE : 3.	43	HALITE			* WOLLASTO(DP): 2.78	
LINDUM :	. 20	CA-SILI	CATE			115 : 3.	63	MALTIE			* WULLASTU(DP): 2.78  * ENSTATIT(DP): 1.54  * FERROSTI (DP): 1.12	
THOUSE ARE	See a seed	LH-SILI)	HIE	The same of the sa		IE		FLUURITE	10000		* ENSTATIT(DP): 1.54 * FERROSIL(DP): 1.12 * ENSTATIT(HP): 17.36	
HOCLASE : 1:	• 4/	NA-MBIL	ICATE	Print -	ILMENI	TE : 1.	29	THENARDITE	1		* FERROSIL(DP): 1.12	
ITE : 16	.92	K-MSILI	CATE :	F	SPHENE			PYRITE	1		* ENSTATIT(HP): 17.36	
RTHITE : 32	.87			A	- renuva	KITE 1	The second consistent the contract	CHROMITE			* FERROSIL (HP): 12.66	
CITE :		DIOPSID	E. 1	5.45	RUTILE	: PATITE: .		ZIRCON	1		* FORSTERS(OL):	
HELITE :		HYPERST	HENE : 3	30.02	FLUORA	PATITE:	OB	CALCITE			* FAVALITE (OL):	
IOPHILITE:		OLIVINE		,0.02	1 200101		<b>V</b> O	ANANA TOTAL	×. 00 70		* FORSTERS(OL): * FAYALITE(OL):	
101111111111111111111111111111111111111	11.		T. C. S. S. C. S.	· č.	more was made to be				*1 774.77			
	141 AS 141											
TTT NUMBER	E MINERAL	S RATI	DE AND I	INDEXES	*****							
	2.5	33.1 64	4 00	JLOR INDE	EX	: 40.39	TO	TAL % FELDSPA	RS 1 . 1 .	.06		
- AB - AN		2.1 83.	9 CF	RYSTALLI	ZATION INDE	X: 48.36	TO	TAL % PLAGIOC	LASES: 9.	79		
- AB - AN	13.9			IFFERENT	IATION INDE	X: 18.19	PL	AGIOCLASE IND	EX :	66		
- AB - AN . 2	13.9		Di									
- AB - AN . z	13.9		D									
- AB - AN : Z-ORTH-PLAG :			Di									
Z-DRTH-PLAG :	*350 V		D)					******	DITMON I	JOI LIES A		
- AB - AN : Z-ORTH-PLAG : RITTMAN VALUES **** MOLE NUMBE	ERS ****					00 0			RITMAN			
- AB - AN : IZ-ORTH-PLAG : RITTMAN VALUES **** MOLE NUMB : .898	# ERS #### FE+2:	I# 126 N	A	.065		02 S		SI 1	53.96	CA 1	1AN :	
Z-DRTH-PLAG: Z-DRT	# ERS #### FE+2: MG : .	1# 126 N 188 K	A .	.065	MN : .0	03 H2D+	: .0001	SI 4 AL 8	53.96 14.01	CA 1	3.22	
Z-DRTH-PLAG: ITTMAN VALUES *** MOLE NUMBE : .898	# ERS #### FE+2:	1# 126 N 188 K	A	.065		03 H2D+	: .0001	SI 1	53.96 14.01	CA 1	3.22	
TOTAL STATE OF THE PLAGE : CATTHAN VALUES *** MOLE NUMBE : .898	ERS ***** FE+2: MG : .	126 N 188 K 145 T	A : .	.045 .005 .009	MN : .0 CO2 :	03 H2D+ 0 H2O-	: .0001	SI : AL : FM :	53.96 14.01 15.3	ALK: K:	3.22 .06	
- AB - AN : TZ-ORTH-PLAG : RITTMAN VALUES **** MOLE NUMB : .898 : .305   **** GAINS AND	ERS ***** FE+2: MG : . CA : .	126 N 188 K 145 T	A : . I : .	.065 .005 .009	MN : .0 CO2 :	03 H20+ 0 H20-	: .0001 : .0001	SI : AL : FM :	53.96 14.01 15.3	ALK: K:	3.22 .06	
- AB - AN : Z-ORTH-PLAG : XITTMAN VALUES *** MOLE NUMB: : .898 : .305 ! 3: .031 (	ERS ***** FE+2: MG : . CA : .	126 N 188 K 145 T	A : . I : .	.065 .005 .009	MN : .0 CO2 :	03 H20+ 0 H20-	: .0001 : .0001	SI : AL : FM :	53.96 14.01 15.3	ALK: K:	3.22 .06	
- AB - AN : Z-ORTH-PLAG : Z-OR	# ERS ***** FE+2: MG : . CA : . LOSSES B A20 :	126 N 188 K 145 T BY COMPARI 2 K20	A : . I : . SON TO 1	.045 .005 .009 THE AVER	MN : .0 CO2 : AGES OF THE 7.59 5.34	03 H20+ 0 H20- ABITIBI VO	: .0001 : .0001	SI : AL : FM :	53.96 14.01 15.3	ALK: K:	3.22 .06	
Z-ORTH-PLAG:  Z-	# ERS ***** FE+2: MG : . CA : . LOSSES B A20 :	126 N 188 K 145 T BY COMPARI 2 K20	A : . I : . SON TO 1	.045 .005 .009 THE AVER	MN : .0 CO2 : AGES OF THE 7.59 5.34	03 H20+ 0 H20- ABITIBI VO	: .0001 : .0001	SI : AL : FM :	53.96 14.01 15.3	ALK: K:	3.22 .06	
TZ-ORTH-PLAG:  RITTMAN VALUES  **** MOLE NUMB  : .305  : .305  **** GAINS AND  IS SAMPLE  MICHAEL VALUE	# ERS ***** FE+2: MG : . CA : . LOSSES B A20 :	126 N 188 K 145 T BY COMPARI 2 K20;	A : . I : . SON TO 1	.045 .005 .009 THE AVER	MN : .0 CO2 : AGES OF THE 7.59 5.34	03 H20+ 0 H20- ABITIBI VO	: .0001 : .0001	SI : AL : FM :	53.96 14.01 15.3	ALK: K:	3.22 .06	
- AB - AN : IZ-ORTH-PLAG: RITTMAN VALUES **** MOLE NUMB: : .898 : .305 : .305  **** GAINS AND IS SAMPLE IN OR LOSS **** LITHONAMES	ERS ***** FE+7: MG : CA : LOSSES B A20 : 3.3 -1.3	126 N 188 K 145 T BY COMPARI: 2 K20;	A :	.045 .005 .009 THE AVER	MN : .0 CO2 : AGES OF THE 7.59 5.34	03 H20+ 0 H20- ABITIBI VO	: .0001 : .0001	SI : AL : FM :	53.96 14.01 15.3	ALK: K:	3.22 .06	
- AB - AN : IZ-ORTH-PLAG : RITTMAN VALUES **** MOLE NUMB :	ERS ***** FE+7: MG : CA : LOSSES B A20 : 3.3 -1.3	126 N 188 K 145 T BY COMPARI: 2 K20;	A :	.045 .005 .009 THE AVER	MN : .0 CO2 : AGES OF THE 7.59 5.34 2.19	03 H20+ 0 H20- ABITIBI VO	: .0001 : .0001	SI : AL : FM : (DESCARREAUX,	53.96 14.01 15.3	ALK: K:	3.22 .06	
Z-ORTH-PLAG:  Z-	ERS ***** FE+7: MG : CA : LOSSES B A20 : 3.3 -1.3	126 N 188 K 145 T BY COMPARI: 2 K20;	A :	.065 .005 .009 THE AVERA MGO 1	MN : .0 CO2 : AGES OF THE 7.59 5.34 2.19	03 H20+ 0 H20- ABITIBI VO PRIORITY:	: .0001 : .0001	SI : AL : FM : (DESCARREAUX,	53.96 14.01 15.3	ALK: K:	3.22 .06	
TOTAL PLAGE  ITTMAN VALUES  *** MOLE NUMBE  : .898	ERS ***** FE+7: MG : CA : LOSSES B A20 : 3.3 -1.3	126 N 188 K 145 T BY COMPARI: 2 K20;	A :	.065 .005 .009 THE AVERA MGO 1	MN : .0 CO2 : AGES OF THE 7.59 5.34 2.19	03 H20+ 0 H20- ABITIBI VO PRIORITY:	: .0001 : .0001	SI : AL : FM : (DESCARREAUX,	53.96 14.01 15.3	ALK: K:	3.22 .06	

CLIENT: LAPAUSE SURFACE DATA FILE: LAPAUSE 09:20:15PM 16 MAY 87

**** REFEREN	CE DATA ##	#### CAD - 1007	DEEED	THEE . LADA	ICE						RECORD NO. SAMPLE NO : LAT. : TM NORTH : ROCK NAME	: 31643
THUR: LAPAUS	TOUNCUT	EHK 1 1487	KEPER	ENGE I LAPA	JDE	NITE	BHEET .		I DNG +		SAMPLE NU I	4.00
OATHCE - 8			4	ITM ZONE :	LITM	SO. IDENT.	t 1	ITM FAST :	CONO.	- 11	TM NORTH :	
DI AGE :	GEOL - PR	ηV. :	GEOL. EN	ZIRONMENT :	GIII .	Ja: IDEIII		ZIVI ENG!	ROCK	TYPE :	ROCK NAME	
NTEXT :	DECET	STRAT	IGRAPHY 1		MAI	SMATIC SE	RIES :	SPEC.	GRAVITY	4		
SCRIPTION :	WALL T											
			A Section of									
**** ORIGINAL	OXIDES A	ND TRACE E	EMENTS +4								to a ferror	
02 : 64.80	CAO :	2.76	MNO : C	0.04 5	1	BI:		F:		PB:	ZN	:
.203: 14.40	NA20 :	7.12	LOI 1 4	4.00 A	G :	CL :		HG :		SN:		
203: 3.26	K20 :	Q. 71	C02 :	A	5 :	CO :		LI :	or servery	SR I		
0 ;	T102 1	0.38	H20.P:	Al	1 :	CR s		MO ¢	27	V		
02 : 64.80 .203: 14.40 .203: 3.26 .0 :	P205 1	0.11	H20.M:	В	A :	CO :		NI I	4	M E		
	4 4	* * * * *		* * * C A	LCHIA	TION			* * * *	* * * *		
**** NORMALI	ZED OXIDES	(PYRITE R	EMOVED IF	SULFUR IRO	N_AS_20% F	E203 AND	BOX FED.	DRY. TOT	AL=100%)	***	A residual and a second a second and a second a second and a second a second and a second a second and a second and a second and a second and a second a second and a second a second a second and a second and a second and a second and a sec	
02 : 68.13	AL 2031	15.14	FE203:	4.68 T	EO : 2.4	7 MG	0 : 1.	89 C	AO : 2	2.9		
02 : 68.13	K20 M	.75	1 TIO2 :	4 P	205 : .1:	2 MN	0 : 0	.04	-			
	The state of the	MARKET TO	\$5 FF-2   8 5%	27点量								
**** DXIDES	RATIOS	AND INDEXE	S *****								BASICITY INDEX FICATION INDEX HASHIMOTO INDEX MARCOTTE INDEX	
F-M	: 62.05	23.72 14	. 23	FEO (TOTAL	L)/MGO:	1.63	ALKAL!	INITY RATI	O : NA		BASICITY INDEX	: 5.55
ZU-K20-SI02	10		89	K2I	U/NA20 :	. 1	ALKAL!	INDEX	19.1	SOLIDI	FICATION INDEX	1 14.31
U/NA20+K20	.09	1000	- 1 TO A				FE	LSIC INDE	X : 73.97	Н	ASHIMOTO INDEX	20.26
0/NA20+K20	第 3 2	141	10.14	Š.			MAF	IC INDEX	:62.5		MARCOTTE INDEX	: -2.53
SEES NORMATT	HE MINERS	6 110**	NC MANNE							on the same of	A SECTION OF THE PERSON OF	
HAMM NUMMAIL	VE MINERAL	5 LISTI	NO *****		ACNETITE	. 00		AN ITE			* WOLLASTO (DP)  * ENSTATIT (DP)  * FERROSIL (DP)  * ENSTATIT (HP)  * FERROSIL (HP)  * FORSTERS (OL)  * FAYALITE (OL)	. 7 70
DUNTUM -	13.23	HUMITE	CATE :	M	HONE IIIE		1	HLITE FILIOSTE			# ENGIATITION	1 00
THOC ARE	JULY EXAME	LH-BILL	TCOTE		ECHILLE	. 7=		LUUKI E			# EEBBOOTI (DD)	. 1 34
RITE	77 74	K-MSTI T	CATE	C.	PHENE	/3		PYRITE			# FNSTATIT(HP)	2.81
ORTHITE	25.5	HOI I ACT	ONITE	D	EROVSKITE	:		CHROMITE			# FERROSTI (HP)	2.02
UCITE :		DIOPSID	E : A	45 RI	UTILE	:		TROON	1		* FORSTERS (OL)	:
PHELITE :		HYPERST	HENE : 4.1	B3 F1	LUGRAPATIT	E: .09	í	CALCITE			* FAYALITE (OL)	
LIOPHILITE		OLIVINE	:				4	****: TOTA	L#: 99.78	3		
	133		· · · · · · · · · · · · · · · · · · ·									
**** NORMAT	IVE MINERA	LS RATI	OS AND INDI	EXES *****								
- AR - AN	* " A	86.5 7	5 COLOR	RINDEX	, 1	3.22	TOTAL	% FELDSP	ARS : 3	5.24		
TZ-ORTH-PLAG	: 15.3	5.1 79.	6 CRYS	TALLIZATION	INDEX: 1	1.55	TOTAL	% PLAGIO	CLASES: 8	8.83		
			DIFF	ERENTIATION	INDEX:	67.74	PLAG:	IOCLASE IN	DEX :	8		
TZ-ORTH-PLAG												
RITIMAN VALU	EB #	Tr. 300										
**** MOLE NU	MBERS ***	**						****	* RITMAN	VALUES	*****	
1 1.134	FE+21	-034 N	A 24	2 P :	.002	S :	0	SI :	68.13	CA :	****** 1 AN	.1
	MG :	.047 K	: .01	6 MN :	.001	H20+;	.0001	AL :	13.62	ALK :	11.98	
297	CA :	.052 T	I : .00	5 CO2 :	0	H20-:	.0001	FM :	3.81	K :	.06	
: .297 :+3: .009			DOM: TO THE		-				7.000	7.7.2	7	
+3: .009	View of management	BY COMPARI	BUN TO THE	AVERAGES OF	F THE ABIT	IBI VOLCA	NICS (DE	ESCARREAUX	, 1973)	***		
: .297 :+3: .009	ND LOSSES	Am	7 M M(3)	U 1 . 1.89					1			
: .297 :+3: .009 **** GAINS A	NA20 . 7.	49 K20:	1.70					and the same of the same	1200			
: .247 +3: .009 **** GAINS A IIS SAMPLE IRMAL VALUE	NA20 + 7	.7	1.21	1.42		T T 1/						
+3: .009 **** GAINS A NIS SAMPLE IRMAL VALUE IN OR LOSS	NA20 : 7.	79	47	. 29	PRIOR							
+3: .009 **** GAINS A NIS SAMPLE IRMAL VALUE IN OR LOSS	NA20 : 7.	79	47	. 29	PRIOR							
+3: .009 **** GAINS A NIS SAMPLE IRMAL VALUE IN OR LOSS	NA20 : 7.	79	47	. 29	PRIOR		a contractor	, o k	5. g	anamaja wasa		
: .247 +3: .009 **** GAINS A IIS SAMPLE IRMAL VALUE	NA20 : 7.	79	47	. 29	PRIOR		VODACIT			ananga wasa	, joseph (se	

ITHOR: LAPAUS	Ε	YEAR I	1987				USE								8	AMPLE I	RD NO.:	
ROVINCE	TOWNEH	IIP.			LITAL T				NTS SH				LONG.		AATTA		T. :	
OL. AGE 1	CEOL E	ROV. I	00	n.	UIM Z ENVIRON	ONE :		M SQ. ID	ENT.		UTM EAS					NORTH	K NAME	
NTEXT :			STRATIGRA					MAGMATT	C SERT	EC .	CP					NUCI	N. INHITE.	i .
SCRIPTION :					15. 15.	101110 000		i mui mi a	C SLIVE		- t-	tule 0 to	HUMB I I I	4 -				
		53.34											. 4					
**** ORIGINA	DXIDES	AND TRA	CE ELEME	NTS.	*****													
02: 47.60	CAD	1 4.58	3 MN	10 s	0.18				BI:		F			PB	:		ZN s	
203: 13.40		: 4.93			8.00		G:		CL :		HG			SN				
203: 11.20		: 0.4E			-		S : -		CO :				ye was a					or beautiful to ma
: 0.	TID2	1 0.44	-	0.P:			U :		CR :					· V				
50 : 6.49	P205	1 0.10		D.M.	Art.	В	A		CU :		NI	2		W	I .			
**** NORMALI 02 : 53.77 20 : 5.57	ZED OXIDE	S (PYR)	LTE REMOV	ED I	F SULFU	IR. IRO	N AS 20%	FE203	AND BO	% FEO	DRY.	TOTAL	=100%)	****		e e e e e e e e e e e e e e e e e e e		) <i>:</i>
OVIDEO	CATION	44.15				-		-								(6) A (8		
**** OXIDES	KATIOS	AND IN	VUEXES **	****		0/7070				01.124	ThiTT: -	ATT-					TUBES	43.00
F-M 20-K20-SIO2	. 44.30	40.41	29.23		FE	OCTUIA.	C/NA20 :	1.55	•		INITY R			COL 3			INDEX :	
20-K20-S102 O/NA20+K20		A 18 2 40	70 THE STA	40.00		KZ	U/MHZU:	. 1			I INDEX							
		自動物									IC INDE							-1.71
**** NORMATI					*													
ARTZ :			TITE				AGNETITE				HALITE	_	:				TO (DP):	
THOCLASE :	3 2		-SILICATE		200		EMATITE LMENITE		.98		FLUCRIT						II(DP):	
BITE :	47.12	K-P	SILICATE	4		6	PHENE	,	. 70		PYRITE		:				IT(HP):	
ORTHITE	47.12 14.7	NO.	LASTONII	E. A.	Charles	P	EROVSKIT	E :			CHROMIT	E	1		*	FERROS	IL(HP):	1.54
UCITE :		DIC	OPSIDE	:	8.38	R	UTILE	- :			ZIRCON				*	FORSTE	RS(OL):	9.74
PHELITE :			PERSTHENE				LUORAPAT	-	.08		CALCITE		:				TE (DL):	
LIOPHILITE:		OL	IVINE	-11	8.11				11 75 761		*****T	OTAL*	99.7	7				
	Alced .	1 3 7		7 10														
**** NORMAT													_					
- AB - AN TZ-ORTH-PLAG											L % FEL							
12-UNIN-PLAG	. 0	4.4	45.1				INDEX:				AL % PLA SIOCLASE				1			
				DI	FFERENI	THITUN	INDEX:	50.52		FLAG	TULLASE	TADE		24	+			
RITTMAN VALUE	ES #	9-11-		1 4														
**** MOLE NU	MBERS **	***	7 3000	100							**	****	RITMAN	VALUE	S ***	***		
: 895			NA.	17:17	.18	P	.002	S	:	0			53.77				AN :	
: .297	M6 :		K :		011	MN :	.003	H20				: 1	3.62	ALK	( : E	3.89		
+3: .032	CA I	.092	TI :		007	CO2 :	0	H20	-: .0	0001	FM	: 1	4.78	K	2	.06		
SATE CATNO AL	NO LOBSES	37 · · · ·	(20:	4	HE AVER	7.33		ITIBI V	OLCANI	cs (D	ESCARRE	AUX,	1973)	****	•			
IS SAMPLE	E or even your in						AL WEST STREET, ST. P. T	** ** **										
IS SAMPLE RMAL VALUE		. 28	. 1	.7		1.86	PRI	ORITY:										

JENSEN LITHONAME : THOLEIITIC BASALT

JENSEN MAGMATIC SERIES

: THOLEIITIC

CLIENT . LAPAUSE SURFACE 09:21:31PM 16 MAY 87

			74.57								,			THESE DATA.
##### REFE AUTHOR: LAF PROVINCE :	ERENCE D	ATA ***	444 - 222											DRD NO.: 3164
AUTHOR: LAF	PAUSE	YE	AR 1 19	87	REFERENCE	E & LAPAU	SE							NO : RELIDOS
PROVINCE 1		MINSHIP	-	-	main committee			NTS		:				AT. s
							UT	M SQ. IDENT	s 5	UTM EAST :			UTM NORTH	
GEOL.AGE :			IV. 1			DNMENT :						TYPE :	RO.	CK NAME :
CONTEXT .			STR	ATIGRAP	HY 1			MAGMATIC S	ERIES :	SPEC.	GRAVITY	3 4		
DESCRIPTION	N. B. State	- 10	. 1. 3.											
				1000	(A)-*									
##### ORIE														
5102 : 52.1		CAO 1			: 0.23		1	BI		Fi		PB:		ZN :
AL203: 14.0		NA20 :			: 3.40		:	CL		HG :		SN:		
FE203: 16-2	20	K20 :	0.12			AS		CO.	_	LI.		SR :		
FED : 5.4	A TOTAL	F102 f	0.90	H20	.Ps	AU	1	CR		MO 1		VI		
MGD : 5.4	19	P205 1	0,14	H20	, Mr	BA		CU		NI :		W t	sulface of	
	1 41 6 1	the standard	777 77 1 1 1 1 1 1		4 54 1	100.000 11000 11				NATIONAL PROPERTY.	To			
		* * *	* * * *	* * * *	* * * *	* * C A	LCUL	ATION	S * * ·	* * * * * *	* * * *	* * *	*	
##### NORt	MALIZED	DXIDES	(PYRITE	REMOVE	D. IF SULF	FUR, IRON	A5 20%	FE203 AND	80% FE	D, DRY, IDI	AL=100%)	******		
SI02 : 54.4	56	AL 2031	14.69	FE2	03: 2.	4 FE					AB &	5.2	120	
NA20 : 2.	.6	K20	. 13 题	710	2 :	4 P2	05 : 30	.15 M	NO :	.24				
								-			· · · · · · · · · · · · · · · · · · ·		- movemen	
***** OXIE														
A-F-M	: 11	.31 6	4.82	23.87	r	FEO (TOTAL	)/MGO :	2.66		LINITY RATI				INDEX : 21.
NA20-K20-S1	102 :	- 5	Ω	95		K20	/NA20 :	. 05						INDEX : 24.
K20/NA20+K2	20 1	. 05	虚影化组	A STATE OF	200				. 1	FELSIC INDE	X : 34.4	3	HASHIMOTO	INDEX : 43.
1,043		<b>建筑</b>							MAI	FIC INDEX	:73.08		MARCOTTE	INDEX :
	CONTRACTOR	FW 1965	A VENT	1000	And the second							description of		
***** NOR!	MATIVE M	INERALS	LIS	TING **	****									
QUARTZ	: 11.2	7	ACMIT	E	1	MA	GNETITE	: 4.92		HALITE			* WOLLA	STO(DP):
CORUNDUM	1 1.1	6	CA-SI	LICATE.		HE	MATITE		-	FLUORITE	1		* ENSTA	TIT(DP):
ORTHOCLASE	7	4		ILICATE			MENITE	: 1.79		THENARDITE	1000	9	* FERRO	SIL (DP):
ALBITE	: 22.0		K-MSI	LICATE	1	SP	HENE			PYRITE	1		* ENSTA	TIT(HP): 14.
ANORTHITE	: 24.8	5	HOLLA	STONITE		PE	ROVSKIT	E		CHROMITE		**	* FERRO	SIL (HP): 18.
LEUCITE	:		DIOPS	IDE	1	DI	TTIE			ZIRCON	:			ERS(OL):
NEPHELITE	1		HYPER	STHENE	: 32.89	FL	UORAPAT	ITE: .11		CALCITE	2		* FAYAL	ITE (OL):
KALIOPHILII	IE:		OLIVI	NE.			Carlotte I			CALCITE ****:TOTA	L*: 99.7	4		
	5 4 9	17.			A grant of the control of the contro									
***** NOF	RMATIVE	MINERAL	S - RA	TIOS AN	D INDEXE	S *****								
DR AB - 4	AN :	1.6	46.2	52.2	COLOD TE	MEN		39.6	TOT	AL % FELDSP	ARS	47.6		
QRTZ-ORTH-F					CRYSTALI	LIZATION	INDEX:	34.9	TOT	AL % PLAGIO				
					DIFFERE	NTIATION	INDEX:	23.91	PLA	GIOCLASE IN				
* RITTMAN V	VALUES *	187 July	1 100	11/10	4									
***** MOLE				645						****	* RITMAN	VALUES	*****	
				NA .	.084	P	. 002	Sı						AN 1
SI : 91			143	K :		MN :		H20+:			13.22		: 4.03	
SI : 91			093		.012	CO2 :	0	H20-:			11.69		: .03	
								* 100 00 0						
AL : .286 FE+3: .043		necec B	Y COMPA	RISON T	O THE AU	FRAGES OF	THE AR	ITIBI VOIC	ANICS (	DESCARREALLY	1973)	*****		
AL : .286 FE+3: .043	US AND 1		2	13	MGO .	5.76					100			
AL : .286 FE+3: .043	US AND 1	) i	0 5.41	144	1,000	5.09					55			
AL : .286 FE+3: .043	US AND 1		o kau	then be the				OD TTM		Man Carrier Contract		Total Canada Co.		a second second
AL: .286 FE+3: .043 ****** GAIN THIS SAMPLE NORMAL VALL	NS AND L NA2	0 1 2					PRI							
AL : .286 FE+3: .043 ****** GAIN THIS SAMPLE	NS AND L NA2	0 : <b>2</b> .		28		.61	PRI	ORITY :						
AL : .286 FE+3: .043 ****** GAIN THIS SAMPLE NORMAL VALL GAIN OR LOS	NS AND L NA2 JE	8	11	28		.61								
AL : .286 FE+3: .043 ****** GAIN THIS SAMPLE NORMAL VALL GAIN OR LOS	NS AND L NA2 NA2 NS NAMES	8	LCANIC I	28 ROCK) #	****	.61				F 15.78%	F 6	TARK.		
AL: .286 FE+3: .043 ****** GAIN THIS SAMPLE NORMAL VALL GAIN OR LOS ****** LITH MCDONALD-KA	NS AND L MA2 JE SS JONAMES ATSURA M	8	LCANIC I	28 ROCK) *	KALINE	.61	& FIEL	D NAME	NDEE I TE	<b>.</b> 7.74	F.6			
AL : .286 FE+3: .043 ****** GAIN THIS SAMPLE NORMAL VALL GAIN OR LOS	NS AND L MA2 JE SS JONAMES ATSURA M	8	LCANIC I	28 ROCK) *	KALINE	.61 TYPE ROCK	& FIEL		NDESITE	X/	F.6.		V7 x	

CLIENT: LAPAUSE SURFACE DATA FILE: LAPAUSE 09:22:09FM 16 MAY 87

DISCLAIMER :	USE SURFACE THE OWNER C			ILE : LA		E FOR AM	NY PROBLEMS	OR ERRO	DRS THAT MAY	ARISE	FROM TI	09:22:09 HE USE OF		MAY 87
***** REFEREN	NCE DATA ** SE TOWNSHI	EAR 198	)7 - □ R	EFERENCE	: LAPA	NUSE		SHEET		LONG.		SAMPL	CORD NO.: E NO : Ma LAT. :	
GEOL.AGE :		ROV. :	GEOL	. ENVIRO	ZONE : NMENT :	บา			UTM EAST :	ROCK	TYPE		H : DCK NAME	ŧ
CONTEXT :	It's Action		TIGRAPH	Y .			MAGMATIC S	ERIES :	SPEC.	GRAVITY	2	14		
ESCRIPTION E		1 3 Sept 3	17	- A										
**** ORIGINA								1			anni de la constante de la con	1		
102 : 50.20		6.50		1 0.20					F		PB	•	ZN z	
L203: 13.60 E203: 14.50		2.60		: 6.90		G :		:	HG:		SN			
		0.85				UI	CR		MO a		V			
EO : 4.40	P205	0.85	H20.	Mr	В	A s	CU		NI I		W	1		
***** NORMAL IO2 : 54.51 A20 : 2.82	* *			* * * *				_	* * * * * * D, DRY, TOTA 4.78 CA					
A20 : 2.82	)C20 t	25	7102	1 .92	Р	205 :	.18 M	NO :	. 22					
	: 13.74	64.86		** F:	EO (TOTA	L)/MGO :		ALKAI ALKAI	LINITY RATION INDEX	: NA :8.14 (: 30.3	SOLII	BASICIT DIFICATIO	Y INDEX : N INDEX : D INDEX :	21.7
**** NORMAT!	IVE MINERAL 9.11						E : 4.56				10.00	100		
ORIUNDUM .			ICATE :			EMATITE			HALITE FLUORITE				ASTO(DP):	
RTHOCLASE	1.47	TPH-AM	LICATE	Service	Y	LMENITE			THENARDITE		1	# ENST	DSIL (DP)	1.71
LBITE S	23.89	K-MSIL	ICATE :	380	S	PHENE PEROVSKIT			PYRITE	:		# ENST	ATIT(HP):	10.7
NORTHITE	26.88	MOLLAS	STONITE:	12.4	Р			H 1-111	CHROMITE		-	# FERR	DSIL (HP):	15.38
		DIOPSI		5.8			:		ZIRCON CALCITE	=		* FORS	TERS (OL):	
EPHELITE : ALIOPHILITE:		DLIVIN		26.09	F	LUDRAFA	TITE: .14		CALCITE	* 00 4		* FAYA	LITE (OL):	
***** NORMAT R - AB - AN RTZ-ORTH-PLAC	2.8	45.7 5	11.5	COLOR IN	DEX		38.2 36.95 25.36	TOTO PLACE	AL % FELDSP/ AL % PLAGIO GIOCLASE IN	CLASES:	0.77			
RITTMAN VALL														
***** MOLE NU			NA I	.091			_					S *****		
L : .29			K i	.005	MN :			.0001		13.29		: 4.48	AN	
E+3: .039	CA :		TI :	.012	C02 :					9.71		05		
##### GAINS / HIS SAMPLE ORMAL VALUE	MA20 : 2.	.82 K20	USON TO	MGO :	RAGES 0 4.78 5.14		BITIBI VOLC	ANICS (			*****	marine da kineri		( stylete
		. 57	15		42		IORITY:							
AIN OR LOSS														
AIN OR LOSS ***** LITHON CDONALD-KATS RVINE-BARAGA	OMES (IF V	OLCANIC B	SUCK) **	****			D NAME :					Mr. T		

CLIENT: LAPAUSE SURFACE DATA FILE: LAPAUSE 09:22:47PM 16 MAY 87

DISCLAIMER : THE ***** REFERENCE ****** REFERENCE ***********************************	DATA ***** YEAR TOWNSHIP	1 1987 A	EFERENCE   LA	PAUSE	NTS SI	HEET :	LONG.	1	RECO SAMPLE LA	RD NO.: 31647 NO : 31647
			UTM ZONE	: UTM	SQ. IDENT.:	UTM EAST	Γ:		UTM NORTH	:
EDL.AGE :	GEOL.PROV.	STRATIGRAPH	. ENVIRONMENT	: M4	AGMATIC SER	IES: SPI	ROCK	TYPE	; ROC	K NAME :
ESCRIPTION :		Shirt in								
**** ORIGINAL	DYIDER AND T	RACE ELEMENT	B. #####						Access to the	
102 : 52.90	CAO : 6.	09 MNO	1 0.25	S:	BI:	F	:	PB	:	ZN :
L203: 14.20	NA20 : 1.	BO LOI	: 2.30	AG :	CL :	HG		SN	:	
E203: 16.40	K20 : 0.0	OB CO2	1	AS :	CD :	LI		SR		
EO :	T102 . D.	74 H2O.	PI	AU :	CR :	MO	1	V.	4	
#### ORIGINAL IO2 : 52.90 L203: 14.20 E203: 16.40 E0 : 5.66	P205 : 0.	10 H20.	dree .	BA :	CU:	NI	1 ' be	- W	:	
***** NORMALIZE IO2 : 54.48 A20 : 1.85	FD DXIDES (PY	* * * * * * * RITE REMOVED	IF SULFUR. I	RON AS 20% F	FE2O3 AND B	OZ FED. DRY.	10TAL=100%)	_****	*	
ALLES GYIDES	DATES AND	**************************************	Secretary and the second	Management of the state of the						
***** OXIDES -F-M : A20-K20-S102 : 20/NA20+K20 :	- KATTUS AND	INDEXES ####	EEN/TE	TAL MED 4	2 41	ALVALIBITY D	ATTO - NA		BASTOTTY	INDEY + 21 50
777-K20-6102 -	0.27 00.0	0 20.03	FEUTIU	11ME1/100 :	Z.01	WENTER THE	- A 1 F	SOL T	DIFICATION	INDEX + 25 4
SU WASHING : *	ACREMA SHOULD IN	12 12 4 MARIE TO STATE OF	A4-550 Tell	AZU/NHZU :	.04	EFICIT T	UDEY - 23 *	. DOLL	DITOMINACH	INDEX + 42 12
20/141201220						MAFIC INDE	x :72.71			INDEX : 42.12 INDEX :36
**** NORMATIVE	E MINERALS	LISTING ***	***							
UARTZ : 13	3.15 A	CMITE :		MAGNETITE	: 4.89	HALITE	:		* WOLLAS	TO (DP):
ORUNDUM :	.32 C	A-SILICATE :		HEMATITE		- FLUORIT	E.,		* ENSTAT	II(DP):
RTHOCLASE 1	.48 N	A-MSILICATE:		ILMENITE	: 1.83	THENARD	ITE :		* FERROS	IL (DP):
LBITE : 1	5.68 K	-MSILICATE I		SPHENE	:	PYRITE	E		# ENSTAT	IT(HP): 14.51
NORTHITE : 30	0.43 W	OLLASTONITE:	Marie Carlo	PEROVSKITE		CHROMIT	E		* FERROS	IL(HP): 18.42
EUCITE :	D	IOPSIDE :		RUTILE	:	ZIRCON	:		* FORSTE	RS(OL):
**** NORMATIVE UARTZ : 17 ORUNDUM : RTHOCLASE : 1: NORTHITE : 3: EUCITE : EPHELITE : ALIOPHILITE:	H	YPERSTHENE :	32.93	FLUORAFATI	TE: .08	CALCITE	:		* FAYALI	TE(OL):
ALIOPHILITE:		LIVINE :				. ************************************	DTAL*: 99.7	79	I I be at the ter	
		The state of the s	1.254							
	AF MINEKALP -	- RATTUS AND	INDEXES ***	**	TO 15	TOTAL * 551	000000	/ 50		
***** NORMATI	1 77	2 22 2	COVCTALL TRATE	ON THREY.	34.63	TOTAL % PEL	DOUBLE ACCO	4 11		in the second
***** NORMATI	1 33.		CATSIMELIZATI	ION INDEX:	16.48	TOTAL % PLA PLAGIOCLASE	INDEX :	66	)	
***** NORMATI	1 33.	8 //.2	DIFFERENTIALI	THE THE PARTY	101.0					
**** NORMATIV R - AB - AN RTZ-ORTH-PLAG :	1 33.									
***** NORMATIV R - AB - AN RTZ-ORTH-PLAG :	1 33.						**** RITMAN	VALUE	S *****	
***** NORMATI R - AB - AN RTZ-ORTH-PLAG :	1 33.						**** RITMAN	VALUE CA	S *****	
***** NORMATI R - AB - AN RTZ-ORTH-PLAG :	1 33.						**** RITMAN : .54.48 : 13.15	VALUE CA ALK	S ***** : 0 : 2.85	AN .
##### NORMATIV R - AB - AN RTZ-ORTH-PLAG :	1 33.						**** RITMAN : .54.48 : 13.15 : 11.83	VALUE CA ALK K	S ***** : 0 : 2.85 : 02	AN
***** NORMATING - AB - AN	1 33.: 22 S * BERS ****** FF+2: 145 CA : .112	NA I	.06 P .002 MN .012 C02		S : H2O+: . H2O-: .	0 SI 0001 AL 0001 FM	**** RITMAN : .54.48 : 13.15 : 11.83	VALUE CA ALK K	S ***** : 0 : 2.85 : .02	AN :
***** NORMATION R - AB - AN INTZ-ORTH-PLAG:  RITTMAN VALUES ***** MOLE NUM!  1:	1 33.: 22 S * BERS ***** FF+2: 1A9 MG : .145 CA : .112	NA : K : TI :	.06 P .002 MN .012 C02	001 : .004 2 : 0	S : H2O+: . H2O-: .	0 SI 0001 AL 0001 FM	AUX. 1973)	*****		AN :
***** NORMATION R - AB - AN INTZ-ORTH-PLAG:  RITTMAN VALUES ***** MOLE NUM!  1:	1 33.: 22 S * BERS ***** FF+2: 1A9 MG : .145 CA : .112	NA : K : TI :	.06 P .002 MN .012 C02	001 : .004 2 : 0	S : H2O+: . H2O-: .	0 SI 0001 AL 0001 FM	AUX. 1973)	*****		AN :
***** NORMATING AND	1 33.: 22 S * BERS ****** FF+2: 1A9 MG : .145 CA : .112 D LOSSES BY CO	NA : K : TI : OMPARISON TO K20; 08	.06 P .002 MN .012 C02 THE AVERAGES MGO: 5.83		S : H2O+: . H2O-: . TIBI VOLCAN	0 SI 0001 AL 0001 FM	AUX. 1973)	*****		AN :
**** NORMATING AND	1 33.: 22 S * BERS ***** FF+2: 1A9 MG : .145 CA : .112	NA : K : TI : OMPARISON TO K20; 08	.06 P .002 MN .012 C02 THE AVERAGES MGO: 5.83	001 : .004 2 : 0	S : H2O+: . H2O-: . TIBI VOLCAN	0 SI 0001 AL 0001 FM	AUX. 1973)	*****		AN :
**** NORMATING AND	1 33.: 22 S * BERS ***** FF+2: 1A9 MG : .145 CA : .112 D LOSSES BY CONAZO: 1.85	NA I  K :  TI :  OMPARISON TO  K20: 08	.06 P .002 MN .012 C02 THE AVERAGES MGO: 5.83 5.15		S : H2O+: . H2O-: . TIBI VOLCAN	0 SI 0001 AL 0001 FM	AUX. 1973)	*****		AN :
**** NORMATING AND	1 33.: 22  S * BERS ***** FF+2: 1A9 MG : .145 CA : .112  D LOSSES BY CO NA20: 1.85 -1.53	NA : K : TI : OMPATISON TO KZO; 0832	.06 P .002 MN .012 C02 THE AVERAGES MGO: 5.83 5.15		S: H2O+: . H2O-: . TIBI VOLCAN	0 SI 0001 AL 0001 FM	AUX, 1973)	****		AN :
***** NORMATING - AB - AN	1 33.: 22  S * BERS ***** FF+2: 1A9 MG : .145 CA : .112  D LOSSES BY CO NA20: 1.85 -1.53	NA : K : TI : OMPATISON TO KZO; 0832	.06 P .002 MN .012 C02 THE AVERAGES MGO: 5.83 5.15		S: H2O+: . H2O-: . TIBI VOLCAN	0 SI 0001 AL 0001 FM	AUX, 1973)	****		AN :

**** REFERENCE I				12.3								RECORD		
THOR: LAPAUSE	YEAR	1 1987	REF	FERENCE I	LAPAUS	E						SAMPLE NO	-	COOR A
OVINCE -							NTS S	HEET :		LONG. :		LAT.	1	
	-			UTM ZO		UTM	SQ. IDENT.:		UTM EAST :		U1	TM NORTH:		
DL.AGE: 6	GEOL. PROV.		GEOL	ENVIRONM						ROCK	TYFE :	ROCK	NAME :	
NTEXT:	DEGET! HOY.			ENV ENCOM.		м	ABMATIC SEF	TEC .	SPEC	GRAVITY				
	Atla 5/3/10-4		MARKET 1 1			4 44	MULIMITE -DEF	1260	WI LIVE	CHITAIT	•			11141
CRIPTION :	1		100											
	of a second	A 1 - 0 - 1	41.18	44										
*** DRIGINAL D											-		PRA 4	
	CAD : 9			0.21	S		BI:		F :		BB:		ZN:	
03: 16.10	NA20: 3	.83	LOI :	1.30	AG	I	CL:		HG:		SN:			
03: 11-50-	K20 . 0		CO2 :		AS.	4	CO:		LI:		SR :			
	TI02 : 0	65	H20.P:	3445.4	AU	2	CR :		MO :		V :			
	P205 : 0		H20. MI		BA		CU:		NI :		W :			
. 0.25	7200 . 0		***************************************		-	1								
		* * * *	* * *	* * * *	* C A I	CUL	ATIONS		* * * * *	* * * *	* * * *			
	* * * *	* * * *	A H H		* C H L		H 1 1 U 14 3	,						
								===	new 202					
*** NURMAL IZED	DXIDES (P	TRILE REP	10VED 1	IF SULFUR	IRUN -	AS 20%	FE203 AND 1	SOX FED	- DRY LUI	AL=1002)	******			
2 : 52.81	AL2031 1	3.14	FE2031	2.3	于 FED	: 8.	28 MG(	) 1 6	. 25 C	au : 9.	15			
*** NORMALIZED 2 : 52.81 0 : 3.83	K20 :	22	TI02 1	65	P20	5 .	09 MN	1 (	. 21					
			-		The Self.				ce i				-	
*** OXIDES F														
M : 19	9.82 50	.4 29.7	78	FEC	(TOTAL)	/MGD :	1.66	ALKAL	INITY RATI	D: NA		BASICITY IN		
3-K20-SI02 :	7	1 .	93		K20/	NA20 :	. 09	ALKAL	I INDEX	:7.93	SOLIDIA	FICATION IN	DEX .:	30.11
/NA20+K20 :		2.02	0.000	3.4	1 484.5			F	ELSIC INDE	x : 31.25	H	ASHIMOTO IN	DEX :	33.64
141201120	The state of	200	200		4000				IC INDEX			MARCOTTE IN		
	41.72.44	End Street	200	3.7				LIMI	IC THUCK	. 02.00		"""COLIE III	warten A	
Man		1.00	S-19 / SEL Z	-										
*** NORMATIVE N				n #								× 1.01 + 4575	/nes	7 05
RTZ :		ACMITE				NETITE	: 3.33		HALITE	:		* WOLLASTO		
UNDUM :		CA-SILICA			10						Local distance of	* ENSTATLI		
HOCLASE : 1.9	95	MA-MSILIC	CATE	A		ENITE	: 1.23		THENARDITE			* FERROSIL		
ITE : 32.4	41	K-MSILICA	ATE :		SPH	ENE	I .		PYRITE	:		* ENSTATIT	(HP):	9.15
RTHITE : 25.	76	HOLLASTON	NITE:	12 2	PER	OVSKITE			CHROMITE			* FERROSIL * FORSTERS * FAYALITE	(HP).s.	7.42
CITE :		DIOPSIDE		15.64			:		ZIRCON	:		* FORSTERS	(OL):	1.51
HELITE :		HYPERSTHE					TE: .07		CALCITE			* FAVALITE	(DL):	1.35
					r L U	UNHEHIL	16: .07		#****: TOTA	× 00 07		n / mine4 / s	. ,	
TODIUS TEE		DLIVINE		2.86	-				******1019	L#1. 77.83			***	111111111111111111111111111111111111111
IOPHILITE:	145													
	al e	1												
IOPHILITE: *** NORMATIVE	MINERALB	RATIOS					the same of the sa							THE RESIDENCE
*** NORMATIVE	MINERALB 3.2 53	RATIOS	BCC	OLOR_INDE	X		39.64	TOTA	L % FELDSP	ARS : 0	.12			
*** NORMATIVE	MINERALB 3.2 53	RATIOS	B CC	OLOR INDE	ATION I	NDEX:	42.83	TOTA	L % PLAGIO	CLASES: 8	. 17			
*** NORMATIVE	MINERALB 3.2 53	RATIOS	B CC	OLOR_INDE	ATION I	NDEX:	42.83	TOTA	L % FELDSP L % PLAGIO IOCLASE IN	CLASES: 8	1.12 1.17 44			
*** NORMATIVE	MINERALB 3.2 53	RATIOS	B CC	OLOR INDE	ATION I	NDEX:	42.83	TOTA	L % PLAGIO	CLASES: 8	. 17			
*** NORMATIVE - AB - AN : Z-ORTH-PLAG :	MINERALS 3.2 53 0 3	RATIOS	B CC	OLOR INDE	ATION I	NDEX:	42.83	TOTA	L % PLAGIO	CLASES: 8	. 17			
*** NORMATIVE - AB - AN : - ORTH-PLAG ;	MINERALB 3.2 53 0 3	RATIOS	B CC	OLOR INDE	ATION I	NDEX:	42.83	TOTA	L % PLAGIO	CLASES: 8 DEX :	44	*****		
*** NORMATIVE - AB - AN : Z-ORTH-PLAG : ITTMAN VALUES ! *** MOLE NUMBE;	MINERALB 3.2 53 0 3	RATIOS 9 42.6 2 96.8	B CC CF D1	OLOR INDE	X ZATION I ZATION I	NDEX:	42.83 34.36	TOTA PLAG	L % PLAGIO	CLASES: 8 DEX : * RITMAN	VALUES		an .	
*** NORMATIVE - AB - AN : Z ORTH-PLAG :  ITTMAN VALUES : *** MOLE NUMBE; : 879 EI	MINERALS 3.2 53 0 3	RATIOS 9 42.6 .2 96.8	B CC	OLOR INDERYSTALLIZ	ATION I	NDEX: NDEX:	42.83 34.36	TOTA PLAG	L % PLAGIO IOCLASE IN ***** SI :	CLASES: 8 DEX : * RITMAN .52.81	VALUES	4	AN	
*** NORMATIVE - AB - AN : Z-ORTH-PLAG :  ITTMAN VALUES : *** MOLE NUMBE! :	MINERALS 3.2 53 0 3  **RS ****** G: .15	RATIOS 9 42.8 .2 96.8	B CC CF D1	OLOR INDERYSTALLIZIFFERENTI	ATION I LATION I	.001 .003	42.83 34.36 S: H20+:	TOTA PLAG 0	L % PLAGIO IOCLASE IN ***** SI : AL :	CLASES: 8 DEX : * RITMAN .52.81 .14.49	VALUES CA: ALK:	6.07	ANI	
*** NORMATIVE - AB - AN : Z ORTH-PLAG :  ITTMAN VALUES : *** MOLE NUMBE; : 879 E! : 316 MG	MINERALS 3.2 53 0 3	RATIOS 9 42.8 .2 96.8	B CC CF D1	OLOR INDERYSTALLIZ	ATION I	NDEX: NDEX:	42.83 34.36	TOTA PLAG 0	L % PLAGIO IOCLASE IN ***** SI : AL :	CLASES: 8 DEX : * RITMAN .52.81	VALUES CA: ALK:	4	ANz	
*** NORMATIVE - AB - AN : Z-ORTH-PLAG :  ITTMAN VALUES : *** MOLE NUMBE! : .879 E! : .316 MG 3: .029 C/	MINERALB 3.2 53 0 3 * * * * * * * * * * * * * * * * * * *	RATIOS 9 42.6 .2 96.8	B CC CF D1	OLOR INDERYSTALLIZIFFERENTI	ATION I CATION I	.001 .003	42.83 34.36 S: H20+: H20-:	0 0 0001	L % PLAGIO TOCLASE IN ***** SI : AL : FM :	* RITMAN .52.81 .14.49 .12.61	VALUES CA: ALK: K:	6.07		
*** NORMATIVE - AB - AN : 7-ORTH-PLAG :  ITTMAN VALUES : *** MOLE NUMBE: . 879 E! . 316 MG 3: .029 C/	MINERALB 3.2 53 0 3 ** RS ***** E+2: 11 G : .15 A : .16	- RATIOS -9 42.8 -2 96.8 5 NA 5 K 3 TI	B CC CF D1	OLOR INDERVISION INTERVISION I	AGES OF	.001 .003	42.83 34.36 S: H20+: H20-:	0 0 0001	L % PLAGIO TOCLASE IN ***** SI : AL : FM :	* RITMAN .52.81 .14.49 .12.61	VALUES CA: ALK: K:	6.07		
*** NORMATIVE - AB - AN : Z ORTH-PLAG :  ITTMAN VALUES : *** MOLE NUMBE: . 879 E! . 316 MM 3: .029 C/ *** GAINS AND	MINERALB 3.2 53 0 3 * * * * * * * * * * * * * * * * * * *	- RATIOS -9 42.8 -2 96.8 5 NA 5 K 3 TI	B CC CF D1	OLOR INDERVISION INTERVISION I	AGES OF	.001 .003	42.83 34.36 S: H20+: H20-:	0 0 0001	L % PLAGIO TOCLASE IN ***** SI : AL : FM :	* RITMAN .52.81 .14.49 .12.61	VALUES CA: ALK: K:	6.07		
*** NORMATIVE - AB - AN : Z ORTH-PLAG :  ITTMAN VALUES *** MOLE NUMBE! :	MINERALS 3.2 53 0 3 ** ** ** ** ** ** ** ** ** ** ** ** **	- RATIOS -9 42.8 -2 96.8 5 NA 5 K 3 TI	B CC	OLOR INDER RYSTALLIZ IFFERENTI 124 .007 .008 THE AVER	PATION I (ATION I MN : CO2 :	.001 .003	42.83 34.36 S: H20+: H20-:	0 0 0001	L % PLAGIO TOCLASE IN ***** SI : AL : FM :	* RITMAN .52.81 .14.49 .12.61	VALUES CA: ALK: K:	6.07		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
*** NORMATIVE - AB - AN : Z-ORTH-PLAG :  ITTMAN VALUES : *** MOLE NUMBE! : . 879	MINERALS 3.2 53 0 3  RS ****** 6: .15 A: .16  LOSSES BY 20 1 3.83	RATIOS .9 42.6 .2 96.8 5 NA 5 K 3 TI COMPARISO	B CC CF D)	OLOR INDER RYSTALLIZ IFFERENTI 124 .007 .008 THE AVER	P : MN : CO2 :	NDEX: NDEX: .001 .003 0	42.83 34.36 S: H2O+: H2O-:	0 0 0001	L % PLAGIO TOCLASE IN ***** SI : AL : FM :	* RITMAN .52.81 .14.49 .12.61	VALUES CA: ALK: K:	6.07		A Kenne
*** NORMATIVE - AB - AN : Z-ORTH-PLAG ;  ITTMAN VALUES ;  *** MOLE NUMBE; : 879 E; : 316 M( 3: .029 C)  *** GAINS AND 5 SAMPLE MA	MINERALS 3.2 53 0 3 ** ** ** ** ** ** ** ** ** ** ** ** **	RATIOS .9 42.6 .2 96.8 5 NA 5 K 3 TI COMPARISO	B CC	OLOR INDER RYSTALLIZ IFFERENTI 124 .007 .008 THE AVER	PATION I (ATION I MN : CO2 :	NDEX: NDEX: .001 .003 0	42.83 34.36 S: H20+: H20-:	0 0 0001	L % PLAGIO TOCLASE IN ***** SI : AL : FM :	* RITMAN .52.81 .14.49 .12.61	VALUES CA: ALK: K:	6.07		3. X
*** NORMATIVE - AB - AN : 7-ORTH-PLAG :  ITTMAN VALUES : *** MOLE NUMBE: . 879 E! . 316 MM 3: .029 C!  *** GAINS AND : S SAMPLE MA MAL VALUE N OR LOSS	MINERALB 3.2 53 0 3  **  **  **  **  **  **  **  **  **	- RATIOS -9 42.8 -2 96.8 5 K 3 TI COMPARISO	B CC CF D1	124 .007 .008 THE AVER	P : MN : CO2 :	NDEX: NDEX: .001 .003 0	42.83 34.36 S: H2O+: H2O-:	0 0 0001	L % PLAGIO TOCLASE IN ***** SI : AL : FM :	* RITMAN .52.81 .14.49 .12.61	VALUES CA: ALK: K:	6.07		\$ 12
*** NORMATIVE - AB - AN	MINERALS 3.2 53 0 3  **  **  **  **  **  **  **  **  **	- RATIOS -9 42.6 -2 96.8 -5 K -5 K -5 TI 	B CC CF D)	OLOR INDERYSTALLIZ IFFERENTI 124 .007 .008 THE AVER	P. : MN : CO2 : AGES OF 5.25	NDEX: NDEX: .001 .003 0 THE ABI	42.83 34.36 S: H2O+: H2O-: TIBI VOLCA	0 0 0001	L % PLAGIO TOCLASE IN ***** SI : AL : FM :	* RITMAN .52.81 .14.49 .12.61	VALUES CA: ALK: K:	6.07		A A
*** NORMATIVE - AB - AN	MINERALS 3.2 53 0 3  *********************************	RATIOS 9 42.6 2 96.8 5 NA 5 K 3 TI COMPARISO K20:	B CC CF D1	OLOR INDERYSTALLIZ IFFERENTI 124 .007 .008 THE AVER	ATION I (ATION I (ATION I MN : CO2 : AGES OF 5.25 .4	NDEX: NDEX: .001 .003 0 THE ABI PRIO	42.83 34.36 S: H2O+: H2O-: TIBI VOLCA	TOTA PLAG 0 .0001 .0001 NICS (D	L % PLAGIO TOCLASE IN ***** SI : AL : FM :	* RITMAN .52.81 .14.49 .12.61	VALUES CA: ALK: K:	6.07		
N** NORMATIVE  AB - AN  Z-ORTH-PLAG :  ITTMAN VALUES :  *** MOLE NUMBE!  :	MINERALS 3.2 53 0 3  *********************************	RATIOS 9 42.6 2 96.8 5 NA 5 K 3 TI COMPARISO K20:	B CC CF D1	OLOR INDERYSTALLIZ IFFERENTI 124 .007 .008 THE AVER	ATION I (ATION I (ATION I MN : CO2 : AGES OF 5.78 .4	NDEX: NDEX: .001 .003 .0 THE ABI PRIO	42.83 34.36 S: H2O+: H2O-: TIBI VOLCA	TOTA PLAG  O .0001 .0001 NICS (D	L % PLAGIO IOCLASE IN ***** SI : AL : FM :	* RITMAN 52.81 14.49 12.61 , 1973) *	VALUES CA: ALK: K:	6.07		3. W

CLIENT: LAPAUSE SURFACE DATA FILE: LAPAUSE 07:24:03FM 16 MAY 87

\$74.7

	THE UNIVER	DI THE PICE	JUNHII 15	NUI RESPU	JNSTBLE FUR	HNT PROBLE	DEPLY OF SIL	AKD THEFT DE	T HIGGS TRUI	M THE USE OF	THESE DA	
***** REFERE	ISF .	YEAR 1 196	87 RE	FERENCE I	LAPAUSE					SAMPLI	ORD NO.:	
ROVINCE	TOWNSH	IP -		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3	N 100	ITS SHEET :		LONG. :	1	AT. I	
	, , , , , , , , , , , , , , , , , , , ,			UTM ZC	ONE :	UTM SQ. IDE	NT.:	UTM EAST :		UTM NORTH	4 :	
EDL.AGE:	GEOL. PI	ROV.:	GEOL.	ENVIRONM	MENT :				ROCK TY	PE: R	SCK NAME	:
ONTEXT:	SECTION SECTION	STR	ATLGRAPHY		Market State Control	MAGMATIC	SERIES :	SPEC.	GRAVITY :			
ESCRIPTION I		3.45		1414								
**** ORIGIN		AND TRACE	EL EMENTS	*****			man and the same of the same o	and the state of t				
102 : 69.40		: 0.98	MNO	: 0.03	S : AG :		BI:	F :		FB:	ZN :	
L203: 16.00		6.84	501	: 1.60	AG :		L :	HG:		SN:		
E2D3: 2.52	K20	: 0.93	CO2	100000000000000000000000000000000000000	AS :		: 0:	LI:		SR:	et all territoria.	THE REPORT OF THE REAL PROPERTY.
EO : GD : 1.87	T102	0,31	H20.P	· Contraction	AU :		CR :	MO:		V z		
50 : 1.87	P205	: 0.14	H20. M		BA I	: .	CU:	NI :		W :		
	* *				* CALC	ULATIO	) NS * *	* * * * * *	* * * * *	* * *		
**** NORMAL	IZED OYINE	S /PVPITE	SEMBUED	TE SUI EUR	E TRON AS	20% EE2D3 (	ND SOY FE	דתד עמת ת	A! =100%) **	****		
102 : 70.23	AL203	: 16.19	FE203	1 7.51	FEC :	1.84	MGO :	1.89 C	AO : .99			15 161
A20 : 6.92	K20	. 94	T102	.31	P205 :	.14	MNO :	.03				1 6 7
***** OXIDES	RATIOS	AND INDE	XFS *****	*				and the second s				
F-M	: 64.96	19.42	15.62	FEC	O (TOTAL) /MG	30 : 1.22	ALKA	LINITY RATE			Y INDEX :	
Marie - National Line		1	90		K20/NA2	20 :14	HLICH	LI INDEX	:11.96 S	OLIDIFICATIO	A INDEX :	15.69
20/NA20+K20	1 .12	1.5	A	ALC: LIFE	7.04		f	FELSIC INDE	X : 88.81	HASHIMOT	INDEX :	26.35
	145	1.52	St. Sterling	Plan Villa	17		MAI	FIC INDEX	:55.42	MARCOTT	E INDEX :	-1.69
	100		作。中 医多种性	18 S.	100							1 1 1 1 1 1 1
***** NORMAT												
	20.68					TITE : .		HALITE	:		ASTO(DP):	
ORUNDUM :	7.32	CA-SII	LICATE :	PROPERTY AND ADDRESS		LTE				* ENST		
RTHOCLASE :	5.56	NA-MS	ILICATE:		ILMENI		59	THENARDITE	:	* FERR	DSIL (DP):	
LBITE :	58.57 3.99	K-WSII	LICATE :	TE STORY	SPHENE			PYRITE	:	* ENST	ATIT(HP):	4.71
NORTHITE :	3.99	WOLL AF	STONITE:	-		KITE :		CHROMITE		* FERR	OSIL(HP):	2.48
EUCITE :			IDE :		RUTILE			ZIRCON		* FORS	TERS(QL):	
EPHELITE :			STHENE :	7.2	FLUORA	APATITE: .		CALCITE	:		LITE(OL):	
ALIOPHILITE:		OLIVIA	NE :					****:TOTA	L*: 99.75			
	2.4.2.4	327		11								
***** NORMA	TIVE MINER	ALS RAT	TIOS AND	INDEXES #	****		***			-		
R - AB - AN RTZ-ORTH-PLA	1 8.2	- 86	5.9.	DEUK INDE	EX.	8.52	101	AL .X .FELDSP	ARS 1_8.1	2		
KTZ-URTH-PLA	16: 23.3	6.3 70	J.5 C	RYSTALLIZ	ZATION INDE	:X: 7.29	101	AL % PLAGIO	CLASES: 2.5			
			D	IFFERENT	IATION INDE	EX: 66.45	PLA	GIOCLASE IN	DEX :	6		
RITTMAN VAL	UES *	-1.		3 10 10 11								
**** MOLE N	UMBERS ***	***	- S. tr					****	* RITMAN VA	LUES *****		
I : 1.169		026	No :	.223	P 1 .0	002 S	10			CA : -1	AN .	
L : .318			K :			0 H2O+				ALK : 11.32		
E+3: .006	CA :	.018		.004	CO2 :		-: .0001			K : .08		
	AND LOCKE	DV POMPAI	PICON TO	TUE AUEDA	AGES OF THE	ADITIDI W	M CANTER /	DESCAPSION	10731 ###	. At . at . At	- 15-14-15-1	at a series of a de-
HARR CATHO	MAZO F C	DO LUCIPHI	ALBUN TU	MOO HVEN	HOLD UP (PK	T MOTITED AC	ALLHNIUS (	DESCHRACHUX	1 17/3/ ###	****		
ERRER SAINS	INIXU I O	A 7	1 70	TIOU !	1.07							1.4-1.
HIS SAMPLE		. 22	44			DOLOGITH		104-014-14				
HIS SAMPLE			44		. 64	PRIORITY:						
HIS SAMPLE ORMAL VALUE AIN OR LOSS	2	. 44										
HIS SAMPLE DRMAL VALUE AIN OR LOSS	2		SUCK) ***	***								
HIS SAMPLE DRMAL VALUE AIN OR LOSS	2 IAMES (IF	VOLCANIC F			TYPE L	TELD NAME .	na s		7.7.			1000
HIS SAMPLE ORMAL VALUE AIN OR LOSS ***** LITHON CDONALD-KATS	2 IAMES (IF SURA MAGMAT	VOLCANIC F	BUBALKA	LINE		FIELD NAME :			1-1-1	0105130 Je   +0		- 17
HIS SAMPLE DRMAL VALUE AIN OR LOSS	2 IAMES (IF SURA MAGMAT	VOLCANIC F	BUBALKA	LINE		FIELD NAME : ME BY SIO2 :			7.2	٧٦ ه		111

	LIENT: LAFAUSE SURFACE DATA FILE: LAPAUSE 09:24:42PM 16 MAY 87
D	ISCLAIMER: THE DWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT MAY ARISE FROM THE USE OF THESE DATA.
46	***** REFERENCE DATA ****** RECORD ND.: 31450
A	UTHOR: LAPAUSE SAMPLE NO : MANUE SAMPLE NO : MAN
P	ROVINCE: TOWNSHIP: NTS SHEET: LONG.: LAT.:
	UTM ZONE: UTM SQ.IDENT.: UTM EAST: UTM NORTH: EDL.AGE: GEDL.PROV.: GEDL.ENVIRONMENT: ROCK TYPE: RBCK NAME:
	ONTEXT: STRATIGRAPHY: MAGMATIC SERIES: SPEC. GRAVITY:
_	ESCRIPTION:
	***** ORIGINAL OXIDES AND TRACE FLEMENTS ******
	ID2: 52.50 CAO: 4.52 MNO: 0.16 5: BI; F: PB: ZN:
	L203; 14.50 NA20; 3.18 L0I; 3.00 AG; CL; HG; SN; F203; 14.00 K20; 0.14 CO2; AS; CD; LI; SR;
	FD : TID2 : 0.86 H20.Pt All: CR : MO : V :
	GD : 6.67 P205 : 0.14 H20.M: BA : CU : NI : W :
	The state of the s
	* * * * * * * * * * * * * * * * * CALCULATIONS * * * * * * * * * * * * * * * * *
ىو	NAMES NORMALIZED DATAGE (DADITE DEMOLED TE CHICLED IDDN AD DOV ECO. DOV. TOTAL COOK
	***** NORMALIZED DXIDES (PYRITE REMOVED IF SULFUR, IRDN AS 20% FE203 AND 80% EEG, DRY, TOTAL=100%) ****** 102 : 54.95
N	IO2 : 54.95 AL203: 15.18 FE203: 2.93 FE0 : 10.55 MGO : 6.98 CAD : 4.73 A20 : 3.33 K2O : .15 TIO2 : .9 P205 : .15 MNO : .17
*	***** OXIDES RATIOS AND INDEXES ******
A.	-F-M : 14.54 56.31 29.16 FEO(TOTAL)/MGO: 1.89 ALKALINITY RATIO: NA BASICITY INDEX: 19.34
	A20-K20-SIO2: 6 0 94 K20/NA20:
K	20/NA20+K2D : .04 FELSIC INDEX : 42.39 HASHIMOTO INDEX : 46.94
	MAFIC INDEX : 65.88 MARCOTTE INDEX :2
*	***** NORMATIVE MINERALS LISTING ******
	UARTY : 7.71 ACMITE : MAGNETITE : 4.24 HALITE : * WOLLASTO(DP):
	ORUNDUM : 1 29 CA-SILICATE: HEMATITE : FLUORITE : * ENSTATIT(DP):
0	RTHOCLASE : .86 NA-MSILICATE: ILMENITE : 1.7 THENARDITE : * FERROSIL (DP):
	LBITE : 28.16 K-MSILICATE : SPHENE : PYRITE : * ENSTATIT(HP): 17.38
	NORTHITE : 22.51 WOLLASTONITE: PEROVSKITE : CHROMITE : * FERROSIL (HP): 15.77
	EUCITE : DIOPSIDE : RUTILE : ZIRCON : * FORSTERS(OL): EPHELITE : HYPERSTHENE: 33.16 FLUORAPATITE: .11 CALCITE : * FAYALITE(OL):
K	ALIOPHILITE: OLIVINE : *****:TOTAL*: 99.74
*	***** NORMATIVE MINERALS RATIOS AND INDEXES ******
	R - AB - AN : 1.7 54.6 43.7 COLOR INDEX : 39.1 TOTAL % FELDSPARS : 1.53
	RTZ-ORTH-PLAG: 13 1.5 85.5 CRYSTALLIZATION INDEX: 34.69 TOTAL % PLAGIOCLASES: 0.67
	DIFFERENTIATION INDEX: 30.31 PLAGIOCLASE INDEX: 44
	RITTMAN VALUES *
	***** MOLE NUMBERS ****** RITMAN VALUES ****** I : .915   FE+2: .147   NA : .107   P : .002   S : .0   SI : 54.95   CA : -1   AN :
	I : .915 FE+2: .147 NA : .107 P : .002 S : .0 SI : 54.95 CA : -1 AN : L : .298 MG : .173 K : .003 MN : .002 H20+; .0001 AL : 13.66 ALK: 5.14
	E+3: .037 CA: .084 TI: .011 CD2: 0 H2D-: .0001 FM: 14.1 K: .02
-	
#	***** GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ******
-	HIS SAMPLE \$\\\\\ 20\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
N	AIN OR LOSS1327 1.94 PRIORITY:
N	
G G	***** I TEUDNAMER / IE UDI PANTO PORVA ******
- Ni Gr	***** LITHONAMES (IF VOLCANIC ROCK) ******
Gr Gr	CDUNALD-KATSURA MAGMATIC BERIES: SUBALKALINE TYPE & FIELD NAME :
Gr Gr	

CLIENT: LAPAUSE SURFACE DATA FILE: LAPAUSE 09:25:20PM 16 MAY 87

		TA FILE : LAPAUS		PROBLEMS OF EE	VAM TAHT PARKS	ARIGE FROM	09:15:20FM THE USE OF THESE	
***** REFERENCE DATA * NUTHOR: LAPAUSE PROVINCE : TOWNS: SEOL.AGE : GEOL.F	*****						RECORD N	0.: 31651
UTHOR: LAPAUSE	YEAR : 1987	REFERENCE IL	LAPAUSE	. 30			SAMPLE NO :	FEER STORY OF
ROVINCE : TOWNS	HP +		max	NTS SHEET	Fork and a second	LONG. I	LAT. r	
		UTM ZONE	E: UTM:	SQ.IDENT.:	UTM EAST :		UTM NORTH :	
EOL.AGE: GEOL.F	PROV. :	GEOL. ENVIRONMEN	IT :			ROCK TYPE	: ROCK NA	ME :
OMTEXT	STRATIG	RAPHY	. MA	SMATIC SERIES	4 SPEC. (	RAVITY :		
ESCRIPTION :			Y					
		14.57	V 17					
**** ORIGINAL OXIDES	AND TRACE ELE	MENTS		The section of		-1-1-1		
IO2: 69.80 CAO	: 1.58	MENTS MNO : 0.03 LOI : 0.80 CO2 :	S:	BI:	f :	F-E	3 : Z	N:
_203: 16.40 NA20	: 7.28	LOI : 0.80	AG :	CL :	HG:	12		
203: 16.40 NA20 203: 2.10 K20	: 0.58	C02 :	AS :	CO;	LI:	SF	₹ :	
ED : TIO2 GO: 1.04 P205	: 0.26	H20.P1	AU I	ER E	MO :	٠.٧	:	
30 : 1.04 P205	: 0.17	H20.M:	BA :	CU a	NI :	W		
		All Part 1982	mana Carating as Lancing Colored	and the same was to be a supplementary	Market and decrease of the section of			
* 1	* * * * * *	* * * * * * * *	CALCULA	TIONS *		* * * * *	* *	
***** NORMAL LIFT DXIDE	S (PYRITE REM	MVFD IF SULFUR.	IRON AS 20% F.	F203 AND BOX F	EO. DRY. TOTAL	=100X) ***	***	
102 : 70.45 AL 20	31 16.55	FF203: 42	FEO 1 1.5	MGO N	\$1.05 CA	1.59		
102 : 70.45 AL203 A20 : 7.35 K20	59	TI02 : 26	P205 : 1	7 MNO 4	03			
**** OXIDES RATIOS	S AND INDEXES	*****						
F-M : 72.58	17.82 9	6 FED (7	TOTAL LAMBO +	1.82 AL	CALINITY RATIO	· NA	BASICITY INDE	X : 3.27
F-M : 72.58 A20-K20-SI02 : 9	1 9	20	K20/NA20 +	00 01	CALT THINEY	.7 43 501	INTERCATION INDE	74.0 . X
2D/NA20+K20 t					EEL CIC INDEX	17.30	MACHIMOTO INDE	Y + 15 5
ZD/NAZDTKZD L SO/				4 1 7 71 74	ACTO THOSE	1 83.32	HASHIMOTO INDE MARCOTTE INDE	7 · 10.0
	AL STEEL STATE OF	The state of the state of		A CONTRACTOR OF THE SECOND	MALIC THREY	100	INFICUITE THE	A . Z. 30
***** NORMATIVE MINER						- Management		1 14 15 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
UARTZ : 20.02	ACMITE		MACNETITE	: .61	UAL TTE		* MOLLACTORD	D),
DOUBLE 1 TA	CA-CIL ICA	:	HEMAILLE		DHLITE	•	* WOLLASTO(D * ENSTATIT(D	P) .
ORUNDUM : 1.34 RTHOCLASE : 3.45	NA-MCTI TO	ATE.	TIMENITE	. 40	THEMACRITE		# FERROSII (D	P).
RTHOCLASE : 3,45 LBITE : 62.17 NORTHITE : 6.79	K-MSTI TOO	TE .	BOUENE	• • • • • • • • • • • • • • • • • • • •	OVOITE		# ENSTATIT(H	P) 2.41
UNDTHITE . A 70	WOLL ASTON	ITE.	PEROUSKITE		CHEOMITE		* FERROSII (H	P) 2 07
FICTE :	DIOPSIDE		RUTTLE		ZIRCON		* FORSTERS (O	1):
EUCITE : EPHELITE : ALIOPHILITE:	UVPEDSTUE	NE . 4 40	FLUODADATIT	E. 17	CALCITE	:	* FORSTERS(O * FAYALITE(O	L).
ALTOPULITE.	OFTUTNE	NE : 4.00	LEDOKHEHITI	E: .13	CALCITE ******TOTAL	. 00 40	* PHINEITE (O	L7 •
HLIDPHILLIE:	THE TATME					117700		
	0010 507700	AND INDENES						
AND MATTER MANES	KALS KATTUS	AND INDEXES ***	****					
**** NORMATIVE MINER		CULUR INDEX		5.78	JIAL Z FELDSPA	(5 : 2.41		
***** NORMATIVE MINER	8 85.9 9.4		TTEIN TINDEX:			DULL IN HI SE		
R - AB - AN . 4.8	7 3.7 74.6	CRYSTALL 12A1	TON THEE	0.02	JIME & FEMOLOGI	THOLD: O. 70		
R - AB - AN . 4.8	7 3.7 74.6	DIFFERENTIAL	TION INDEX:	66.96 Pi	AGIOCLASE IND	EX :	10	
**** NORMATIVE MINER R - AB - AN : 4:8 RTZ-ORTH-PLAG : 21.7	7 3.7 74.6	DIFFERENTIAL	TION INDEX:	66.96 PI	ABIOCLASE IND	EX :	10	
RITTMAN VALUES *	7 3.7 74.6	DIFFERENTIAL	TION INDEX:	66.96 PI	man in the second of			
R - AB - AN . 4.6  RTZ-ORTH-PLAG : 21.7  RITTMAN VALUES *  ***** MOLE NUMBERS ***	7 3.7 74.6	= = =			*****	RITMAN VALI	UES *****	
**** NORMATIVE MINER R - AB - AN : 4.5 RTZ-ORTH-PLAG : 21.7  RITTMAN VALUES * ***** MOLE NUMBERS *** I : 1.173 FF+2:	7 3.7 74.6		1 ,002	8 :	***** SI :	RITMAN VALI	UES ***** A : -1 .AN	
R - AB - AN : 4.5 RTZ-ORTH-PLAG : 21.7 RITTMAN VALUES * ***** MOLE NUMBERS *** I : 1.173 FF+2: L : .325 MG :	7 3.7 74.6		1 ,002	8 :	***** SI :	RITMAN VALI	UES ***** A : -1 .AN	
RITTMAN VALUES #  ***** MOLE NUMBERS #**  I : 1.173 FF+2:  L : .325 MG :	7 3.7 74.6		1 ,002	8 :	***** SI :	RITMAN VALI	UES ***** A : -1 .AN	
R - AB - AN : 4.6 RTZ-ORTH-PLAG : 21.7 RITTMAN VALUES * ***** MOLE NUMBERS *** I : 1.173 FF+2: L : .325 MG : E+3: .005 CA :	7 3.7 74.6	: .237 P : .013 MN : .003 CC		8 : (0 H2D+: .000 H2D-: .000	****** O SI : 1 AL : 1 FM :	RITMAN VALI 70.45 Ci 14.89 Al 2.12 K	UES ****** A : -1 AN LK : 11.61 : .05	
***** NORMATIVE MINER R - AB - AN : 4.6 RTZ-ORTH-PLAG : 21.7  RITTMAN VALUES * ***** MOLE NUMBERS *** I : 1.173 FF+2: L : .325 MG : E+3: .005 CA :	7 3.7 74.6  ****  .021 NA .026 K .028 TI	: .237 P : .013 MN : .003 CC		8 :	****** O SI : 1 AL : 1 FM :	RITMAN VALI 70.45 Ci 14.89 Al 2.12 K	UES ****** A : -1 AN LK : 11.61 : .05	
***** NORMATIVE MINER R - AB - AN : 4.6 RTZ-ORTH-PLAG : 21.7  RITTMAN VALUES * ***** MOLE NUMBERS *** I : 1.173 FF+2: L : .325 MG : E+3: .005 CA :	7 3.7 74.6  ****  .021 NA .026 K .028 TI	: .237 P : .013 MN : .003 CC		8 : .000 H20+: .000 H20-: .000	****** O SI : 1 AL : 1 FM :	RITMAN VALI 70.45 Ci 14.89 Al 2.12 K	UES ****** A : -1 AN LK : 11.61 : .05	
***** NORMATIVE MINER R - AB - AN : 4.6 RTZ-ORTH-PLAG : 21.7  RITTMAN VALUES * ***** MOLE NUMBERS *** I : 1.173 FF+2: L : .325 MG : E+3: .005 CA :	7 3.7 74.6  ****  .021 NA .026 K .028 TI	: .237 P : .013 MN : .003 CC		8 : .000 H20+: .000 H20-: .000	****** O SI : 1 AL : 1 FM :	RITMAN VALI 70.45 Ci 14.89 Al 2.12 K	UES ****** A : -1 AN LK : 11.61 : .05	
R - AB - AN : 4.6 RTZ-ORTH-PLAG : 21.7  RITTMAN VALUES * ***** MOLE NUMBERS *** I : 1.173 FF+2: L : .325 MG : E+3: .005 CA :  ****** GAINS AND LOSSES HIS SAMPLE MA20 i	7 3.7 74.6  **** .021 NA .026 K .028 TI  5 BY COT ARISO 7.35 K20:	: 237 P : 013 MM : 003 CC		S :	****** O SI : 1 AL : 1 FM :	RITMAN VALI 70.45 Ci 14.89 Al 2.12 K	UES ****** A : -1 AN LK : 11.61 : .05	
***** NORMATIVE MINER R - AB - AN : 4.6 RTZ-ORTH-PLAG : 21.7  RITTMAN VALUES * ***** MOLE NUMBERS *** I : 1.173	7 3.7 74.6  **** .021 NA .026 K .028 TI  5 BY COT ARISO 7.35 K20:	: .237 P : .013 MM : .003 CC		S :	****** O SI : 1 AL : 1 FM :	RITMAN VALI 70.45 Ci 14.89 Al 2.12 K	UES ****** A : -1 AN LK : 11.61 : .05	
R - AB - AN : 4.6  RTZ-ORTH-PLAG : 21.7  RITTMAN VALUES * ***** MOLE NUMBERS *** I : 1.173 FF+2: L : .325 MG : E+3: .005 CA :  ***** GAINS AND LOSSES HIS SAMPLE NA20 I ORMAL VALUE AIN OR LOSS	7 3.7 74.6  **** .021 NA .026 K .028 TI  5 BY COPPARISO 7.35 K20:	: 237 P : 013 MM : 003 CC IN TO THE AVERAGE .59 MGO : 110		S :	****** D SI : I AL : I FM :	RITMAN VALI 70.45 CI 14.89 AI 2.12 K	UES ****** A : -1 AN LK : 11.61 : .05	
R - AB - AN : 4.6  RTZ-ORTH-PLAG : 21.7  RITTMAN VALUES * ***** MOLE NUMBERS *** I : 1.173 FF+2: L : .325 MG : E+3: .005 CA :  ***** GAINS AND LOSSES HIS SAMPLE NA20 I ORMAL VALUE AIN OR LOSS	7 3.7 74.6  **** .021 NA .026 K .028 TI  5 BY COPPARISO 7.35 K20:	: 237 P : 013 MM : 003 CC IN TO THE AVERAGE .59 MGO : 110		S :	****** D SI : I AL : I FM :	RITMAN VALI 70.45 CI 14.89 AI 2.12 K	UES ****** A : -1 AN LK : 11.61 : .05	
RITTMAN VALUES * ***** MOLE NUMBERS ***  RITTMAN VALUES * ***** MOLE NUMBERS ***  I : 1.173 FF+2: L : .325 MG : E+3: .005 CA :  ***** GAINS AND LOSSES HIS SAMPLE NA20 I ORMAL VALUE AIN OR LOSS	7 3.7 74.6  **** .021 NA .026 K .028 TI  5 BY COPPARISO 7.35 K20:	: 237 P : 013 MM : 003 CC IN TO THE AVERAGE .59 MGO : 110		S :	****** D SI : I AL : I FM :	RITMAN VALI 70.45 CI 14.89 AI 2.12 K	UES ****** A : -1 AN LK : 11.61 : .05	

- (

JENT : LAFAUSE SURFACE		ILF : LAFAUSE NOT RESPONSI	BLE FUR ANY	PROBLEMS	OR ERRORS T	HAT MAY	AR1SE FROM T	09:25:58PM HE USE OF T		AV 87 A.
**** REFERENCE DATA ** ITHOR: LAPAUSE TOWNSHI	EAR : 1987 R	EFERENCE : LAF	PAUSE	NTS	SHEET :		LONG. :	SAMPLE	RD NO.: 3	
OL.AGE: GEOL.PR		UTM ZONE : ENVIRONMENT	: UTM	SQ. IDENT.	: UTM	EAST:	ROCK TYPE	UTM NORTH		
SCRIPTION :			.ra	BMAIIC SE	RIES :	SPEC. G	KHVIII :			
		0.17	S :	BI:		Γ :	PB		ZN :	
		: 7.30	AG:	CL :		HG :	SN		214 -	
203: 13.30 K20 :	_0.40 CO2		AS :			LI:	SR	-		
T102	0.84 H20.	P:	AU :	CR :		MO :	Ÿ			
5.22 P205	0.11 H20.	Mit	BA :	CU :		NI :	. W	:		
**** NORMALIZED DXIDES	* * * * * * * * * * * * * * * * * * *	IF SULFUR. IF	RON_AS 20% F	C203_AND_	80% FED. DR	Y. TOTAL	=100%)_****	*		
02 : 53.97 AL2031 20 : 3.03 K20 1	43 TI02		P205 : .1		0 : .18	CAG	1, 8.07			
**** OXIDES RATIOS		**								
-M : 15.43	59.28 25.29	FEO(TO	TAL)/MGO:		ALKALINIT			BASICITY		
20-K20-SI02 : 5 0/NA20+K20 : 12	1 94		K20/NA20 :	.14			:12.43 SOLI : 30.01	HASHIMOTO		
7/10-12U+K2U 1	TAX T				MAFIC I	NDEX	: 70.09	MARCOTTE		
**** NORMATIVE MINERAL	S I ISTING ***	***								
RTZ : 5.44	ACMITE :		MAGNETITE	: 4.18	HALI	TE	:	* WOLLAS	TO (DE):	6.26
RUNDUM	CA-SILICATE :		HEMATITE			RITE	•	* ENSTAT		
HOCLASE : 2.56			ILMENITE	: 1.73	THEN	ARDITE		* FERROS	IL(DF):	3.24
3ITE : 25.63	K-MSILICATE :		SPHENE	£	PYRI		1	* ENSTAT		
ORTHITE : 24.22	WOLLASTONITE:		PEROVSKITE			MITE		* FERROS		12.3
JCITE : PHELITE :	DIOPSIDE : HYPERSTHENE :	12.46	RUTILE FLUORAPATIT	F. 05	ZIRC		:	* FORSTE * FAYALI		
IOPHILITE:	BLIVINE :		FLUURAPATIT		CALC		i 9977	* FAYALI	IE (UL):	
**** NORMATIVE MINERA	ALS RATIOS AND	INDEXES ***	**							The same of the sa
- AB - AN : 4.9 TZ-DRTH-PLAG : 9.4	4.4 86.2	CRYSTALLIZATI DIFFERENTIATI	ON INDEX: 3	8.38	TOTAL %	PLAGIOCL	S : 2.41 ASES: 9.85 X : 49	7		
RITTMAN VALUES *	200									4 9 7
*** MOLE NUMBERS	144					*****	RITMAN VALUE	S *****		
. 898 FF+2:		.098 P		S	0		3.97 CA	-	AN :	
: .281 MG :	.141 K :		: .003	H20+:		AL : 1		: 4.97		
3: .036 CA :	.144 TI:	.011 002		H20-:		FM : 1		: .08		
CATAIN AND STATE	BY COMPARISON TO	MGO 1 5.67		IBI VOLCA	NICS (DESCA	RREAUX,	1973) *****	•		
IS SAMPLE NAZO		5.34				-				
IS SAMPLE NAZO 1 3.				T TV .						
IS SAMPLE NAZO 1 3.	.31 .38 .05	.27	PRIOR	714 2						
IS SAMPLE NAZO RMAL VALUE IN OR LOSS **** LITHONAMES (JE )	.05 (OLCANIC ROCK) **	.27	PRIOR		over the parties of the second			and the second	111120110	C. Des Commissioner
IS SAMPLE NAZO RMAL VALUE IN OR LOSS RHERK LITHONAMES (JE ) DONALD-KATSURA MASHATI	.05 /OLCANIC ROCK) ** IC SERIES: SUBALK	.27	YPE & FIELD	NAME :	Company of the Compan		e tree ( ne ) in	er troof which	111 20 19	e (e commençación
IS SAMPLE NAZO  RMAL VALUE  IN OR LOSS -,  RHHH LITHONAMES (IF \  DONALD-KATSURA MAGMATI  ZINE-BARAGAR MAGMATIC	.05 /OLCANIC ROCK) ** IC SERIES: SUBALK	ALINE T		NAME : BA			u ( u ) ( u ) ( u )		C + 1 - 4 at + 30	C. C. Carriera - Con

CLIENT: LAPAUSE SURFACE DATA FILE: LAFAUSE. 09:16:32PM 16 MAY 87

***** REFERENCI AUTHOR: LAPAUSE PROVINCE:	DATA *** YE TOWNSHIF	AR : 198	7 REF	ERENCE	: LAFAUSE		- NTS	SHEET :		LONG		REI SAMPLI	CORD NO.: E NO : ME LAT. :	316
AUTHOR: LAPAUSE PROVINCE : GEOL.AGC : CONTEXT :	GEGL. PRO	IV. :	GEOL.	UTM Z	ONE : MENT :	UTM SQ.	IDENT.	t L	JTM EAST	; RD	CK TYPE	UTM NORTH	H : JCK NAME	:
DESCRIPTION :	4-51.3													
****** ORISINAL SIO2 : 53.00	CAO :	7 BO	MNO	0-23	Sı	المنافعة المنافعة	BI:	000 0000	F	1	FB		ZN :	
AL203: 13.70	NA20 :	1.71	LOI :	1.60	AG :		CL :		HG	1	SN			
FE203: 16.20	K20 :	0.10	CO2:		AS 1	a company on the person of	C01		and the LI	I	SR			
FEU :	P205 :	0-16	H20.P1	13	AU :		CU :	ý.	NI	1	ŭ	1		
****** ORISINAL SIO2 : 53.00 AL203: 13.70 FE203: 16.20 FE0 : MGO : 4.78	* * 1	* * * *	* * * *	* * * *	* CALC	ULAT	ION	S * * *	* * * *	* * * *	* * *	* *		
****** NORMALIZ SI02 : 54.38	AL 2031	14.06	FE203	3.32	FEO :	11.97	MG	0 1 4	4.9	CAD	%)#**# 8	<b>**</b>		
NA20 : 1.75	-(C20 1		1102 F	1.12	P205 :	. 16	MN	0 :	.24					
****** OXIDES - A-F-M : NA20-K20-SIO2 : K20/NA20+K20 :	- RATIOS F	ND INDEX	ES *****	b										
A-F-M :	8.39	39.37 2	2.23	FE	O (TOTAL) /ME	0: 3.	. 05	ALKAL!	INITY RA	TIO : NA	1 80	BASICIT	Y INDEX :	21
K20/NA20+K20	105	U.	47		KZU/NA2	.U. I	.υΔ	ALKAL I	ELSIC IN	DEX : 18	3.78	HASHIMOT	D INDEX :	33
A-F-M: NA20-K20-SI02: K20/NA20+K20: ******* NORMATIV GUARTZ: 1: CORLINDUM: CORLINDUM: CORTINITE: ALBITE: ANORTHITE: KALIOPHILITE: ******* NORMATI			527				1. 1. 1	MAFI	IC INDEX	:75.	73	MARCUTT	E INDEX :	_
THE PARTY NORMATTI	E MINERAL C	6	710											
DUARTZ : 1	i Hinekale 3.49	ACMITE	ING SESSE	I TR	MAGNET	ITE :	4.81		HALITE			* WOLL	ASTO(DP):	3
CORUNDUM		CA-SIL	ICATE :		HEMAIJ	TE .		·	FLUORITE			# ENST	ATIT(DP):	1
ORTHOCLASE	.6	NA-MSI	LICATE	Cha P	ILMENI	TE 1	2.12		THENARDI	TE :		# FERR	OSIL (DP):	
ALBITE 1	0.17	K-MSIL	TONITE:		SPHENE	KITE .		F	CHROMITE			* ENST	AIII(HP): OSIL(HP):	15
LEUCITE :		DIOPSI	DE :	7.08	RUTILE		1	7	ZIRCON	I		* FORS	TERS (OL)	
NEPHELITE :		HYPERS	THENE : 2	26.48	FLUORE	PATITE:	.12	C	CALCITE			* FAYA	LITE(OL):	
KALIOPHILITE:		DLIVIN	E :	A	*******************				***** TO	TAL*: . 99	7.71			
***** NORMATI	VE MINERAL	B RAT	IOS AND 1	INDEXES	*****									
OR - AB - AN	1.3	32.5 A	6-1 C	LOR IND	EX	: 40.	49	TOTAL	X FELD	SPARS	: 5.61			-
QRTZ-ORTH-PLAG	22.8	1 76	.2 CF	RYSTALLI	ZATION INDE	X: 40.	32	TOTAL	_ % PLAG	IOCLASES	5.01			
OR - AB - AN  QRTZ-ORTH-PLAG			DI	IFFERENT	IATION INDE	.x: 15	. 44	PLAG	IUCLASE	INDEX	: 6			
* RITTMAN VALUE	5 • 19	11 16	194				· · · · · · · · · · · · · · · · · · ·							
***** MOLE NUM	BERS ****	F#	6 1						***	*** RITH	IAN VALU	ES *****		
****** MOLE NUM SI : .905	FE+2:	167	NA :	.056	P	102	1 1	0	SI	.1.54.38	CA	1 2	AN :	-
FE+3: .042	CA :	143	TI:	.014	MN : .0	0	120+: H20-:	.0001	FM	1 9.94	, AL	1 .03		
							100 N 100 N 100 N							
***** BAINS AN	NA20 1 1.7	k201	39	MGO :	4.9 5.19		4. 3.	NICS (DE	ESCARREA	UX, 1973	5) ****	*		
NORMAL VALUE	-1 /	52	29		34	PRIORITY	Y :							
THIS SAMPLE NORMAL VALUE GAIN OR LOSS														
GAIN OR LOSS		L CANIC R	OCK) HEH	TME	TVPC 1 5	TELD NA	WE .	Over White State			*			
THIS SAMPLE NORMAL VALUE GAIN OR LOSS ****** LITHONAM MCDONALD-KATSUR IRVINE-BARAGAR I		CANIC R	SUBALKAL	INE	TYPE & F	TELD NA	ME I	DESITE						

**** REFERE	NCE DATA	VEAR I	1987	REE	ERENCE	r LAP	AUSE								SAN	RECORD	NO.:	31654
OVINCE :	TOWNS	IIP .	11208				AUSE L		NTS	SHEET			LONG. I			LAT.	-	Name of the last
					UTM 2	ZONE :	ı	ITM SQ.	IDENT.	1	UTM EAS	ST:			UTM NO	DRTH :		
OL.AGE :				EUL.	FINATIKOL	ALIFIAI	1						RULK	IALF	:	ROCK	NAME :	
NTEXT :		s	TRATIGR					MAGMA'	TIC SE	RIES :	SI	PEC. (	GRAVITY	2				
SCRIPTION :		18 M.	1.23	121	进				5									
**** ORIGIN	AL DYTREO	AND TOA	CE LEVERS	THE P					115									
02 + 69 60	CAU	2.84	M	VO .	0.03		s .		RI .		F			PB			ZN :	
203: 16.00	NA20	: 5.16	Ü	I IO	1.60		AG :		CL :		н	G :		SN				
02 : 69.60 203: 16.00 203: 2.07	K20	: 1.72	С	02 :			AS :		CO :		L	I : .		SR	:			
0 : 1.00	T102	. 0.27	H	20.P:			AU :		CR :		M	3 0		V				
D : 1.00	P205	: 0.10	H	20. M:	1. 4.		BA :		CU :		N	I &		₩	£			
	* 1	* * * *	* * * *	* *	* * * 1	* * C	ALCU	LAT	ION	S * *	* * * *	* * •	* * * *	* * *	+ +			
AAAA NOOMAI	TIED OVER	e (pyp)	TE PENO	ED .	E C!!! E!	ID TO	DN 40 00	14 ECOO.	T AND	90% 55	ח דיייי	TOTAL	-100%	****	4.86			
02 1 70.57	A 201	44 22	METER NAME OF	EDUX.	F 5ULF	ur, IR	UN AS 20	1.51	O HMD	BUL IE	1 DI	LUIA		22211	T.	A CONTRACTOR		
20 1 5-23	k20	10.22		102 .	97		P205 :	1.01	MA	in .	.03	LH	U	. 00				
20   5.23			34.23333	02 1	Q-15		P205 1	• 1	Lin	. I	. 00		1.0					
**** OXIDES	RATIO	AND IN	DEXES #	****						an amount markets and take a	- Pierra I							
**** OXIDES F-M 20-K20-SIO	1 70.33	19.48	10.19		F	EO (TOT	AL)/MGO	1 1.5	87	ALKA	LINITY I	RATIO	: NA		BASI	CITY IN	NDEX :	3.88
20-K20-S102	7		91		-	K	20/NA20		33	ALKA	LI INDE	Χ	124.96	SOLI	DIFICA	TION IN	NDEX :	10.24
D/NA20+K20	1 .25	( )	1.30	435	12				1 34	V 1011	FFISTC	INDEX	: 70.7/	4	HASHI	MOTO IN	ADEX :	25.32
1 1 1 1			- Time	1370	145				- 3 3	MA	FIC IND	EX	: 65. 65		MARCO	DTTE IN	NDEX :	-1.47
			17-1455 C	35 B 8							cole ame i							
**** NORMAT	IVE MINER	ALS L	ISTING	****	*													
AKTZ :	25.14	ACM	ITE	- 1			MAGNETIT	IE :	.6		HALITE		*		* W(	ULLASTO	(DP):	
THOS ARE	MAZ + MI	EA-	MOTI TON	TE.	44		HEMAILIE		E1		THENON	DITE	:		# E	EBBUG1:	(DP):	
BITE	44 27		HOLLICAT	F .	19 . 4.		SPHENE				PYRITE	0115	4		# F1	NSTATIT	F(HP)	2.52
ORTHITE	13.62	MOI	LASTONT	TE	100		PEROVSKI	ITE :			CHROMI	TE			* F	ERROSIL	(HP):	2.03
ARTIC STRUNDUM STHOCLASE BITE CORTHITE SUCITE SUCITE ALIGNMENT		DIC	PSIDE	:		-	RUTILE	:			ZIRCON	_	:		* F	DRSTERS	(OL):	
PHELITE :		HYP	ERSTHEN	E :	4.55		FLUORAPA	ATITE:	.08		CALCIT	E	:		* F	AYALITE	E(OL):	
LIOPHILITE		OLI	VINE								*****	TOTAL	*: 99.B			4.11		
				410														
**** NORM	TIVE MINE	RALS	RATIOS	AND I	NDEXES	****	*											
- AB - AN	15.	64.9	20		LOR IN	DEX		5.6	6	TOT	AL % FE	LDSPA	RS E	3.19		110-110-1		
TZ-ORTH-PLA	6: 26.	7 11	62	CR	YSTALL	IZATIO	N INDEX	15.3	9	TOT	AL % PL	AGIOC	LASES: 7	7.89				
				DI	FFEREN.	ITATIO	IN INDEX	: 55	. 5	PLA	BIUCLAS	E IND	EX 1	24	4			
RITTHAN VAL	HES A	45,400		1														
				1							4	****	RITMAN	VALUE	S ****	**		
1 1.175	FF+21	.021	NA.		169	P		1		0	S	I .	70.57	CA		-1	AN ±	
: .318	MG :	.025	K	ξ -	037	MN	: (	о н	20+:	.0001	A	L	14.59	ALI	( : 9.	58		
: .31B	CA :	.051	TI		002	C02	: (	о н	20-:	.0001	F	M s	2.04	K	: .	18		
									-							17		
**** BAINS	AND LOSSES	BY COM	PARISON	TO T	HE AVE	PARES	OF THE 14	TRITTER	Unica	MITCE I	DECCAPO							
IIS SAMPLE	WA20 1	5.23	20: 1.	74	MGO I	1.01		- 1		1 1 9			PAN 15					
RHAL VALUE	3.45.83.55	4.7	MENT 1	41	Janes Land	1.02									-			
IN OR LOSS		. 53		33		18	PF	RIORITY	2									
**** LITHON	IAMES (IF	VOL CANT	C ROCK)	***	**					7.3		-						
DOMEST OF TAXABLE	u seo ∵storeno`	IC BERI	ES: SUB	ALKAL	INE	TY	PE & FIE	ELD NAM	E	1 10	+ H-							
DONALD-KATE		and problem in the law	147	- C														
DONALD-KATE	R MAGMATIC	SERIES	1	4		RO	CK NAME	BY 510	2 1 RI	NOLITE					44	179		

CLIENT: LAPAUSE SURFACE DATA FILE: LAPAUSE 09:27:52FM 16 MAY 87

**** REFERENC	E DATA *	****	. V. 3.								RECORD	NO. I	31655
THORE LAPAUSE		/EAR : 198	7	FERENCE	LAPAUSE	NTS UTM SQ.IDENT.	eileez.				SAMPLE NO	888	SECONO.
OVINCE :	TOWNSH	P.		AITM T		NIS	SHEET 1	TH FACT	LONG. 1		LAI.	8	
OL.AGE :	ocor or	5011	0501	Chillipphii	UNE :	UIM SU. IDENI.	: 0	IM EAST 1	DOCK Y	VDT .	ROCK 1	NAME .	
NTEXT .	GEUL. PI	CTPA	TICOADU	ENATION	JENI I	MAGMATIC SE	DIEC .	SPEC I	SPAULTY :	11	ROCK	45.41.10** 9	
COLDTION	Sept. 45.12	3111	To Division	Service Street		- IMDINITE SE	RIEG I	DI EU.	317010 7 1 1 1				-
77			4	<b>E</b>	Sales of	MAGMATIC SE		100					
ORIGINAL	DXIDES	AND TRACE	ELEMENTS						- [100]	DD .		ZN :	
U2 : 67.80	LAU	1.75	HNU	1 70	8 :	BI :		r:		CN .		714 2	
203: 13.70	NAZU I	0.03	C03	: 1.30	MG :	CC :		11.		SP .			
0 .	7102	0.72	า มวก เ		All a	CB .		MO	-44 -4 -1	U .			
0 : 1.81	P205	0.11	H20.1	14.	BA :	BI : CL : CC : CR : CU :		NI :		W :			
**** NORMALIZ	ED OXIDE	S (PYRITE	REMOVED	1 - 65 1 - 65 1 - 53	R, IRON AS 2 FEO : P205 :	0% FE203 AND 2.35 MG	80% FED.	DRY. TOTAL	L=100%) #	****		/ 1	
**** OXIDES -	- RATIOS	AND INDEX	ES ****	**				-	10.0100 -000 100				
F-M s	58.92	25.36 1	5.72	FE	O(TOTAL)/MGD	1.58	ALKALI	NITY RATIO	: NA		BASICITY IN	DEX :	4.93
20-K20-S102 1	8	1	91		K20/NA20	: .12	ALKALI	INDEX	:10.9	SOLID	IFICATION IN	DEX :	15.81
0/NA20+K20	11	1000	· 多 · 5 · 1 · 1 · 1	物語中心			FE	LSIC INDEX	1 77.7	+	HASHIMOTO IN	DEX :	24.19
0/NA20+K20 i			1				MAFI	C INDEX	161.73		HASHIMOTO IN MARCOTTE IN	DEX :	-1.64
**** NORMATIV	E MINERA	S LIST	ING ***	***		TE : .94 E : .62	100 100 100		CONTRACTOR STATE				
ARTZ 1 2	2.32	ACMITE			MAGNETI	TE : .94	H	ALITE	1		* WOLLASTO * ENSTATIT	(DP):	
RUNDUM :	1.7	CA-SIL	ICATE :		HEMATIT	E		LUORITE	1		* ENSTATIT	(DP):	
THOCLASE	4.48	I SM-AN	LICATE	4.77	ILMENIT	E : .62	TI	HENARDITE "	1		* FERROSIL	(DP):	
BITE	12.54	K-MSIL	ICATE .	Mild - Jan	SPHENE	:	P'	YRITE HROMITE	8		* ENSTATIT	(HP):	4.62
ORTHITE AND	9.19	NOLLAS	TONITE	A 100 100 100 100 100 100 100 100 100 10	PEROVSK	ITE :	CI	HROMITE	. <b>1</b>		* FERROSIL	(HP):	3.29
		DIOPSI	DE :		RUTILE	ATITE: .08	Z	IRCON	:		* FORSTERS	(OL):	
PHELITE :		HYPERS	THENE :	7.91	FLUORAF	ATITE: .08	C	ALCITE	1		* FAYALITE	(DL):	
LIOPHILITE:	110 8 10 200	OLIVIN	E :	71.74			#.	****: TOTAL	*: 99.78		* FERROSIL * FORSTERS * FAYALITE		
**** NORMATI			700 410	TAIREVER									
THE NUMBER	VE MINER	TO A	TUS AND	INDEXES	*****	. 0.47	TOTAL	" EEL DEBA	DC . 4	71			
T7 ODTU- DI AC	. 25.2	F 1 (D	7 (	COVETALL I	ZATION INDEX	10.47	TOTAL	% FELDSTH	ACCC. 1	77			
12-DRTH-PLAG	1 25.2	5.1 69	./	DIFFERENT	IATION INDEX	: .9.47 : 12.43 : 58.72	PLAGI	OCLASE IND	EX :	15			
RITTHAN VALUE			5 -8°00°						AND LAND BOOK OF				
**** MOLE NUM			S. 44. 3.	A				*****	RITMAN V	ALUES	*****		
		2033	NA .	2 39	P 1 .00	02 S :	0	SI :	69.58	CA	: -1	AN :	mark to the same
: 1.15B		.046	K t	.016	MN I	0 H2O+:	.0001	AL :	14.49	ALK	: 10.07		
: .316		. 036	TI :	.004	CO2 :	0 H20+: 0 H20-:	.0001	FM :	3.75	K	. 07		
: .316	CA 1		TOON TO	THE AVER	AGES OF THE	ABITIBI VOLCA	NICS (DE	SCARREAUX,	1973) #1	****		-	
: .316 +3: .008	D-1 D99F9	COMPAR 21 K201	.76	MGO :	1.17								
: .316 +3: .008 **** GAINS AND SAMPLE SAMPLE	D 1100000 MAZO 1 6	Z1 K201	.76 1-33 57	MG0 :	1.17 .51 P	RIDRITY:			10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-				
: .316 +3: .008 **** GAINS AND IS SAMPLE RMAL VALUE IN OR LOSS	n) i venes veloci	.51 K201	.76 1-33 57		.51 P	PRIDRITY:			12mm an a <b>à</b> 131m				
: .316 +3: .008  **** GAINS AN IIS SAMPLE IN OR LOSS  **** LITHONAL	D DOGER	.51 VOLCANIC R	.76 1_33 57	tata Ol the	.51 P	PRIORITY:		Terr					
: .316 +3: .008  **** GAINS AN IIS SAMPLE IN OR LOSS  **** LITHONAL	D DOGER	.51 VOLCANIC R	.76 1_33 57	tata Ol the	.51 P	PRIORITY: ELD NAME: BY SIO2: RH	YODACITE	1	ener eranen e		NY n		

	: LAPAL								BLE FOR	ANY P	ROBLEMS	OR ERF	RORS TH	HAT MA	Y ARISE	FROM			M 16 THESE D		87
NUTHOR	REFEREN	3E		YEAR :	1987	F	REFEREN	CE : LAI	PAUSE		NTS	SHEET			FUNG			RE( SAMPLI	CORD NO.	: 316	56
MUATU	16E 3		Limbor	45-4		iolonn	UT	M ZONE		UTM S	Q. IDEN	. i	UTM E	EAST :	CURD.		n,	TM NORTI	1 :		
	GE :	6	EOL.P	ROV. :		UEUL	- ENVI	LANGE IN I	i						L/O/	-P 1111	E :	Fit	OCK NAME	1	
	T.:	1.40.0		10.75 A.J.	STRAT	IGRAPI	IY :			MAG	MATIC, S	BERIES :		SPEC.	BRAVI	EX 4					
EPCKI	PTION :			10.0			2. 200														
****	ORIGIN	N UX	IDES	AND TH	ACE E	EMEN	8 ***	**							11111						9 1 11 11 1
	49.30			: 5.8	16	MNO	: 0.	20 80	S :		BI	:		F		P	В :		ZN	1	
	14.60			: 3.0	3	LOI	: 5.	80	AG :		CL	:		HG I		81	N I				
E203:	14.20	11.30	X102	- 0.1	<b>3 3 2 2 2</b>	H20	<b>b.</b>		AU :		LD	1		MD .		V	N. 3				1111
60 :	5.50		P205	0.1	71,	H20.	P		BA:		CU	i		NI i							
			* *	* * *	* *	* * *	* * *	* * * C	ALCI	JLA	TIOI	15 * *	* * *	* * *	* * *	* * *	* *				
102 :	53.06	IZED.	OXIDE AL203	5 (PYE	ITE B	FE20	JF SU	LEUR, II	RON AS :	20% FE 11	203 ANI	80% FI	5.92	, TOT	AL=100	6.31	***	- Linguis	-21.74 V	F.54	i ide
A20 :	\$3.06 3.26		K20	1 > 41	9	110:	2 1		P205 :	. 18	)	1NO :	. 22					37.50			1
****	DYIDES	F	POTTOS	AND T	NDEYE	5 4444	***														
420-K	20-SI02					94			K20/NA2	0:	.06	ALK	ALI INI	DEX	:5.5	1SO	LIDI	FICATIO	N INDEX	: 25.	61
20/NA	20-S102 20+K20		.06				11					Mi	FELSIC AFIC IN	NDEX	X : 35	. 35 36	H	MARCOTT	INDEX INDEX	: 38.	97
****	NORMAT	IVE N	INERA	LS	LISTI	NG ##1									in the end of the state of	بحجائش مثيتب	-				
UARTZ	:	4.6	4	AC	MITE				MAGNET	ITE	: 4.43	2	HALIT	TE				* WOLL	ASTO (DP)	1.	01
ORUND	LASE	- N	1348	a same	-SILI	CATE	T AGENTS	11.5.00	HEMATI	IE	1 2 0		FLUOR	RITE	्राज्य दक्षणा	177	-	# ENST	ASTO(DP) ATIT(DP) DSIL(DP)	!. <del>!</del>	57
LBITE	LHSE	27.5	9		MEILI	CATE		419	SPHENE	12	1 2.00	•	PYRIT	TE TE	100				ATIT (HP		
NORTH	UTE .	27.4	6	11	LIAST	ONITE	4 (4.5)	1	PEROVS	KITE	1		CHRON	ITE.		-		# FERR	OSIL (HP.	1.15.	7.4
EUCIT	-			DI	OPSID	E 1	2.01		RUTILE		1		ZIRCO	DN	1			* FORS	TERS (OL	2	
AL THE	HIL TTE			OI.	TUTNE		,		FLUORA	PATITE	. 14	ŀ	CALC	ITE *• TOTA	:	48		* FAYA	TERS(OL	:	
	NORMAT	1403	86	44111		1 1	100			THE COMMENTS OF STREET					Han P. B. in State					a spendage control of the	
R - A	B - AN		2	48.5	19	.1	COLOR	INDEX	<b>*</b> *	ı 38	. 51	TO	TAL % F	FELDSF	ARS	6.39					
RTZ-O	RTH-PLAC	3 :	7.6	1.9	90.	5	CRYSTA	LLIZATI	ON INDE	X: 38 X: 2	. 67 8. 73	TO:	TAL % F	PLAGIC ASE IN	ICLASES	5.25	50				
RITT	MAN VALI	JES #	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	es de		r tox	3460									3					
****	MOLE NI	IMBER	S ***	***	E Part	1.爱意	5 4							****	* RITM	AN VAL	UES	*****			
	. 883							Р		03	_S:	0		SI :			A	0	AN_		
	.308			.147		1 1		MN	: .0	0.3	H20+:	.0001		AL I	14.13			5.08			
	.030	UF	, ,	.113			.014	402			720-1	.0001		en s	11.77			.03			
**** HIS S	GAINS ( SAMPLE VALUE	NAZ	056E8	BY CC 26	MPARI K201	SON TO	THE A	VERAGES	OF THE	ABITI	BI VOL	CANICS	DESCAF	RREAUX	. 1973	) ****	**				
URMAL	R LOSS	175.07	A PARTIES	.07		15		5.69		DDIADY	TV -		-			-					
										LKIUKI	111										
****	LITHON	IDA N	MEMAT	VAL CAN	TC_RO	CK) H	OL THE	275.	VPE I. E	TELD N	OME .		7777		13/4	market and a second	-				-
CDCNA					A ST PERSON	rred April 1881 B	WHAT I THEN	N	TEE & P	ACLU N	PAPE I				Late Control						
CDONA RVINE	LD-KATSI -BARASA	HAS	MATIC					R	DCK NAM	E BY S	102 1	BASALT	: 9		48	6		¥7m			

1 2.85

DISCLAIMER :	WSE SURFACE		DATA FILI									MAY 87
	THE OWNER OF	F THE PROG	RAM IS N	OT RESPON	MSIBLE FOR	ANY PROBLET	15 OR ER	RORS THAT MAY	ARISE FR	OM THE USE	OF THESE DA	TA.
***** REFERE	NCE DATA ##	****									RECORD NO. :	31657
AUTHOR: LAPAU			PEF	EDCNCE.	LABALIBE		MARCHA 108 A		- 1-	CA	MPLE NO :	
PROVINCE :	TOWNSHIP			FIVENCE 1	CHICHODE	N.F	TO OUCET		LONG. :	9A	LAT. :	STATE OF THE PARTY.
PRUVINCE I	IOMMOUTI	P	<b>全等</b>	AITM TON	agen .					DITM. M		
	0501 001		ALC: N	UTM ZON		UTM SQ. IDE	Minku	UTM EAST :	-1911		ORTH :	
GEOL.AGE :	GEOL. PRO			ENVIRONME	INT :					PE :	ROCK NAME	1
CONTEXT :		STRAT	IGRAPHY	1		MAGMATIC	SERIES	: SFEC.	GRAVITY :			
DESCRIPTION :			***************************************				F3117774884. 4 \		444			
						:						
##### ORIGIN						1.						
SI02 : 68.60							L	F I.	stance and com-	PB I	ZN :	
AL203: 16.80	NA20 :			0.70	AG :		L :	HG :		SN :		
FE203: 2.35	K20 :		CO2 :		AS :		0 :	LI:		SR #		
FEO :	TI02:	0.28	H20.P:		AU :	Ç	R.	MO :		V 1		
MGO : 1.26	P205 1	0.11	1420.M:	6.334	BA :		U :	NI :		WI		
1000		Cart A. A.										
7.4	1 TO		* * * *	* * * * 1	CALCI	JLATIO	N S * *	* * * * * * * * * * * * * * * * * * * *	* * * * *	* * *		
						ALL PROPERTY OF THE PARTY OF TH						
***** NORMAL	IZED DXIDES	(PYRITE F	EMOVED I	F SULFUR.	. IRON AS 2	20% FE203 A	ND BOX FI	EO. DRY. TOTA	L=100%) *-	****		
SID2 : 69.14 NA20 : 6.68	K20 30/	2 1 1 m	**T102 **	29	P205 .	. 11	MNO .	0.3		Process and the second		
1.18												10-1-
***** OXIDES	RATIOS	AND INDEXE	N		A-41							
A-F-M		20.06 11			(TOTAL) /MGC	1.68	AI V	ALINITY RATIO	. NO	PART	CITY INDEX :	A 1A
NA20-K20-SI02		1	90	FEU	K20/NA20	): .11	ALK	ALI INDEX			TION INDEX	
K20/NA20+K20			70		KZU/ NHZU	,	HLN					
NZU/ NHZUTNZU		Samuel Charles	1.65 P. 115					FELSIC INDEX				
	1000000	· 司籍、公司 · 著5	Carl III		MIT STORY		me	AFIC INDEX	163.19	MARC	OTTE INDEX	72.16
		15 15 15 15 15	<b>3</b> 图 图 图 图 图	A.A.H.	STATE OF STATE OF							
***** NORMAT	IVE MINERAL!	B LISTI	NG ****	· 医中心 \$1500 g	250 2 (27.7)					4.		
	19.15	ACMITE			MAGNETI	TE :	68	HALITE	1	* W	OLLASTO (DP) :	
CORUNDUM :	.6	CA-SILI	CATE :		HEMATIT	TE :		FLUORITE		* E	NSTATIT (DP):	
ORTHOCLASE :	4.34	NA-MSIL	ICATE:		ILMENIT	(Ε : .!	53	THENARDITE	1	* F	ERROSIL (DP)	
ALBITE :	56.54	K-MSILI	CATE		SPHENE	:		PYRITE		# E	NSTATIT (HP)	3.16
ANORTHITE :	12.37	WOLLAST	DNITE:		PEROVSK	CITE :		CHROMITE	4	* F	ERROSIL (HP)	2.33
LEUCITE :	44 5 2 5	DIOPSID	E	<b>从第</b> 4区创出了	RUTILE			ZIRCON		* F	ORSTERS (OL)	
NEPHELITE :		HYPERST	HENE :	5.49		ATITE: .	08	CALCITE			AYALITE (OL)	
KALIOPHILITE:		DLIVINE						*****: TOTAL				
***** NORMA	TIVE MINERAL	S RATI	DS AND T	NIVEYER 4	****							
OR - AB - AN		77 2 14	0	I OD THINE		1 6.7	TO	TAL % FELDSPA	DC . T	252		
QRTZ-ORTH-PLA	G . 20 7	4 7 74	4 CD	VETALL 17/	ATTON THOSE	/ 1/ WO	10					
WILL CUTTLE LEW	0 1 40.7	- Tel / Te	77	EEEDENTI/	ATION INDEX	41.40	50	AGIOCLASE INI	CHOCOL D.	1.0		
			DI	FERENITA	ALTON THUE	.: 01.40	FLI	HRIOCEMBE INT	EX :	16		
- DITTMAN UM	UED											
* RITTMAN VAL		Light Class	THE 2 2 7 1 3		-			the second				
***** MOLE N										ALUES ***		
					P : .00					CA I		
	MG 1		- 8477 994				0001			ALK : 10.		an incomplete mining
SI : 1.151 AL : .332	CA :	.047 T	1 : .	004	CG2 :	0 H20-	: .0001	FM :	2.56	K : .	06	
	un i											
AL: .332 FE+3: .006			SON TO T	HE AVERAG	SES OF THE	ABITIBI VO	LCANICS	(DESCARREAUX,	1973) **	***		
AL : .332 FE+3: .006	AND LOSSES I	BY COMPARI	100	MGO : 1.	. 27				1			-1
AL : .332 FE+3: .006	AND LOSSES I	BY COMPARI	A TOWN		200							
AL: .332 FE+3: .006	AND LOSSES I	68 K201	1,29	1.	. 24							
AL : .332 FE+3: .006 ****** GAINS THIS SAMPLE	AND LOSSES NA20   6	68 K201	1.29			RIORITY						
AL: .332 FE+3: .006 ****** GAINS THIS SAMPLE NORMAL VALUE	AND LOSSES NA20   6	68 K201	1.29 2.56			PRIORITY:	<u> </u>					
AL: .332 FE+3: .006 ***** GAINS THIS SAMPLE NORMAL VALUE GAIN OR LOSS	AND LOSSES NA20 1 6	i kan	7.56	Section -		PRIORITY	1	( <del></del>				
AL: .332 FE+3: .006 ****** GAINS THIS SAMPLE NORMAL VALUE GAIN OR LOSS	AND LOSSES NAZO ( 6.	SE KZDI	)CK) ***	**	.15 F							
AL: .332 FE+3: .006  ****** GAINS THIS SAMPLE NORMAL VALUE GAIN OR LOSS.  ****** LITHON MCDONALD-KATS	AND LOSSES NAZO ( 6.	68 K2D1 98 DLCANIC RO C SERIES:	H 56 CK) #### SUBALKAL	1. ++ INE	TYPE & FI	IELD NAME :		YES				Make a contract of
AL: .332 FE+3: .006 ****** GAINS THIS SAMPLE NORMAL VALUE GAIN OR LOSS ****** LITHON MCDONALD-KATS IRVINE-BARAGA	AND LOSSES I NAZO I 6. NAZO I 6. NAMES (IF VO GURA MAGMATIO R MAGMATIO	K201 MEDICANIC RO C SERIES	H 56 CK) #### SUBALKAL	1. ++ INE	TYPE & FI	IELD NAME :	RHYODAC	ITE *				
AL: .332 FE+3: .006 ****** GAINS THIS SAMPLE NORMAL VALUE GAIN OR LOSS ****** LITHON MCDONALD-KATS IRVINE-BARAGA	AND LOSSES I NAZO I 6. IAMES (IF VO LURA MAGMATIC R MAGMATIC	K201 FB DLCANIC RO DERIES ERIES	H 56 CK) #### SUBALKAL	 ** INE	TYPE & FI	IELD NAME :	RHYODAC					Walter Carlo

11

	CLIENT : LAPAUSE DISCLAIMER : THE				FILE :	ESPONS I B	LE FOR AN	IY PROBLEMS	OR ERROR	RS THAT MAY	ARISE FI		0:09:51AM USE OF T		A.
	***** REFERENCE AUTHOR: LAPAUSE	SOL Markey	EAR .	1987	REFEREN	CE : LAP	AUSE						SAMPLE	ORD NO.:	
	PROVINCE :	TOWNSHI	P 1						SHEET I	UTM EAST :	LONG. 1		LA	i .TA	
	GEOL.AGE :	GEOL. PR	mu .	er.	DL. ENVI	M ZONE :		M SQ. IDENT	; (	UIM EAST :			ROC		
	CONTEXT:	GEUL. FR		TRATIGRA				MAGMATIC S	RIFS :	SPEC. C			NUC	The LAMILIES II	
	DESCRIPTION 1	100	1 1 2		21.00					A STATE OF THE PARTY OF THE PAR	EE 11 0 1 72.				
			18 (2)					in the day	4.9						
	***** ORIGINAL	OXIDES 6	ND TRA	CELEME	NTS THE				ment while the last	altra e actiona		e de la companya de l			
	SI02 : 67.80		2.61		0 : 0.			BI		F :		PB:		ZN:	
	AL203: 15.50 FE203: 2.44		7.39		I 1 3.		AG: AS:	CL		HG:		SR :			
	FEO :	7102	0.77	H2	n P.		AU :	CR		MD i		V I			
	M60 : 1.27	P205	0.13	H2	O.M.		BA:	CU		NI i		W :			
			Section 1		A COLUMN										
nd per	****** NORMALIZE SID2 : 69.02 NA20 : 7.52	D OXIDES	(PYRI	TE REMOVI	ED IF SU	LFUR, IR	ON AS 20%	ATION FE203 AND 1.79 M .13 M	80% FEO	. DRY. TOTAL	.=100%)	* * * *		7 7	
		7 m 17 m 28			20 TH	0, 3, 2 5, 1			horaco i	b 1 100					
	****** OXIDES						01.3 (400		01.1/01.3				DACTOLEY	THIDEY	4 07
	A-F-M : NA20-K20-SI02 :		18.74	10.67			AL)/MGO :			INITY RATIO I INDEX			BASICITY		
	K20/NA20+K20 ;		Chie Massar	62339 S	S. N. St. Let 28, 18	Contract Contract	20/NAZU :			ELSIC INDEX					
	1207711201120		10.0	1000		10.14	11			IC INDEX			MARCOTTE		
	1.0	1	4.1	45.00		4 2	State .					1. 食品产	2		
	***** NORMATIVE		S L	ISTING #	****										
		. 39	ACM	ITE	.1.		MAGNETITE	: .71			3			STO(DP):	
	CORUNDUM :	A STATE OF THE STATE OF	CA-	SILICATE	1		HEMATITE			FLUORITE	1	The special section in the		TIT(DP):	
	ORTHOCLASE : 5 ALBITE : 63		SEA CO	HEILICAT	P. STEER ST.		ILMENITE SPHENE	1 .54		THENARDITE PYRITE		* <b>**</b> *********************************	# FERROS	TIT(HP):	
	ANORTHITE : 5	. 65	30.75	SILICATE L'ASTONITI	100	Mr. to se	DEDOUGUTT	1		CHROMITE	1		* FERROS	STI (MP)	1 43
	LEUCITE :				1 4.87		RUTILE FLUORAPAT	- L.		ZIRCON	1 .		* FORST	ERS (OL):	1.40
	NEPHELITE :			ERSTHENE			FLUORAPAT	ITE: .1					* FAYAL		
	KALIOPHILITE:		OLI	VINE	1				-	****: TOTAL	1: 99.75				
		3.3	<b>第一个</b>	1204		•									
	****** NORMATIV	E BINER	20 1000	KAJIUS A	N11 - 1 (M13) - X	<b></b>	*								
	DR - AB - AN :	77	83.9	8.4	COLOR	INDEX		9.42	TOTAL	L % FELDSPAI	₹5 ; 5	. 84			
	QRTZ-ORTH-PLAG :	15.9	6.5	//.6	CRYSIA	LLIZATIO	N INDEX:	10.58	TUTAL	IOCLASE IND	ASES: O	.01			
					DIFFER	ENITHITO	M INDEX:	07.40	PLAG.	TOCKASE INDI	- A - 3	7			
	* RITTMAN VALUES		Sec 5 34	at Desirers	100 S 34	C 31 11		of many to be an income of the							
	***** MOLE NUMB		4 4	1 Sec. 1	diam'r.					*****	RITMAN	VALUES	****		
	SI : 1.149	FE+2:	.025	.NA	243	P		S:	0	SI :	59.02	CA :	1	AN :	
		MG :	.032	K :	.021	MN			.0001	AL :	14.2		12.27		
	FE+3: .006	CA :	.047	TI :	.004	C02	: 0	H20-:	.0001	FM :	2.6	K :	.08		
	***** BAINS AND THIS SAMPLE N	1A20 1-7.	52 - K	204 9	9 MBD	1 1,29		SITIBI VOLC	ANICS (DI	ESCARREAUX,	1973) *	****			
	1111 m miles man , 100 mm		1		8	1.26		The state of the s	American Commission of the		ALL THE MINISTER CO.				
	NORMAL VALUE							ORITY:							
	NORMAL VALUE		82	:	3	15	LLC1	COUTIA							
	GAIN OR LOSS	2.	82			15	PKI	IONITT I							
_	GAIN OR LOSS	2. S (IF V	82 OLCANII	C ROCK)	*****				- And the second			e no separate e a	e gjerderen bestelle	to gradula place. And delicately to the first	
_	MORMAL VALUE GAIN OR LOSS  ****** LITHONAME MCDONALD-KATSURA	2. S (IF )	82 OLCANI	C ROCK)	LKALINE	Тү	PE & FIEL	D NAME :				· va de mande	e gaberahijan bilakiris	to state of the st	anges and a constraint of the second
	GAIN OR LOSS	2. S (IF )	82 OLCANI	C ROCK)	LKALINE	Тү	PE & FIEL		YODACITE				16	n. ruden (Artin, del Philosophie White	enges engen

CLIENT : LAPAUSE SURFACE DATA FILE : 10:10:05AM 17 MAY 87

LIENT : LAPAUS ISCLAIMER : TH			DATA F		SPONSIBLE F	OR ANY PI	ROBLEMS	OR ERR	DRS THAT M	AY ARISE		10:10:05AM HE USE OF THE		A. 87	
**** REFERENC	CE DATA *												D NO.:		
ITUOD. I ADALICE		VEAD . 10	97.00 2 0	EFERENCE	: LAPAUSE							SAMPLE N	0 1		
ROVINCE :	TOWNSH	IP 1					NTS.	SHEET	1	LONG.	2 .	LAT			
				UTM	ZONE :	UTM S	Q. IDENT	. :	UTM EAST			LAT.			
OL.AGE :	GEOL.PI	ROV. 1			DNMENT :							ROCK	NAME :		
INTEXT:		STR	ATIGRAPH	IY :		MAG	MATIC S	ERIES :	SPEC	BRAYITY	3 .				
SCRIPTION :		· 是选择了人	· 30 30												
								\$ s.							
**** DRIGINAL	DXIDES	AND TRACE	ELEMENT	8 *****											
02: 37.80	CAD	12.90			7 S:			1	F		PB:		ZN:		
203: 4.41	NA20	0.03		: 23.00			CL		HG:		SN:				
203: 4.41 203: 7.82	K20	0.40	C02	:	A5 ;			L	LI:		SR :				
0 :	TIO2	0.28	H20.	Pi	AU :		CR		MO :		V s				
0 : 12.20	P205	0.08	H20.	Ma	BA :		CU	§ .	NI t		M z	1			
40	11 3817110	A 1. 30 - 73	2022												
	* *	* * * *	* * * *	* * * *	* * CAL	CULA	TION	5 * *	* * * * *	* * * * *	* * *	*			
**** NORMALI	ZED OXIDE	(PYRITE	REMOVED	IF SULF	UR, IRON A	S 20% FE	203 AND	80% FE	O, DRY, TO	TAL=100%)	****	t			
02 1 50.09	AL203	5.84	FE20	3. 2.0	FEO	: 7.46	M	GO : 1	6.17	CAO : 17	7.09				
20 : .04	K20	. 53	7102	3	P205	: .11	М	NO I	.23						
**** OXIDES -					#		A 18 18 18 18 18 18 18 18 18 18 18 18 18					44 (144) (114) (14) (14) (14) (14)			
F-M	. 2 17	ALL THE	AGO THÝM 41 KK		ED/TOTAL \	MCO .	50	AL PA	I TAITTY PAT	IO . NO		BASICITY I	NDEY .	26 16	
20-K20-SI02	. 2.1/	1	90	,	ED (TOTAL) / K20/N	A20 :	. JO	MLKH	TIATLI WHI	.07 00	S SOLTE	DIFICATION I			
0/NA20+K20	. 97	The professional	\$346 or No. 1	524 S. C.	V40/N	man : 1	J. ZJ	HLAH	EELGIG IND	CV . 7 07	) SOUTE	MACHIMOTO I	NDEY -	17 PA	
U/NHZU+KZU		16 3 4	WAS TO A		1.			мл	LETOIF IND	EA 1 3.23	2	HASHIMOTO I	NDEY -	1 15	
	1.5	3 Ab (3.34)	The Country of	and the second				MA	FIC INDEX	137.08	7.	HARLUITE I	NUEA I	1.15	
HANK MODULTE	UE MINERA	C IV	TIME	N. H. H.	Section of the section of the section of						cambo con co	*******			
**** NORMATI					MAGN	CT 1 T C			LIAL TTE			* WOLLAST	n (ne) -	20 10	
						ETITE			HALITE			* ENGTATE	T(DD) -	20 42	
RUNDUM :	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		LICATE :	The state of the s		TITE			FLUORITE			* FERROSI	I (DE):	40.02	
THOCLASE :	3.13		LIPATE		ILME		: .7		THENARDIT			* ENSTATI	L (DE) :	0.04	
BITE :	14 2		DTONITE !	1.1.	SPHE	VSKITE	1		PYRITE						
UCITE :	17:4	DIOCC	INC.	KE 04	FERU	ADVIIE	•	militari di di di				# FERROSI			
PHELITE :		DIGES	TUE :	35.86	KUII	DADATITE						* FORSTER * FAYALIT			
PHELITE:		HYPER	SIMENE :	15.24	RUTI FLUO	RAPATITE	08		CALCITE		31	# PHYHLII	E (UL):	1.77	
LIUPHILITE:	- 7.12.3	OLIVI	NE :	1.21			.,		******TOT	AL*: 99,E	31				
HANN MOOMAT	THE MINES	Active to the land	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	46.0 C											
**** NORMAT	TVE MINER	TO HA	TAS AND	INDEXES	*****		07	***	AL 2 FELSA	0000	7 41				
- AB - AN	1 36/	17 7 0	2 7	COVCEAU	TANTION TH	DEV. 70	.07	101	AL % FELDS	THRS !	7.00				
TZ-ORTH-PLAG	. 0	1/./ 8	2.3	CKTSTALL	IZATION IN	DEXI /2	. 41 7 0/	101							
				DIFFEREN	NITALIUN IN	DEX:	3.40	PLA	GIOCLASE I	MDEY :	48				
RITTMAN VALUE	CP #	A 1512 1 CH 14	State of the second				and the last							101111	
**** MOLE NU				1.7.5.1						UU DITMAL	L DALUES				
ssss Dule Nu	UREKS ###				_	000			****	** RITMAN	VALUES	****	0.51		
	FE+21	.104			P	.002	S t	· · · · · · · · · · · · · · · · · · ·	SI	1 50.09	CA	14	AN :	and the same of the same	
834			K :		MN :	.003	H2D+:	.0001	SI AL FM	5.25	ALK	: .59			
: .834		. 305	TI :	.005	CO2 :	O	H20-:	.0001	FM	: 32.44	K	: .89			
: .834	CA :					UE ADITE	D. 2. 4.400 . 5	ANTOO	DECCAPORTS:	V 4000					
: .834 : .115 +3: .026		DV Messes 5	DEMONE THE	All Higher party and have		HE GHITT	RT AMPC	HNICS (	DESCARREAU	X, 19/3)	***				
: .834 : .115 :+3: .026	ND LOSSES	BY COMPA	RISON TO	THE AVE	ERABES OF T	III NOLIA	21 . 11 . 1								
: .834 : .115 +3: .026	ND LOSSES	043355000	447 2 73	MOO .	14.17										
: .834 : .115 +3: .026 **** GAINS AN IIS SAMPLE RMAL VALUE	ND LOSSES NA20 1	04 K20	.53 .25	MGO ı	16.17										
: .834 : .115 +3: .026 **** GAINS AN IIS SAMPLE RMAL VALUE	ND LOSSES NA20 1	043355000	447 2 73	MOO .	16.17		TY :								
: .834 : .115 +3: .026 **** GAINS AL IS SAMPLE RMAL VALUE IN OR LOSS	ND LOSSES NA20 1 2	04   K20 76   73	. 25 . 28	MGO I	16.17		TY :								
: .834 : .115 :+3: .026 ***** GAINS AN HIS SAMPLE IRMAL VALUE IRMAL VALUE IN OR LOSS	ND LOSSES NA20 1 2 -2	04   K20 76   73   70   CANIC	. 25 . 28	MGO 1	16.17 6.89 9.17	PRIORI									
: .834 : .115 +3: .026 **** GAINS AN IIS SAMPLE RHAL VALUE IN OR LOSS	ND LOSSES NA20 1 2 -2	04   K20 76   73   70   CANIC	. 25 . 28	MGO 1	16.17 6.89 9.17	PRIORI		AGALT.							
: .834 : .115 +3: .026 **** GAINS AL IS SAMPLE RMAL VALUE IN OR LOSS	ND LOSSES NA20 1 2 -2	04   K20 76   73   70   CANIC	. 25 . 28	MGO 1	16.17 6.89 9.17	PRIORI		ASALT				,13			

CLIENT: LAPAUSE SURFACE DATA FILE: 10:10:37AM 17 MAY 87

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DISCLAIMER : THE OWNER O	DATA F F THE PROGRAM IS	NOT RESPONSIT	ILE FOR ANY P	ROBLEMS OR	ERRORS THAT MAY	ARISE FROM TH	HE USE OF THESE DAT	Α.
***** REFERENCE DATA **		797					RECORD NO. 1	31660
AUTHOR- LAPAUSE	EAR . 1997	PEFERENCE . LAF	PAUSE				SAMPLE NO :	0507/
****** REFERENCE DATA ** AUTHOR: LAPAUSE YROVINCE L TOWNSHI SEDL.AGE : GEOL.PR	P. T.	EFERCIAGE I LA	HOSE	NTO QUE	ET .	LUNG +	LAT.	STATE OF THE PARTY.
VOATURE F TRANSCIA		LITM TONE	LITM G	O TOENT	HTM EACT .	COIVO	LITH NORTH	
EDI ACE - CEDI DE	OU - CEOL	CHILIDONMENT	01113	M. IDENI.I	OTH EAST :	DOCK TYPE	DOOL NAME	
ONTEXT:	CTDATTERADI	" EMATIONALIEM!	i MAG	MATTE CEDIC		DAUTTY .	NOCK MAIL I	
			neg	MHITE SERVE	ib i gret. b	MHX1.11, 3		
ESCRIPTION :		616 44		1 17 29 -				
***** ORIGINAL OXIDES 6 102 : 68.80 CAO : L203: 16.40 NA20 : E203: 2.74 K2D :	NU INACE ELEMENT	A AT				PB	ZN:	
102 : 68.80 LAU :	2.34 FINU	1 0.03	5 1	BI :	F :	CN	2N 1	
L203: 16.40 NA20 :	6.84 LUI	1 0.40	AD I	CL I	HG:	214		
E2U3: 2.74 K2U :	1.00	A CONTRACTOR OF THE PARTY OF TH	HP I	LU I	MO :	20	the second second second	
EU : 11UZ :	0.35 HZU.		AU I	CR : CU :	MU : NI :	V ;		
E0: TIO2:	0.17	Ol Control	BA .1 .	CO 1	NII			
* *	* * * * * * * *	* * * * * C	ALCULA	TIONS		* * * * * *	*	
***** NORMALIZED OXIDES 102 : 69.01 - AL203: A20 : 6.86 K20 :	(PYRITE REMOVED	) IF SULFUR. IF	RON AS 20% FE	203 AND 807	FEO. DRY, TOTAL	=100%) ****		
102 1 QT. 01 HL2031		75	P20K 1 176	MANO	1 1.25 CAL	1 2.35		
nzu . 0.00			FAUG 1 - 11/	1940				
***** OVIDEC DATIOC	AND INDEASE REFE	M. M. M.						
_F_M + 47 57	21 74 10 74	FED (TO:	TAL ) /MGO •	1 99 4	N KAL INITY RATIO	· NA	BASICITY INDEX :	4.33
A20-K20-8102 · 9	21.74	1201103	(20/NA20 ·	15	ALKALT INDEX	12 72 SOLT	DIFICATION INDEX :	10.79
20/NA20+K20 + 13.%	Salar State of the Salar State o	Maria - Commission	LOVINIZO I		FELSIC INDEX	· 76.98	HASHIMOTO INDEX :	19.63
20/14/20182010	· · · · · · · · · · · · · · · · · · ·				MAFIC INDEX	166.93	HASHIMOTO INDEX : MARCOTTE INDEX :	-2.1
-F-M : 67.53 A20-K20-S102 : 9 20/NA20+K20 : ,13					THE TO STOCK	.00.70		
***** NORMATIVE MINERAL	S LISTING ***	***					responsibility of the second s	
UARTZ : 17.63	ACMITE :	1	MAGNETITE	: .79	HALITE	1	* WOLLASTO (DP):	
ORUNDUM : .21	CA-SILICATE :		HEMATITE		FLUORITE	1	* ENSTATIT(DP):	
RTHOCLASE 5.92	NA-METE (CATE)	A MANAGEMENT	ILMENITE	: .66	THENARDITE	1	* FERROSIL (DP):	
LBITE : 58.05	K-MSILICATE		SPHENE		PYRITE	1	* ENSTATIT(HP):	3.12
NORTHITE 1 10.52	WOLLASTONITE		PEROVSKITE		CHROMITE	:	* FERROSIL(HP):	2.65
EUCITE :	DIOPSIDE :	·	RUTILE		ZIRCON	:	* FORSTERS(OL):	
EPHELITE :	HYPERSTHENE :	5.77	FLUORAPATITE	: .13	CALCITE	:	* FAYALITE(OL):	
ALIOPHILITE:	OLIVINE :				*****: TOTAL*	: 99.68		
***** NORMATIVE MINERAL UARTZ : 17.63 ORUNDUM : 21 RTHOCLASE * 5.92 LBITE : 58.05 NORTHITE : 10.52 EUCITE : EPHELITE : ALIOPHILITE: ***** NORMATIVE MINERAL		A.						
***** NORMATIVE MINERA R - AB - AN : 7.9 RTZ-ORTH-PLAG : 19.1	77.9 14.1	COLOR INDEX	## : 7	.22	TOTAL % FELDSPAR	S : 4.49		
RT7-ORTH-PLAG : 19.1	6.4 74.4	CRYSTALLIZATIO	ON INDEX: 12	2.71	TOTAL % PLAGIOCE	ASES: 8.57		
		DIFFERENTIATIO	ON INDEX: 6	4.18	TOTAL % PLAGIOCE PLAGIOCEASE INDE	X : 15		
RITTMAN VALUES *	12.82.84							
RITTMAN VALUES *	•				*****	RITMAN VALUE	S *****	
RITTMAN VALUES *	** .028 NA s	,221 P	: .002	s :	****** 0 SI : 6	RITMAN VALUE	S ****** : O AN :	
RITTMAN VALUES *	.028 NA 1	.221 P .021 MN	: .002	S : H2O+: .00	0 SI : 6	RITMAN VALUE 9.01 CA 14.8 ALK	S ****** :OAN : : 11.29	
RITTMAN VALUES *	.028 NA	.221 P .021 MN .004 C02	: .002 : 0 : 0	S : H2O+: .00 H2O-: .00	0 SI : 6	RITMAN VALUE 9.01 CA 14.8 ALK 2.52 K	S ****** : 0 AN : : 11.29 : .08	
RITTMAN VALUES * ***** MOLE NUMBERS **** I : 1.149 FE+2: L : .323 MG : E+3: .007 CA :	.028 NA 1 .031 K I .042 TI :	.021 P .021 MN .004 CD2			0 SI : 6	9.01 CA 14.8 ALK 2.52 K	: 0 AN : : 11.29 : .08	
RITTMAN VALUES * ****** MOLE NUMBERS **** SI : 1.149 FE+2: AL : .323 MG : E+3: .007 CA :	.028 NA 1 .031 K I .042 TI :	.021 P .021 MN .004 CD2			0 SI : 6	9.01 CA 14.8 ALK 2.52 K	: 0 AN : : 11.29 : .08	
RITTMAN VALUES * ****** MOLE NUMBERS **** SI : 1.149 FE+2: AL : .323 MG : E+3: .007 CA :	.028 NA 1 .031 K I .042 TI :	.021 P .021 MN .004 CD2			0 SI : 6	9.01 CA 14.8 ALK 2.52 K	: 0 AN : : 11.29 : .08	
RITTMAN VALUES * ****** MOLE NUMBERS **** SI : 1.149 FE+2: AL : .323 MG : E+3: .007 CA :	.028 NA 1 .031 K I .042 TI :	.021 P .021 MN .004 CD2			0 SI : 6	9.01 CA 14.8 ALK 2.52 K	: 0 AN : : 11.29 : .08	
RITTMAN VALUES * ****** MOLE NUMBERS **** SI : 1.149 FE+2: AL : .323 MG : E+3: .007 CA :	.028 NA 1 .031 K I .042 TI :	.021 P .021 MN .004 CD2			0 SI : 6	9.01 CA 14.8 ALK 2.52 K	: 0 AN : : 11.29 : .08	
RITTMAN VALUES * ***** MOLE NUMBERS **** SI : 1.149 FE+2: AL : .323 MG : E+3: .007 CA : ****** GAINS AND LOSSES HIS SAMPLE NA20 : 6. ORMAL VALUE 4 SAIN OR LOSS 2.	.028 NA ; .031 K ; .042 TI :  BY COMPARISON TO B6 1201 11 .7 1.28 1628	.221 P .021 MN .004 CD2 O HE AVERAGES HGD ( 1.25 1.26 19	OF THE ABITI	BI VOLCANI	O SI : 6 001 AL : 001 FM : CS (DESCARREAUX,	9.01 CA 14.8 ALK 2.52 K	: 0 AN : : 11.29 : .08	
RITTMAN VALUES * ***** MOLE NUMBERS **** SI : 1.149 FE+2: AL : .323 MG : E+3: .007 CA : ****** GAINS AND LOSSES HIS SAMPLE NA20 : 6. ORMAL VALUE 4 SAIN OR LOSS 2.	.028 NA ; .031 K ; .042 TI :  BY COMPARISON TO B6 1201 11 .7 1.28 1628	.221 P .021 MN .004 CD2 O HE AVERAGES HGD ( 1.25 1.26 19	OF THE ABITI	BI VOLCANI	O SI : 6 001 AL : 001 FM : CS (DESCARREAUX,	9.01 CA 14.8 ALK 2.52 K	: 0 AN : : 11.29 : .08	
RITTMAN VALUES *  ****** MOLE NUMBERS ****  SI : 1.149 FE+2:  AL : .323 MG :  E+3: .007 CA :  ****** GAINS AND LOSSES  HIS SAMPLE NA20 : 6.  ****** GAINS AND LOSSES  HIS SAMPLE NA20 : 6.  ****** LITHONAMES (IF CONTROL OF	.028 NA ; .031 K ; .042 TI :  BY COMPARISON TO B6 1201 11 .7 1.28 1628	.221 P .021 MN .004 CD2 O HE AVERAGES HGD ( 1.25 1.26 19	OF THE ABITI	BI VOLCANI	O SI : 6 001 AL : 001 FM : CS (DESCARREAUX,	9.01 CA 14.8 ALK 2.52 K	: 0 AN : : 11.29 : .08	

CLIENT: LAPAUSE SURFACE: DATA FILE: 10:11:15AM 17 MAY 87

	DISCLAIMER : 1		OF THE PR	OGRAM IS	NOT RES		FOR ANY	PROBLEMS	OR ERRO	ORS THAT MA	Y ARISE		E USE OF T			
	***** REFEREN AUTHOR: LAPAUS PROVINCE : GEOL.AGE :	NCE DATA	*****		REFERENCE		SE						RECO SAMPLE	RD NO.:	31661	
	PROVINCE :	TOWNS	IIP :					NTS	SHEET :		LONG.	<b>1</b> .	LA	T. :		
					UTM	ZONE :	UTM	SQ. IDENT	. :	UTM EAST I			UTM NORTH	:		
	GEOL.AGE : CONTEXT ;	GEOL.	ROV. :	GEOL	ENVIRO	NMENT :					ROCK	TYPE :	ROC	K NAME :		
	CONTEXT;		SIR	ATIGRAPH	1Y :	-		AGMATIC S	RIES	SPEC.	GRAVITY	E				
	DESCRIPTION :		Augusta 6	113												
	***** ORIGINA	L DXIDES	AND TRACE	ELEMENT									10.00			
	S102 : 51.20	CAO	: 8.33	MNO	: 0.20	S	1	BI		F : HG : LI :		PB:		ZN:		
	AL203: 14.90	NA2U	: 2.74	LOI	: 2.80	AG	:	CL :		HG:		SN :				
	FE2U3: 13,30	K20	: 0.42	C02		AS	and the same	CO :		LI t		SR: V: W:				
	FEO :	1102	: 0.74	H20.	Parameter	AU	1	LR		MD :		V :				
	AL203: 14.90 FE203: 13.30 FE0 : MGO : 7.03	P205	1 0.09	H20.		BA		CU :		NI :						
_	***** NORMAL I	ZED OXID	* * * * * ES (PYRITE	* * * *	* * * *	* * C A UR. TRON	AS 20%	FF203 AND	BOX FEG	0, DRY, TOT	AL = 100%)	*****		THE THE STREET	Agency or Tankor universe superpolation	
	SI02 : 52.31 NA20 : 2.8	k20	43	710	1.76	P2	05 : .	09 MI	40 :	.2	HU E C	1. 31		-		
-	****** OXIDES A-F-M NA20-K20-S102 K20/NA20+K20 ******* NDRMATI	RATIO	AND INDE	XES ***	F##		property and the state of									
	A-F-M	: 14.1	54.54	31.35	F	ED (TOTAL	)/MGO :	1.7	ALKAL	INITY RATI	D : NA		BASICITY	INDEX :	20.34	
	NA20-K20-SI02	: 5	1	94		K20	/NA20 :		ALKAL	I INDEX	:13.31	SOLID	IFICATION	INDEX :	31.73	
	K20/NA20+K20	: .13	. 4	S NEWS	TEXT OF				F	ELSIC INDE	X : 27.5	1	HASHIMOTO	INDEX :	40.22	
				012457		7.		7	MAF	IC INDEX	:63.5		MARCOTTE	INDEX 1	85	
-	***** NORMATI	IVE MINER	ALS LIS	TING ##	***								- 1 - 1 - 1 - 1 - 1 - 1		- MT 71-11-1-1-1-1	
	QUARTZ :	1.94	ACMIT	E :		MA	GNETITE	: 3.93		HALITE	2		* WOLLAS	TO (DP):	5.8	
	CORUNDUM :		CA-SI	LICATE :	1	HE	MATITE			FLUORITE			* ENSTAT	IT(DP):	3.07	
	ORTHOCLASE :	2.53	NA-MS	ILICATE	1000	製造 · IL	MENITE	1 1.43	.,,	THENARDITE PYRITE			* FERROS	IL (DF):	2.55	
	ALBITE .	23.68	K-MSI	LICATE 1	多多.	SP	HENE			PYRITE	2		* ENSTAT	IT(HP):	14.8	
	ANORTHITE '	27.7	WOLLA	STONITE	<b>可以是否在基础</b>	PE	ROVSKITE			CHROMITE			* FERROS	IL (HP):	12.29	
	LEUCITE :		DIOPS	IDE :	11.44	RU	TILE	1		ZIRCON			* FORSTE	RS (OL):		
	NEPHELITE :		HYPER	STHENE :	27.1	FL	UDRAPATI	TE: .07		CALCITE			* FAYALI	TE (DL):		
	KALIOPHILITE:		OLIVI	NE :						*****: TOTA	L#: 99.8	32				
	QUARTZ: CORUNDUM: ORTHOCLASE: ALBITE: ANORTHITE: LEUCITE: NEPHELITE: KALIOPHILITE: ************************************	TIVE MINE	RALS RA	TIOS AND	INDEXES	*****						-			··· · · · · · · · · · · · · · · · · ·	-
-	UR - AB - AN	4.	43.9	51,4	COLOR IN	DEX		43.9	TOTA	AL % FELDSP	ARS :	3.91				
	OR - AB - AN ORTZ-ORTH-PLAG		4.5	92	DIFFEREN	TIATION	INDEX:	44.69 26.21	PLAG	AL % PLAGIO BIOCLASE IN	CLASES: DEX :	1.38				
	* RITTMAN VALL	JES *		2.44 9	78 A M.S.											
	****** MOLE NU SI : .871	JMBERS ***	***							****	* RITMAN	VALUES	*****			
	SI : .871	FE+2:	.136	NA :	.09	P :	.001	S :	0	SI :	52.31	CA	: 3	AN .		
	AL: .299	MG :	.178	K :	.009	MN :	.003	H20+	- 0001	Al ·	13.69	ALK.	. 4.63		In the state of th	
	FE+3: .034			TI:		C02 :	0	H20-:	.0001	AL : FM :	14.49	K	: .09			
	***** GAINS A THIS SAMPLE NORMAL VALUE	ND LOSSES	2.8 K20	RISON TO	THE AVE	RAGES OF	THE ABI	TIBI VOLCA	MICS (I	DESCARREAUX	, 1973)	*****				
	GAIN OR LOSS	-	28	.11		1.13	PRIC	RITY:		ALL DESCRIPTION OF THE PARTY OF						-
	***** LITHONA	MES (IF	VOLCANIC	ROCK) #4	****											
-	MCDONAL D-KATRI	RA MARMAT	TOBERTES	SUBALL	AT TAKE TAY	TYPE	& FIELD	NAME :	garagan and and		14-14		70		etheration days a star period of the categories.	
		CHAGMATIC	BERIES	NAMES OF	1	ROCK	NAME BY	SI02 : 8/	SALT	- 4						
-	The state of the s	Market Section 1997		The second	4 663	BARA	BAR LITH	ONAME :		المستوكين أعلامها			V70		The second second desired	* 1
	JENSEN MAGMATI	C SERIES		: THOLE	ITIC .	JENS	EN LITHO	NAME : TH	OLFITTI	C BASALT						

CLIENT: LAPAUSE SURFACE. DATA FILE: 10:11:53AM 17 MAY 87

LIENT : LAPAUSE SURFACE. DATA FILE : 10:11:53AM DISCLAIMER : THE OWNER OF THE PROGRAM 18 NOT RESPONSIBLE FOR ANY FROBLEMS OR ERRORS THAT MAY ARISE FROM THE USE OF THES	
**** REFERENCE DATA *****  NUTHOR: LAPAUSE YEAR: 1987 REFERENCE; LAPAUSE SAMPLE NO	NO.: 31662
ROVINCE: TOWNSHIP: NTS SHEET: LONG.: LAT.	1
UTHOR: LAPAUSE YEAR: 1987 REFERENCE: LAPAUSE  ROVINCE: TOWNSHIP: UTM ZONE: UTM SQ.IDENT:: UTM EAST: UTM NORTH:  EQL. AGE: GEOL. PROV.: GEOL. ENVIRONMENT: MAGMATIC SERIES: SPEC. GRAVITY:	AME 1
	The test with the part of the meaning of the
ESCRIPTION:	2
***** ORIGINAL OXIDES AND TRACE ELEMENTS *****	Sar Alberta
102:50.20 CAD: 5.44 MNO: 0.16 S: BI: F: PB:	ZN :
L203: 15.90 NA20: 5.89 LOI: 4.60 AG: CL: HG: SN:	
E203; 14.10 K20 : 0.15 C02 : AS : CD : LI : SR :	The second section is the second section of the second section of the second section section is the second section of the second section secti
EO : 3 IUZ : 1.06 HZU FI AU I CR : MU I V :	
102 : 50.20	
**************************************	
***** NORMALIZED DXIDES (PYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND 80% FEQ. DRY, TOTAL=100%) ******	
LUZ : 52:55 PH 2031 16:38-35 FEZOS: 2.94-00-FED : 10:59 FEZOS: 4:15 CAD : 5:67	
102:52.35 AL203: 16.58 3 FE203: 2.91 FED : 10.59 / MGO : 4.15 CAO : 5.67 A20: 6.14 K20: 16 TI02: 1.11 P205: .15 MNO: .17	
**** OXIDES RATIOS AND INDEXES ******	
-F-M : 26.27 56.42 17.31 FEO(TOTAL)/MGO: 3.19 ALKALINITY RATIO: NA BASICITY IND	EX: 18.44
20-K20-S102; 10 0 89 K20/NA20; .03 ALKALI INDEX ;2.54 SOLIDIFICATION IND	EX : 17.52
CO/NA2O+K2O : .03 FELSIC INDEX : 52.63 HASHIMOTO IND MAFIC INDEX :76.53 MARCOTTE IND	EX : 26.74
MAFIC INDEX :/6.53 MARCUITE IND	EX 1 -2.6
***** NORMATIVE MINERALS LISTING *****	
JARTZ : ACMITE : MAGNETITE : 4.25 HALITE : * WOLLASTO(	DP): 4.16
DRUNDUM : CA-SILICATE: HEMATITE : FLUORITE : * ENSTATIT	DP): 1.68
RTHOCLASE : 92 NA-MSILICATE: ILMENITE : 2.09 THENARDITE : * FERROSIL	DP): 2.52
LBILE : 144.21 K-MSILICATE: SPHENE : PYRITE : * ENSTATIT (	HP):
FUCITE : DIPSIDE : 8.37 RUTILE : ZIRCON : * FORSTERS(	OL): 6.05
PHELITE : 1.49 HYPERSTHENE : FLUORAPATITE: .11 CALCITE : * FAYALITE(	GL): 10.02
##### NORMATIVE MINERALS LISTING *****  ACMITE : ACMITE : MAGNETITE : 4.25 HALITE : ** WOLLASTO ( DRUNDUM : CA-SILICATE : HEMATITE : FLUORITE : ** ENSTATIT ( RTHOCLASE : 92 NA-MSILICATE : ILMENITE : 2.09 THENARDITE : ** FERROSIL ( LBITE : 49.21 K-MSILICATE : SPHENE : PYRITE : ** ENSTATIT ( NORTHITE : 17.21 WOLLASTONITE: PEROVSKITE : CHROMITE : ** FERROSIL ( EUCITE : DIOPSIDE : B.37 RUTILE : ZIRCON : ** FORSTERS ( EPHELITE : 1.49 HYPERSTHENE : FLUORAPATITE: .11 CALCITE : ** FAYALITE ( ALIOPHILITE: OLIVINE : 16.08 ************************************	
***** NORMATIVE MINERALS RAJIOS AND INDEXES ******	
R - AB - AN : 1.4 73.1 25.6 COLOR INDEX : 30.79 TOTAL % FELDSPARS : 7.34  RTZ-ORTH-PLAG: 0 1.4 98.6 CRYSTALLIZATION INDEX: 26.88 TOTAL % PLAGIOCLASES: 6.42  DIFFERENTIATION INDEX: 51.62 PLAGIOCLASE INDEX : 25	
CIT-UNINTELAG: U 1.4 78.0 ERYSHALLIZHILUN INDEX; 20.88 TUTAL A FLANDLULASES; 5.42  DIFFERENTIATION INDEX; 25.42 PLASTOCLASE INDEX; 25.	
DATE CHEMICALITY AND CASE OF CHEMICAL CONTROL AND CASE OF CHEMICAL CONTROL CON	
RITTMAN VALUES *	
***** MOLE NUMBERS ****** RITMAN VALUES *****	
I : .871 FE+2: .147 NA : .198 P : .002 S : .0 SI : 52.35 CA : .2 A	N :
L: .325 MG: .103 K: .003 MN: .002 H2D+: .0001 AL: 14.92 ALK: 9.37 E+3: .037 CA: .101 TI: .014 CD2: 0 H2D-: .0001 FM: 8.44 K: .01	
101 1057 CH 1 101 11 1 1014 CH2 1 0 H2U-1 10001 FH 1 8.44 K 1 101	
***** GAINS AND LDSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) ******	The second control of the second
HIS SAMPLE MAZO 1 6.14 KZO: .16 NGO 1 4.15	P
HIS SAMPLE NAZO 1 6.14 K20: .16 MGO 1 4.15 ORMAL VALUE 3.08 .32 5.96	-
AIN OR LOSS 3.0617 -1.88 PRIORITY:	
**** I THOMOME / TE UNI CONTE DOCK) *****	
***** LITHONAMES (IF VOLCANIC ROCK) ****** CDONALD-KATSURA MACHATIC SERIES   LKALINE   TYPE & FIELD NAME	
CDONALD-KATSURA MAGMATIC SERIES: LALINE TYPE & FIELD NAME : RVINE-BARAGAR MAGMATIC SERIES : ROCK NAME BV 8102 : MASALT : BARAGAR LITHONAME : LAND RICH THOLELLE V7.0 LENSEN MAGMATIC SERIES : THOLELLIC JENSEN LITHONAME : IRON RICH THOLELLE	
BARAGAR LITHONAME I V7 o	
ENSEN MAGMATIC SERIES : THOLEIITIC JENSEN LITHONAME : IRON RICH THOLEIITE	

	OWNER OF												
**** REFERENCE	DATA ****	F-H	manager and the	and the live of	+4							RECORD	ND.: 31663
UTHOR: LAPAUSE	YEAR	R : 1987	REF	ERENCE I	LAPAUSE							SAMPLE NO	MEZICELOS
ROVINCE :							NTS SHE	ET:		LONG. :			
	ALMERICA PROPERTY AND ADDRESS OF THE PARTY O	Face 1		UTM 70N	VF :	HTM SQ. I	DENT.:	HTM F	AST :		LIT	LAT. M NORTH :	
EDL.AGE :	GEOL PROV.		GEOL -	ENVIRONME	NT :					BOCK	TYPE :	ROCK N	IAME :
						MAGMAT	IC SERIE	S .	SPEC.			11001	
ESCRIPTION :					The second secon			197	or or part				
145		R THAT	2 1										
**** ORIGINAL C	XIDES AND			*****	adeq or								
02 : 69.60				0.03		Contraction of the second of the second of	BI:		F :		PB:		ZN:
203: 15.60	NA20 : 6	5.88	LOI :	1.20	AG :		CL:		HG :		SN:		
203: 2.18	K20 : :	1.04	C02 :		AS :		CO:		LI:		SR :		
1 O	TI02 : 0	0.25	H20.P	3.2	. All e		CR 4		MO :		V :		
50 : 1.28	P205 : 0	0.15	H20. M		BA I		CU 1		NI :		W:		
203: 2.18 50 : 30 : 1.28			3. 2. 3.	4	81								
	* * * :	* * * *	* * *	* * * * *	CALC	ULATI	ONS	* * * *	* * *	* * * *	* * * *		
***** NORMALIZED	OXIDES (F	PYRITE RE	MOVED 1	F SULFUR,	IRON AS	20% FE203	AND BOX	FEO. DRY	, TOTAL	L≈100%)	*****		
02 : 70.49 120 : 6.97	AL2031	15.8	FE203	44	FEO :	1.59	MBO	1.3	CA	J : 1.	92		
20 : 6.97	K20 1	1.05	T102	. 25	P205 :	. 15	MNO	03					
		N-West C	A	A 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3 78-1							
**** OXIDES													
F-M : 7 20-K20-S102 :	70.66 17.	.89 11.	45	FEO	(TOTAL) /MG	0: 1.5	3 A	LKALINITY	RATID	: NA	В	ASICITY IND	EX: 3.64
20-K20-S102 :	9	1	90		K2D/NA2	0: .1	5 6	LKALI IND	EX	:13.09	SOLIDIF	ICATION IND	
0/NA20+K20 :		1 6 1	-									SHIMOTO IND	
39400 L 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							11					ARCOTTE IND	
**** NORMATIVE	MINERALS -	LISTIN	G ****	f #							-		
JARTZ : 19	7.3		:		MAGNET	ITE :	. 63	HALIT	E	1		* WOLLASTO	DP):
					HEMATT			FLUOR	TTE			* ENSTATIT	DP):
THOCLASE 6.	22	NA-MEILT	CATE:	F 14	II MENT	TE :	.48	THEN	RDITE	:		* FERROSIL	DP):
BITE : 58.	96	K-MSILIC	ATE :		SPHENE			PYRIT	E	- -		* ENSTATIT	
ORTHITE : 8.	55	K-MSILIC WOLLASTO	NITE	1.1		KITE :			ITE				
		DIOPSIDE			RUTILE	or at will be a second on the s		ZIRCO	N			* FERROSIL (	OL):
EUCITE :		HYPERSTH			FLUORA	PATITE:	. 11	CALCI	TF	:		* FAYALITE	
ALIOPHILITE:			ENE :	w 1 7 m	, abouth					*: 99.73		1 DINETIE /	Service 2 to
		OLIVINE							FINIUF.		-		
**** NORMATIVE	MINERAL S	RATIO	SAND	NDEYES **									
- AB - AN	8.4	80 11	4	OF THE		. 4 57		TOTAL Y	FLDGBA	25 . 7	73		
TZ-ORTH-PLAG :	20.7	4.7 72 4	Lt	YSTALL 174	TION INDE	X: 10 P1		TOTAL % F	LACTOC	ASES. 7	51		
JAMES LENG :	20.7	/2.0			ATION INDE			PLAGIOCLA					
				or concerning	THE THE	A. 00.2		. LAGIOGEA	THU		1.5		
RITTMAN VALUES	*								11 41-1				
**** MOLE NUMBE									*****	PITMON	VALUES *		
: 1.173 F				725	0	02 6		0	CT -	70 40	CA :	0 4	N :
	1G : .03	20 V		022 N	1N :	0 47	104.	01	OI :	14 22	ALK :	11.5	ny .
	A : .03	TT AS		.003	002 :	0 H2					K :		
	an 1 10.	77 11			ة غلام	V n2		.01	1.15	4.04	r :	4 V 7	
**** GAINS AND	LOSSES BY	COMPARTS	ON TO T	HE AVERAG	SER OF THE	ARITIRI	VOI CANTO	e (DESCA	REALLY	19771	MMMAN		C I S Designation
IS SAMPLE NA	20 + 4 07	V20-	1 OK	MGD -	I T	METITEL	VOLUMNIL	DESCH	INCHUX,	17/3/ *			
RMAL VALUE	20 1 0.77	7201	1 41	HOU 1	0.8	4 45	57						
IN OR LOSS	2.27	等"可引展·2013年	35		.09	PRIMPITY	-	water control of the					and the management
114 UK LU33	4.21				. 07	LUTOKTIA	ā						
**** LITHONAMES	(TE UNIT	CANTE POC	V1	C.M.M.									
DOMAL D. MATERINA	MACHATTO	TOTED- O	INAL MAL	APIG 10	TVDE	TEL IN MANE						7	
VINE-BARAGAR NA	ALCOHOL: 1712 S	PLITED 9	THIN THE	-ATTE	STILL BE	TELL MAME	- 8	4.4					
UTNE-DADAGAD WA	DMAYTO OF	A PERSONAL PROPERTY.											

CLIENT: LAPAUSE SURFACE DATA FILE: 10:13:09AM 17 MAY 87

DISCLAIMER : THE	SURFACE OWNER OF T	DI THE FROGR	ATA FILE :	RESPONSIBL	E FOR AN	Y PROBLE	MS OR ER	RROKS TI	HAT MAY	ARTSE F	ROM TE	10:13:09AM E USE OF TI		MAY 87 TA.
****** REFERENCE	DATA ****	**		e and								RECO	RD NO. :	31664
AUTHOR: LAPAUSE ? PROVINCE : GEOL.AGE :	YEAR	R : 1987	REFERE	NCE : LAPA	NUSE							SAMPLE !	NO z 🔤	TOTAS:
PROVINCE :	TOWNSHIP :			- to the second		N	TS SHEET	T		LONG.		LA	T - 3	
			U	TM ZONE :	UTI	4 SQ. IDE	NT.:	UTM I	EAST :			UTM NORTH	1	
SEDL.AGE :	GEDL. FROV.	. :	GEOL. ENV	IRONMENT :						ROCK	TYPE :	ROD	NAME	*
CONTEXT:		SIRALI	GRAFHY :		1	MAGMATIC	SERIES		SPEC.	GRAYITY	.1			
DESCRIPTION :														
T T				A										
***** ORIGINAL D			EMENTS ***	***			in a decrease of the con-		and the same in the					
5102 : 70.00	CAO : 7	2.12	MND : O	.02 8	3 2						PB:		ZN:	
AL203: 16.30	NA20 : 5	5.98	LOI : 2	.10 P	4G :		L z		HG :		SN:			
AL203: 16.30 FE203: 1.79	K20 :	1.79	CO2 :	£	45 :	C	: O:		LI:		SF( :			
FEO :	T102 : (	0.23	H20.P:	P	4U 1		R		MO :		V :			
FEO : MGO : 1.15	P205 : (	0.09	H20.M:	P	3A :	C	Ui		NI :		₩ :			
	12.1								and the second					
	* * * *	* * * *	* * * * *	* * * C A	FCOF	ATIO	N S * +	* * * *	* * *	* * * *	* 4 *	*		
										4000		4		
***** NORMALIZED	DXIDES (	YRITE RE	MUVED IF 5	ULFUR, INU	IN AS 20%	1 E203 A	MUC BOY	EU, DK	Y, IUIF	C=100%)	17	•		
SIO2 : 70.47	MC2031 10	1. 计算系统	FEZUSE	00	EU I		MNO :	1.10	The second	0 1 2	110			
NA20 1 6.02	720		1102	423 P	205 :	.07	MINO 1	02	4					
***** OXIDES	BATTOS AND	D INDEXES		-									-	
****** 0x1Des A-F-M : NA20-K20-S102 :	73 5 11	5 4 10	9	FED (TOTA	A TAMBO .	1 Δ	AL IA	CALINIT	V RATIC	. NA		RASICITY	INDEX :	3.31
NA20-M20-6102 -	73.5	2.0	90	1 20 (1016	20/8020 :	7.7	AL I	CALT IN	DEX	123 02	SOLIT	TETCATION	INDEX :	10.94
K20/NA20+K20 :	23		7.7		.D/ MHZO .			FEI ST	C INDEX	1 78 5	Q JULIAN	HASHIMOTO	INDEX :	26.64
NZU/NHZUTKZD I	363											MARCOTTE		
	Y53+3							INFTO I	ADEA	130.07		THICOTTC	2110CN .	1.07
***** NORMATIVE	MINERALS .	LISTIN	G *****											
				Þ	AGNETITE		52	HALI	TE	1		* WOLLAS * ENSTAT * FERROS * ENSTAT	TO(DP):	
QUARTZ : 21. CORUNDUM : .	89	CA-SILIC	ATF :	į.	FMATITE		-	FLUO	RITE	1		* ENSTAT	IT (DP):	
ORTHODIASE . 10	LA	NA-MSTI T	CATE	· · · · · · · · · · · · · · · · · · ·	LMENITE SPHENE PEROVSKITI		43	THEN	ARDITE			* FERROS	IL (DF);	
ALBITE : 50.	94	K-MSILIC	ATE :	g	SPHENE			PYRI	TE	1		* ENSTAT	IT (HP):	2.88
ALBITE : 50. ANDRTHITE : 9.	99	WOLLASTO	NITE:	F	PEROVSKIT	E :		CHRO	MITE	2		* FERROS	IL(HP):	1.74
LEUCITE :		DIOPSIDE	:	F	RUTILE	:		ZIRC	DN	:		* FORSTE	RS (OL):	
NEFHELITE :		HYPERSTH	ENE : 4.6	.2 F	RUTILE LUORAPAT	ITE: .	07	CALC	ITE	:		* FAYALI	TE (OL):	
KALIOPHILITE:			:					****	*: TOTAL	*: 99.8	2			
	eller gar											* WOLLAS * ENSTAT * FERROS * ENSTAT * FERROS * FORSTE * FAYALI		
***** NORMATIVE	MINERALS	RATIO	S AND INDE	XES *****	ł.									
OR - AB - AN 1	14.9 7	1.2 1	4 COLOR											
QRTZ-DRTH-PLAG :	23.3 1	1.4 65.3	CRYST	ALLIZATION	4 INDEX:	12.01	Τŧ	DTAL %	PLAGIO	LASES:	0.93			
			DIFFE	RENTIATION	4 INDEX:	62,47	Pt	LAGIOCL	ASE IND	EX :	16			
* RITTMAN VALUES														
ARREST MOVE TO MUNICIPAL PROPERTY AND ARREST ARREST AND ARREST ARREST AND ARREST AND ARREST A	RS *****								****	RITMAN	VALUES	5 *****		
		18 NA	: .194	P :	.001	S	1	0	SI :	70.47	CA	: -1	AN :	
SI : 1.173 F	1G : . 0:	29 K	: .038	MN z	0	H20+	.000	1	AL :	14.76	ALK	: 10.83		
SI : 1.173 F AL : .322 M		38 TI	: .003	C02 :	. 0	H20-	-: .000	1	FM :	2.33	K	: .16		
SI : 1.173 F AL : .322 M	CA : .03													
SI : 1.173 F AL : .322 M FE+3: .005 C							COTTION I	INCCCA	DDEALIY	10771				
SI : 1.173 F AL : .322 M FE+3: .005 C	LOSSES BY	COMPARIS	ION TO THE	AVERAGES C	OF THE AB	ILIBI AC	CTHMITTE	IDEACH	INCHES !	14/31	*****			
SI : 1.173 F AL : .322 M FE+3: .005 C	LOSSES BY	1/20·	I R MGD	1.16		ITIBI V	CLANICS	(DESCH	THE HOX	1473)	*****			
SI : 1.173 F AL : .322 M FE+3: .005 C ****** GAINS AND. THIS SAMPLE NA	LOSSES BY 420 1, 6.02	K20:	1.8 MGC 1.4	1.16			ALIANI LS	(DESCH	MEHDA ,	14737	*****			
SI : 1.173 F AL : .322 M FE+3: .005 C ****** GAINS AND. THIS SAMPLE NA	LOSSES BY	K20:	I R MGD	1.16			R.LANTUS	(DESCH	· · · · · · · · · · · · · · · · · · ·	1473)	****			·. '
SI : 1.173 F AL : .322 M FE+3: .005 C ******* GAINS AND. THIS SAMPLE NA NORMAL VALUE GAIN OR LOSS	LOSSES BY 420 1, 6.02 4,7 1.32	K20:	1.8 MG0 1.4	1.16			ALLANTUS	(DESCH		1473)	*****			
\$1 : 1.173	LOSSES BY 4.7 1.32	K20:	1.8 HG0 1.4 .4	1.03	PRI	ORITY:	4			1473)	*****			
SI: 1.173 F AL: .322 M FE+3: .005 C ****** GAINS AND. THIS SAMPLE NA NORMAL VALUE GAIN OR LOSS ****** LITHONAMES MCDONALD-KATSURA	LOSSES BY 4,7 1.32 6 (IF VOLC	K20: CANIC ROC	1.8 MGC 1.4 .4 .K) ******	1.16 1.03 05	PRI	ORITY:			, , , , , , , , , , , , , , , , , , ,	17/3/	*****			
\$1 : 1.173	LOSSES BY A20 1, 6.02 4.7 1.32 6 (1F VOLC MAGNATIC SE	K20: CANIC ROC SERIES: S	1.8 MG0 1.4 .4 .K) ******	1.16 1.03 05	PRI	ORITY : D NAME : Y SIO2 :	RHYDET	TE	, , , , , , , , , , , , , , , , , , ,	17/3/	*****	71 <b>.</b> 6		

**** REFERENCE											RECORD NO.	
THOR: LAPAUSE			REFEREN	NCE : LAPA	AUSE						SAMPLE NO :	THE CHARLES
OVINCE :	TOWNSHI	1.1		file and a second of the second of			HEET :		LONG. :		LAT. :	
			U	TM ZONE :		SQ. IDENT.:	UTM EA	AST :		UTM	NORTH:	
OL.AGE :		ov. :							ROCK T	YPE :	ROCK NAME	1
NTEXT :		STRATI	IGRAPHY :	THE MAN PERSON ASSESSMENT OF THE PARTY OF TH	MA	AGMATIC, SERI	ES :	SPEC. GF	RAVITY_;			
SCRIPTION :												
	1 - 1 A	11 1 1 Un	25									
**** DRIGINAL				HAK. DE	and the State of the same	Market School Control	رائز الله الله الله الله الله الله الله الل		allee			- Cartill - H
02 : 40.50	CAO :		MND : 0.		3 1	BI:		- I		PB:	ZN	:
205: 7.61	NA20 :		LOI : 18.	.10	4G :	CL :		4G :		SN:		
203: 10.70	K20 :		CO2 :		95.:			_I:		SR:		
0 :	T102 :		H20, Pt	· · · · · · · · · ·	au : UF	CR ±,	,	40 : OM		٧ :		
0 : 12.30	P205 1	0.10	H20. Ms	86. E	3A :	CU :	1	I IV		W :		
					mental common and control of the con-		artinian hadan hadin					
	* * -	* * * * * *	* * * * * *	* * * C A	ALCULA	TIONS	* * * * *	* * * *	* * * *	* * *		
*** NORMALIZE	D DXIDES	(PYRITE RE	EMOVED IF SI	ULFUR, IRC	ON AS 20% F	E203 AND B0	% FEO. DRY	. TOTAL:	=100%) *	****		
2 : 49.49	AL2031	9.3	FE2031 2.	61 F	ED 1 9.4	MOD MOD	1 15.03					
0: .04	K20	. 59	T102 :	67 F	205 : .1	2 MNO	28					
	THE RESERVE											
*** OXIDES												
-M :	2.28	43.42 54	4.3	FEO (TOTA	AL)/MGO:	.78	ALKALINITY	RATIO :	1.06	BA	SICITY INDEX	: 25.77
0-K20-SIO2 :	0	1	99	K2	20/NA20:	14.75				SOLIDIFI	CATION INDEX	: 54.82
/NA20+K20 :					Service and Contact Contact of		FELSIC	INDEX	4.81	HAS	HIMOTO INDEX	: 55.55
	-172						MAFIC IN	DEX	: 44.44	MA	RCOTTE INDEX	: 2
	1						1-12-2					
*** NORMATIVE	MINERAL	S LISTIN										
ARTZ :		ACMITE	2	h	1AGNETITE	: 3.78	HALITE	Ε :	:	4	WOLLASTO (DP	): 15.68
RUNDUM :		CA-SILIC	CATE :		HEMATITE	:	FLUOR	ITE	:		ENSTATIT (DP	1: 10.46
HOCLASE : 3	. 46		ICATE:		LMENITE	: 1.27	THENA	RDITE	:	-	FERROSIL (DP	): 4.06
BITE :	.31	W MOST TO	DATE:		SPHENE	:	PYRIT	E	:	-	ENSTATIT (HP	): 26.33
RTHITE : 23	. 47	WOLLAST	ONITE:	F	PEROVSKITE	:	CHROM	ITE :	:		FORSTERS (OL	): 10.23
JCITE :		DIOPSIDE	: 30.0	2 F	RUTILE	2	ZIRCO	N	1	4	FORSTERS (OL	): .44
HELITE :		HYPERSTE	E : 30.2 HENE : 36.58	5 F	LUDRAPATIT	TE: .09	CALCI	TE :	:		FAYALITE (OL	
			: .6.			and the second	****	TOTAL*				
.IOPHILITE:							STREET ST. St. ST.		the Case of the			
IOPHILITE:			and the second second	VED W	<b>F</b>							
The second secon	E MINERA	S BATTE	IS AND INDE									
*** NORMATIV					. 7	72.44	TOTAL % FI	FLDSPAR	s • 7.	24		
*** NORMATIV	12.7	1.1 86.	2 COLOR	INDEX	I INDEX: A	72.44	TOTAL % FI	ELDSPARS	S : 7.	24		
*** NORMATIV	12.7	1.1 86.	2 COLOR	INDEX	N INDEX: 6	72.44 54.93	TOTAL % FI	ELDSPARS LAGIOCLA	S : 7. ASES: 3.	78 99		
*** NORMATIV	12.7	1.1 86.	2 COLOR	INDEX	N INDEX: 6	72.44 54.93 3.77	TOTAL % FI TOTAL % PI PLAGIOCLAS	ELDSPARS LAGIDOLA SE INDE	S : 7. ASES: 3. X :	24 78 99		
*** NORMATIV - AB - AN : Z-ORTH-PLAG :	12.7	1.1 86.	2 COLOR	INDEX	N INDEX: 6	72.44 54.93 3.77	TOTAL % FI TOTAL % FI PLAGIOCLAS	ELDSPARS LAGIOCLA SE INDE	S : 7. ASES: 3. X :	78 79		
*** NORMATIV - AB - AN : Z-ORTH-PLAG :	12.7	1.1 86. 12.7 87.3	2 COLOR	INDEX	N INDEX: 6	72.44 54.93 3.77	TOTAL % PLAGIOCLAS	LAGIOCLA SE INDE	ASES: 3. X :	78 97	· * * * *	
*** NORMATIV - AB - AN : Z-ORTH-PLAG : RITTMAN VALUES *** MOLE NUMB	12.7 0 * ERS ****	1.1 86. 12.7 87.3	2 COLOR 3 CRYSTA DIFFER	INDEX ALLIZATION RENTIATION	N INDEX: 6	54.93 3.77	TOTAL % PLAGIOCLAS	LAGIOCLA SE INDE:	ASES: 3. X : RITMAN V	78 97 /ALUES **		
*** NORMATIV - AB - AN : 72-ORTH-PLAG : RITTMAN VALUES *** MOLE NUMB : .824	12.7 0 * ERS ****	1.1 86. 12.7 87.3	CRYSTA DIFFEA	INDEX ALLIZATION RENTIATION	N INDEX: 6	54.93 3.77 5 :	TOTAL % PI PLAGIOCLAS	LAGIOCLA SE INDE: *****   SI : 4	ASES: 3. X : RITMAN V	78 99 /ALUES **	7 AN	
*** NORMATIV - AB - AN : Z-ORTH-PLAG : RITTMAN VALUES *** MOLE NUMB : .824 : .182	12.7 0 * ERS **** FE+2: MG :	1.1 86. 12.7 87.3 ** .131 N6 .373 K	2 COLOR 3 CRYSTA DIFFER 4 : .001 : .013	INDEX_ALLIZATION RENTIATION PRENTIATION MN :	N INDEX: 6 N INDEX:	54.93 3.77 5 : H20+: .(	TOTAL % PI PLAGIDCLAS 0 0001	LAGIBOLA SE INDE: *****   SI : 4°	ASES: 3. X : RITMAN \ <b>9.49</b> 8.37	78 99 VALUES ** CA : ALK :	7 AN	
*** NORMATIV - AB - AN : 7-ORTH-PLAG : RITTMAN VALUES *** MOLE NUMB : .824 : .182	12.7 0 * ERS ****	1.1 86. 12.7 87.3 ** .131 N6 .373 K	CRYSTA DIFFEA	INDEX_ALLIZATION RENTIATION PRENTIATION PRENTIATION	N INDEX: 6 N INDEX:	54.93 3.77 5 :	TOTAL % PI PLAGIDCLAS 0 0001	LAGIBOLA SE INDE: *****   SI : 4°	ASES: 3. X : RITMAN \ <b>9.49</b> 8.37	78 99 /ALUES **	7 AN	
**** NORMATIV - AB - AN : 77-ORTH-PLAG : RITTMAN VALUES **** MOLE NUMB : .824 : .182 3: .033	12.7 0 * ERS **** FE+2: MG : CA :	*** 1.1 86. 12.7 87.3  *** .131 NA .373 K .222 TI	2 COLOR 3 CRYSTE DIFFER 4 : .001 : .013 I : .008	INDEX ALLIZATION RENTIATION MN : CD2 :	N INDEX: 6 N INDEX: 6 .002004 0	54.93 3.77 5 : H20+: .0	PLAGIDCLAS	#####   SE INDE: #####   SI : 4° AL : 8 FM : 3°	ASES: 3. X : RITMAN \ <b>9.49</b> 8.37 0.19	78 99 VALUES ** CA : ALK : K :	7 AN	
NORMATIV - AB - AN 1 7-ORTH-PLAG: RITTMAN VALUES **** MOLE NUMB : .824 : .182 3: .033 **** GAINS AND	12.7 0 # ERS **** FE+2: MG : CA :	** 1.1 86. 12.7 87.3  ** .131 NA .373 K .222 TI  BY COMPARIS	2 COLOR 3 CRYSTA DIFFER 4 : .001 : .013 I : .008	INDEX ALLIZATION RENTIATION MN : CO2 :	N INDEX: 6 N INDEX: 6 .002004 0	54.93 3.77 5 : H20+: .0	PLAGIDCLAS	#####   SE INDE: #####   SI : 4° AL : 8 FM : 3°	ASES: 3. X : RITMAN \ <b>9.49</b> 8.37 0.19	78 99 VALUES ** CA : ALK : K :	7 AN	
*** NORMATIV - AB - AN 1 72-ORTH-PLAG: RITTMAN VALUES *** MOLE NUMB : .824 : .182 3: .033 **** GAINS AND S SAMPLE N	12.7 0 ** ERS **** FE+2: MG : CA :	** .131 NA .373 K .222 TI BY COMPARIS 04 K20:	2 COLOR 3 CRYSTI DIFFER 4 : .001 : .013 I : .008 SON TO THE #	INDEX ALLIZATION RENTIATION MN : CO2 : AVERAGES ( 15.03	N INDEX: 6 N INDEX: 6 .002 : .004 : 0	54.93 3.77 5 : H20+: .0	PLAGIDCLAS	LAGIOCLA SE INDE: *****   SI : 4° AL : 8 FM : 3°	ASES: 3. X : RITMAN \ <b>9.49</b> 8.37 0.19	78 99 VALUES ** CA : ALK : K :	7 AN	
*** NORMATIV - AB - AN : Z-ORTH-PLAG : RITTMAN VALUES *** MOLE NUMB : .824 : .182 3: .033 *** GAINS AND S SAMPLE N	* * * * * * * * * * * * * * * * * * *	** .131 N6 .272 T1  BY COMPARIS 04 K20:	2 COLOR 3 CRYSTI DIFFER 4 : .001 1 : .013 1 : .008 SDN TO THE 4 .59 MGD	INDEX ALLIZATION RENTIATION MN : CO2 : AVERAGES ( : 18.03 7.15	N INDEX: 6 N INDEX: 0002 0004 000F THE ABIT	54.93 3.77 S ; H20+: .6 H20-: .6	PLAGIDCLAS	LAGIOCLA SE INDE: *****   SI : 4° AL : 8 FM : 3°	ASES: 3. X : RITMAN \ <b>9.49</b> 8.37 0.19	78 99 VALUES ** CA : ALK : K :	7 AN	
*** NORMATIV - AB - AN : Z-ORTH-PLAG : RITTMAN VALUES *** MOLE NUMB : .824 : .182 3: .033 *** GAINS AND S SAMPLE N	12.7 0 ** ERS **** FE+2: MG : CA :	** .131 N6 .272 T1  BY COMPARIS 04 K20:	2 COLOR 3 CRYSTI DIFFER 4 : .001 : .013 I : .008 SON TO THE #	INDEX ALLIZATION RENTIATION MN : CO2 : AVERAGES ( 15.03	N INDEX: 6 N INDEX: 0002 0004 000F THE ABIT	54.93 3.77 5 : H20+: .0	PLAGIDCLAS	LAGIOCLA SE INDE: *****   SI : 4° AL : 8 FM : 3°	ASES: 3. X : RITMAN \ <b>9.49</b> 8.37 0.19	78 99 VALUES ** CA : ALK : K :	7 AN	
NORMATIV - AB - AN : 77-ORTH-PLAG : RITTMAN VALUES **** MOLE NUMB : .824 : .182 : .033 **** GAINS AND S SAMPLE N RMAL VALUE IN OR LOSS	# ERS **** FE+2: MG : CA : LUSSES : A20 :	** 1.1 86. 12.7 87.3  *** .131 NA .373 K .222 TI BY COMPARIS 04 K20: 67	2 COLOR 3 CRYSTE DIFFEE 4 : .001 1 : .008 SON TO THE # .59 MGO .24	P MN CO2:	N INDEX: 6 N INDEX: 60020040 PRIOR	54.93 3.77 5 : H20+: .( H20-: .(	TOTAL % PI PLAGIDCLAS 0 0001 00001 1	*****   SI : 4' AL : 1 FM : 30	ASES: 3. X : RITMAN \ <b>9.49</b> 8.37 0.19	78 99 VALUES ** CA : ALK : K :	7 AN	
3: .033  **** GAINS AND IS SAMPLE N MAL VALUE IN DR LOSS  **** LITHONAME	12.7 0 ** ERS **** FE+2: MG: CA: LUSSES: A20:	** 1.1 86. 12.7 87.3  *** 131 N6. 373 K222 T1  BY COMPARIS 04 K20: 67  64  DLCANIC ROC	2 COLOR 3 CRYSTI DIFFER 4 : .001 : .013 I : .008 SON TO THE 4 .59 MGO .24 .35	P MN CO2:	N INDEX: 6 N INDEX: 60020040 PRIOR	54.93 3.77 5 : H20+: .( H20-: .(	TOTAL % PI PLAGIDCLAS 0 0001 00001 1	*****   SI : 4' AL : 1 FM : 30	ASES: 3. X : RITMAN \ <b>9.49</b> 8.37 0.19	78 99 VALUES ** CA : ALK : K :	7 AN	.:
*** NORMATIV - AB - AN : Z-ORTH-PLAG :  RITTMAN VALUES  *** MOLE NUMB : .824 : .182 3: .033  *** GAINS AND S SAMPLE N MAL VALUE N OR LOSS	* * * * * * * * * * * * * * * * * * *	** .131 NA .272 TI BY COMPARIS 04 K20: 57 64  DLCANIC ROC DERRES: 8	2 COLOR 3 CRYSTI DIFFEF 4 : .001 : .013 I : .008 SON TO THE # .59 MGD .24 .35 CK) ******	P MN CO2:	N INDEX: 6 N INDEX: 60020040 PRIOR	54.93 3.77 S ; H20+: .6 H20-: .6	TOTAL % PI PLAGIDCLAS 0 0001 00001 1	*****   SI : 4' AL : 1 FM : 30	ASES: 3. X : RITMAN \ <b>9.49</b> 8.37 0.19	78 99 VALUES ** CA : ALK : K :	7 AN	

**** REFERENCE				-									RECO	RD NO. :	31666
JTHOR: LAPAUSE	Y	EAR 1 19	787 R	EFERENC	CE I LAPA	USE							SAMPLE	NO 's 📠	2103615
ROVINCE :	TOWNSHI	P			menteriorist man				ET :				LA	T i	
					M ZONE :	U i	M SQ. ID	ENT.:	UTM				JTM NORTH		
DL.AGE :	GEOL. PR	nv. :	GE OL	. ENVIE	ROMMENT :						ROCK	TYPE :	ROD	NAME.	*
NTEXT:		SIF	RATIGRAPH	Y:	annealth and the day		MAGMATI	CLSEBIE	5	SPEC.	GRAVITY.	£			the second secon
SCRIPTION :	7 . 25		17.5												
		4.1	- 1.98 <b>6</b> - 1											1 W	
**** ORIGINAL	OXIDES A	ND TRACE	ELEMENT	8: ****	f#		The state of the same	ور رئیسی بارکید		de la competition de					
02 : 67.30		2.30		: 0.0	)4 5			BI:		F :		PB:		ZN:	
203: 15.00			LOI			G :		CL:		HG :		SN:			
203: 2.49	K20 :	0.54	C02		- A	S :		CD ;		LI:		SR:			
: 0	T102 :	0.29	H20.	Pı	Α	U :		CR s		MO :		V z			
0 : 1.88	P205 :	0,15	H20.		В	A : S		CU:		NI		. W z			
	The A														
	* *	* * * *	* * * *	* * * 7	***68		. A I I	U N 5 *	* * * *	* * * *	* * * *	* * * * *			
**** NORMALIZE	D OXIDES	(PYRITE	E REMOVED	IF SUL	FUR, IRD	N AS 20%	FE203	AND BO%	FEO. DR	RY. TOTA	L=100%)	*****			
02 : <b>69,57</b> 20 : <b>7.18</b>	#L2031	15.51	FE20	31	51 F	EO 1	.85	MGO	1 1.94	CA	D 1 2.	. 38			
20: 7.18	5 K20 1	. 56	T102		.3 1 P	205 :	. 16	MNO	. 04	1					
	1.4	Market Salva	My Janes	27-2 Yes 4 5	7.7		Lineier								4141
**** OXIDES															
F-M : (	64.29	19.6	16.11		FEO (TOTA				LKALINIT	Y RATIO	: NA		BASICITY		
ZU-KZU-510Z !		1	90		K2	0/NA20 :	,08	<u>. A</u>	LKALI IN	NDEX	:7.24	SOLID	FICATION	INDEX :	16.18
7/NA20+K20 1	.07	1 17											HASHIMOTO		
		4 77 4											MARCOTTE	INDEX :	-2.2
AND MATTIES	MATA 155 01	7	OTT.10		minimum or or or				The state of						
**** NORMATIVE ARTZ : 17			STING ***		_	AGNETITE		7.6	LIAL Y	TE .			* WOLLAS	TO (DO) -	00
RUNDUM :	. 43		ILICATE :							RITE	*		* WULLAS		
TUDOLAGE . T	20 10 10 10	THE SALA ME	ELICHIE :			LMENITE			THE	MAILE			* FERROS	TI (DE)	70
THOCLASE : 3 BITE : 60 DRTHITE : 8	70	V_MC	TI TOATE .			CHENTIE		. 50	PYRI	ARDITE			* ENSTAT		
DRTHITE . B	At . Wit	MOLL C	ARTONITE		6	FROUGETT	F :		- CHING	****					
UCITE :	4.44	DIOP	SIDE :	1.92		HITTLE			7180	CON			* FERROS	RS (OL):	
CUCITE :		HYPEI	SIDE :	6.46	F	LUORAPAT	TITE:	. 12	CALC	ITE			* FAYALI		
LIOPHILITE:			INE :			LOCKII A				*: TOTAL	-			12 1027	
LIGHTILLICE		UL I V	-												
*** NORMATIV	F MINERA	4.8 R	ATTOS AND	INDEXE	ES *****										
- AB - AN 1	4.5	83.9	11.6	COLOR 1	INDEX		9.68		TOTAL %	FELDSPA	RS : :	2.49			
TZ-ORTH-PLAG :	19.4	3.7	77	CRYSTAL	LLIZATION	INDEX:	12.67		TOTAL %	PLAGICO	LASES:	69.2			
				DIFFERE	ENTIATION	INDEX:	64.08	3	PLAGIOCL	ASE IND	EX :	12			
RITTMAN VALUES	*										-				
*** MOLE NUMBI	ERS ****	**									RITMAN				
: 1.158	FE+2;	-026	NA :	. 232	P :	.002	S		0	SI :	69.57	CA	. 0	AN :	
	MG :	.048	к :	.012		.001	H20	+: .00	01	AL t	13.95	ALK	: 11.33		
		.042	TI:	.004	CO2 :	0	H20	-: .00	01	FM t	3.9				
: .304															
: .304   +3: .006	the said has not not to						BITIBI V	OLCANIC	S (DESCA	ARREAUX,	1973)	****			
: .304   +3: .006   **** BAINS AND		18 K20	D: .56	MGO	1 1.94					1					
: .304   +3: .006   **** BAINS AND IS SAMPLE N	A20 : 7.		. 4 77	1.18-5 . 5	1.17				The second secon		disease.				
: .304   +3: .006   **** BAINS AND IS SAMPLE N		.7	1,00				COPTION.								
: .304   +3: .006   **** BAINS AND IS SAMPLE N	A20 : 7.	. 7 48	77		. 59	FRI	TORITY :								
: .304   +3: .006   **** BAINS AND IS SAMPLE NO RMAL VALUE	A20 : 7.	.7	77		. 59	FRI	IURITY :								
: .304	A20 : 7. 4 2. S (IF V	.7 48 OLCANIC	~.77 ROCK) **	****	. 59										
: .304   +3: .006   **** GAINS AND IS SAMPLE N RMAL VALUE IN OR LOSS	A20 : 7. 4 2. S (IF V	.7 48 OLCANIC C SERIE	77 ROCK) ** 8: SUBALK	****	.59 TYP ROC BAR E JEN	E & FIEL	D NAME		7.						

	-																		
**** REF	ERENCE	DATA *	****	#	·													RD NO. 1	
UTHORE LA	PAUSE :	4.5	YEAR	1 19	87	REF	FERENC	E : LAP	AUSE							5	SAMPLE	NO : 👊	EN CLUB CAT
ROVINCE ;		TOWNSH	IIP :		3.70						NTS S	HEET 1		LONG			LA	T. 1	
							UTM	ZONE :	t	JTM SQ.	IDENT .:		UTM EAST			UTM	NORTH	:	
EOL. AGE :		GEOL . F	ROV.	2	G			ONMENT										K NAME	:
ONTEXT:										MAGM	ATIC SEE	TES :	SPEC				1100		
ESCRIPTIO			-				-			, 111, 1511 11		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		F WE 1. M. M.					17.
			- 11,	2 4-5	43.7		5 1004												
**** ORI	STNAL (	TYTRE	AND.	TRACE	EI EN	DITE	Make 4	*										1	
02 : 39.					M	VO I	0.0		S :		BT -		E .		PR			ZN :	
203: 14.		NA20			1.7	77 (	9.0	ió.	AG :		BI:		F :		PB			2.17	
203: 13.							7.0		AS:		CO:		LI.		SA				
2031 13.1	30	7700	-	1/6	-1.3.5.1.1	20 0			AU :		CR :		MO						
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30 1 17.		P205	2 0	.10	2 1	cu.ni	11		BA:		cu :		NI I			2			
	3811					-			0.1.0.11		T 0 N 0				-	107-10			1.11.4
		* *	* * *	* *	* * *	* *	* * *	* * .	ALLU	LAI	TONE	* * *	* * * * *		* * *	* *			
**** NUK	1AL I ZEI	DATTE	5 (P	YRITE	KEMU	/ED ]	IF SUL	FUR. IR	UN AS 2	0% FE20	13 AND E	O% FEU	DRY TO	IAL=100	%) ****	H##			Term (444-1)
02 1 44.	15	AL 201	15 16	.74		203	2.0	7	FEO :	11.08	MGC	1 19	. 23	GAU 4	2.58				
20 :	12	K20	2 1	. 75	。 <b>使</b> 图4	102		610	P205 :	. 17	MNE	1	.1			1			
	- A	7 7 7 1 8 3	S. Financia		10 mg	2011	Later Inches		-						حديثت الما				
**** OXI	DES	RATIOS	AND	INDE	XES *	***	•												
-F-M	:	5.6	40.	02	54.38			FEO (TOT	AL)/MGO	:	.72	ALKAL	INITY RAT	IO : 1.	23			INDEX :	
120-K20-S	102 :	0		4	96			K	20/NA20	:	65	ALKAL	I INDEX	: 98.	48 SOL				
20/NA20+K	20 1	. 98	-	marine.	102-4-1	Ya. 1 -						F	ELSIC INDEX	EX : 43	. 42	HASH	OTOMIN	INDEX :	89.03
A STATE OF				1811-3	13.							MAF	IC INDEX	:42.	39	MAF	ROOTTE	INDEX :	5.36
7.5			117	4-1-53	Ex									and the second					
**** NOR	MATIVE	MINER	LS -	- LIS	TING	****	**												
JARTZ					E				MAGNETI	TE :	4.45		HALITE	2		*	WOLLAS	TO (DP):	
DRUNDUM		. 29			LICAT				HEMATIT				FLUORITE			- 4	ENSTAT	IT (DP):	
RTHOCLASE			1	NA-MS	TLICA	TE:			TI MENITTI		1 17		THENARDIT				FERROS	IL (DP):	35.68
BITE	1.00	28		K-MST	LICAT				SPHENE PEROVSK				PYRITE			*	ENSTAT	IT (HP)	35.48
NORTHITE					STONE				PEROVSK	ITE .			CHROMITE			- 4	FERROS	TL (HP)	12-66
EUCITE				DIOPS	IDE	1 100	***************************************		BUTTLE				ZIRCON				FORSTE	RS (OL) :	12.66 8.53 3.34
EPHELITE				HADEE	CTHEN	= : /	10 34		RUTILE FLUORAP	ATTTE.	17		CALCITE	:			FAVAL T	TE (OL)	3.34
ALIOPHILI				DI TUT	NE	- : -	11 0		LOOKALI	11111	.15		****: TOT		40	-	· mint	12 1007	. 0.01
LIDENILI	i Ei			DLIVI	INC		11.7					-	***** 1011	HL72 77	. 07				
**** NO	DHATTIN	-	101.0	700	TYOR		INFER												
ARAR NU	ALIM I TAE	TILNER	HLD	T- KH	40.0	HAD 1	NUE AE	NOTY	*		22	TOTA	L % FELDS	DARC	T 45				
RTZ-DRTH-	DI AC	**7		40	47.0	CL	DUCTAL	LIZATIO	NI THISTY	. AE	22	TOTA	L % PLACE	CHUS	- 1 0/				
TIZ-UKIM-	-LHG :	· ·	,	47	21	C.	TECEDE	LIZHIIU	IN INDEX	43.	22	DIAC	L % PLAGI	DULHSES	: 1.70	20			
						וע	FLEEVE	NITHIT	NA THIEX	22	.00	FLHG	IUCCHSE I	NDE X		76			
DITTMAN	HALLER																		
RITTMAN																·===			
**** 'MOLI								_		_			****	** RITM	AN VALL	JES ***	***		
3 .7					NA .	1	001		: .00:	2	5	. 0	SI	44.45	CF	4 .	-6	AN :	
		46 :					041	MN	: .00	1 1	120+: .	0001	AL FM	: 15.06	AL	_K :	1.99		
	<b>ರ</b> (	CA :	. 04	.6	TI		.008	C02	:	0	H2O-: .	0001	FM	: 38.61	K	:	. 97		
				A			One dates											17,000	
E+3: .03	AR DAND									ARITIB	I VOLCAN	ITCE (D	ESCARREAU	x, 1973	) ####	F#			
: .32 E+3: .03		120 :	.03	K20	11 1.	75	MGO :	19.23				3	di di						
E+3: .03	F N		.96			15		9.51					- L						
+3: .03 +**** BAII HIS SAMPLI DRMAL VAL	E N				1.	31		9.25	PI	RIORIT	Y :								
+3: .03  +*** BAI  HIS SAMPLI  DRMAL VAL	E N	-1	. 93																
+3: .03  +*** BAI  HIS SAMPL  DRMAL VALI  AIN OR LO	E NA UE SS	-1	1.93																
+3: .03  +*** GAII HIS SAMPLO  RMAL VALIN OR LO	E NY UE SS HONAMES	-1 S (IF	1.93 VOLC		ROCK)						a territoria								
HIS SAMPLIORMAL VAL	E NY UE SS HONAMES	-1 S (IF	VOLC	PPTCC	ROCK)	AL VAL	THE	. TY	PE & FI	ELD NA	ME :	**	1777		W- 10 100				
+3: .03  **** BAII IS SAMPLI RMAL VALI IN OR LO  **** LIT	E NY UE SS HONAMES	-1 S (IF	VOLC	PPTCC	ROCK)	AL VAL	THE	TY	PE & FI	ELD NA	ME : D2 : BAS	BALT			e- 10 0-0 5				

	MANUA HANNE	a for All												DECE		71440
**** REFERENCE	DATA ***	188													IRD NO.:	
JTHOR: LAPAUSE			87 R	EFEREN	ICE I LAF	PAUSE								SAMPLE	NO :	BUTHERN
ROVINCE 1	IDWNSHIP	£		a series				NTS	SHEET	1		LONB. :		UTM NORTH	AT. :	
							UTM SQ	. IDENT.	:	UTM E	AST :			UTM NORTH	:	
	GEOL. PROV				RONMENT									: RO	K NAME	2
INTEXT:		SIF	ATIBRAPH	Y 1			MAGM	ATIC_SE	RIEB :		SPEC. (	RAVITY.	1			
SCRIPTION 4	1		THE THE	1					A 1							
			34	Naza I					94. aliju -				- 45			
**** DRIGINAL D	XIDES AND	TRACE	ELEMENT	B ####	<b>各等</b>			فيات المارات								
102 : 68.40	CAO :	1.72	MNO	: 0.	04	St		BI :		1			PB		ZN:	
203: 15.80	NA20 :			: 2.		AG +		CI +		1	HG :		SN			
203: 3,05	K20 :	0.28	C02	1		AS I		CO:			. I .		SR			
200: 3.05 E0 : 1.14	T102 :	0.29	H20.	Pı.		AU L		CR :			MO x		V			
n . 1.14	P205 t	0.11	H20.	Me		BA I	A	CU I		1.1	VI I		M	4.		
100 200	1000 3791			100												
	and the second second	the same of the same	* * * *	The second second second	* * * C	ALCI	LAT	TON								
						H L 0 0		2 13 14	<b>J</b>							
HARA MODMAL TAER	DYTREC	OVDITE	DEMOVEE	TE 01	CUO TO	DOM AC 2	07 550	מאס יים	00% 650	nev	TOTAL	-10071	****			
**** NORMALIZED	DYIDES	FIRITE	KEMUVEL	IF SU	LPUK. II	CCO HS Z	0 A	DO HIAD	BON PE	J. DAI	- TOTAL	-100//	74			
02 1 07.30	MEZUSI	0.02	PEZU	3	04	POOT I	2.23	nu	0 .	1.10	LH		14			
02 : 69.36 20 : 8.14	KZU 1	28	1103		24	72U0 1	-11	mN	U I	. 04	E.	100		14 (4)		
					14.7						14.1	1				
**** DXIDES	RATIOS A	4D INDE	XES ***	**												
F-M : 6	7.74 2	2.93	9.33		FEO (TO	TAL)/MG0	:	2.4				: NA		BASICITY		
20-K20-S102 :	10	0	89			K20/NA20	:	.03	ALKAI	LI IND	EX	:3.33	SOLI	DIFICATION	INDEX :	9.38
0/NA20+K20 :: :	03	14.34	F STEERE	25.20		. *								HASHIMOTO		
		1 1 7	CAN SHARE						MAI	FIC IN	DEX	171.07	1	MARCOTTE	INDEX :	-2.92
		4 7 4 1 1 4										The second second	.1 %			
A 1400 AM A 440 AM TO A 4400	MINERAL S	1 75	TING ###	***						· contraction		and the second distribution of		and the same of the special control		
H#### NURMATIVE JARTZ : 14.	TTHENHES	ACMIT	,, 1140 AAA			MAGNETT	TE -	20		HALIT	e .			# WOLLAS	STO (DP) .	- 66
ORUNDUM :	00	CA C	LICATE :			MAGNETI HEMATIT	15. i	. 67		FLUOR				# ENSTA		
						PERMIT		11 -00 -100 -100	SAME AND THE O		RDITE	310 1011		# FERRO		
THUCKHEE TO I	07	MH-MS	TETPHIEL			TEMENTI	E 1	. 55						# ENSTA		
BILE : 66	3.9	K-M81	LICATE	·		SPHENE	:				E	-		# ENSIH	ITI (HE):	2.30
WHITE : 6,	32	WULLE	STUNITE			PERUVSK	HE:			LHKUM	LIE	.3		# FERRO	SIL (HP):	2.82
RTHOCLASE ( ) 1. BITE : 68 NORTHITE : 6. EUCITE : EPHELITE :		DIOPS	IDE :	1.32	2	RUTILE	:			ZIRCO	N	:		* FORST		
PHELITE :		HYPER	STHENE :	5.38	3	FLUORAP	ATITE:	.08		CALCI		1		* FAYAL	ITE (OL):	
LIOPHILITE:		DLIV	INE :							****	: TOTAL	t: 99.77	7			**** - ****
			. 1 1 1 1 1													
**** NORMATIVE	HINERAL	3 RF	TIOS AND	INDEX	ES ****	**										
- AB - AN 1	2.2	39.6	8.2	COLOR	INDEX		: 8.	14	TOT	AL % F	ELDSPA	RS : 6	. 89			
TZ-ORTH-PLAG :	16	1.8 8	32.2	CRYSTA	LLIZATIO	ON INDEX	: 8.	78	TOT	AL % P	LAGIOC	ASES: 5	5.22			
						ON INDEX			PLA	GIOCLA	SE IND	EX :	8			
RITTMAN VALUES	*															
**** MOLE NUMBE		£ .									*****	RITMAN	VALUE	S *****		
: 1.154 F			NA I	. 263	P	00	2	s :	0					: 0	AN :	
	1G .			400.	MN	: .00		H2D+:			AL :	14.41	ALK	: 12.49		
		031	TI:	.004	C02			H20:			FM :			: .02		
		/ 4		. 004		•	~						1.			
**** GAINS AND	LOPECO D	COMP	ADTECNAL TO	THE A	UEDAGES	OF THE	ADITIE	T UDL CA	NITCE /	DESCOR	DEALLY	1973) 4			4-11	
								1 VULCH	HALLO (	PESCHIL	ILMUX 9	17/3/ 1				
IS SAMPLE NA	120 1 8.1	+ K20	.28	MUO	1.16											
	4.				1.21			~								The second second
AIN OR LOSS	3.4	ŧ.	-1.03		23	F	RIDRIT	Y :								
HARR I TTUONAMED	(IF VO	CANIC	ROCK) **	***												
**** FILLONHUES																
DONALD-KATSURA VINE-BARAGAR MA	MAGMATIC	SERIES	3: SUBALK	ALINE	T	YPE & FI	ELD NA	ME :			1.1					

						THE THE	DEELIG ON	ERRORS THAT M	AT HOLDE FO			
**** REFERENC THOR: LAPAUSE OVINCE:	Y	EAR 1 19	87 R	EFERENCE	-in-		NTS SHE	ET:	LONG. :	SAMPL	CORD NO.: E NO : TO LAT. :	0 to ) 4 to 50 to
OL. AGE :	CEOL DO	DV. :	CEO		ONE :	UTM SQ.	IDENT.:	UTM EAST	t	UTM NORT	H :	
NTEXT :				. ENVIRON		MAGMA	TIC SERIE	S : SPEC			OCK NAME	1
SCRIPTION I	\$ 18.7 · · ·			A CONTRACTOR		3 11 (30) 11 1					543.50	
FINAL ASSESSMENT	. 18	- VVI	a de fact					1.550			503.45.	757
**** DRIGINAL	DXIDES A	ND TRACE	ELEMENT	B		arreint		19 2				
02 : 38.20 .203: 4.67	CAD :	0.04	LOT	1 13 50	S: AG:		BI :	F : HG :		FB: SN:	ZN :	
203 11 10	K20 .	0.02	rn2		AS I		co :			SR :		
0 : 3	TI02 :	0.31	1 H20.	Pr	AU 1		CR :	MO z		·V :	61-	
0 1 22.70	P205	0.08	H20.	Mr. Sales	BA :		CU :	NI :		M . 1		
- and a	<b>发展发展</b>				* 6 4 1 6	III A T		*****				
	* * *		* * * *		* CHLL	ULHI	TUNS			* * *		
**** NORMALIZ	ED OXIDES	(PYRITE	REMOVED	IF SULFL	R. IRON AS	20% FE20	3 AND 80%	FEO, DRY, TO	TAL=100%) *	****		
02 : 44.3	AL203	5.42	FE20	3 2 574	FEO	9.27	MBO	: 26.32	CAO , 1 11.3	3 2 3 3 4 1 1 2 2	Ostoria de la compansión de la compansió	
- W. C. A.S.		ACTUAL STREET	THE RESIDENCE	Emily District	P205	: .09	MNO	: 26.32 : .26		31.38	735	-
**** OXIDES -	- RATIOS	AND INDE	XES ****	**	0.70701 1 /4					2401017	W TARREY -	70 (0
F-M : 20-K20-SIO2 :	- RATIUS (	30.97	100	FE	MY (TOTAL) O	60 : .4 20 :		LKALINITY RAT			Y INDEX :	
0/NA20+K2D :	Y				KZUZ NH	29	· 22	FELSIC IND	EX 1 61	HASHIMOT		
	1.4	325						MAFIC INDEX	:31.03	MARCOTT	E INDEX	
**** NORMATIV	E MINERAL	S LIS	TING ***	***		44.1		of the same of a larger	Carlo Bridge Colombia Balan	Ar. Charles and Street Print	A Second	and the street of the second
ARTZ :		ACMIT	E :			TITE :		HALITE	1		ASTO(DP):	
RUNDUM :	area - a a	CA-SI	LICATE :	COLUMN STATE OF		ITE :		FLUORITE		# ENST	ATIT(DP):	12.69
BITE	70	K-MET	TOATE	100	ILMEN	ITE :	. 68	THENARDITI			ATIT(HP):	
ORTHITE 1 1	4.49	WOLLA	STONITE		SPHEN PEROV	SKITE :		CHROMITE				
UCITE :		DIOLD	IDE :	34.70	UDITE	E. :		ZIRCON	:	* FORS	TERS (OL):	34.28
PHELITE :				4.69	FLUOR	APATITE:	.07	CALCITE		* FAYE	LITE (OL):	8.53
LIOPHILITE:		OLIVI		42.89				***** TOT	AL*: 99.82			
**** NORMATI	VE MINERA	B RA	TIDS AND	INDEXES	*****							
- AB - AN	1 .9	2,6	96.5	COLOR IND	EX	: 84.7	4	TOTAL % FELDS	PARS : 5.	01		
TZ-ORTH-PLAG	: 0	.9 9			ZATION IND			TOTAL % PLAGI				
				DIFFERENT	IATION IND	EX:	52	PLAGIOCLASE I	NDEX :	47		
RITTMAN VALUE	5 ×	VE A	8.1017	- 15							1141-001-14	
**** MOLE NUM			35-11-1							ALUES *****		
1 . 737					_P:		1	o SI	44.3	CA : 8	AN I	
: .106 :+3: .032		. 653 . 202	K :	.005	MN : .		20+: .00 20-: .00		4.87 52.77	ALK : .09 K : .22		
**** BAINS AN	D LOSSES	BY COMPA	RISON TO	THE AVER	AGES OF TH	E ABITIBI	VOLCANIC	S (DESCARREAU	X. 1973) **	***	3 74	and the second s
IS SAMPLE	mezu :	94	15	FIGU 1 2	0.50							
IN OR LOSS	-1	. 9	11		6.25	PRIORITY	1 I territor			and a contract of the contract		
**** LITHONAM	ES (TE U	DI CANTO	ROCK! ##	****								
DONALD-KATSUR	MAGMATI	SERIES	1 SUBALK	ALINE	TYPE &	FIELD NAM	E s	18 M	Taveg:		and the second of the second o	
								TO THE BOOK SET TO SEE	The second second			
DONALD-KATSUR VINE-BARAGAR	MAGMATIC	BERLES		5	ROCK NA BARAGAR	ME BY SIO	2 : BASAL	J. Salar	THE STATE OF THE S	V7.x	Court is	

CLIENT: LAPAUSE SURFACE DATA FILE: 10:16:59AM 17 MAY 87

IENT : LAPAUSE SCLAIMER : THE	SURFACE OWNER OF THE I	DATA FILE : PROGRAM IS NOT RES	PONSIBLE FOR A	ANY PROBLEMS OR I	ERRORS THAT MAY	ARISE FROM TH	10:16:59AM 17 MAY 87 HE USE OF THESE DATA.
CTURE. LABALIER	DATA ****** YEAR	CANADA TO SERVICE STATE OF THE PARTY OF THE	1 LAPAUSE	NTO CUE		1.000	RECORD NO.: 31670 SAMPLE NO :
OVINCE :	TOWNSHIP	UTM		NTS SHEE	ET :	LONG. :	LAIL I
OL.AGE :	GEOL. PROV. :	GEOL. ENVIRO	NMENT :			ROCK TYPE	ROCK NAME :
SCRIPTION :	S	TRATIGRAPHY:	10/7/2017/10/17	MAGMATIC SERIES	S: SPEC.	SRAVITY :	
7			- 130				
*** ORIBINAL	DXIDES AND TRA	CE ELEMENTS ****	A				
12: 40.30	CAU : 10.40	MNO : 0.21	5 :	CL:	F i	PB :	
203: 4.55	NAZU : 0.09	LOI : 12.40 CO2 :	AG :	CO :	LIJ	SR	
203: 10.60	T102 1 0.04	H20. Pr	AU I	CR i		V	
: 21.60	P205 1 0.11	H20.Pi H20.Mi	BA I	CU i	NI :	W	
*** NORMALIZE	D OXIDES (PYRI	TE REMOVED IF SULF	* * CALCU UR. IRON AS 2	0% FE203 AND 80%	FEO, DRY, TOTAL		
		7102 135					
**** OXIDES	- RATIOS AND IN	DEXES ***** 68.62 F	FO(TOTAL)/MGO	: .44 AI	KALINITY RATIO	: 1.02	BASICITY INDEX : 29.48
20-K20-SI02 :	0 0	100	K20/NA20	: .5 A	LKALI INDEX	:33.33 SOLI	DIFICATION INDEX : 69.08
/NA20+K20 3		子 华沙州 主持工业会员	M. S. C		FELSIC INDEX	1.1.24	HASHIMOTO INDEX : 67.37
					MARIE INDEX	131.1	MARCOTTE INDEX : 4.72
	MINERALS L		MACHETT	TE : 3.51		:	* WOLLASTO (DP): 18.63
RUNDUM ±	ACM CA-	ITE : SILICATE :					# ENSTATIT(DP): 13.74
HOCLASE 1	. 27 NA-	SILICATE : MSILICATE : SILICATE :	TI MENTT	E : .67	THENARDITE	* (%) ( %) PK* (6.64)	# FERROSIL (DP): 3.1
BITE	.87 K-M	SILICATE I	SPHENE		PYRITE	1	* ENSTATIT(HP): 9.77
DUIDTIE F 13	S. O.L. WULL	THO I DIMIT LET	PEROVSK	ITE :	CHRUM1TE		* FERROSIL (HP): 2.2
UCITE :	DIU	PSIDE : 35.47 ERSTHENE : 11.98	FILIORAP	ATITE: .09	CALCITE	1	* FORSTERS(OL): 26.61 * FAYALITE(OL): 6.63
LIOPHILITE:		VINE : 33.3		HIA1E+ .V/	****: TOTAL		
- AB - AN I	VE MINERALS		###### DEX IZATION INDEX TIATION INDEX	# 84.93 : 76.7 : 1.14	TOTAL % FELDSPA TOTAL % PLAGIOC PLAGIOCLASE IND	RS 1 4.75 LASES: 4.48 EX : 94	
RITTMAN VALUES						RITMAN VALUE	Canana
**** MOLE NUME	SEKS RARRER	NA : 003	P : .00	2 S :			: 9 AN :
: .102	MG : .613	K : .001	MN : .00			4.68 ALK	1 .2
	CA : .212	TI : .004		O H20-: .00		49.58 K	: .25
*** GAINS AND	LOSSES BY COM	PARISON TO THE AVE 20: .05 MBO : .17	RAGES OF THE	ABITIBI VOLCANIC	S (DESCARREAUX,	1973) *****	
RMAL VALUE	2.2 -2.1	17 11	8.68 15.73 P	DINDITY .			
			13.73	NAURIT I			
**** LITHONAME	S (IF VOLCANI	C ROCK) ****** ES: SUBALKALINE	TYPE 1 C1	FLD NAME .		- SOME SON	3 1
JUNEAU TO A SUPER	THURSDAY OCIS	CO. OUDLINGTINE	CONTRACTOR OF TA	Antestr (VPH 16s 6	24	STATE OF THE PARTY OF	the state of the s
VINE-BARABAR F	MAGNATIC SERIES		ROCK NAME	BY SIO2 : BASAL	T	70 - 10 m	N7 Jole

***** MOLE NUMBERS *****			***** RITMAN VALUES *****
SI : .792 FE+2:	NA 1 003 P :	.001 S : 0	SI : 47.61 CA : 2 AN :
AL : .139 MG : .651	K : 0 MN :	.002 H20+: .0001	AL : 6.39 ALK : .17
FE+3: .033 CA : .109	TI : .006 CO2 :	0 H20-: .0001	FM : 52.65 K : .11
***** GAINS AND LOBSES BY COMPA	ARISON TO THE AVERAGES OF	THE ABITIBI VOLCANICS	(DESCARREAUX, 1973) *****
THIS SAMPLE NAZO : .1 K20	01 .02 MGO 1 26.26		
NORMAL VALUE 2.41	.2 7.99		AND THE RESIDENCE AND A STATE OF THE PARTY O
GAIN OR LOSS -2.31	17 18.06	PRIORITY:	
***** LITHONAMES (IF VOLCANIE	ROCK) *****		
MCDONALD-KATSURA MAGMATIC BERIES	BI SUBALKALINE TYPE	& FIELD NAME :	
IRVINE-BARAGAN MAGMATIC SEALES		NAME BY SIO2 : BASALT	ůn.
JENSEN MAGMATIC SERIES	: KOMALITIC JENSE	N LITHONAME : MAGNESI	UM RICH THOU FILLE

CLIENT: LAPAUSE SURFACE DATA FILE:

10:18:15AM 17 MAY 87

DISCLAIMER: THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT MAY ARISE FROM THE USE OF THESE DATA.

**** REFERENCE	E DATA ***	***	1	100							D NO.: 31672	
INUNI LAPAUSE	THE STATE OF THE	WH I TARY	STATE OF THE	PERENCE .	LAPAUSE						10 : 1210121	
OVINCE 1	TOWNSHIP			and the second second second second			S SHEET :		NG. I	LAT		
				UTM ZON		UTM SQ. IDEN	T.: UT	TM EAST :		UTM NORTH :		
OL.AGE :	GEOL. PRO	V. :	GEOL.	ENVIRONME	NT :				ROCK TYPE	: ROCK	NAME :	
NTEXT :		STRAT	IGRAPHY.	1		MAGMATIC :	SERIES :	SPEC. GRA	VITY:			
SCRIPTION :	1 1 2 19	7784	6.614									
	7.1	a terr	avida in									
**** DRIBINAL	DXIDES AN	D TRACE E	LEMENTE	*****				The second second				
02:50.80	CAO :	7.62	MNO	: 0.20	S:	BI	:	F:	PB	:	ZN:	
203: 15.30	NA20 :	2.38	LOI	6.90	AG :	CL	\$	HG:	SN	1		
203: 12,00	K20 i	0.08	C02	L	AS :	CO	1	LI:	SR	1		
0 :	TI02 :	0.52	# H20.P	150	AU :	CR	1	MO I	V		1 1 1	
0 : 5.71	P205 i	0.12	LIZE M	4	BA I	CU	1	NI :	W			
		1. The last	CA MAN	Art was								
	* * *	* * * *	* * * *	* * * * *	CALC	ULATIOI	N S * * * *		* * * * *	*		
**** NORMALIZE	ED OXIDES	(PYRITE P	EMOVED	IF SULFUR.	IRON AS	20% FE203 AN	D BOY FED.	DRY. TOTAL =1	00%) ****	*		
02 : 54-18	AL 2031	14.32	FEDOT	2. TA	EFO	9.21	MRD . A C	ספר באח	. 9 13	4.34		_
02 : 54.18 20 : 2.54	K20	09	TIDE		P20*	13	MNO + S	21		- 7		
		0.000	2.00	2 (F 13)								
**** OXIDES	- BATIOS 4	ND INDEYE	S 44444	*		manifest it receives a						
F-M :					TOTAL Y	50 : 1.89	AL VAL TE	NITY RATIO :	NO	PACICITY 1	NDEX : 18.88	
20-K20-SI02 :		0 27		FEDI	K20/NA						NDEX : 30.1	
0/NA20+K20 :		20 T 27 E 100	3 000 16 161	7	Andrew Comments of the Party of	20: .04						
J/NHZUTKZU I	.03	310.34		Sel.	٠.		FEL	TRIC INDEX :	24.44	HASHIMUTU	NDEX : 36.68	
	17.3	11 7 33	100	On the second			MAF IC	C INDEX :	5.7	MARCUTTE 1	INDEX : -1.11	
MOONETTI		12 22 15	40 100 100									
**** NORMATIVE							_					
ARTZ : 7		ACMITE				TITE : 3.		ALITE :		* WOLLAST	O(DP): 2.75	
RUNDUM :		CA-SILI	CATE :	-	HEMAT:	ITE :	FL	LUORITE :		* ENSTAT	T(DP): 1.38	
THOCLASE :	.5	NA-HSIL	ICATE	5.67		ITE : 1.0	_	HENARDITE :			(L(DP): 1.3	
BITE : 2: ORTHITE : 32	1.47	K-MSILI	CATE I	1	SPHEN			YRITE :		* ENSTAT	(T(HP): 13.77	
	2.87	WOLLAST	DNITE			SKITE :		HROMITE :		* FERROS	L(HP): 12.98	
UCITE :			E :		RUTILE			IRCON :		* FURSIE	(S(UL):	
PHELITE :		HYPERST	HENE : :	26.75	FLUOR	APATITE: .	1 C4	ALCITE :		* FAYALIT	TE(OL):	
LIOPHILITE:		OLIVINE					**	****: TOTAL*:	99.76			
	2	14.54		1 1 4								
**** NORMATIV	VE MINERAL	S RATI	OS AND	INDEXES **	****							
- AB - AN 1	1 .9	39.2 59	.9 . 0	OLDR INDEX	(	: 36.95	TOTAL	% FELDSPARS	: 4.84			
TZ-ORTH-PLAG :	: 12.5	.8 86.	7 C	RYSTALLIZE	TION INDE	EX: 45.5	TOTAL	% PLAGIOCLAS	ES: 4.34			
			D	IFFERENT IF	TION INDE	: 36.95 EX: 45.5 EX: 21.97	PLAGIO	DCLASE INDEX	: 60			
RITTMAN VALUES	5 *			C.300								
**** MOLE NUME		144		3.0				***** R1	TMAN VALUE	S *****		
			ιο .	082 6		002 5 +	0				AN +	
1 - 902				002	thi .	003 H20++	-					
: .32		a TU		.007		∨ nzu-:	.0001	F11 1 12				
**** MOLE NUME	FE+2: .	128 N 151 K	IA I	.002 M	1 .0 1N : .0	003 H2O+:	0 .0001 .0001	***** RI SI : 54, AL : 14. FM : 12	18 CA 68 ALK	S ****** : 1 : 3.9 : .02	AN I	
: .32			BON 86									
: .32 3: .032		W COMMANY	BUN IU			F WRITIRE AOCT	CANTES (DES	SCARREAUX, 19	/3) *****		Later .	350
: .32 -3: .032	D (LOSSES) B		00									1
: .32 +3: .032 +### GAINS AND IS SAMPLE	D LOSSES B	4 KOOF	. 09	MUU 1 6.								
: .32 +3: .032 **** GAINS AND IS SAMPLE N RMAL VALUE	D LOSSES B NA20 1 2.5 3.3	4 K201	,38	5.	26			transfer teacher to	-			
: .32 +3: .032 **** GAINS AND IS SAMPLE N	D LOSSES B	4 K201	.38	5.		PRIORITY:						
: .32 +3: .032 **** GAINS AND IS SAMPLE P RMAL VALUE IN OR LOSS	D LOBSES B NA20 1 2.5 3.3	4 K201	3	5.	26	PRIORITY:						
: .32 +3: .032  **** GAINS ANI IS SAMPLE N RMAL VALUE IN OR LOSS  **** LITHONAME	0 LOSSES B NA20 1 2.5 3.3 8	K201	3 3	5.	<b>26</b> 77			more thanks on				
+3: .032  **** GAINS ANI IS SAMPLE PRMAL VALUE IN OR LOSS  **** LITHONAME DONALD-KATSUR	D LOSSES B NA20 1 2.3 3.3 8 ES (IF VO	K201	,38 3 )CK) ***	*** LINE	77 TYPE & 1	FIELD NAME :		-			7/12 A	6
: .32 +3: .032  **** GAINS ANI IS SAMPLE N RMAL VALUE IN OR LOSS  **** LITHONAME DONALD-KATSURA	D LOSSES B NA20 1 2.3 3.3 8 ES (IF VO	K201	.38 3	*** LINE	77 TYPE & 1	FIELD NAME :	ANDESITE					
: .32 +3: .032  **** GAINS AND IS SAMPLE N RMAL VALUE IN OR LOSS  **** LITHONAME DONALD-KATSURV /INE-BARAGAR	D LOSSES B NA20 1 2.3 3.3 8 ES (IF VO	LCANIC RO	.38 3	5.	77 TYPE & 1		ANDESITE	<b>4</b>		V7		Carried St.

CLIENT: LAPAUSE SURFACE DATA FILE: 10:18:53AM 17 MAY 87

	SE SURFACE HE OWNER OF	DATA THE PROGRAM I	FILE :	NSIBLE FOR	ANY PROBLEM	S OR ERROR	S THAT MAY F	RISE FROM T	10:18:53AM		
**** REFERENC			de amonté de la constitución de							ORD NO.: 31673	
THURT LAPAUSE	YE	AR : 1987	REFERENCE I	LAPAUSE						NO : DESCRIPTION	
UVINCE !	IUMNSHIP	1 11			NT	5 SHEET :	JTM EAST :	.ONG. :		AT. I	
			UTM ZO	NE :	UTM SQ. IDEN	T.: U	TM EAST :		UTM NORTH		
OL.AGE :	GEOL. PRO		L. ENVIRONM					ROCK TYPE	: RO	CK NAME :	
NIEXI_:		STRATIGRAF	HY I		MAGMATIC :	SERIES :	SPEC. GR	RAVITY :			
SCRIPTION :			7 0								
4	Jers Hall		2000年								
**** ORIGINAL	DXIDES AN	D TRACE ELEMEN	TS *****							17.1.0	
02 : 68.10	CAO :	2.98 MNC	: 0.05	S:	BI	:	F :	PB	:	ZN :	
203: 16.30	NA20 :	5.41 LOI	1 1.50	AG :	CL		HG :	SN	:		
203: 2.94	K20 :		1	AS I	CO		LI:	SR			
0 :	T102 :	0.32 920	Designation of the	AU I	CR		MO :	V		The same of the sa	
0 : 1.45	P205 :	0 17 190	).Pi	BA I	cu		NI :	W			
0 . 1.40	1200 1	100	re Britis	DH 1	20	•	147 .	**	•		
- the rate of the same and the same of				* 0 4 1 0 1	LATIO	N 0 " " "			toke of the state	THE RESERVE AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO	
	* * *	* * * * * * *		* CALCO	CALLU	N 5 * * *	* * * * * *	* * * * * *	•		
HANN MODMAN TO	TEN OVINES					D DAY EEE	DOW				
TERE NURMALIZ	LED UXIDES	(PYRITE REMOVE	U IF SULFUR	IKUN AS Z	UN FEZUS AN	D BUN FEU.	DRY, TUTAL=	100%) ****			
02 : 69.28	AL2031	10.58 FE7	mst	FEO 1	2.15	mou : 1.	48 CAO	: 2.02		1	+
20: 5.5	K20 :	16.58 FE2 .82 TIC	12 1 33	P205 1	. 17	MNO 1 .	05				
		10 A 12 A	1. W. W	11"							
		ND INDEXES ***									
		6.07 14.03		(TOTAL)/MGO			NITY RATIO :			INDEX : 5.01	
20-K20-SI02 :		1 92		K20/NA20	); .15					INDEX : 14.11	
J/NA20+K20 :	. 13	THE NORTH AND ASSESSED.								INDEX : 21.24	
		APPENDED N	A PACIFIC							INDEX : -1.58	
	1.	(1)	No.				,				
**** NORMATI	VE MINERALS	LISTING **	****								-
	24.53			MARNETT	TE : .8	6 U	HALITE :		* MULT V	STO(DP):	
RUNDUM		CA-SILICATE	-				LUORITE :			TIT(DP):	
THOCLASE :		NA-METLICATE		ILMENIT	E		HENARDITE :			BIL (DP):	
	46.57	K-MSILICATE		SPHENE	E : .6		YRITE :			TIT(HP): 3.67	
DRTHITE :		WOLLASTONITE			ITE				* FERRU	SIL(HP): 3.01	
UCITE :			:	RUTILE	:		IRCON :			ITE(OL):	
PHELITE :		HYPERSTHENE			ATITE: .1	3 C	CALCITE :		# FAYAL	I IE (UL):	
LIOPHILITE:		OLIVINE	J.,			1111 m m m	****: TOTAL*:	99.68		management of the contract of	
**** NORMATI	IVE MINERAL!	S - RATIOS AN	D INDEXES *	****							
- AB - AN	: 7.4	71.3 21.3	COLOR INDE	X			. % FELDSPARS				
rz-orth-PLAG	: 27.3	5.4 67.3		ATION INDEX			% PLAGIOCLA				
			DIFFERENTI	ATION INDEX	: 52.96	PLAGI	(OCLASE INDE)	: 23	5		
RITTMAN VALUE	ES #										
*** MOLE NUM	MBERS ****	•	2				***** F	RITMAN VALUE	S *****		
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DONALD-KATSUR	MES (IF VOI	B48	KALINE		IELD NAME :	A CANADA AND AND AND AND AND AND AND AND AN	3				
**** GAINS AN IS SAMPLE RMAL VALUE IN OR LOSS **** LITHONAM DONALD-KATSUR	MES (IF VOI	B48	KALINE	ROCK NAME	BY SI02 :					[	
**** GAINS AN IS SAMPLE RMAL_VALUE IN OR LOSS **** LITHONAM DONALD-KATSUF	MES (IF VOI	848 LCANIC ROCK) *	KALINE	ROCK NAME					16		

CLIENT: LAPAUSE SURFACE DATA FILE: 10:19:31AM 17 MAY 87

DISCLAIMER: THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT MAY ARISE FROM THE USE OF THESE DATA. RECORD NO.: 31674 \*\*\*\*\* REFERENCE DATA \*\*\*\*\* SAMPLE NO : AUTHOR: LAPAUSE YEAR : 1987 REFERENCE & LAPAUSE PROVINCE : TOWNSHIP : NTS SHEET : LONG. : LAT. 1 UTM SQ. IDENT.: UTM EAST : UTM NORTH : UTM ZONE : GEOL. ENVIRONMENT : ROCK TYPE : ROCK NAME : GEOL. AGE : GEDL. PROV. : CONTEXT : STRATIGRAPHY : MAGMATIC SERIES : SPEC. GRAVITY : DESCRIPTION : \*\*\*\*\* ORIGINAL OXIDES AND TRACE ELEMENTS \*\*\*\*\* BI : F : ZN : SID2: 67.00 CAO : 0.51 MND : 0.01 NA20 : 9.36 LOI : 0.20 AG : CL : HG : SN: AL203: 19.60 CO : LI : SR : K20 : 0.53 AS .:. FE203: 0.90 I OM V : AU : CR : FEO : NI : BA : CU I MGO : 0.41 P205 : 0.015 H20. HE 3 \*\*\*\*\*\* NORMALIZED OXIDES (PYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND 80% FE0, DRY, TOTAL=100%) \*\*\*\*\*\* SIO2 : 68.07 AL203: 19.91 FE203: 418 FEO : .66 MBO : .42 CAO : .52 NA20 : 9.51 K20 : .54 1102: .16 P205 : .02 MNO : .01 \*\*\*\*\*\* OXIDES -- RATIOS AND INDEXES \*\*\*\*\* : 88.86 7.43 3.71 FED(TOTAL)/MGD: 1.96 ALKALINITY RATIO : NA BASICITY INDEX : 1.31 ALKALI INDEX :5.37 SOLIDIFICATION INDEX : 3.72 NA20-K20-SIQ2 : K20/NA20 : .06 12 FELSIC INDEX : 95.08 HASHIMOTO INDEX : 8.74 K2D/NA2D+K2D : .05 MAFIC INDEX : 66.67 MARCOTTE INDEX : -3.44 \*\*\*\*\* NORMATIVE MINERALS -- LISTING \*\*\*\*\* 3 \* WOLLASTO (DP): QUARTZ MAGNETITE : .26 HALITE : 8.64 ACMITE \* ENSTATIT(DP): CORUNDUM : 2.78 ORTHOCLASE : 3.18 FLUORITE CA-SILICATE HEMATITE \* FERROSIL (DP): THENARDITE : NA-HSILICATE ILMENITE # ENSTATIT(HP): 1.03 K-MSILICATE SPHENE 1.2 PYRITE ALBITE 1 80,47 PEROYSKITE : \* FERROSIL (HP): ANORTHITE\_\_ CHROMITE 1 2.47 WOLLABTONITE \* FORSTERS (OL): ZIRCON LEUCITE 2 DIOPSIDE : RUTILE \* FAYALITE (OL): FLUORAPATITE: .01 CALCITE NEPHELITE : HYPERSTHENE: 1.84 \*\*\*\*: TOTAL\*: 99.95 DLIVINE KALIOPHILITE: \*\*\*\*\*\* NORMATIVE MINERALS -- RATIOS AND INDEXES \*\*\*\*\* OR - AB - AN 1 3.7 93.4 2.9 COLOR INDEX 1 2.4 TOTAL % FELDSPARS : 6,12 9.1 3.4 87.5 CRYSTALLIZATION INDEX: 3.19 TOTAL % PLAGIOCLASES: 2.94 QRTZ-ORTH-FLAG : DIFFERENTIATION INDEX: 86.43 PLAGIOCLASE INDEX : \* RITTMAN VALUES \* \*\*\*\*\* RITMAN VALUES \*\*\*\*\* \*\*\*\*\* MOLE NUMBERS \*\*\*\*\* CA : -2 S SI : 68.07 SI : 1.133 FE+2: .009 MG : AL : 17.91 ALK : 14.8 MN : 0 H20+: .0001 AL: .391 .01 K : .011 47 ( CO2 : H2D-: .0001 FM : .84 K : .03 FE+3: .002 CA : .009 TI: .002 \*\*\*\*\* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) \*\*\*\*\*\* THIS SAMPLE NAZO : 9.51 K20: .54 MGD : .42 4.7 1.43 NORMAL VALUE 1.2 GAIN OR LOSS 4.81 -- 67 -1.19PRIORITY : \*\*\*\*\* LITHONAMES (IF VOLCANIC ROCK) \*\*\*\*\* MCDONALD-KATSURA MAGMATIC GERIES: SUBALKALINE TYPE & FIELD NAME 1 IRVINE-BARAGAR MAGMATIC SERIES : ROCK NAME BY SID2 & RHYODACITE BARABAR LITHONAME 1 JENSEN LITHONAME : RHYOLITE JENSEN MAGMATIC SERIES : CALC-ALKALINE

CLIENT: LAPAUSE SURFACE DATA FILE: 10:20:10AM 17 MAY 87

***** REFERENCE DATA	*****								31675
AUTHOR: LAPAUSE TOWNS	YEAR 1 1987	REFERENCE 1 LA	APAUSE				SAMPLE		V 2-3 S S S S S S S S S S S S S S S S S S S
PROVINCE	dif i	Maria Cara Cara Cara Cara Cara Cara Cara	part to a second	NTS SHEE	ET #	LONG. :	LA		141.5
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		OL. ENVIRONMEN				ROCK TYPE :	ROC	E NAME	:
CONTEXT:	STRATIGRA	PHY 1	MA	GMATIC SERIES	S : SPEC. G	RAVITY :			
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***** NORMALIZED OXID	S (PYRITE REMOVE	ED IF SULFUR.	IRDN AS 20% F	E203 AND BO%	FEO. DRY, IDIAL	=100%) *****			
BIO2: 51.3 AL20 NA20: 3.01 K20	3: 16.83 FE	203: 2.66	FED : 9.5	8 MGO	1 8.17 CAO	1 7.37		A Tolk	A
MA20 : 3.01 K20	1 .16	02 1 7 .52	P205 1	7 MNO	1 .22			7.	
		the state of the s	CALL TO FAME			A THE STREET			
***** OXIDES RATIO									
9-F-M : 13.44		FEO (TI	OTAL)/MGO :	1.47 Al	LKALINITY RATIO	: NA	BASICITY	INDEX :	20.01
MA20-K20-S102 : 6			K20/NA20:	. 05 AI	LKALI INDEX	:5.05 SOLII	DIFICATION	INDEX :	35.04
(20/NA20+K20 : .05		· · · · · · · · · · · · · · · · · · ·	KZUZNHZU I		FELSIC INDEX				
			are.		MAFIC INDEX	:59.97	MARCOTTE	INDEX :	68
	Po 15 15 15 15 15 15 15 15 15 15 15 15 15	A CONTRACT OF THE PARTY OF THE	X3.		****				10 10 11/10
***** NORMATIVE MINER	ALS LISTING *	****							
DUARTZ :	ACMITE	1	MAGNETITE			1	* WOLLAS		
CORUNDUM :	CA-SILICATE		HEMATITE		FLUORITE	1	* ENSTAT	IT (DP)	81
ORTHOCLASE : .95			ILMENITE		THENARDITE		* FERROS		
ALBITE : 25.49			BPHENE	E	PYRITE	:	* ENSTAT	IT (HP)	: 18.73
ANORTHITE : 31.92	WOLLASTONIT		PEROVSKITE		CHROMITE	:	* FERROS	IL (HP)	1 13.74
LEUCITE :	DIOPSIDE		RUTILE	:	ZIRCON	1	* FORSTE		
12	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		FLUORAPATIT	E: .13	CALCITE *****:TOTAL*	:	* FAYALI	TE (OL)	: .46
CALIOPHILITE:	OLIVINE	: 1.02			****: TOTAL*	: 97.7		as a shape met a	
***** NORMATIVE MINE									
OR - AB - AN : 1. ORTZ-ORTH-PLAG :	6 43.7 54.7	COLOR INDEX		1.21	TOTAL % FELDSPAR	85 : 8.36			-
DRTZ-ORTH-PLAG :	0 1.6 98.4	CRYSTALLIZAT	ION INDEX: 4	7.35	TOTAL % PLAGIOCE	ASES: 7.41			
		DIFFERENTIAT	ION INDEX:	26.44	PLAGIOCLASE INDE	X : 56			
			and the second second second	and the same of th					
* RITTMAN VALUES *		1 1 3 3 3 3 3				BATMAN MAN III			
***** MOLE NUMBERS **		513				RITMAN VALUE			
SI : .854 FE+2:	.133 NA 1		1 .002			51.3 CA		AN	1
AL : .33 MG :	.203 K :		: .003				: 4.67		
FE+3: .033 CA :	.131 TI:	.007 CO	12: 0	H20-: .00	01 FM : 1	.6.47 K	: .03		
						1077)			
***** BAINS AND LOSSE	BY COMPARISON	TU THE AVERAGE	S OF THE ABIT	IRI ANTCANIC	S (DESCARREAUX,	14/2) ######			Transfer &
THIS SAMPLE NAZO 1	3.01 KZU: .4/	6 MGO 1 8.1	7						4.
	2.93 .2	9 6.3	B						-
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GAIN OR LOSS ****** LITHONAMES (IF					The second second			· · · · · · · · · · · · · · · · · · ·	
GAIN OR LOSS ***** <u>LITHONAMES (IF</u> MCDONALD-KATSURA MAGMA	TIC SERIES: SUBA	LKALTNE	TYPE & FIELD						17 AT + 14.
GAIN OR LOSS ****** <u>LITHONAMES (IF</u> MCDONALD-KATSURA MAGMA IRVINE-BARAGAR MAGMATI	TIC SERIES: SUBA	LKALINE	TYPE & FIELD ROCK NAME BY BARAGAR LITHO	SID2 : BASAL	т 185		.4%		

CLIENT : LAPAUSE SURFACE 10:20:48AM 17 MAY 87 DISCLAIMER: THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT MAY ARISE FROM THE USE OF THESE DATA. \*\*\*\*\* REFERENCE DATA \*\*\*\*\* RECORD NO.: 31676 AUTHOR: LAPAUSE YEAR : 1987 SAMPLE NO : MESSES REFERENCE & LAPAUSE PROVINCE : NTS SHEET : LONG. ± LAT. : TOWNSHIP ... UTM SQ. IDENT.: UTM EAST : UTM NORTH : UTM ZONE : GEOL. AGE : ROCK TYPE : ROCK NAME : GEOL. PROV. : GEOL. ENVIRONMENT : STRATIGRAPHY : CONTEXT: MAGMATIC SERIES : ... SPEC. GRAVITY : DESCRIPTION I \*\*\*\*\* ORIGINAL DXIDES AND TRACE ELEMENTS CONTROL BI: ZN: SID2: 40.00 CAD : 9.91 MND : 0.21 5 : F : PD: AL203: 5.00 NA20 : 0.03 LOI : 13.60 AG : CL : HG: SN: FE203: 10.20 K20 : 0.05 C02 : AS\_1\_ CO . z. LI .: SR : V : AU T CR : MO : FEO : TID2 : 0.30 H20. PI BA 1 NI: W : MGO : 21.90 P205 : 0.03 H20. M: CU : \*\*\*\*\*\* NORMALIZED OXIDES (FYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND 80% FE0. DRY, JOTAL=190%) \*\*\*\*\*\* SIO2: 46.08 3 AL203: 5.76 FE203: 2.35 4 FE0 : 8.46 MBD : 25.23 CAD : 11.42 K20 : .06 TIO2 1 .35 P205 1 . 03 NA20 : .03 MND 1 .24 \*\*\*\*\* OXIDES -- RATIOS AND INDEXES \*\*\*\*\* FEO (TOTAL) /MGD : PASICITY INDEX : 29.14 : .25 29.92 69.83 . 42 ALKALINITY RATIO : 1.01 NA20-K20-SI02 : K20/NA20: 2 ALKALI INDEX :66.67 SOLIDIFICATION INDEX : 70.29 K2D/NA20+K2D : .67 FELSIC INDEX : .78 HASHIMOTO INDEX : 68.84 MAFIC INDEX :29.99 MARCOTTE INDEX : 5.09 \*\*\*\*\* NORMATIVE MINERALS -- LISTING \*\*\*\*\* HALITE \* WOLLASTO(DP): 17.12 QUARTZ MAGNETITE : 3.4 2 ACMITE \* ENSTATIT(DP): 12.72 CORUNDUM CA-SILICATE : HEMATITE FLUORITE NA-MSILICATE: DRTHOCLASE : 34 THENARDITE : \* FERROSIL (DP): 2.72 ILMENITE . \* ENSTATIT(HP): 11.06 K-MSILICATE PYRITE SPHENE 1 . . . 29 \* FERROSIL(HP): 2.37 WOLLASTONITE PEROVSKITE : CHROMITE ANORTHITE 1 15.39 \* FORSTERS (OL): 27.29 DIOPSIDE : 32.57 ZIRCON LEUCITE RUTILE : . . 2 \* FAYALITE(OL): 6.46 NEPHELITE : HYPERSTHENE: 13.43 FLUORAPATITE: CALCITE : \*\*\*\*\*:TOTAL\*: 99.91 KALIOPHILITE: **OLIVINE** : 33.82 \*\*\*\*\* NORMATIVE MINERALS -- RATIOS AND INDEXES \*\*\*\*\*\* DR - AB - AN : 2.1 1.8 96.1 COLOR INDEX 1 83.87 TOTAL % FELDSPARS : 6.02 0 2.1 97.9 QRTZ-ORTH-PLAG : CRYSTALLIZATION INDEX: 77.87 TOTAL % PLAGIOCLASES: 5.68 DIFFERENTIATION INDEX: PLAGIOCLASE INDEX : \* RITTMAN VALUES # : \*\*\*\*\* MOLE NUMBERS \*\*\*\*\* \*\*\*\*\* RITMAN VALUES \*\*\*\*\* SI : 46.08 CA : B FE+2: .118 S : . 0 SI : .767 NA I . 001 0 AL : 5.18 ALK : . 1 AL : .113 MG : .626 K : .001 MN : .003 H2D+: .0001 E ( FE+3: .029 CA : .204 TI: .004 CD2 : 0 H20-: .0001 FM : 50.57 \*\*\*\*\* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) \*\*\*\*\*\* .17 B.71 2.19 NORMAL VALUE GAIN OR LOSS -2.16PRIORITY : \*\*\*\*\* LITHONAMES (IF VOLCANIC ROCK) \*\*\*\*\*\* MCDONALD-KATSURA MAGMATIC SERIES: BUBALKALINE TYPE & FIELD NAME : IRVINE-BARAGAR MAGMATIC SERIES 124 ROCK NAME BY SIO2 : BASALT UM BARAGAR LITHONAME : JENSEN MAGMATIC SERIES : KOMAIITIC JENSEN LITHONAME : MAGNESIUM RICH THOLEJITE

CLIENT : LAPAUSE SURFACE DATA FILE: 10:21:26AM 17 MAY 87

**** REFEREN	CE DATA ***	***								RECORD NO.:	
JTHOR: LAPAUS	E PAR YE	EAR   1987	REFEREN	ICE   LAPAUSE	20 10 20				SAM	IPLE NO : 🌃	267
ROVINCE :	TOWNSHIP	1. 1	and a surface of the same	A C.		NTS SHEE	ET :	LONG. :	1.175.1. 4.185	LAT. :	
DI ACE .	0501 550		GEOL. ENVI	M ZONE :	UTM SQ. II	DENT.:	UTM EAST :	man man and a second	UTM NO	RIH :	
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	* * *				UULHII	3 11 3 ×					
**** NORMALT	ZED DXIDES	(PYRITE B	REMOVED IF SI	ILFUR. IRON /	AS 20% FE203	AND BOY	FEO. DRY. TOTA	L=100%) *+	****		
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20 1 2.46	K20	.58	T102 :	56 P20!	5 1 11	MNO		The state of			
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**** OXIDES	RATIOS F	AND INDEXE	S *****		The second second second		The second second second second				***************************************
F-M	: 13.71 5	34.22 32	2.07	FEO (TOTAL)	/MGO : 1.65	5 A!	LKALINITY RATIO	: NA	BASIC	CITY INDEX :	18.89
20-K20-SI02	: 4	1	95	K20/1	NA20 : .2	4 Al	LKALI INDEX	:19.08	SOLIDIFICAT	TION INDEX :	32.45
D/NA20+K20	1 .19		111	115- 1-33	1.1. 5.1		FELSIC INDEX	1 31.47	HASHIN	OTO INDEX :	45.86
			Section 2				MAFIC INDEX	:62.83	MARCO	TTE INDEX :	39
			1 - 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00	1 13		- La continuo de la continuo de la continuo della c				
**** NORMATI	VE MINERALS	LISTI	NG *****								
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THOCLASE :	3.4			ILM	ENITE :	1.05	THENARDITE	£ 24	* FE	RROSIL (DF):	. 08
BITE :	20.82	K-MSILI	ICATE:	SPHE	ENE r		PYRITE	:	* EN	STATIT (HP):	17.61
ORTHITE 1	31.63	WOLLAST	ONITE:	PER	DYSKITE :		CHROMITE		* FE	RROSIL (HP):	14.52
UCITE :		DIOFSID	DE : .38	RUTI	ILE :		THENARDITE PYRITE CHROMITE ZIRCON CALCITE	:	* F0	RSTERS (OL):	
			THENE : 32.14	FLUC	JRAPATITE:	.08	CALCITE		* F6	AYALITE(DL):	
LIOPHILITE		OLIVINE					*****: TOTAL	*1 99.78			-
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**** MOLE NU		44					*****	RITMAN U	ALUES ****	.*	
9			NA :	р.	.002 9		0 SI :				
: .319			: .012	MN	.003 42	D4: 00	01 Al •	14.64	ALK : 4	27	
+3: .033	CA:		TI : .007	CD2 +	0 H2	n-: -00	01 AL : 01 FM :	14.35	K : 1	13	
	3				- 1121		'''				
**** GAINS A	ND LOSSES P	Y COMPART	SON TO THE	VERAGES OF	THE ABITIRE	VOLCANIC	S (DESCARREAUX,	1973) **	***		
IS SAMPLE	NA2D 1 2.4	16 K20:	.58 MGD	1 7.11			====:::::::::::::::::::::::::::::::::				
RMAL VALUE	3.3	52	.38	5.31							
IN OR LOSS	8	37	.19	1.75	PRIORITY	91.30					
		I CANTE DE	OCK) *****								
	MES (IF VO	JECHINI E. PE									
**** LITHONA	MES (IF VC	SERIES	SUBALKALTNE	TYPE	FIELD NAME	1					3 -
**** LITHONA	MES (IF VC MAGMATIC MAGMATIC 9	SERIES:	SUBALKALINE	TYPE	M FIELD NAME	: ANDES	ITE				3.7
**** LITHONA	MES (IF VC RA MAGMATIC MAGMATIC 9	SERIES:	SUBALKALINE	TYPE 1	FIELD NAME NAME BY SIO2 BR LITHONAME	: ANDES	ITE E		ı/	7 Mi	

CLIENT : LAPAUSE SURFACE DATA FILE : 10:22:05AM 17 MAY 87 ( DISCLAIMER: THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PRODUCTS OR ERRORS THAT MAY ARISE FROM THE USE OF THECK DATA. \*\*\*\*\* REFERENCE DATA \*\*\*\*\* RECORD NO.: 31678 AUTHOR: LAPAUSE 5 300 YEAR 1 1987 SAMPLE NO : TELEGISCO REFERENCE : LAPAUSE TOWNSHIP : PROVINCE : LONG. : LAT. : NTS SHEET : UTM SQ.IDENT.: UTM EAST : UTM ZONE : DEM NORTH : GEOL. AGE : GEOL, PROV. 1 GEOL. ENVIRONMENT : ROCK TYPE : ROLE NAME : CONTEXT: STRATIGRAPHY : \_ MAGMATIC SERIES : SPEC. GRAVITY : DESCRIPTION : \*\*\*\*\* ORIGINAL DXIDES AND TRACE ELEMENTS \*\*\*\*\* BI : SID2 : 69.00 CAD : 2.25 MNO : 0.03 S : ZN: 11 ( AL203: 16.10 NA20 : 5.94 LOI : 1.50 AG : CL: HG: SN: FE203: 2.71 K2D : 1.53 SR : CD2 : A5 : CO: LI: FEO : TI02 : 0.31 H20.P: AU 1 V : CR # MO ± MGO : 1.45 P205 : 0.10 H20.M: BA : CU : NI : \*\*\*\*\*\* NORMALIZED OXIDES (FYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND BOX FEO, DRY, TOTAL=100%) \*\*\*\*\*\* FEO : 1.97 MBO 1.46 CAO : 2.27 NA20 : 5.99 K20 1 1.54 TID2 1 P205 : .1 MND : .03 . 31 \*\*\*\*\* OXIDES -- RATIOS AND INDEXES \*\*\*\*\* BASICITY INDEX: 4.39 A-F-M : 65.42 21.89 12.68 FED (TOTAL) /MGO: 1.69 ALKALINITY RATIO : NA \_\_\_\_8 ALKALI INDEX : 20.45 SOLIDIFICATION INDEX : 12.75 NA20-K20-SI02 : K20/NA20: .26 K2D/NA2D+K2D 1 . 2 FELSIC INDEX : 76.84 HASHIMOTO INDEX : 26.64 MAFIC INDEX :63.32 MARCOTTE INDEX : -1.65 \*\*\*\*\* NORMATIVE MINERALS --- LISTING \*\*\*\*\* : 20.83 ACMITE MAGNETITE : HALITE \* WOLLASTO (DF): CA-SILICATE : FLUORITE \* ENSTATIT(DF): : .82 HEMATITE ORTHOCLASE i 9.11 \* FERROSIL (DP): NA-MSILICATE: ILMENITE THENARDITE : \* ENSTATIT(HP): 3.64 ALBITE 1 50.66 K-MSILICATE : SPHENE PYRITE PEROVSKITE : ANORTHITE 10.59 WOLLASTONITE CHROMITE : \* FERROSIL(HP): 2.7 LEUCITE DIOPSIDE : RUTILE ZIRCON \* FORSTERS(OL): : \* ( NEPHELITE HYPERSTHENE : 6.34 . FLUORAPATITE: CALCITE 9 \* FAYALITE(OL): KALIOPHILITE: OLIVINE \*\*\*\*\*:TOTAL\*: 99.8 \*\*\*\*\*\* NORMATIVE MINERALB -- RATIOS AND INDEXES \*\*\*\*\*\* OR - AB - AN : 12.9 72 15.1 COLOR INDEX TOTAL % FELDSPARS : 0.36 : 7.72 QRTZ-DRTH-PLAG : 22.8 10 67.2 CRYSTALLIZATION INDEX: 13.14 TOTAL % PLAGIOCLASES: 1.25 DIFFERENTIATION INDEX: 60.59 PLAGIOCLASE INDEX : 17 \* RITTMAN VALUES \* \*\*\*\*\* MOLE NUMBERS \*\*\*\*\* \*\*\*\*\* RITMAN VALUES \*\*\*\*\*\* .193 S : SI : 69.55 CA : -1 SI : 1.158 NA P : ,001 AN : ALK : 10.52 AL : .318 MN : H20+: .0001 AL : 14.6 MG : .036 K : .033 0 .04 .004 FE+3: .007 CA : TI. : CO2 : 0 H20-: .0001 FM : 2.94 K : .14 \*\*\*\*\*\* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) \*\*\*\*\*\* **(**( THIS SAMPLE NAZO : 5.99 (20: 1.54 MGO : 1.46 NORMAL VALUE 4.7. 1.33 1.17 An. GAIN OR LOSS PRIDRITY : 1.29 . 11 70 ( \*\*\*\*\* LITHONAMES (IF VOLCANIC ROCK) \*\*\*\*\* 77 MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE TYPE & FIELD NAME : IRVINE-BARAGAR MAGMATIC SERIES : ROCK NAME BY SID2 : RHYODACITE BARABAR LITHONAME : ... dr.

JENSEN LITHONAME : RHYOLITE

: CALC-ALKALINE

JENSEN MAGMATIC SERIES

1---

CLIENT : LAPAUSE SURFACE DATA FILE : 10:22:43AM 17 MAY 87 DISCLAIMER: THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT MAY ARISE FROM THE USE OF THESE DATA. \*\*\*\*\* REFERENCE DATA \*\*\*\*\* RECORD NO.: 31679 AUTHOR: LAPAUSE YEAR 1 1987 REFERENCE | LAPAUSE SAMPLE NO : ESTOLSO! PROVINCE : TOWNSHIP 1 NTS SHEET : LONG. : LAT. : UTM SQ.IDENT.: UTM ZONE : UTM EAST : UTH NORTH : GEOL, AGE : GEOL. PROV. : GEOL. ENVIRONMENT : ROCK TYPE : ROCK NAME : CONTEXT: STRATIGRAPHY : MAGMATIC SERIES : . SPEC. BRAVITY : DESCRIPTION 1 \*\*\*\*\* DRIBINAL DXIDES AND TRACE ELEMENTS \*\*\*\*\* PB: SIO2: 62.20 CAD : 2.09 MNO ZN : 1 0.04 5 : DI : AL203: 18.60 NA20 : 9.52 SN: LOI : 2.40 AG I CL: HG : FE203: 2.60 K20 : 0.56 C02 AS : CO\_t LI: SR: FEO : TIO2 : 10.37 H20.P: AU I CR : MO : V : MGO : 1.80 P205 : 0.16 H20. Mt BA I CU 1 NT : \*\*\*\*\*\* NORMALIZED OXIDES (PYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND 80% FE0, DRY, TOTAL=100%) \*\*\*\*\*\* S102 ; 63.64 AL203: 19.03 FE2D3: 53 NA20 : 9.74 K20 : .57 1102 : 138 FED : 1.92 MGO 1. 1.84 CAD : 2.14 P205 : .16 MND : .04 \*\*\*\*\* OXIDES -- RATIOS AND INDEXES \*\*\*\*\* A-F-M ALKALINITY RATIO : NA BASICITY INDEX : 4.44 : 70.62 16.78 12.6 FED (TOTAL) /MGO : 1.3 ALKALI INDEX :5.53 SOLIDIFICATION INDEX : 12.65 NA20-K20-SI02 : K20/NAZO: . 06 .06 K20/NA20+K20 : FELSIC INDEX : 82.81 HASHIMOTO INDEX : 16.86 MAFIC INDEX :57.11 MARCOTTE INDEX : -3.53 \*\*\*\*\* NORMATIVE MINERALS --- LISTING \*\*\*\*\* DUARTY \* WOLLASTO (DF): 1.26 2 ACMITE MAGNETITE .77 HALITE \* ENSTATIT(DP): .76 CORUNDUM CA-SILICATE : HEMATITE FLUORITE ORTHOCLASE 1 3.38 NA-MSILICATE: \* FERROSIL (DP): ILMENITE THENARDITE : 2 # 80.35 ALBITE K-MSILICATE ' SPHENE PYRITE \* ENSTATIT(HP): ANORTHITE : 6.51 # FERROSIL (HP): WOLLASTONITE PERQUSKITE : CHROMITE DIOPSIDE : 2.45 \* FORSTERS(OL): 2.66 LEUCITE RUTTLE ZIRCON NEPHELITE : 1.12 \* FAYALITE(OL): 1.62 HYPERSTHENE : FLUORAFATITE: CALCITE : .12 KALIOPHILITE: OLIVINE \*\*\*\*: TOTAL\*: 99.71 \*\*\*\*\*\* NORMATIVE MINERALS -- RATIOS AND INDEXES \*\*\*\*\* OR - AB - AN : 3.7 89 7.2 COLOR INDEX : 8.23 TOTAL % FELDSPARS : 0.24 ORTZ- DRTH-PLAG : 3.7 96.3 CRYSTALLIZATION INDEX: 10.81 TOTAL % PLAGIOCLASES: 6.86 DIFFERENTIATION INDEX: PLAGIOCLASE INDEX : \* RITTMAN VALUES \* \*\*\*\*\* MOLE NUMBERS \*\*\*\*\* \*\*\*\*\* RITMAN VALUES \*\*\*\*\* SI : 1.059 FE+2: .027 SI : 63.64 CA : 0 .002 8 - 1 AL: .373 MG : . 046 .012 MN : .001 H20+: .0001 AL: 17.12 ALK : 15.18 K : \* ( FE+3: .007 CA : .038 TI : .005 CO2 : 0 H20-: .0001 FM : 3.7 K : . 03 \*\*\*\*\* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) \*\*\*\*\*\* THIS SAMPLE NA2D : 9,74 (20; .57 MBD : 1.84 NORMAL VALUE 4.56 .88 2.37 GAIN OR LOSS 5.16 -.31-.67 PRIORITY : \*\*\*\*\* LITHONAMES (IF VOLCANIC ROCK) \*\*\*\*\*

TYPE & FIELD NAME :

ROCK NAME BY SID2 1 DACITE

JENSEN LITHONAME : RHYOLITE

1:(

MCDONALD-KATSURA MAGMATI BERIESI ALVALINE IRVINE-BARAGAR MAGMATIC STRIES :

: CALC-ALKALINE

IENT : LAPAUSE SURFACE ISCLAIMER : THE OWNER OF THE	DATA FILE : PROGRAM IS NOT RESPONSIBLE	E FOR ANY PROBLEMS OR E	RRORS THAT MAY ARISE FR	10:23:21AM 17 MAY 87 DM THE USE OF THESE DATA.
**** REFERENCE DATA *****  JTHOR: LAPAUSE YEAR I ROVINCE : TOWNSHIP :	1987 BEFFRENCE L. LAP		T: LONG.:	RECORD NO.: 31680 SAMPLE NO :
COL.AGE: GEOL.PROV.	UTM ZONE :	UTM SQ. IDENT .:	UTM EAST : ROCK T	UTM NORTH : YPE : ROCK NAME :
ONTEXT:	STRATIGRAPHY :	MAGMATIC SERIES	spec. GRAVITY :	•
**** ORIGINAL DXIDES AND TO	RACE ELEMENTS WHEFE	<u> </u>		
102 : 47.50 CAO : 1.8		B: BI:	F : HG :	PB: ZN: SN:
203: 6.10 NA20: 0.0		AS: CO:	LI:	SR:
T102 : 0./		AU : CR :	MO :	V . :
30 : 22.30 P205 : 0.0	05 / H20.Mr	BA : CU :	NI :	W
****	C (	ALCULATIONS .		* * *
**** NORMALIZED OXIDES (PY	RITE REMOVED TE SULFUR. TRI	DN AS 20% FE203 AND 80%	FEG. DRY. TOTAL = 100%) +	****
102 1 53:11 AL203: 6.1	FE2031 2.68	FED : 9.66 MGD :		
20 : .03 K20 : .1	7102 i .45	P205 : .06 MNO :	.2	
#### DXIDES RATIOS AND 1 F-M : .13 33.00		AL)/MGD: .48 AL	KALINITY RATIO : NA	BASICITY INDEX : 25.83
				SOLIDIFICATION INDEX : 67.29 _
0/NA20+K20 4			FELSIC INDEX : 2.39	HASHIMOTO INDEX : 92.34
		San	MAFIC INDEX :33.1	MARCOTTE INDEX : 7.32
**** NORMATIVE MINERALS	LISTING *****			
		MAGNETITE : 3.88	HALITE :	* WOLLASTO(DP):
		HEMATITE : .84	FLUORITE :	* ENSTATIT(DP): * FERROSIL(DP):
BITE 1 .28 K	THORESONIES	SPHENE :	PYRITE :	# ENSTATIT(HP): 62.1
		PEROVSKITE :	CHROMITE :	* FERROSIL(HP): 15.16
		RUTILE :	ZIRCON :	* FORSTERS(OL): * FAYALITE(OL):
	YPERSTHENE : 77.26	FLUORAPATITE: .04	CALCITE : #####:TOTAL#: 99.87	* FAVALITE(OL):
**** NORMATIVE MINERALS -	- PATTOR AND INDEVES			
- AB - AN 1 .9 2.1	8 96.3 COLOR INDEX	: 81.98	OTAL % FELDSPARS : 10	.1
TZ-ORTH-PLAG : 31.2 .		N INDEX: 53.25	TOTAL % PLAGIOCLASES: 0.	01
	DIFFERENTIATIO	N INDEX: 3.55 F	PLAGIOCLASE INDEX :	97
RITTMAN VALUES #				
**** MOLE NUMBERS *****	WALLEY OF THE TOTAL THE TO		##### RITMAN V	
: .884 FE+2: 134 : .134 MG : .619	NA 1 ,001 P K : 0 MN	: .001 S : .000	0 SI : 53.11 01 AL : 6.13	CA : -2 AN : ALK : .06
+3: .034 CA : .036	TI : .006 CO2			K : .33
**** BAINS AND LDSSES BY C	K201 .02 MGO 1 24,94	OF THE ABITIBI VOLCANICE	(DESCARREAUX 1973) **	<b>费费条</b>
RMAL VALUE 3.19	.35 5,66	1		
IN OR LOSS -3.16	33 19.21	PRIORITY :		
	VIC ROCK) ******			
**** LITHONAMES (IF VOLCA)			2. 2. 2. 2. 2	7
COUNALD KATSURA MAGMATIC SERVINE-BARAGAR MAGMA	TEB BUBALKALINE TY	PE & FIELD NAME : BASAL1		

CLIENT: LAPAUSE SURFACE DATA FILE: 10:23:59AM 17 MAY 87

AUTHOR: LAPAUS PROVINCE :	CE DATA ***	***	A THE	21							ND.: 31681
UTHOR: LAPAUS	E YE	AR : 198	87	FERENCE	LAPAUSE					SAMPLE NO	: (1.210)1023
ROVINCE :	TOWNSHIP	1 2 2 2 2 2	Salacation of		and the state of t	NTB	SHEET :	alle i	LONG. :	UTM NORTH :	1
				111191 / 1150	D- 9 [11]	M SQ. IDENT	.: UTM E	EAST :		UTM NORTH :	
EOL.AGE :	GEOL. PRO	JV. 1	GEOL.						RULK ITTE	1 ROCK	NAME :
ONTEXT :		STRA	TIGRAPH	Y	5	MAGMATIC S	ERIES 1	SPEC. 6	RAVITY :		
ESCRIPTION 1	4.25	4 3 5	ALC: NO.	54	1 1 1						
	Service Service		EAST COME		12.4. # 10.						
***** ORIBINAL	- WILDER AN	DINACE	ELEMENTS						DD.		ZN :
102 1 33.70	CHU :	/ /	HNU	1 0.20	S I	CT		F 1	SN	1	ZN:
L203: 15.00		2.81			HG I	CL		HG :		-	
E203: 11.90	KZU :	0.15	LUZ LUDO I		AS L	CO		LI ;			grange is about the company
ED THE	1102 1	0.50	120.1		AU t	CH		MO I		1	
E203; 11.90 E0 : GO : 6.75	L'SNO !	0.10	HZU. P		BA r	LU		NI 1	N -	*	
			-	A PROPERTY OF THE PARTY OF THE	0.01.011.1	A T T O N	5 * * * * *			A M	
					CHLCUL	. H 1 1 U N	3 * * * * *		****	w w	
ARRES NODMALT	ZED DYINCE	/DVDITE	DEMOUED	TE CHI EUD	TOON AC 20%	CEDOT AND	004 EED DD	TOTAL	-100%\ ####		
***** NORMALI	TED OXIDES	TETRIE	KENUVED	IF SULFUR.	THUN HS ZON	, FEZUS AND	BOX FEU. DK	IDIAL	100%) ****		
102 1 34.73	HL2U31	15.35	PEZU.	31 2.43	FEU I 8	A VIII	30 1 6. 71	LAU	1. /./5	CHECK TO THE REAL PROPERTY OF THE PERSON OF	
102 <b>54.95</b> 1A20 : 2.88	K2U I	. 15	1102	1	P205 1	. 1 m	40 1 0 2 2			80-175 - T	7.5
**** OXIDES	PATTOC /	NID THIRE	VEC	# H				See . See			
-F-M	. 14 TT *	נס סס יי	10 AC	EEO/	TOTAL \ /MCO -	1 50	AL KAL THITT	PATTO	. NA	PACICITY IN	IDEY . 18 57
		12.70	34.07	FEUT	K20/NA20 :	1.57	ALKALINIII	CHIID	1 NH	IDIFICATION IN	IDEX : 18.33
IA20-K20-SI02 C20/NA20+K20	N PART	-	75		KZU/NHZU :	.03	HERMET IN	TNIDEY	14.73 SUL	HASHIMOTO I	MEY . 30.07
ZUZNALZUTKZU		THE STREET	A				THAT IC TH	TIMPEY	.41 04	MARCOTTE IN	IDEY 4 - 01
			157				THE I	ADEX	101.04	THROUTTE II	4DEA 1 -471
AAAAA MODMATTI	UE MINEDALS	1.707	TIME ANN				NO. 1844 Aug. 1				a a second secon
HIADTT	4 02	ACMITE	1 1140 8887	***	MACHETITE	: 3.52	HOL T	re	:	* HOLLASTI	(DP): 3.85
CONTRICT I	0.02	CO-SI	TOATE .		UEMATITE	. : 3.52	CLUO	1E		* ENGTATE	7/0014 2 00
PATHON ARE PAR	7-4 o - A	NA_MO!	TI TOATE	4 4 5 5 7 7 7	TIMENITE	97	THEN	APRITE		# EEDDOGTI	(DP): 1.64
U DITE	24 33	PAMOTI	TOOTE .	. 14	COUCHE		DVDT	T.E.		* FNSTATI	(HP) + 15.12
MORTHITE	20 52	MOLLA	STONITE	200	PEROUSKIT	re :	CHRO	HITE	:	* FERROSTI	(HP) + 11-97
FUCITE :	nicha don	DIOPSI	IDE :	7.58	RUTILE	A CONTRACTOR OF THE PARTY OF TH	CHRO	N.		* FORSTERS	S(OL):
NAME OF THE PROPERTY OF THE PR		HYPER	STHENE :	27.09	FLUORAPAT	CITE: .08	CALC	ITE		* ENSTATI * FERROSII * FORSTER * FAYALITI	(OL):
ALTOPHILITE:		OLIVIE	NF :	27.07			****		: 99.81		
THE TOTAL TELE	Cores -	OLIVI									
***** NORMAT	TVE MINERAL	8 RAT	TIOS AND	INDEXES **	****						
						39.16	TOTAL % !	FELDSPAR	S : 3.75		
OR - AB - AN ORTZ-ORTH-PLAG	: 11.3	1.5 87	7.3 (	CRYSTALLIZA	TION INDEX:	43.6	TOTAL % !	PLAGIOCL	ASES: 2.85		1 11 11 11 11
			I	DIFFERENTIA	TION INDEX:	25.23	PLAGIOCLA				
	ES.*	2 4	-W 1_ 1								
RITTMAN VALUE	MBERS ####	H	de . : 17.					*****	RITMAN VALU	ES *****	
**** MOI F NER		122	NA T	.093 P	: .001	8 :	0	SI : 5	4.95 CA	: 2	AN :
**** MOI F NET	FE+2:	171	K :	.003 M	N : .003	H20+:	.0001	AL : 1	3.81 AL	K : 4.47	
RITTMAN VALUE H**** MOLE NU SI : .915	MG : .		TI :	.006 C	02: 0	H20-:	.0001	FM : 1	3.94 K	: .03	
##### MOLE NU	MG : . CA : .	138									
##### MOLE NU SI : .915 % AL : .301	MG : .	138				ATTIBL VOLC	ANICE (DESCA	RREAUX.	1973) ****	*	
FE+3: .03	MG : . CA : .	YCOMPAR	RISONITO	THE AVERAG	ES OF THE AL		** 1*				
FE+3: .03	MG : . CA : .	YCOMPAR	RISON TO	THE AVERAG	es of the AL	JITTO TOCK					
FE+3: .03	MG : . CA : .	YCOMPAR	RISON TO	THE AVERAG	91 98	7777					
***** MOLE NU SI : .915 AL : .301 FE+3: .03	MG : . CA : .	3Y COMPAR 38 K20:	RISON TO 1 .15 .42	MGO : 6.	91 98 97 PRI		24	المر دولي			
##### MOLE NU SI : .915 AL : .301 E+3: .03 ##### BAINB A HIS SAMPLE HORMAL VALUE	MG : CA : ND LOSSES : NA20 : 2.5	3Y COMPAR 38 K20:	. 15	MGO : 6.	91 98		71.11	in a			
HANNE MOLE NUM HE 1 . 915  AL : .301 E+3: .03 HANNE BAINB A HORMAL VALUE HORMAL VALUE HORMAL VALUE	MG : CA : ND LOSSES : NA20 : 2.5	3Y COMPAR 38 K201 58	.42	MGO: 6.	91 98 87 PRI	IORITY:		and the same			
HANNE MOLE NUM HE 1 . 915  AL : .301 E+3: .03 HANNE BAINB A HORMAL VALUE HORMAL VALUE HORMAL VALUE	MG : CA : ND LOSSES : NA20 : 2.5	3Y COMPAR 38 K201 58	.42	MGO: 6.	91 98 87 PRI	IORITY:	24	5.			
HANNE MOLE NUM HE 1 . 915  AL : .301 E+3: .03 HANNE BAINB A HORMAL VALUE HORMAL VALUE HORMAL VALUE	MG : CA : ND LOSSES : NA20 : 2.5	3Y COMPAR 38 K201 58	.42	MGO: 6.	91 98 87 PRI	IORITY:	NDESITE		-		
HIS SAMPLE ADDRESS OF LOSS	MG : CA : ND LOSSES : NAZO : 2.6 3.4 MES (IF VC RA MAGMATIC MASHATIC	EY COMPAR BB K20: IS SB CLCANIC F SERIES:	1 .15 .42 27 ROCK) *** I BUBALK/	MGO : 6. 4. 1.	91 98 87 PRI	IORITY:	NDESITE			W7.0	

TYPE & FIELD NAME 1

BARAGAR LITHONAME :

ROCK NAME BY SID2 1 ANDESITE

JENSEN LITHONAME : THOLEIITIC BASALT

\*\*\*\*\*\* LITHONAMES (IF VOLCANIC ROCK) \*\*\*\*\*\*
MCDONALD KATSURA MAGMATIC BRIES: SUBALKALINE

: THOLEIITIC

IRVINE-BAMAGAR MAGMATIC BERTES :

PRIORITY :

ROCK NAME BY SIO2 ; BASALT

JENSEN LITHONAME : THOLEIITIC BASALT

De

TYPE & FIELD NAME :

BARAGAR : LITHONAME I

GAIN OR LOSS

1.1

\*\*\*\*\*\* LITHONAMES (IF VOLCANIC ROCK) \*\*\*\*\*\*
MCDONALD-KATSURA MAGMATIC BERIES: SUBALKALINE

IRVINE-BARAGAR MAGMATIC MERIES

111

JENSEN MAGMATIC SERIES

-. 25

: THOLEIITIC

2.49

CLIENT : LAPAUSE SURFACE DATA FILE : 10:25:54AM 17 MAY B7 DISCLAIMER : THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT MAY ARISE FROM THE USE OF THESE DATA. \*\*\*\*\* REFERENCE DATA \*\*\*\*\* RECORD NO.: 31684 AUTHOR: LAPAUSE YEAR : 1987 REFERENCE LAPAUSE SAMPLE NO I

NTS SHEET : PROVINCE : TOWNSHIP LAT. UTM SQ. IDENT .: UTM EAST : UTM NORTH : UTM ZONE : GEOL. ENVIRONMENT : ROCK TYPE : ROCK NAME : GEOL. AGE : GEOL. PROV. : STRATIGRAPHY : CONTEXT: MAGMATIC SERIES : SPEC. GRAVITY : DESCRIPTION : \*\*\*\*\* ORIGINAL DXIDES AND TRACE ELEMENTS \*\*\*\*\* CAO : 6.22 MND 1 0.22 S : BI : PB : ZN : SIG2 : 47.30 AL203: 17.10 NA20 : 3.54 LOI : 2.40 AG : CL : HG : SN : AS : CO: SR : FE203: 14.10 K20 : 1.46 C02 LI: TI02 : 0.37 7102 1 0107 1 H20.H1 AU t CR : MO : FEO 1 MGO 1 7.42 BA I CU : NI E

*****	NORMALI	ZED	OXIDES	(PYRITE	REMOVED	IF SULFUR	IRON	AS	20% FE2	3 AND	80%	FEO,	DRY,	TOTAL	100%)	*****			
SI02 :	48.83	()	AL2031	17.65	FE20	31) 2, 91 31 (59	FE.	0 :	10.48	M	60 :	7.6	6	CAO	1 6	.42	NE 354		640
NA20 :	3.65		K20 🔏	1,51	7102	1 1 59	P2	:05 1	.07	: M	NO :	. 2	3				Reliable to	1	53
 *****	OXIDES	F	RATIOS	AND INDE	XES ***	**													

: 19.69 51.09 29.23 FED(TOTAL)/MGD: 1.71 ALKALINITY RATIO : 1.55 BASICITY INDEX : 20.43 NA20-K20-SI02 : 7 K20/NA20: .41 ALKALI INDEX :29.26 SOLIDIFICATION INDEX : 29.55 HASHIMOTO INDEX : 47.66 FELSIC INDEX : 44.56 K20/NA20+K20 : . . 29 MARCOTTE INDEX : -1.05 MAFIC INDEX :63.61

	***** NORMATI	VE MINERALS -	- LISTING **	****									
	QUARTZ :		ACMITE	1	MAGNETITE	2	4.21	HALITE	1	#	WOLLASTO (DP):	1.69	
	CORUNDUM :		CA-SILICATE	1	HEMATITE	1		FLUORITE	1	- #	ENSTATIT(DP):	. 89	
-	ORTHOCLASE 1	B. 9	NA HEILERICATE	10 10 10 10 10 10 10 10 10 10 10 10 10 1	ILMENITE	1	1.11	THENARDITE	1 7	-	FERROSIL (DP):	.76	
	ALBITE :	29.33	K-MSILICATE	1	SPHENE			PYRITE	1	#	ENSTATIT (HP):		
	ANDRIHITE :	27.31	WOLLASTONITE		PEROVSKITE	2		CHROMITE	1	#	FERROSIL (HP):		
	LEUCITE :		DIOPSIDE	: 3.34	RUTILE	2		ZIRCON	1	*	FORSTERS (OL) :	12.71	
	NEPHELITE :	. 86	HYPERSTHENE	1	FLUORAPATITE	:	. 05	CALCITE	:	*	FAYALITE (OL):	11.99	
	KALIOPHILITE:		OLIVINE	: 24.73				****: TOTAL	*: 99.84				
		2005 50 50	April 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	47 -									

\*\*\*\*\* NORMATIVE MINERALS - RATIOS AND INDEXES \*\*\*\*\* . : 33.39 OR - AB - AN : 13.6 44.8 41.7 COLOR INDEX TOTAL % FELDSPARS : 5.54 QRTZ-ORTH-PLAG : 0 13.6 86.4 CRYSTALLIZATION INDEX: 41.94 TOTAL % PLAGIOCLASES: 6.64 PLAGIOCLASE INDEX : 47 DIFFERENTIATION INDEX: 39.09

\* RITTMAN VALUES \* \*\*\*\*\* MOLE NUMBERS \*\*\*\*\* \*\*\*\*\* RITMAN VALUES \*\*\*\*\* P : .001 5 : SI : 48.83 CA : 1 SI : .813 FE+2: .146 AL : 15.88 MN : .003 ALK : 6.98 H20+: .0001 AL : .346 MG : .19 K : .032 C02 : FE+3: .036 0 H20-: .0001 FM : 15.46 K : .21 CA : .114 TI : .007

1 (

\*\*\*\*\* GAINS AND LOSSES BY COMPARISON TO THE AVERAGES OF THE ABITIBI VOLCANICS (DESCARREAUX, 1973) \*\*\*\*\*\* NA20 : 3,45 (C20) 1,51 MGO : 7,66 2,58 22 7.44 THIS SAMPLE NORMAL VALUE .07 PRIORITY : GAIN OR LOSS 1.07

\*\*\*\*\* LITHONAMES (IF VOLCANIC ROCK) \*\*\*\*\* MCDONALD-KATSURA MAGMATIC BERIES! ALKALINE TYPE & FIELD NAME : IRVINE-BARAGAR MAGMATIC SELECTION ROCK NAME BY SIO2 1 BASALT BARAGAR LITHONAME 1.

JENSEN LITHONAME : THOLEIITIC BABALT JENSEN MAGMATIC SERIES : THOLEIITIC

PRIORITY :

ROCK NAME BY SID2 : DACITE

JENSEN LITHONAME : THOLEIITIC BASALT

TYPE & FIELD NAME I

BARAGAR LITHONAME 1

GAIN OR LOSS

JENSEN MAGMATIC SERIES

-3.49

\*\*\*\*\* LITHONAMES (IF VOLCANIC ROCK) \*\*\*\*\* MCDONALD-KATSURA MAGNATIO SERIES: SUBALKALINE

IRVINE-BARABAR MAGNATIC BERIES :

.83

: THOLEIITIC

4.1

2.8

70

13

TYPE & FIELD NAME :

BARABAR LITHONAME :

ROCK NAME BY SID2 : DACITE

JENSEN LITHONAME : THOLEIITIC BASALT

\*\*\*\*\* LITHONAMES (IF VOLCANIC ROCK) \*\*\*\*\* MCDONALD-KATSURA MAGMATIC SERIES: SUBALKALINE ?

主要的 地名美国

JENSEN MAGMATIC SERIES

IRVINE-BARAGAR HAGMATIC BETTER

: THOLEIITIC

(

1 (

micro. 16

TYPE & FIELD NAME :

BARAGAR LITHONAME

ROCK NAME BY SID2 : ANDESITE

JENSEN LITHONAME : THOLEIITIC BASALT

6725

4.16

W7 . 16

MCDONALD-KATSURA HAGMATID BRIEBI BUBALKALINE IRVINE-BARAGAR MAGMATIC BERIES #

: THOLEIITIC

DIBULATME	R : THE O	WNER OF	THE PRO	JURAM IS	NOT RESP	DN21BLE	FUR ANY PE	RUBLEMS OR	ERRORS THAT	MAY ARISE	FROM THE	USE OF TH	ESC DAT	Α.
***** RE	EFERENCE DA	ATA ***		<b>東京は書</b>	101 111 1000			11 - 48-81				RECOR	D NO. : 3	31688
AUTHOR: L	.APAUSE	YE	EAR 1: 19	17 RI	EFERENCE	1 LAPAUS	E	1 100				SAMPLE N		100
PROVINCE.	. tTI	DWNSHIE	1 196. 10	The State of the S	and the same of the			NTB SH	WEET :	LONG.		LAT		
						ONE :	UTM SC	I. I DENT.	UTM EAST			TM NORTH :		
BEDL. AGE	-	EUL. PRO			. ENVIRON		MAGA	INTIC SECT				ROCK	NAME. :	
CONTEXT : DESCRIPTI		11.64 2.44 3.45	5 R/	STATEMENT OF	Y :	5 - 17 17	magr	HILL SERI	ES: SPE	L. UKAYITY	min many			
DESCRIP 11	2 20 43	1	1 FT 1150		1. 100		3 Hele	1.70	100			Taken .		
***** DR	RIBINAL DX	IDES OF	D TRACE	ELEMENT		1.07是海道	Dis.	1	200	12	T. Alegan		1	
S102 : 65			1.32		: 0.05		1	BI :	F		PB :	Complete Special	ZN :	
AL203: 17	7.51 I	NA20 1	8.63	LOI	: 2.00			CL :	HG	-	SN:			
FE203: 3		K20 1		C02		AS		CO :		Anna granne de	SR_1	an instruction decreases and		
FEO :			0.26		Pi	AU	-	CR :			V :	4.7		
MGO : 0	0.51	P205 :	0.21	H20.1	MI TO	BA	1	CU :	NI	:	M z			1 1 1
	227 12 3 3 3 3	133/21 (1.2)		ries in		N 6 6	6.01.4					والتأسي	anni milati m	
		π <b>#</b> 1		n # # # .	n n n n n	* LAL	CULAT	TONS			* * * *			
***** NO	IRMAL TZED	DXIDES	(PYRITE	REMOVED	IF SHE	IR. TRON	AS 207 FET	103 AND 90	% FEO, DRY, T	OTAL = 100%	*****			
S102 1 64	5.44 Sales	AL2031	17.02	FE20	31 -1 49	& CLAPFED	1 2.49	MGO	1 .52	CAO i 1	. 34		185	e-serries.
NA20 : B	3.78	K20	1,29	T102	1.37	P20	521	MNO	: .52 : .05			1	1	E TO TOO
	A CAR CO	64 ( 1)		C. T. Britis	237	You Wast	E							1 1
***** ()X	XIDES R	ATIOS A	AND INDE	XES ****	**									
A-F-M	: 73 -SIO2 :	.11 2	23.11	3.78	FE		/MGO : 5		ALKALINITY RA			BASICITY I		
			2	87	,		'NA20 :	. 15	ALKALI INDEX	- A		FICATION I		
K20/NA20+	+K20 :	. 13	3293		S. Commission	1 W 2 1 B	100			DEX : 88.2		ASHIMOTO I		
				PACTA BY	3. 新文·文·文	Carl C	525		MAFIC INDEX	: 85, 95		MARCOTTE I	NDEX :	-3.31
	JOMATTI T	TANEE	STEEL SECTION	THE COLD	10.5 10.00	W. M	-					المالمكاند		
***** NO QUARTZ	DRMATIVE M 5.8		S LIST			***	NETITE :	1	HALITE			# WOLLAST	n(ne) -	
CORUNDUM				LICATE :			MATITE :	2	FLUORITE			* ENSTATI		
	SE 7.5			LICATE		THE RESERVE OF THE PERSON NAMED IN	Andrew Control of the	.69	THENARDI			* FERROSI		441
	1 74.			LICATE .			ENE :	1.37	PYRITE	1		# ENGTATE	T/UP) .	1.29
ANORTHITE				STONITE			OVSKITE :		CHROMITE	_		* FERROSI	L(HP):	3.49
LEUCITE	:		DIOPS	IDE :		RUT	ILE :		ZIRCON	*		* FORSTER	(DL):	
NEPHELITE				STHENE :	4.78	FLU	ORAFATITE:	.16	CALCITE			* FAYALIT	E(DL):	
KALIOPHIL	LITE:		OLIVI	VE I					*****: TC	TAL*: 99.6	3			
		6		1. 2. The	1		7							
	NORMATIVE							47	TOTAL W FFE	CPARC -	7 17			
DRTT-OPT	- AN :	6.7	8.1 85	5.4	COLUM INL	ZATION *	: 6. NDEX: 6.	14	TOTAL % FELD	IDCI ACEC-	9 54			
wn i z = UKTh	TEHO :	0.0	B. 1 B.				INDEX: 6.		PLAGIOCLASE					
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RITTMAN	N VALUES *		C. C. Sent	4 2450	197									C. Brackette Print
	DLE NUMBER		10 17 17	Provide de	8 355 5	tally in	No.		***	*** RITMAN				
SI : 1.1	106 FE	+2: .		NA 1		P	.003	Si	o si	: 66.44	CA :	0	AN :	to charge representation of the same
AL: .	.35 MG	: .	.013	K :	.027	MN :	.001	H20+: .0	0001 AL	: 16.03	ALK :	14.45		
		: .	.024	TI :	.005	C02 :	0	H20-: .0	0001 FM	: 1.07	K :	. 08		
					-	-	and the second second							4
FE+3: .0	AINS AND L	DSSES L	BY COMPA	RIBON TO	THE AVER	RAGES OF	THE ABITIE	31 VOLCANI	CS (DESCARREA	UX, 1973)	*****			
FE+3: .0	F. NAO	0 : 8.	78 K20	1,28	HBO 1	52			t _	**				
FE+3: .0	A Section 1	4.4	9 11 11	1.08	- F- E- N	1,74		n & consider transition more consider.	m sphare and not t					
FE+3: .0 ****** GA THIS SAMP NORMAL VA	ALUE		97	.2		-1.4	PRIORIT	14:						
FE+3: .0 ****** GA THIS SAMP NORMAL VA	LUE	4.0												
FE+3: .0 ****** GA THIS SAMP NORMAL VA GAIN OR L	LOSS	4.0	OL CANTO	ODCH!	At At 30 to									
FE+3: .0 ***** GA THIS SAMP NORMAL VA GAIN OR L	LOSS ITHONAMES	4.0				- Purse	e green n	AME -	processor and control of the control			2 1	ander	and the state of t
***** GA THIS SAMP NORMAL VA GAIN OR L ***** LI TCDONALD-	LOSS	4.0 (IF VC	C BERIES	SUBALK	AL INE		& FIELD NA		IDACTTE		7.			all of the filter of the filter on the filter of the filte

( 1 CLIENT : LAPAUSE SURFACE DATA FILE I 10:29:05AM 17 MAY 87 DISCLAIMER: THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT MAY ARISE FROM THE USE OF THESE DATA. \*\*\*\*\* REFERENCE DATA \*\*\*\*\* **RECORD NO.: 31689** AUTHOR: LAPAUSE YEAR : 1987 REFERENCE : LAPAUSE SAMPLE NO : TOWNSHIP : PROVINCE : LAT . : NTS SHEET : LONG. : UTM SQ. IDENT.: UTM EAST : UTM ZONE : UTM NORTH : GEOL. AGE : GEOL. PROV. : GEOL. ENVIRONMENT : ROCK TYPE : ROCK NAME : CONTEXT : STRATIGRAPHY MAGMATIC SERIES : SPEC. GRAVITY : DESCRIPTION : \*\*\*\*\* ORIGINAL OXIDES AND TRACE EL 5 : BI : PB: SID2 : 45.85 CAO : 7.94 MNO : 0.12 ZN : AL203: 6.30 NA20 : 0.29 LDI : 7.37 AG : CL: HG : SN: FE203: 10.52 K20 : 0.81 C02 AS : CO : LI: SR : FEO : TID2 4 0431 H20. P1 MO : V : AU 1 CR t H20.H: P205 : 0.11 MGO : 23.37 BA 1 CU: NI : W : \*\*\*\*\*\* NORMALIZED DXIDES (PYRITE REMOVED IF SULFUR, IRON AS 20% FE203 AND 80% FE0, DRY, TOTAL=100%) \*\*\*\*\*\* SIO2 : 48.38 AL203: 6.65 FE203: 2.22 NA20 : .31 K20 : .85 TIO2 : .33 FEO 1 7.99 MGO 1 24.66 CAC : 8.38 26 ( P205 : .12 MND : .13 \*\*\*\*\* OXIDES -- RATIOS AND INDEXES \*\*\*\*\* : 3.22 28.34 FED (TOTAL) /MGO : ALKALINITY RATIO : 1.17 BASICITY INDEX : 26.73 NA20-K20-SI02 : K20/NA20 : 2.74 ALKALI INDEX :73.28 SOLIDIFICATION INDEX : 68.87 K2D/NA20+K20 : .73 HASHIMOTO INDEX : 74.59 FELSIC INDEX : 12.16 MAFIC INDEX :29.28 MARCOTTE INDEX : 5.63 \*\*\*\*\* NORMATIVE MINERALS -- LISTING \*\*\*\*\* QUARTZ : ACMITE MAGNETITE : 3.21 HALITE \* WOLLASTO (DF): 11.09 CORUNDUM \* ENSTATIT(DP): 8.29 CA-SILICATE : HEMATITE FLUORITE ORTHOCLASE : 5.05 # FERROSIL (DP): 1.69 NA-MBILICATE THENARDITE ILMENITE . ALBITE 1 2.58 K-MSILICATE # ENSTATIT(HP): 21.22 SPHENE PYRITE ANDRIHITE WOLLASTONITE \* FERROSIL (HP): 4.33 : 14,24 PEROVSKITE : CHROMITE DIOPSIDE : 21.08 : \* FORSTERS(OL): 22.29 LEUCITE ZIRCON RUTILE ( NEPHELITE HYPERSTHENE : 25.56 FLUORAFATITE: .09 CALCITE \* FAYALITE(OL): 5.02 : KALIOPHILITE: **DLIVINE** : 27.37 \*\*\*\*\*: TOTAL\*: 99.8 \*\*\*\*\*\* NORMATIVE MINERALS -- RATIOS AND INDEXES \*\*\*\*\* OR - AB - AN : 23.1 11.8 65.1 COLOR INDEX : 77.84 TOTAL % FELDSPARS : 1.87 QRTZ-DRTH-FLAG : 0 23.1 76.9 CRYSTALLIZATION INDEX: 69.28 TOTAL % PLAGIOCLASES: 6.82 DIFFERENTIATION INDEX: 7.63 PLAGIOCLASE INDEX : \* DITTMAN HALLEC \* " ( (

MG :		K :		:	.002	H20+: .	0001	AL :	5. 98	Δ1 V	: 1.31		
E4 .	1.40								4. ,0	PILE	. 1.51		
WH .	. 149	TI :	.004 CO	2:	0	H20-: .	.0001	FM :	49.43	K	: .64		
S AND LOSSE	S BY COMF	ARISON TO	THE AVERAGE	B OF	THE ABITI	BI VOLCAN	VICE (DESC	ARREAUX.	1973)	*****			
NA20 :		MET AND THE ST. IN.	A THE RESERVE TO SERVE THE PARTY OF THE PART	1 1 1	200				2.0			76	2 10
E S. D.	2.52	22 2 2	7.6	4	1				-			Linear Contract	
S -	-2.22	. 65	16.8	5	PRIORI	TY:							
	NA20 :	NA20 : .31 K	NA20: .31 K20; .85 2.52 .21	NA20 : .31 K20: .85 H80 1 24.6	NA20 : .31	NA20 : .31 K20: .85 H80 : 24.66	NA20 : .31 K20: .85 M80 E 24.66 2.52 7.64	NA20 : .31 K20: .85 H90 : 24.66	NA20 : .31 K20: .85 M90 E 24.66 2.52 7.64	NA20 : .31 K20: .85 H80 : 24.66 2.52 7.64	2,52	NA20 : .31 K20 .85 H90 1 24.66	NA20: .31 K20: .85 N90 : 24.66

JENSEN LITHONAME : MAGNESIUM RICH THOLEIITE

: KOMAIITIC

JENSEN MAGMATIC SERIES

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BARAGAR LITHONAME :

JENSEN LITHONAME : MAGNESIUM RICH THOLEIITE

: KOMAIITIC

TYPE & FIELD NAME I

BARAGAR LITHONAME

JENSEN LITHONAME : BASALTIC KOMATIITE

\*\*\*\*\*\* LITHONAMES (IF VOLCANIC ROCK) \*\*\*\*\*\*
MCDONALD-KATSURA MAGMATIC BERIES: BUBACKALINE

: KOMAIITIC

IRVINE-BARAGAR MAGMATIC BERIES

CLIENT: LAPAUSE SUFFACE DATA FILE: 10:30:59AM 17 MAY 87
DISCUALMER: THE OWNER OF THE PROGRAM IS NOT RESPONSIBLE FOR ANY PROBLEMS OR ERRORS THAT MAY ARISE FROM THE USE OF THESE DATA.

**** REFERENCE										RECO	RD NO.:	31692
UTHOR: LAPAUSE	YEAR	: 1987	REFER	RENCE :	LAPAUSE					SAMPLE !	NO :	
ROVINCE :					. 5		NTS SHEET	T : UTM EAST :	LONG. 1	LA	T. 2	
				UTM ZOI	NE :	UTM SQ. 1	DENT.:	UTM EAST :		LITH NORTH	:	
EOL.AGE :	GEOL PROV.	:	GEOL. FI	NVIRDNM	ENT :				ROCK TYPE	· RAC	K NAME	
	occur, nerv						TO SERVER	: SPEC.			ic lavarie.	
ESCRIPTION :					West.	TIMPLINI	al. Julyaku	the same public being	MINITED ALL IN THE STREET			
ESCRIPTION:	V This is										1 1	
**** DRIGINAL	-	TOARE ELL		ebeni	See See See	W. Tar Alice					1 6 6	S-381
THERE UKIGINAL.	JAADER AND	INACE ELI	EFFEN IS N	*****	-	and refreshers tradely the above and the second	# P					man and the same of the same
102 : 66.32 L203: 15.12	CAU : 2	. 10	MNU :	0.03	5 :		B1 :	F:			ZN :	
L205: 15.12	NA20 : 5	. 15	LOI :	3.27	AG :		CL :	HG:	SN	;		
E203; 2.99	K20 ; 3	.00	C02 :		AS :	- Marriagna was Majayaa	CO ;	LI.:				
E203: 2.99 E0 : IGO : 1.59	TI02 1 0	.34	H20.P1		AU 1		CR I	MO :			1	4 7
IGO : 1.59	P205 1 0	.05	H20.M1		BA I	X 7 - 33 -	CU :	NI :	W	2	4	
	THE RESIDENCE		\$130 Oct.		A-11-11	# 4 ms.				Total Control		
	* * * *	* * * *	* * * *	* * * :	* CAL	CULATI	0 N S *	* * * * * * *	* * * * * *	* *		
					V							
***** NORMALIZE	D OXIDES (F	YRITE RE	MOVED IF	SULFUR	. IRON A	8 20% FE203	AND 80%	FEO. DRY. TOTA	L=100%) ****	**		
102 : 68.76 1920 : 5.34	AL 2031, 15	. 68	FE203:	162	FEO	2.23	MBO :	1.65 CA	0 : 2.18			e-117 To
A20 : 5.34	K20	Sec. 1895	T102 1	35	PONT	05	MNO	. 03				1 3
1346		WELL OF	Carlo St.	The state of the s	Joy Town	1						
												-
-E-M	45 25 22	01 12	74	EED	(TOTAL)	MEO . 4 A	O A1 I	VALINITY DATIO		DACICITY	THINEY .	A 77
-F-M : A20-K2D-\$102 :	7	12.	00	FEU	VOD /N	A20	7 ML7	MULTINITY WHILL	HFF 6 0 45.	HOTTATION	INDEX :	12.0
30 (NA20 / EQ.	- hg-ng	4	57	A CHARLES	KZU/N	MZU 1 15	oALI	HLI INDEX	136.8 50L	TRIFICATION	TAIDEX 1	70.74
20/NA20+K20 :	-3/		Bright Co	2 12 1			140	FELSIC INDEX	1 79.49	HASHIMOTO	INDEX 1	38.76
	4 14 1	1 1	200	A Back	1	A Probable	7	MAFIC INDEX	163.33	MARCOTTE	INDEX :	-1.2
· · · · · · · · · · · · · · · · · · ·	41.7	7,7	4. 2.9	CONT. SAME	arm.	36 2 2 2 2 2					3	7 703-1
***** NORMATIVE UARTZ : 17	MINERALS -	- LISTIN	G *****									
UARTZ : 17	.61	ACMITE	:		MAGN	ETITE :	. 89	HALITE FLUORITE	1	* WOLLAS	TO (DP):	. 35
ORUNDUM :		CA-SILIC	ATE :		HEMA	TITE :		FLUORITE	:	* ENSTAT	IT(DP):	.19
RTHOCLASE : 18	. 38	NA-MSILI	CATE	T. 15.20	ILME	NITE	.66	THENARDITE	1	* FERROS	IL (DP)	714
LBITE : 45	.18	K-MSILIC	ATE I	SUID C	SPHE	NE I		PYRITE	1	* ENSTAT	IT(HP):	3.91
NORTHITE : 9	.62	WOLLASTO	NITE		PERO	VSKITE :		CHROMITE	ì	* FERROS	IL (HP):	2.91
EUCITE :		DIOPSIDE	:	. 68	RUTI	LE :		ZIRCON	:	* FORSTE	RS (OL):	
EPHELITE :		HYPERSTH	ENE : 6	.83	FLUO	RAPATITE:	.04	CALCITE	:	* FAYALI	TE (OL):	
ORTHOCLASE: 18 NLBITE: 45 NORTHITE: 9 LEUCITE: MEPHELITE: MALIOPHILITE:		OLIVINE	:					***** TOTAL	*: 99.89			
	40.5	45 37 3 3 -	5 3									
***** NORMATIV	F MINERAL B	RATTO	S AND TH	DEXES .	****	-						
R - AR - AN	25.1 41	7 13	1 COL	DR TNDE	Y	1 9.04	T	OTAL Y FELDERA	85 + 3.18			
DET7-DETH-PLAC	19 4 20	2 40 4	CDV	STALL TT	ATTON TH	DEY: 12 77	T1	DIAL V PLACTOR	1 ACEC: 54 0			
R - AB - AN : RTZ-ORTH-PLAG :	17.4 20	.2 00.4	DIC	CEDENTT.	ATTOM IN	DEY: 12.//	4 9	DIME A LEMOTOR	EY . 1	R		
			DIFF	CENERIT	WITOM TM	Pr. 1 00.0	U PI	THOIDCEMBE IND	mv . 1			
RITTMAN VALUES	*					and every reference or the						
***** MOLE NUMB								****	RITMAN VALUE	CC HEREE		
T . 4 (AA	ELADA II AT			70		001		ππππππ Λ CT -	PATICIMIN AHERI		AN -	
1 1.194	TETZI .03	1 NA	1 1	14	MAI	.001 8		0 51 1.	00./0 UA	14 10	AN :	
SI : 1.144 BL : .308 E+3: .008	ns : .04	1 K	: .04	66	mn :	0 H2	n+: .000	1 AL :	14.11 AL	K : 11.12		
F+2: '008	TH : .03	A LI	: .0	04 (	C02 :	Q . H2	U-: .000	I FM :	3.33 K	: .27		
						-		AN ADMINISTRATION OF THE PARTY				
	LOSSES BY	COMPARIS	ON TO THE	E AVERA	BEB OF T	HE ABITIBI	VOLCANICS	(DESCARREAUX,	1973) ****	*		The second
**** GAINS AND	A2D 1. 5.34	K20:	3.11 M	GO : 1	65	i tali taras			1			2.7
***** GAINS AND HIS SAMPLE N	4.7	极为一生	1.26	3 4 1	31				and the second		-	4-1-640
HIS SAMPLE N	LA		1.85		. 16	PRIORITY	:					
HIS SAMPLE N	.04											
HIS SAMPLE N	. 64											
HIS SAMPLE N ORMAL VALUE GAIN OR LOSS		ANIC ROC	K) ****	*								
HIS SAMPLE NORMAL VALUE HAIN OR LOSS	s (IF VOLC	ANIC ROC	() ****	*	STYPE L	FIFT NAME	*		57.5			100000
HIS SAMPLE N IDRMAL VALUE AIN OR LOSS  ***** LITHONAME ICDONAL D-KATSURA	S (IF VOLC	ERIES: S	UBALKAL TI	NE	TYPE I	FIELD NAME	I PHYDDAI	PITE			11/2	1
HIS SAMPLE NORMAL VALUE AIN OR LOSS  ***** LITHONAME COONALD-KATSURA	S (IF VOLC	ERIES: S	UBALKAL TI	NE	TROCK N	AME BY SID2	: RHYDDAI	CITE		me de la late		1
HIS SAMPLE NORMAL VALUE AIN OR LOSS	S (IF VOLC MAGMATIC & AGMATIC BER	ERIES: S	UBALKALTI	NE.	BARAGA	FIELD NAME AME BY 8102 A LITHONAME LITHONAME	RHYDDA	CITE		A .		

31546   R210003   74,92   38,42   2.33   CAL   .04   1.09   .02		R210061 R210062	Management of the second secon	69.70	25.47		CAL	06		.18
Siste   R210002		THE RESERVE OF THE PARTY OF THE			and the second second second					THE PARTY NAMED IN
Sista   R210002   R210004   R210005   R210004   R210005   R210004   R210005   R210006   R21000		R210059		56.13	16.12		THL	-2.24	12	
Sib54   R210002   R210002   R21002										
Sib54   R210002   66.20   21.77   Ch.   .9   .9   .1.05   31545   R210004   69.62   24.42   .91   Ch.   .97   .72   .72   .73   .73   .74   .70   .73   .74   .70   .73   .74   .70   .73   .74   .70   .75   .74   .70   .75   .74   .70   .75   .74   .70   .75   .7			3							
Sib54   R210002   66.20   21.57   Chl.   -9   -9   -1.05   31554   R210004   69.62   24.42   -9.10   Chl.   -73   -2.4   -0.2					24.98	.81				
Sista   R210002					_,					
Sib54   R210002   R210002   R210003   R210004   R210003   R210004   R210003   R210004   R210003   R210004   R210004   R210004   R210006   R210004   R210006   R210006   R210006   R210006   R210006   R210006   R210007   R210006   R210006   R210007   R210006   R210006   R210007   R210006   R210006   R210007   R210006   R210006   R210006   R210007   R210006   R210006   R210007   R210006   R210007   R210006   R210007   R210006   R210007   R210007   R210006   R210007   R210006   R210007   R210006   R210007   R210007   R210006   R210007   R210003   R210004   R210005   R210005   R210005   R210005   R21000			24.7 e. g-1612.4 (g)							
Sib5d   R210002						2,70				
Sib54   R210002   CAL					8.97					
Sis5a   R210002   66, 20   21, 37										
Sis5a   R210002   66.20   21.37										
Sis5a   R210002   66, 20   21, 37								-1.49	1	1.89
Sis64   R210002   R210003   R210004   R210003   R210004   R210005   R210004   R210005   R210006   R210006   R210006   R210006   R210006   R210006   R210006   R210006   R210007   R210006   R210006   R210007   R210006   R210006   R210006   R210007   R210006   R210006   R210007   R210009   R210008   R210000   R210009   R210000   R210009   R210000   R210000   R210000   R210000   R21000   R210000   R2100000   R210000   R2100000   R21000000   R2100000   R21000000   R2100000   R21000000   R21000000   R21000000   R21000000   R21000000   R21000000000000000000000000000000000000	31605	R210048		68.58	16.33		CAL	1.89	.2	06
Sis64   R210002   R210003   R210004   R210003   R210004   R210005   R210004   R210005   R210006   R210006   R210006   R210006   R210006   R210006   R210006   R210006   R210007   R210006   R210006   R210007   R210006   R210006   R210006   R210007   R210006   R210006   R210007   R210009   R210008   R210000   R210009   R210000   R210009   R210000   R210009   R210000   R210000   R21000   R210000   R2100000   R210000   R2100000   R21000000   R2100000   R21000000   R2100000   R21000000   R21000000   R21000000   R21000000   R21000000   R21000000000000000000000000000000000000	31604 -	R210046		63.52			CAL	5.51	4	-1.39
Sis63   R210002   66.20   21.37	31603	R210045		53.32	5.79		THL	98	11	1.81
31565   R210003   74,92   38,42   2.33   CAL   .94   .97   .97   1.05   31565   R210004   69,62   24,42   .91   CAL   .73   .724   -1.02   31566   R210005   65,97   25,71   CAL   .73   .724   -1.02   31567   R210006   71,70   25,83   1.80   CAL   .1.22   -0.03   .73   31568   R210007   64,84   20,05   .39   CAL   .1.22   -0.03   .73   31569   R210009   71,128   27,00   .72   CAL   .96   .59   -87   31570   R210009   75,76   34,70   CAL   .11   .145   -2.5   31571   R210010   75,76   34,70   CAL   .11   .145   -2.5   31572   R210011   66,35   22,76   CAL   .220   CAL   .237   5,055   31573   R210012   70,37   22,45   22,26   CAL   .11   .145   -2.5   31574   R210013   70,37   22,45   22,26   CAL   .11   .146   -7.1   31575   R210014   71,53   33,91   3,49   CAL   .14   .148   .75   31576   R210015   70,37   22,45   22,70   CAL   .14   .148   .75   31577   R210016   70,37   22,46   .17   .17   .106   .79   31578   R210017   70,37   22,46   .17   .17   .106   .79   31578   R210018   70,37   .17   .10   .10   .10   .10   31578   R210019   75,74   .10   .10   .10   .10   .10   .10   31581   R210020   75,74   .10   .11   .2   .37   31582   R210021   75,74   .2   .10   .11   .2   .37   31583   R210022   71,61   .2   .40   .11   .7   .6   .2   .2   .2   31584   R210022   71,61   .2   .40   .11   .7   .6   .2   .2   .2   .2   31585   R210027   71,61   .2   .40   .11   .7   .6   .2   .4   .4   .4   .4   .4   .4   .4		R210044		53, 48						
31565   R210003   74,92   38,42   2.33   CAL   .94   .97   .97   1.05   31565   R210004   69,62   24,42   .91   CAL   .72   .724   -0.02   31565   R210005   69,62   24,42   .91   CAL   .72   .724   -0.02   31567   R210006   71,70   25,83   1.80   CAL   1.22   -0.3   .73   31568   R210007   64,84   20,05   .39   CAL   .72   -0.24   .73   31569   R210008   71,28   27,00   .72   CAL   .96  57  54   31570   R210009   75,76   34,70   CAL   .96  57  54   31570   R210010   54,42   2.76   CAL   .22   .95   .89   31572   R210011   68,35   22,06   1.72   CAL   .98  31   .14   31573   R210012   70,37   26,48   2.25   CAL   .14   .98  51   .14   31574   R210013   70,37   26,48   2.25   CAL   .14   .48  61   31575   R210014   71,53   33,91   34,9   CAL   .16   .98   .91   31576   R210015   64,36   22,90   CAL   .10   6.08   .91   31577   R210016   55,89   8,26   THL   .09   .05   .25   31578   R210017   66,15   15,68   12,29   THL   .11   .2   .72   31579   R210018   55,49   12,29   THL   .11   .1   .2   .72   31580   R210020   55,21   12,78   THL   .1.14   .28   .21   31581   R210022   55,03   12,29   55,05   THL   .10   .10   31588   R210022   71,61   23,40   1.11   CAL   .73   .73   31589   R210033   54,72   12,29   THL   .1.14   .2   .2   .2   31598   R210027   55,03   32,90   CAL   .1.16   .1.2   .2   .2   31599   R210034   71,42   71,42   71,44   .1.55   .14   .2   .3   31599   R210034   71,42   71,44   .1.55   .14   .										
\$15.65   \$210002   \$7.49   \$3.54   \$2.033   \$CAL   \$7.9   \$7.97   \$1.00   \$3.554   \$8210003   \$7.49   \$3.64   \$2.033   \$CAL   \$7.97   \$7.00   \$3.555   \$8210004   \$69.62   \$24.42   \$9.1   \$CAL   \$7.73   \$-24   \$-0.2   \$3.556   \$8210006   \$69.62   \$24.42   \$9.1   \$CAL   \$7.73   \$-24   \$-0.2   \$3.556   \$8210006   \$71.70   \$25.83   \$1.80   \$CAL   \$1.22   \$-0.3   \$2.02   \$4.6   \$1.00   \$3.556   \$8210006   \$71.70   \$25.83   \$1.80   \$CAL   \$1.22   \$-0.3   \$2.02   \$4.6   \$1.00   \$3.556   \$8210006   \$71.70   \$25.83   \$1.80   \$CAL   \$1.22   \$-0.3   \$2.02   \$4.6   \$4.02   \$4.6   \$4.02   \$4.6   \$4.02   \$4.6   \$4.02   \$4.6   \$4.02   \$4.6   \$4.02   \$4.6   \$4.02   \$4.6   \$4.02   \$4.6   \$4.02   \$4.6   \$4.02   \$4.6   \$4.02   \$4.6   \$4.02   \$4.6   \$4.02   \$4.6   \$4.02   \$4.6   \$4.02   \$4.6   \$4.02   \$4.6   \$4.02   \$4.6										
\$15.65   \$210002   \$21.37										
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\$1565   \$210002   \$66,20   \$21,37   \$CAL   .9										
\$1565   \$210002   \$66, 20   \$21, 37   \$CAL										
\$31565   \$210002   \$64, 20   \$21, 37										
\$\frac{3}{3} \frac{56}{6}  \text{R210002}  \text{R210003}  \text{R210004}  \text{R210004}  \text{R210004}  \text{R210004}  \text{R210004}  \text{R210004}  \text{R210006}  \text{R210006}  \text{R210006}  \text{R210006}  \text{R210006}  \text{R210006}  \text{R210006}  \text{R210006}  \text{R210007}  \text{R210006}  \text{R210007}  \text{R210006}  \text{R210007}  \text{R210006}  \text{R210009}  \text{R210010}  \text{R210010}  \text{R210010}  \text{R210010}  \text{R210010}  \text{R210010}  \text{R210011}  \text{R210010}  \text{R210010}  \text{R210012}  \text{R210012}  \text{R210012}  \text{R210013}  \text{R210015}   \text{R210015}  \text{R210015}  \text{R210015}  \text{R210015}  \text{R210016}  \text{R210016}  \text{R210019}   \text{R210019}  \text{R210016}  \text{R210019}  \text{R210029}  \text										
\$\frac{31565}{31564}						1.31				
\$1563   \$R210002   \$66.20   \$21.37										
31565   R210002   66.20   21.37   CAL   .9   .99   1.05     31564   R210003   74.92   38.42   2.33   CAL   .04   1.09   .03     31565   R210004   69.62   24.42   .91   CAL   .73   -24   -02     31566   R210005   65.92   25.71   CAL   .2.02   .46   1.02     31567   R210006   71.70   25.83   1.80   CAL   1.22   .0.3   .27     31568   R210007   64.84   20.05   .39   CAL   .26   .59  69     31569   R210008   71.28   27.00   .72   CAL   .96  57  54     31570   R210010   75.76   34.70   CAL   1.11   .1.45   .25     31571   R210010   75.42   2.76   CAL   .201   3.37   5.03     31572   R210011   68.35   22.06   1.92   CAL   .98  31   1.4     31573   R210012   70.39   26.45   2.25   CAL   .12   1.36  75     31574   R210013   70.32   26.48   CAL   .14   .48   .61     31575   R210015   64.36   22.90   CAL   .14   .48   .61     31576   R210015   64.36   22.90   CAL   .10   .08   .91     31577   R210016   55.89   8.26   THL   .09   .05   -2.2     31578   R210017   66.15   15.68   1.27   CAL   2.15   -2   .72     31579   R210018   55.49   12.29   THL   -1.06   .08   .91     31580   R210019   57.74   CAL   2.86   -36   -36   -38     31581   R210020   55.03   12.29   5.58   THL   -1.45   -2.1   1.05     31584   R210022   71.61   23.40   THL   -1.45   -2.1   1.05   -38     31586   R210028   71.61   23.40   THL   -1.55   -1.6   -3     31586   R210029   54.72   13.57   THL   -1.55   -1.6   -3     31586   R210029   54.79   54.79   THL   -1.55   -1.6   -3     31586   R210029   54.79   54.79   THL   -1.55   -1.6   -3     31586   R210029   54.79   8.78   THL   -1.55   -1.6   -3     31586   R210029   54.79   8.78   THL   -1.55   -0.2   -72     31586   R210029   54.79   8.78   THL   -1.55   -0.2   -72     31587   R210029   54.79   8.78   THL   -1.55   -0.2   -72     31588   R210029   54.79   8.78   THL   -1.55   -0.2   -72     31588   R210029   54.79   8.78   THL   -1.55   -0.2   -72     31586   R210029   54.79   8.78   THL   -1.55   -0.2   -72     31588   R210029   54.79   8.78   THL   -1.55   -0.2   -72     31588   R					21.86	1.73				
\$1563   \$120002   \$66.20   \$21.37   \$CAL   .9   .99   1.05     \$31564   \$8210003   \$74.92   \$38.42   \$2.33   \$CAL   .04   1.09   .03     \$31565   \$8210004   \$69.62   \$24.42   .91   \$CAL   .73   .724   .02     \$31566   \$8210005   \$65.92   \$25.71   \$CAL   \$2.02   .46   1.02     \$31567   \$8210006   \$71.70   \$25.83   1.80   \$CAL   .22   .03   .23     \$31568   \$8210007   \$64.84   \$20.05   .39   \$CAL   .26   .59   .69     \$31569   \$8210008   \$71.28   \$27.00   .72   \$CAL   .96   .25   .57   .54     \$31570   \$8210009   \$75.76   \$34.70   \$CAL   .96   .57   .54     \$31571   \$8210010   \$54.42   2.76   \$CAL   .96   .57   .54     \$31572   \$8210012   \$70.39   \$26.45   2.25   \$CAL   .12   1.36   .75     \$31573   \$8210012   \$70.39   \$26.45   2.25   \$CAL   .12   1.36   .75     \$31574   \$8210013   \$70.32   \$26.48   \$CAL   .14   .48   .61     \$31575   \$8210014   \$71.53   \$33.91   3.49   \$CAL   .14   .48   .61     \$31575   \$8210015   \$64.36   \$22.90   \$CAL   .10   .90   .05   .22     \$31576   \$8210017   \$66.15   13.68   1.27   \$CAL   2.15   .22   .22     \$31579   \$8210016   \$55.89   8.26   THL   .09   .05   .22     \$31579   \$8210016   \$55.49   12.29   THL   .11   .12   .37     \$31580   \$8210017   \$55.03   12.29   5.58   THL   .14   .48   .14     \$31575   \$8210016   \$55.03   12.29   5.58   THL   .14   .73   1.62   .58     \$31581   \$8210022   \$54.72   13.57   THL   .14   .48   .21   .31     \$31585   \$8210022   \$54.72   13.57   THL   .14   .48   .21   .31     \$31586   \$8210022   \$54.72   13.57   THL   .14   .48   .21   .31     \$31585   \$8210022   \$54.72   13.57   THL   .15   .16   .38   .38   .38   .38   THL   .48   .21   .38	31589		7-4				CAL	.01	. 33	3.56
\$1563   \$R210002   \$66.20   \$21.37   \$CAL   \$.7   \$.99   \$1.05     \$31564   \$R210003   \$74.92   \$38.42   \$2.33   \$CAL   \$.04   \$1.09   \$.03     \$31565   \$R210004   \$69.62   \$24.42   \$.91   \$CAL   \$.73   \$-24   \$-02     \$31566   \$R210005   \$65.92   \$25.71   \$CAL   \$2.02   \$.46   \$1.02     \$31567   \$R210006   \$71.70   \$25.83   \$1.80   \$CAL   \$1.22   \$.03   \$2.33     \$31568   \$R210007   \$64.84   \$20.95   \$39   \$CAL   \$1.22   \$.03   \$2.33     \$31579   \$R210008   \$71.28   \$27.00   \$72   \$CAL   \$.96   \$-57   \$-54     \$31570   \$R210010   \$75.76   \$34.70   \$CAL   \$1.11   \$-1.45   \$-25     \$31571   \$R210010   \$75.76   \$34.70   \$CAL   \$1.11   \$-1.45   \$-25     \$31572   \$R210011   \$68.35   \$2.06   \$1.92   \$CAL   \$.98   \$-31   \$1.4     \$31573   \$R210012   \$70.39   \$26.45   \$2.25   \$CAL   \$-1.2   \$1.36   \$-75     \$31574   \$R210013   \$70.32   \$26.48   \$CAL   \$-1.14   \$48   \$-61     \$31575   \$R210014   \$71.53   \$33.91   \$3.49   \$CAL   \$-1.06   \$08   \$-91     \$31576   \$R210015   \$55.89   \$8.26   \$THL   \$0.99   \$0.5   \$-2.21     \$31578   \$R210017   \$66.15   \$13.68   \$1.27   \$CAL   \$2.15   \$-2.2   \$2.25   \$31579   \$210018   \$35.49   \$12.29   \$THL   \$-1.11   \$-2   \$37   \$31580   \$R210019   \$57.74   \$CAL   \$2.86   \$-36   \$-18   \$31585   \$R210022   \$54.72   \$13.57   \$THL   \$-1.45   \$-21   \$1.05   \$31585   \$R210022   \$54.72   \$35.77   \$THL   \$-1.45   \$-21   \$1.05   \$31585   \$R210022   \$54.72   \$35.77   \$THL   \$-1.45   \$-21   \$1.05   \$31585   \$R210022   \$54.72   \$35.77   \$THL   \$-1.45   \$-21   \$1.05   \$31585   \$R210022   \$35.43   \$7.49   \$THL   \$-4   \$-0.04   \$-1.3   \$31585   \$R210028   \$35.49   \$1.10   \$35.49   \$1.11   \$-2.2   \$35.65   \$35.69	31588	R210030	Years will be a second	70.80	18.42	.31	CAL	2.44	. 1	34
\$1563   \$R210002   \$66.20   \$21.37   \$CAL   \$.9   \$.99   \$1.05     \$31564   \$R210003   \$74.92   \$38.42   \$2.33   \$CAL   \$.04   \$1.09   \$.02     \$31565   \$R210004   \$69.62   \$24.42   \$.91   \$CAL   \$.73   \$-24   \$-02     \$31566   \$R210005   \$65.92   \$25.71   \$CAL   \$2.02   \$.46   \$1.02     \$31567   \$R210006   \$71.70   \$25.83   \$1.80   \$CAL   \$1.22   \$03   \$.25     \$31568   \$R210007   \$64.84   \$20.05   \$.39   \$CAL   \$.22   \$05   \$.25     \$31569   \$R210009   \$71.28   \$27.00   \$.72   \$CAL   \$.96   \$57   \$54     \$31570   \$R210009   \$75.76   \$34.70   \$CAL   \$1.11   \$-1.45   \$25     \$31571   \$R210010   \$54.42   \$2.76   \$CAL   \$2.01   \$2.37   \$5.03     \$31573   \$R210012   \$68.35   \$22.06   \$1.92   \$CAL   \$.98   \$31   \$1.4     \$31573   \$R210012   \$70.37   \$26.48   \$2.25   \$CAL   \$12   \$1.36   \$75     \$31574   \$R210013   \$70.32   \$26.48   \$CAL   \$12   \$1.36   \$75     \$31576   \$R210014   \$71.53   \$33.91   \$3.49   \$CAL   \$92   \$.25   \$0.5     \$31576   \$R210016   \$55.89   \$8.26   \$THL   \$0.9   \$0.5   \$-2.21     \$31579   \$R210016   \$55.89   \$8.26   \$THL   \$0.9   \$0.5   \$-2.21     \$31579   \$R210018   \$55.49   \$12.29   \$THL   \$-1.11   \$-2   \$22     \$31580   \$R210019   \$55.41   \$12.78   \$THL   \$-1.45   \$21   \$1.05     \$31581   \$R210021   \$35.03   \$12.29   \$5.58   THL   \$-1.45   \$21   \$1.05     \$31584   \$R210022   \$34.72   \$13.57   \$THL   \$-1.55   \$-1.16   \$3     \$31585   \$R210027   \$31.586   \$R210028   \$31.49										
\$1565   \$1210002   \$66.20   \$21.37   \$CAL   \$79.99   \$1.05     \$31564   \$8210003   \$74.92   \$38.42   \$2.33   \$CAL   \$0.04   \$1.09   \$0.02     \$31565   \$8210004   \$69.62   \$24.42   \$91   \$CAL   \$73   \$-2.4   \$-0.02     \$31566   \$8210005   \$65.92   \$25.71   \$CAL   \$2.02   \$46   \$1.02     \$31567   \$8210006   \$71.70   \$25.83   \$1.80   \$CAL   \$1.22   \$-0.3   \$2.33     \$31568   \$8210007   \$64.84   \$20.95   \$39   \$CAL   \$-2.6   \$59   \$-89     \$31569   \$8210009   \$71.28   \$27.00   \$.72   \$CAL   \$.96   \$-57   \$-54     \$31570   \$8210009   \$75.76   \$34.70   \$CAL   \$.96   \$-57   \$-54     \$31571   \$8210010   \$54.42   \$2.76   \$CAL   \$1.11   \$-1.45   \$-25     \$31572   \$8210012   \$70.39   \$26.45   \$2.25   \$CAL   \$-12   \$1.36   \$-75     \$31573   \$8210012   \$70.39   \$26.45   \$2.25   \$CAL   \$-12   \$1.36   \$-75     \$31574   \$8210013   \$70.32   \$26.48   \$CAL   \$-14   \$48   \$-61     \$31575   \$8210014   \$71.53   \$3.91   \$3.49   \$CAL   \$-1.94   \$-24     \$31576   \$8210015   \$64.36   \$22.90   \$CAL   \$-1.06   \$08   \$-91     \$31577   \$8210016   \$55.89   \$8.26   \$THL   \$0.9   \$0.5   \$-2.22     \$31579   \$8210019   \$55.49   \$12.29   \$THL   \$-1.11   \$-2   \$37     \$31580   \$8210019   \$55.49   \$12.29   \$THL   \$-1.11   \$-2   \$37     \$31581   \$8210020   \$55.21   \$12.78   \$THL   \$-1.68   \$72   \$4.66     \$31585   \$8210022   \$71.61   \$23.40   \$1.11   \$CAL   \$73   \$1.62   \$-58     \$31585   \$8210027   \$33.59   \$7.49   \$THL   \$-1.55   \$-1.16   \$-3     \$31585   \$8210027   \$33.59   \$34.90   \$7.10   \$35.43   \$7.49   \$7.10   \$	A STATE OF THE PARTY OF THE PAR		eropeana (or accompanion papillate forty, fra little accompanion)			CHANGE IN				
\$1565   \$R210002   \$66.20   \$21.37   \$CAL						5-10-1				AND DESCRIPTION OF THE PERSON NAMED IN
31563         R210002         66,20         21,37         CAL         .9         .99         1,05           31544         R210003         74,92         38,42         2,33 CAL         .04         1,09         .03           31565         R210004         69,62         24,42         .91 CAL         .73         .24         .02           31566         R210005         65,92         25,71         CAL         2,02         .46         1,02           31567         R210006         71,70         25,83         1,80         CAL         1,22         .03         .27           31549         R210007         64,84         20,05         .39 CAL         .26         .59         .69           31570         R210008         71,28         27,00         .72 CAL         .96         .57         .54           31571         R210010         54,42         2.76         CAL         1,11         -1,45         -25           31572         R210011         68,35         22,06         1,92         CAL         -1,2         136         .75           31574         R210012         70,32         26,48         CAL         -1,4         48         .61 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
\$1563   \$R210002   \$66.20   \$21.37   \$CAL   .9   .99   .1.05     \$31564   \$R210003   \$74.92   \$38.42   \$2.33   \$CAL   .04   .1.09   .03     \$31565   \$R210004   \$69.62   \$24.42   .91   \$CAL   .73   .24   .02     \$31566   \$R210005   \$65.92   \$25.71   \$CAL   .2.02   .46   1.02     \$31567   \$R210006   \$71.70   \$25.83   1.80   \$CAL   1.22   .03   .23     \$31568   \$R210007   \$64.84   20.05   .39   \$CAL   .2.6   .59   .89     \$31569   \$R210006   \$71.28   \$27.00   .72   \$CAL   .96   .57   .54     \$31570   \$8210009   \$75.76   34.70   \$CAL   .96   .57   .55     \$31571   \$8210010   \$54.42   2.76   \$CAL   .98   .31   .14     \$31573   \$R210012   \$70.39   26.45   2.25   \$CAL   .98   .31   .14     \$31574   \$R210013   \$70.39   26.45   2.25   \$CAL   .12   1.36   .75     \$31576   \$R210014   \$71.53   33.91   3.49   \$CAL   .14   .48   .61     \$31576   \$R210015   \$64.36   22.90   \$CAL   .14   .48   .61     \$31577   \$R210016   \$55.89   8.26   \$THL   .09   .05   -2.26     \$31579   \$R210018   \$55.49   12.29   \$THL   .11   .1   .2   .37     \$31580   \$R210019   \$55.03   12.29   \$5.58   \$THL   .145   .21   1.05     \$315827   \$R210021   \$55.03   12.29   5.58   \$THL   .145   .21   1.05     \$31580   \$R210021   \$55.03   12.29   5.58   \$THL   .146   .72   .466   .75     \$315827   \$R210021   \$55.03   12.29   5.58   \$THL   .146   .72   .746   .75     \$31580   \$R210021   \$55.03   12.29   5.58   \$THL   .146   .72   .746   .75   .756					23.40	1.11		./3		
31563       R210002       66.20       21.37       CAL       .97       .97       -1.05         31564       R210003       74.92       38.42       2.33       CAL       .04       1.09       .02         31565       R210004       69.62       24.42       .91       CAL       .73       .24       .02         31566       R210005       65.92       25.71       CAL       2.02       .46       1.02         31567       R210006       71.70       25.83       1.80       CAL       1.22       .03       .23         31568       R210007       64.84       20.05       .39       CAL       .26       .59       .89         31579       R210008       71.28       27.00       .72       CAL       .26       .59       .89         31570       R210010       75.76       34.70       CAL       .96       .57       .54         31571       R210011       66.35       22.06       1.92       CAL       .98      31       .14         31573       R210012       70.39       26.45       2.25       CAL       .12       1.36       .75         31574       R210013       70.32					23 40			77		
31563       R210002       66.20       21.37       CAL       .9       .99       -1.05         31564       R210003       74.92       38.42       2.33       CAL       .04       1.09       .02         31565       R210004       69.62       24.42       .91       CAL       .73       -24      02         31566       R210006       65.92       25.71       CAL       2.02       .46       1.02         31568       R210007       64.84       20.05       .39       CAL       .26       .59      89         31569       R210006       71.28       27.00       .72       CAL       .96      57      54         31570       R210009       75.76       34.70       CAL       .96      57      54         31571       R210010       54.42       2.76       CAL       .211       -1.45      25         31572       R210011       68.35       22.06       1.92       CAL      31       1.4         31573       R210012       70.39       26.48       2.25       CAL      12       1.36      75         31574       R210015       70.39       26.48       CAL<						5 50				
31563       R210002       66.20       21.37       CAL       .9       .99       -1.05         31564       R210003       74.92       38.42       2.33       CAL       .04       1.09       .02         31565       R210004       69.62       24.42       .91       CAL       .73       -2.4      02         31566       R210005       65.92       25.71       CAL       2.02       .46       1.02         31567       R210006       71.70       25.83       1.80       CAL       1.22       .03       .23         31568       R210007       64.84       20.05       .39       CAL       .26       .59      69         31570       R210008       71.28       27.00       .72       CAL       .96      57      54         31571       R210010       54.42       2.76       CAL       .91       .14       .95      25       3157       5103         31572       R210011       68.35       22.06       1.92       CAL      11       .96      75       7.03       26.48       CAL      14       .48       .61       31573       R210013       70.32       26.48       CAL			31		12.78					
31563       R210002       66.20       21.37       CAL       .9       .99       -1.05         31564       R210003       74.92       38.42       2.33       CAL       .04       1.09       .02         31565       R210004       69.62       24.42       .91       CAL       .73       .24      02         31566       R210006       65.92       25.71       CAL       2.02       .46       1.02         31568       R210007       64.84       20.05       .39       CAL       .26       .59      89         31569       R210008       71.28       27.00       .72       CAL       .96      57      54         31570       R210009       75.76       34.70       CAL       1.11       -1.45      25         31571       R210010       54.42       2.76       CAL       1.21       .32       5.05         31572       R210011       68.35       22.06       1.92       CAL      12       1.36      75         31574       R210013       70.39       26.45       2.25       CAL      12       1.36      75         31575       R210015       71.53       33.9										
31563       R210002       66.20       21.37       CAL       .9       .99       -1.05         31564       R210003       74.92       38.42       2.33       CAL       .04       1.09       .03         31565       R210004       69.62       24.42       .91       CAL       .73       .24      02         31566       R210005       65.92       25.71       CAL       .20       .46       1.02         31567       R210006       71.70       25.83       1.80       CAL       .12       .03       .27         31568       R210007       44.84       20.05       .39       CAL       .26       .59      89         31569       R210008       71.28       27.00       .72       CAL       .96      57      54         31570       R210009       75.76       34.70       CAL       1.11       -1.45      25         31571       R210010       54.42       2.76       CAL       .201       2.37       0.03         31572       R210011       68.35       22.06       1.92       CAL      12       1.36      75         31574       R210013       70.32       26.48 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>.37</td>										.37
31563       R210002       66.20       21.37       CAL       .9       .99       -1.05         31564       R210003       74.92       38.42       2.33       CAL       .04       1.09       .02         31565       R210004       69.62       24.42       .91       CAL       .73       .24      02         31566       R210005       65.92       25.71       CAL       2.02       .46       1.02         31567       R210006       71.70       25.83       1.80       CAL       1.22       .03       .23         31568       R210007       44.84       20.05       .39       CAL       .26       .59      89         31569       R210008       71.28       27.00       .72       CAL       .96      57      54         31570       R210009       75.76       34.70       CAL       1.11       -1.45      25         31571       R210010       54.42       2.76       CAL       .201       2.37       0.05         31572       R210011       68.35       22.06       1.92       CAL      12       1.36      75         31574       R210013       70.39       26.45	31578	R210017				1.27	CAL	2.15	2	
31563       R210002       66.20       21.37       CAL       .9       .99       -1.05         31564       R210003       74.92       38.42       2.33       CAL       .04       1.09       .03         31565       R210004       69.62       24.42       .91       CAL       .73       -24       -02         31566       R210006       65.92       25.71       CAL       2.02       .46       1.02         31567       R210006       71.70       25.83       1.80       CAL       .122       .03       .27         31568       R210007       64.84       20.05       .39       CAL       .26       .59      89         31570       R210008       71.28       27.00       .72       CAL       .96      57      54         31570       R210009       75.76       34.70       CAL       1.11       -1.45      25         31571       R210010       54.42       2.76       CAL       2.01       1.23       5.05         31573       R210012       69.35       22.06       1.92       CAL      12       1.36      75         31574       R210013       70.32       26.48<			1.10			7				
31563       R210002       66.20       21.37       CAL       .9       .99       -1.05         31564       R210003       74.92       38.42       2.33       CAL       .04       1.09       .03         31565       R210004       69.62       24.42       .91       CAL       .73       -24      02         31566       R210005       65.92       25.71       CAL       2.02       .46       1.02         31567       R210006       71.70       25.83       1.80       CAL       1.22      03       .27         31568       R210007       64.84       20.05       .39       CAL       .26       .59      89         31570       R210008       71.28       27.00       .72       CAL       .96      57      54         31571       R210010       54.42       2.76       CAL       1.11       -1.45      25         31572       R210011       68.35       22.06       1.92       CAL      91       1.37       5.03         31573       R210012       70.39       26.45       2.25       CAL      12       1.36      75         31575       R210014       71.53										
31563       R210002       66.20       21.37       CAL       .9       .99       -1.05         31564       R210003       74.92       38.42       2.33       CAL       .04       1.09       .03         31565       R210004       69.62       24.42       .91       CAL       .73      24      02         31566       R210005       65.92       25.71       CAL       2.02       .46       1.02         31567       R210006       71.70       25.83       1.80       CAL       1.22      03       .27         31568       R210007       64.84       20.05       .39       CAL       .26       .59       .69         31569       R210008       71.28       27.00       .72       CAL       .96      57      54         31570       R210009       75.76       34.70       CAL       1.11       -1.45      25         31571       R210010       54.42       2.76       CAL       2.01       2.37       5.03         31572       R210012       68.35       22.06       1.92       CAL      12       1.36      75         31574       R210013       70.32       26.4						3.49				
31563       R210002       66.20       21.37       CAL       .9       .99       -1.05         31564       R210003       74.92       38.42       2.33       CAL       .04       1.09       .03         31565       R210004       69.62       24.42       .91       CAL       .73      24      02         31567       R210006       71.70       25.83       1.80       CAL       1.22       .03       .23         31568       R210007       44.84       20.05       .39       CAL       .26       .59      89         31569       R210008       71.28       27.00       .72       CAL       .96      57      54         31570       R210009       75.76       34.70       CAL       1.11       -1.45      25         31571       R210010       54.42       2.76       CAL       2.01       2.37       5.03         31572       R210011       68.35       22.06       1.92       CAL       .98      31       .14         31573       R210012       70.39       26.45       2.25       CAL      12       1.36      75										
31563       R210002       66.20       21.37       CAL       .9       .97       -1.05         31564       R210003       74.92       38.42       2.33       CAL       .04       1.09       .03         31565       R210004       69.62       24.42       .91       CAL       .73      24      02         31566       R210006       71.70       25.83       1.80       CAL       1.22       .46       1.02         31568       R210007       64.84       20.05       .39       CAL       .26       .59      89         31569       R210008       71.28       27.00       .72       CAL       .96      57      54         31570       R210009       75.76       34.70       CAL       1.11       -1.45      25         31572       R210011       69.35       22.06       1.92       CAL       .98      31       1.4						4.25				
31563     R210002     66.20     21.37     CAL     .9     .99     -1.05       31564     R210003     74.92     38.42     2.33     CAL     .04     1.09     .03       31565     R210004     69.62     24.42     .91     CAL     .73     -24     -02       31566     R210005     65.92     25.71     CAL     2.00     .46     1.02       31567     R210006     71.70     25.83     1.80     CAL     1.22    03     .23       31568     R210007     64.84     20.05     .39     CAL     .26     .59    89       31570     R210008     71.28     27.00     .72     CAL     .96    57    54       31571     R210010     54.42     2.76     CAL     1.11     -1.45    25       31571     R210010     54.42     2.76     CAL     2.01     2.37     5.03										
31563       R210002       66.20       21.37       CAL       .9       .99       -1.05         31564       R210003       74.92       38.42       2.33       CAL       .04       1.09       .03         31565       R210004       69.62       24.42       .91       CAL       .73      24      02         31566       R210005       65.92       25.71       CAL       2.02       .46       1.02         31568       R210006       71.70       25.83       1.80       CAL       1.22      03       .23         31569       R210008       71.28       27.00       .72       CAL       .96      57      54         31570       R210009       75.76       34.70       CAL       1.11       -1.45      25			The state of the s			1 0:5				
31563       R210002       66.20       21.37       CAL       .9       .99       -1.05         31564       R210003       74.92       38.42       2.33       CAL       .04       1.09       -03         31565       R210004       69.62       24.42       .91       CAL       .73      24      02         31566       R210005       65.92       25.71       CAL       2.02       .46       1.02         31567       R210006       71.70       25.83       1.80       CAL       1.22      03       .27         31568       R210007       64.84       20.05       .39       CAL       .26       .59      69         31569       R210008       71.28       27.00       .72       CAL       .96      57      54										
31563         R210002         66.20         21.37         CAL         .9         .99         -1.05           31564         R210003         74.92         38.42         2.33 CAL         .04         1.09         .03           31565         R210004         69.62         24.42         .91 CAL         .73         .24        02           31566         R210005         65.92         25.71         CAL         -2.02         .46         1.02           31567         R210006         71.70         25.83         1.80 CAL         1.22        03         .23           31568         R210007         44.84         20.05         .39 CAL        26         .59        89			A STATE OF THE STA			. / 2				
31563         R210002         66.20         21.37         CAL         .9         .99         -1.05           31564         R210003         74.92         38.42         2.33         CAL         .04         1.09         .03           31565         R210004         69.62         24.42         .91         CAL         .73        24        02           31566         R210005         65.92         25.71         CAL         -2.00         .46         1.02           31567         R210006         71.70         25.83         1.80         CAL         1.22        03         .23			AND THE PROPERTY OF THE PARTY O							
31563     R210002     66.20     21.37     CAL     .9     .99     -1.05       31564     R210003     74.92     38.42     2.33     CAL     .04     -1.09     .03       31565     R210004     69.62     24.42     .91     CAL     .73    24    02       31566     R210005     65.92     25.71     CAL     -2.02     .46     1.02										
31563     R210002     66.20     21.37     CAL     .9     .99     -1.05       31564     R210003     74.92     38.42     2.33     CAL     .04     -1.09     .03       31565     R210004     69.62     24.42     .91     CAL     .73    24    02						1.80				
31563 R210002 66.20 21.37 CAL .9 .99 -1.05 31564 R210003 74.92 38.42 2.33 CAL .04 -1.0903			The second secon						.46	1.02
31563 R210002 66.20 21.37 CAL .9 .99 -1.05 31564 R210003 74.92 38.42 2.33 CAL .04 -1.0903		R210004	S. T. STANSON DESCRIPTION		24.42	.91	CAL	.73	24	
31563 R210002 66.20 21.37 CAL .9 .99 -1.05			. 1 34 S							
	31564	R210002	- Table 197 a	11 50						

			. TOWNSHIP ENVIR. TYPE F. NAMI			.CRND. JSERIC			
	31621	R210064		46.27	The state of the s	KMT	- 42111P	-715	20.64
	31622	R210065	A company of the comp	61.98		CAL	4.18	51	83
	31623	R210066	TORRESTOR THE PROPERTY OF THE PROPERTY OF THE PARTY.	31.59	September Stanton	KMT	+2176		
	31624	R210067		45.91	a southern some	STATES KHTCOM	-2.06		22.41
	31625	R21006B		54.42	6.23	THL	26	37	. 95
	31626	R210069		53.20	5.78	THL.	97	06	1.13
b. sec	31627	R210070		53.44	8.65	THL	-1.58	7.04	1.47
1	31628	R210071		50.42	.89	1.2B CAL THL	-1.95 07	16	2.28
1	31629 31630	R210072	A STATE OF THE STA	53.30 55.38	9.43	THL	-1.15	42	
-	31631	R210074		53.58	THE RESERVE	KMT	43311		17.50
	31632	R210075		56.79	7.33	THL	.97	45	-11
	31633	R210076		51.75	.86	THL	78	2	3.73
li i	31634	R210077	Control of the Contro	71.44	20.82	.36 CAL	2.39	34	41
4	31635	R210078		55.49	9.84	THL	88	31	-71
	31636	R210079		68.46	13.65	CAL	3.09	8	13
F	31637	R210082	The second section of the second second section of the second sec	53.08	4.75	THL	49	.31	.29
2	31638	R210083		48.08	20.77	. 15 CAL	.73	04	.26
8	31639	R210084	and the second control of the second control	61.49	29.89	THL	-4.31 -1.43	64	1.07
	31640	R210085	0.286	53.76	B.72	THL		24	1.98
m -	31641	R210086	<b>泛黎杰夫</b>	47.90		THL	-1.31	16	2.19
	31642	R210087		53.96	13.23	THL	2.79	47	.29
	31643 31644	R210088 R210089		68.13 53.77	13.23	THL	2.28	.17	1.86
23	31645	R210089		54.66	11.27	1.16 THL	81	28	.61
1	31646	R210092	260, F1556	54.51	9.11	THL	57	15	
1.	31647	R210093		54.48	13.15	.32 THL	-1.53	32	.62
	31648	R210094		52.81	3 100	THL	. 68	01	4
28	31649	R210095		70.23	20.68	2.32 CAL	2.22	44	.64
19.	31650	R210096		54.95	7.71	1.29 THL	13	27	1.94
M'-	31651	R210097		70.45	20.02	1.34 CAL	2.65	82	
n S	31652	R210098		53.97	5.44	THL	29	. 05	.27
10	31653	R210100		54.38	13.49	THL	-1.62	29	
n	31654	R210101	A STATE OF S	70.57	25.14	.73 CAL	1.51	57	18
M	31655	R210102		69.58 53.06	22.32	1.70 CAL	.07	15	
15	31656 31657	R210103 R210104		69.14	19.15	.60 CAL	1.98	56	
ÿ	31658	R210104		69.02	14.39	CAL	2.82	3	15
1	31659	R210106		50.09	SET OF THE PROPERTY OF	KMT	52.73	. 28	9.17
12	31660	R210107		69.01	17.63	.21 CAL	2.16	28	19
L	31661	R210108		52.31	1.94	THL	28	.11	1.13
	31662	R210109		52.35		THL	3.06	17	
-	31663	R210110		70.49	19.30	.06 CAL	2.27	35	.09
-	31664	R210112	4.H	70.47	21.72	.89 CAL	1.32	. 4	05
	31665	R210112	A CONTRACTOR OF THE PARTY OF TH	49,49	Company of the Company of the Company	KMT	-2.64	.35	7.75
2	31666	R210113		69.57	17.43	CAL	2.48	77	
. 1	31667	R210114	the state of the s	44:45	Carrier and Control	10.29 KMT	-1.93		323
4	31668	R210116		69.36	14.66	CAL	3.44		16.25
48	31669	R210118		44.30	The second second	KMT			15.73
19	31670	R210119		47.61	NAME OF TAXABLE PARTY.	KMT			18.04
204	31672	R210121	Manager of the second of the second	54.18	7.87	THL	81	3	.77
1	31673	R210121	Action Co. S. Santa S.	69.28	24.53	1.53 CAL	.8	48	
55	31674	R210123		68.07	8.64	2.78 CAL	4.81	67	
44	31675	R210124		51.30	2.21	THL	.08	13	
1	31676	R210125		46.0B		KMT	2.16	1	T5.25
4	31677	R210126		54.05	6.50	THL	87	.19	1.75
	31678	R210127	A SAN COLOR OF THE SAN	69.55	20.B3	.82 CAL	1.29	.21	.11

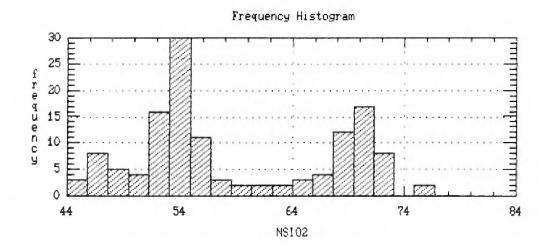
80 81 82 83	R210131 R210133 R210134 R210145	TOWNSHIP. ENVIR	. TYPE F.NAME		53.11 54.95 54.10 53.36		3.18 KMT THL THL THL	58 1.57	33 27 3	1.87 1.96 2.49	RIORITY	₹ve
84 85 86 87 88	R210146 10023 10024 10025 10047				48.83 59.69 59.81 56.86 66.44 48.38	24.02 21.59 11.67 5.82	THL 3.28 THL THL THL .05 CAL	1.07 -3.47 -3.5 -1.69 4.07	1.29 .83 .87 .95 .2	.07 4:1 3:4 1:3 -1:4 16:85		1. Tax (*)
90 91 92 93 Record	10081 10070 11505 11628				52.00 68.76 64.68	.67 17.61 1.39	KMT 1.19 KMT CAL CAL	-2.03 2 .64 3.12	.59 .71 1.85 1.81	16.18 4.42 .16 i		
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		4.00	. 1 10000	3,5								

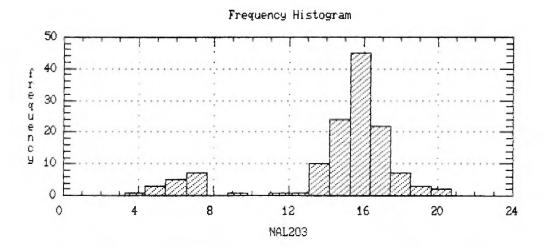
Variable:	NSIO2	NAL203	NFE203
Sample size	132	132	132
Average	58.7387	14.6157	1.81772
Median	54.8325	15.549	2.29555
Variance	75.6282	12.043	1.08293
Standard deviation	8.69645	3.4703	1.04064
Standard error	0.756929	0.302051	0.0905758
Minimum	44.2951	4.2763	0.1827
Maximum	75.7593	20.2298	3.5783
Range	31.4642	15.9535	3.3956

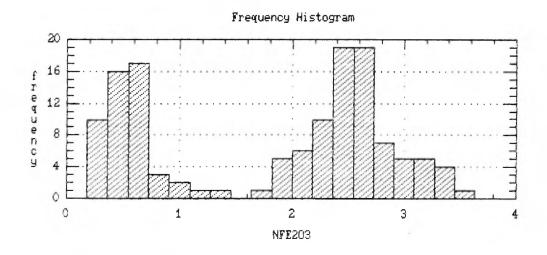
Variable:	NFEO	NMGO	NCAB
Sample size	132	132	132
Average	6.55033	7.18193	5.85383
Median	8.2722	5.80975	6.1708
Variance	14.0629	60.881	10.911
Standard deviation	3.75005	7.80263	3.30318
Standard error	0.3264	0.679132	0.287505
Minimum	0.6584	0.301	0.5182
Max i mum	12.8946	35.4965	17.0945
Range	12,2362	35.1955	16.5763

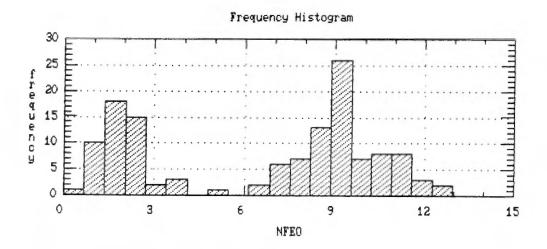
Variable:	NNA20	NK20	NTI 02
Sample size	132	132	132
Average	3.64863	0.757814	0.582821
Median	2.99	0.47625	0.52185
Variance	6.46474	0.605868	0.0977677
Standard deviation	2.54259	0.778376	0.312678
Standard error	0.221304	0.0677489	0.0272152
Minimum	0.0259	0.0154	0.1505
Maximum	10.0823	3.3242	1.5947
Range	10.0564	3.3088	1.4442

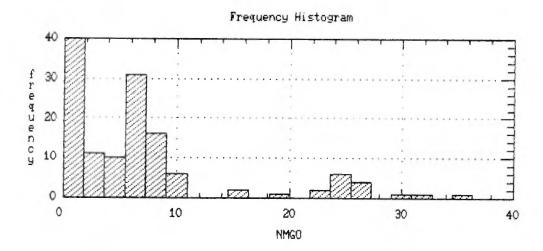
Variable:	NP205	ОММО
Sample size	132	132
Average	0.108763	0.143816
Medi an	0.10635	0.1728
Variance	2,26194E-3	7.13266E-3
Standard deviation	0.0475599	0.0844551
Standard error	4.13 <b>956E-</b> 3	7.35087E-3
Minimum	0.0152	0.01
Maximum	0.2532	0.2936
Range	0.238	0.2836

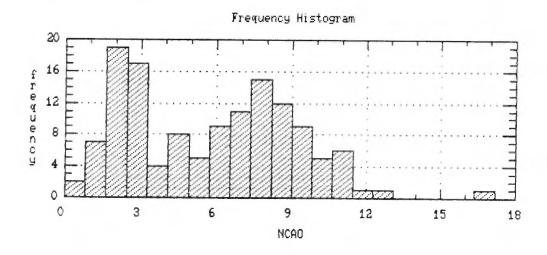


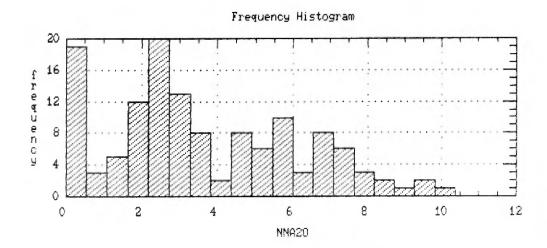


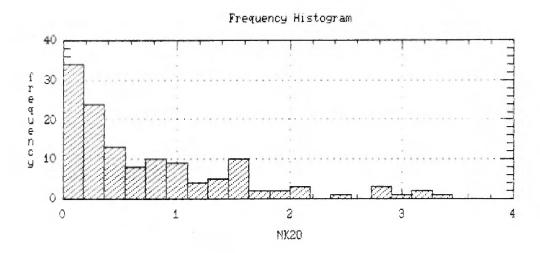


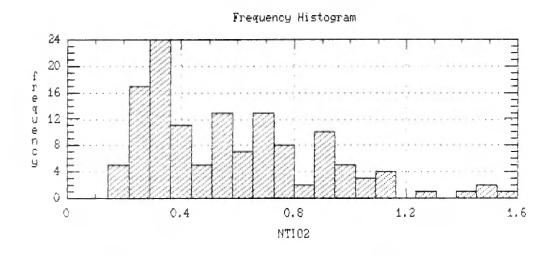


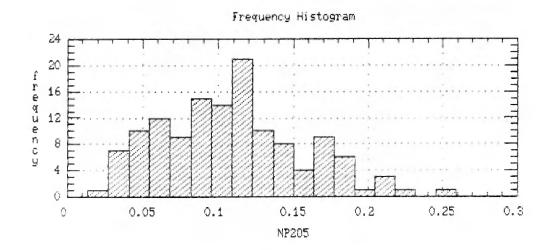


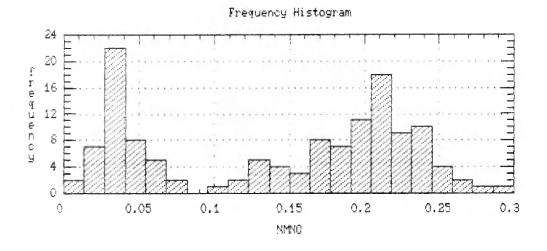


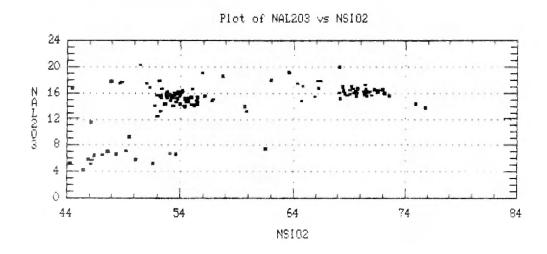


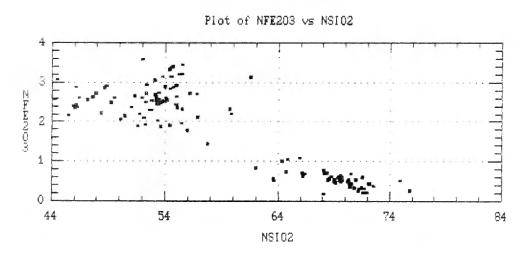


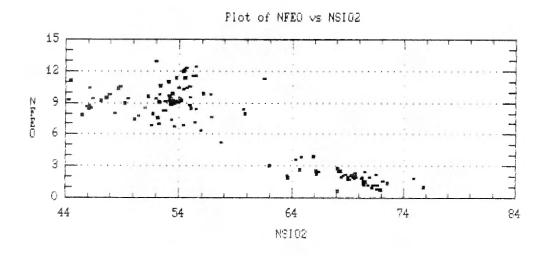


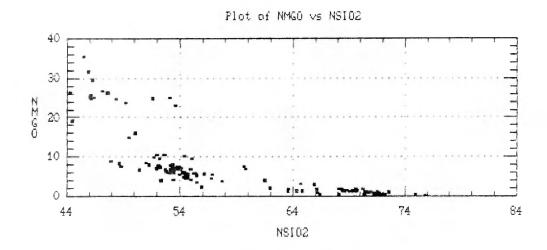


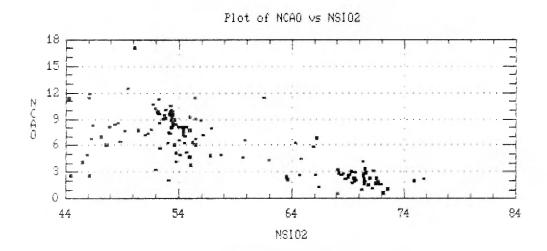


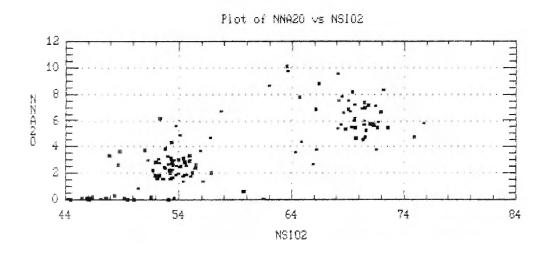


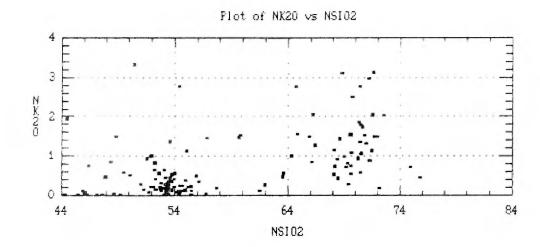


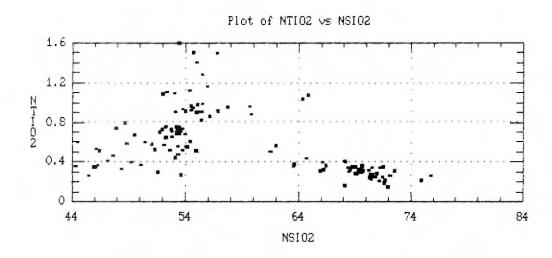


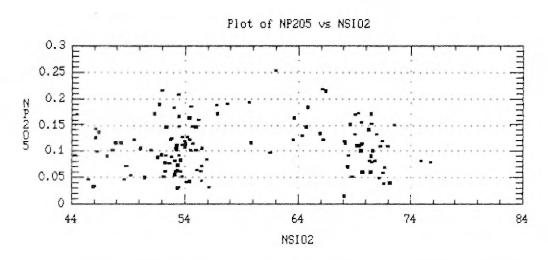


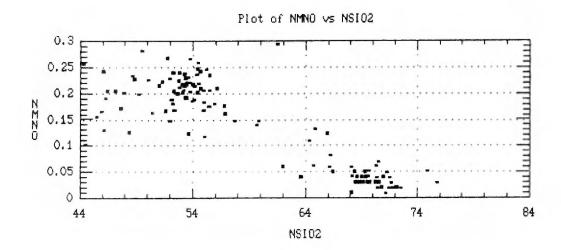


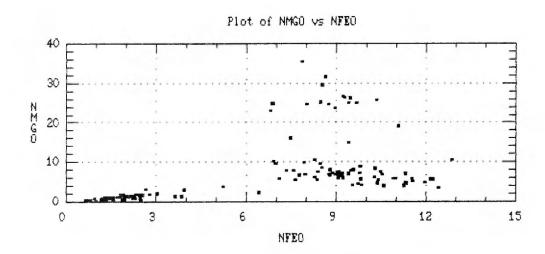


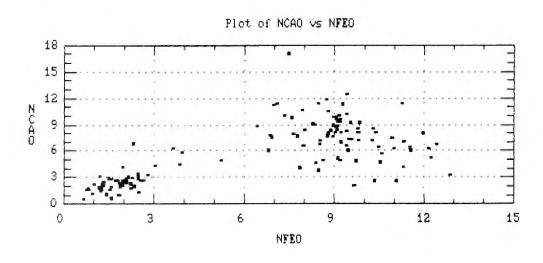


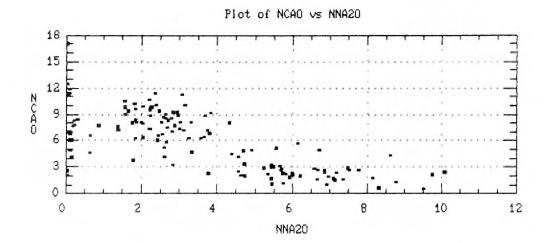


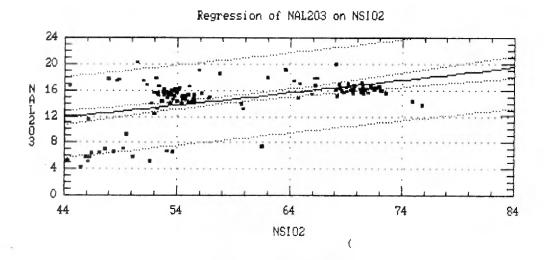


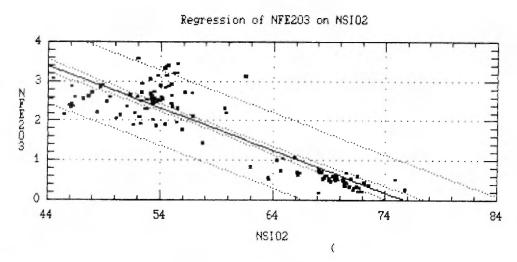


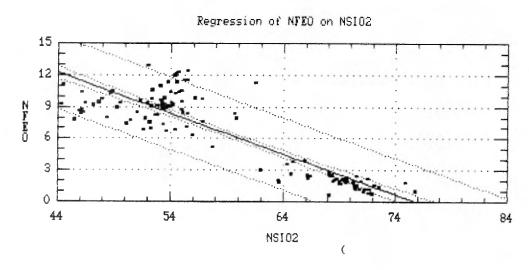


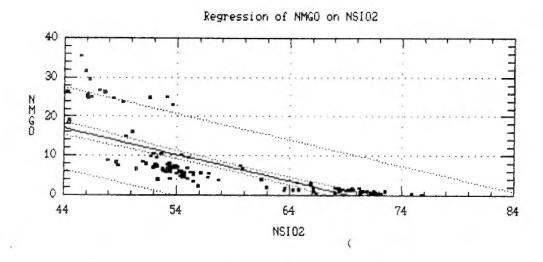


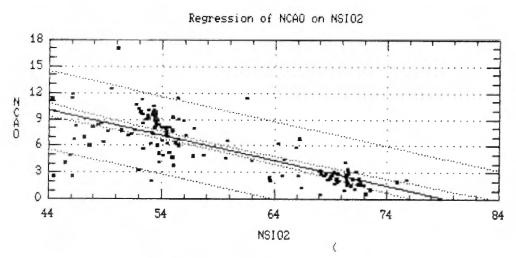


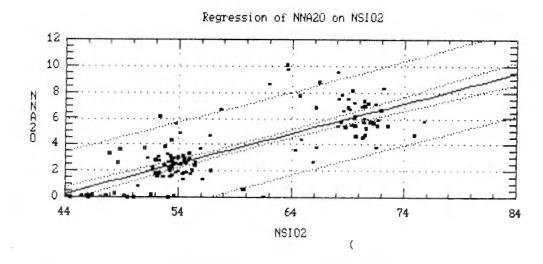


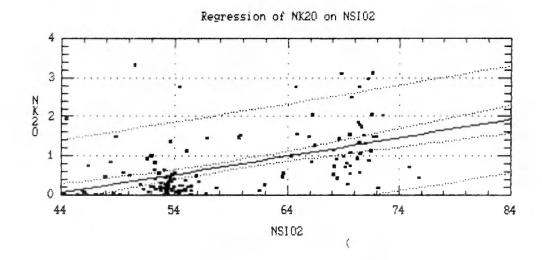


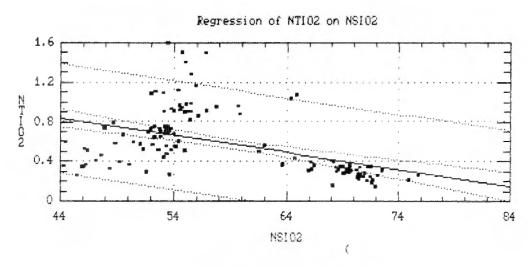


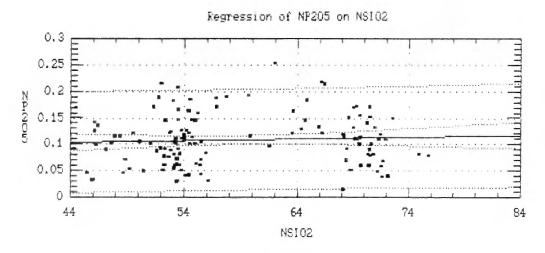


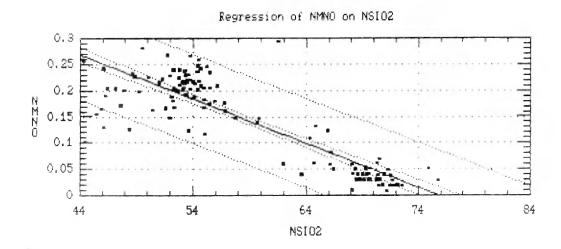


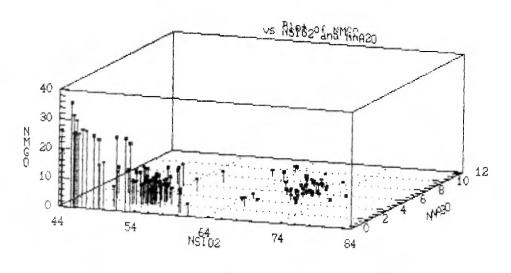


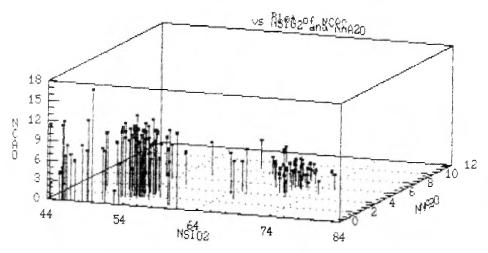


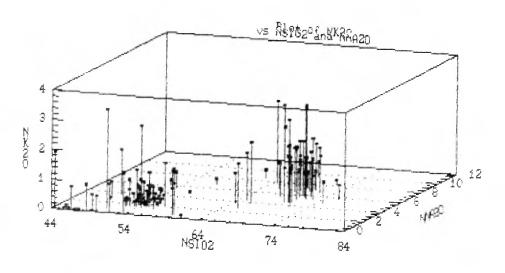


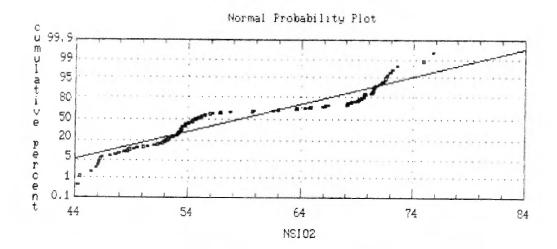


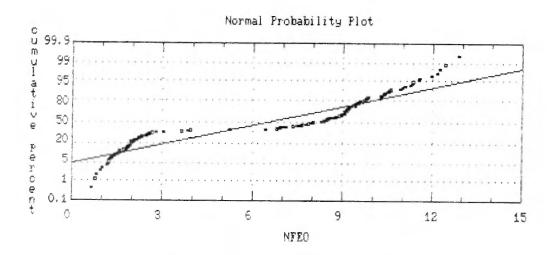


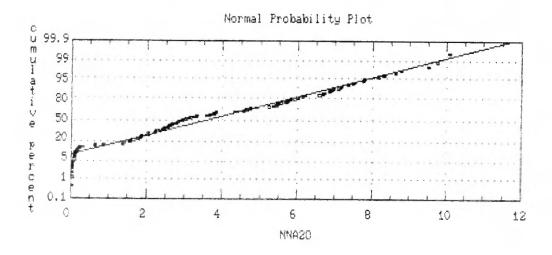












Sample Correlations

	NSI 02	NAL203	NFE203	NFEO	NMGO	NCAD
NSI02	1.0000	.4786	8899	8899	7449	7449
	( 132)	( 132)	( 132)	( 132)	( 132)	( 132)
	.0000	.0000	.0000	.0000	.0000	.0000
NAL203	.4786	1.0000	3390	3390	8539	3613
	( 132)	( 132)	( 132)	( 132)	( 132)	( 132)
	.0000	.0000	.0000	.0000	.0000	.0000
NFE203	8899	3390	1.0000	1.0000	.5036	.6851
	( 132)	( 132)	( 132)	( 132)	( 132)	( 132)
	.0000	.0000	.0000	.0000	.0000	.0000
NFEO	8899	3390	1.0000	1.0000	. 5036	.6851
	( 132)	( 132)	( 132)	( 132)	( 132)	( 132)
	.0000	.0000	.0000	.0000	.0000	.0000

Coefficient (sample size) significance level

NSI 02	NNA20 .7841	NK2D .5205	NTI 02 4792	NP205 .0605	NMN0 8651
HOIVE	( 132)	( 132)	( 132)	( 132)	( 132)
	,,				
	.0000	.0000	.0000	1.0000	.0000
NAL203	.6367	.2735	.1217	.1519	3515
	( 132)	( 132)	( 132)	( 132)	( 132)
	.0000	.0000	.0001	.0000	.0000
		, , , , ,			
NFE203	7575	5586	.6872	.0082	.9212
	( 132)	( 132)	( 132)	( 132)	( 132)
	.0000	.0000	.0000	1.0000	.0000
NFEO	7575	5586	.6872	.0082	. 9212
712 20	( 132)	( 132)	( 132)	( 132)	( 132)
	· <del>-</del> ·	. 2007			
	.0000	.0000	.0000	1.0000	.0000

Sample Correlations

	S015N	NAL203	NFE203	NFEO	NMGD	NCAD
NMGD	-,7449	8539	.5036	. 5036	1.0000	.3956
	( 132)	( 132)	( 132)	( 132)	( 132)	( 132)
	.0000	.0000	.0000	.0000	. 0000	.0000
NCAD	7449	3613	.6851	. 6851	.3956	1.0000
	( 132)	( 132)	( 132)	( 132)	( 132)	( 132)
	.0000	.0000	.0000	.0000	.0000	.0000
NNA20	.7841	.6367	7575	7575	7259	7031
	( 132)	( 132)	( 132)	( 132)	( 132)	( 132)
	. 0000	.0000	.0000	.0000	.0000	.0000
NK20	.5205	.2735	5586	5586	3300	4601
	( 132)	( 132)	( 132)	( 132)	( 132)	( 132)
	.0000	.0000	.0000	.0000	.0000	.0000

Coefficient (sample size) significance level

	NNA20	NK20	NTI 02	NP205	OMMN
NMGD	7259	3300	0295	1680	.4680
	( 132)	( 132)	( 132)	( 132)	( 132)
	.0000	.0000	1.0000	.0000	.0000
NCAD	7031	4601	.4482	1231	.8445
	( 132)	( 132)	( 132)	( 132)	( 132)
	.0000	.0000	.0000	.0000	.0000
NNA20	1.0000	.2675	3515	.2104	7575
	( 132)	( 132)	( 132)	( 132)	( 132)
	.0000	.0000	.0000	.0000	.0000
NK20	. 2675	1.0000	3589	0441	5827
	( 132)	( 132)	( 132)	( 132)	( 132)
	.0000	.0000	.0000	1.0000	.0000

Sample Correlations

NT102	NSI02	NAL203	NFE203	NFEG	NMG0	NCAO
	4792	.1217	.6872	.6872	0295	.4482
	( 132)	( 132)	( 132)	( 132)	( 132)	( 132)
	.0000	.0001	.0000	.0000	1.0000	.0000
NP205	.0605	.1519	.0082	.0082	1680	1231
	( 132)	( 132)	( 132)	( 132)	( 132)	( 132)
	1.0000	.0000	1.0000	1.0000	.0000	.0000
NMNO	8651	3515	.9212	.9212	.4680	.8445
	( 132)	( 132)	( 132)	( 132)	( 132)	( 132)
	.0000	.0000	.0000	.0000	.0000	.0000

Coefficient (sample size) significance level

NETTO	NNA20	NX20	NTI 02	NP205	NMNO
NTIO2	3515	3589	1.0000	. 2594	. 5994
	( 132)	( 132)	( 132)	( 132)	( 132)
	.0000	.0000	.0000	.0000	.0000
NP205	.2104	0441	. 2594	1.0000	0550
	( 132)	( 132)	( 132)	( 132)	( 132)
	.0000	1.0000	.0000	.0000	1.0000
NMN0	7575	5827	. 5994	0550	1.0000
	( 132)	( 132)	( 132)	( 132)	( 132)
	.0000	.0000	.0000	1.0000	.0000

## ANNEXE 4

Résultats d'analyses

pour

platine-palladium

## CHIMITEC LIEE

RAPPORT D'ANALYSE GÉOCHIMIQUE

RAPPORT: 037-1950	She was start	PROJET: AUCUN	PAGE 1
MINERO DE ELEMENT	Pt Pd Pds/Pt 9m		
P4 10028 P4 10040 P4 10061 P4 10063 P4 10064	15 2 15.00 40 2 15.00 (15 C2 15.00 20 6 15.00 (15 5 6 15.00	ultasufigue suf	ace et 86
P4 10066 P4 10067 P4 10074 P4 10118 P4 10119	C15	ni echetila	~~e^
P4 10120 P4 10125 P4 10131	(15 6 10.00 (15 (2 15.00 (15 8 15.00		