

Appendix A – Location Maps

Matador Production Company

SURFACE PLAN PAGE 1

Charlie Sweeney Fed Com 31-23S-28E 123H

SHL 190' FSL & 2220' FEL Sec. 31, T. 23 S., R. 28 E.

BHL 240' FNL & 1980' FEL Sec. 31, T. 23 S., R. 28 E.

Eddy County, NM

Surface Use Plan

1. ROAD DIRECTIONS & DESCRIPTIONS (See MAPS 1 - 4)

From the gas stations in Loving, NM...

Go South 1.0 mile on US 285 to a substation

Then turn right onto paved County Road 716 and continue South 0.4 mile

Turn right at a transfer station and go West 2.05 mi. on paved County Rd. 763

Then turn left and go South & SE 0.35 mile on a caliche road to a valve station

Then turn left at the valve station and go Southeast 1082.28' cross-country

Then turn left and go East ½ mile on an existing road

Then turn right and go South 319.52' cross-country to the proposed pad

Non-county roads will be maintained as needed to Gold Book standards. This includes pulling ditches, preserving the crown, and cleaning culverts. This will be done at least once a year, and more often as needed. Caliche will be hauled from existing caliche pits on private land in NWSE 1-24s-28e and NWSW 6-24s-29e.

2. ROAD TO BE BUILT OR UPGRADED (See MAPS 3 & 4)

Road from County Road 763 to the valve station is 2 lanes, crowned, and surfaced with caliche. No upgrade is needed.

All of the road (3/4 mile) from the valve station to the pad will be crowned, have a 14' wide driving surface, and be surfaced with caliche. Maximum disturbed width = 20'. Maximum grade = 2%. Maximum cut or fill = 1'. A cattle guard will be installed in the existing fence. No culvert or vehicle turn out is needed.



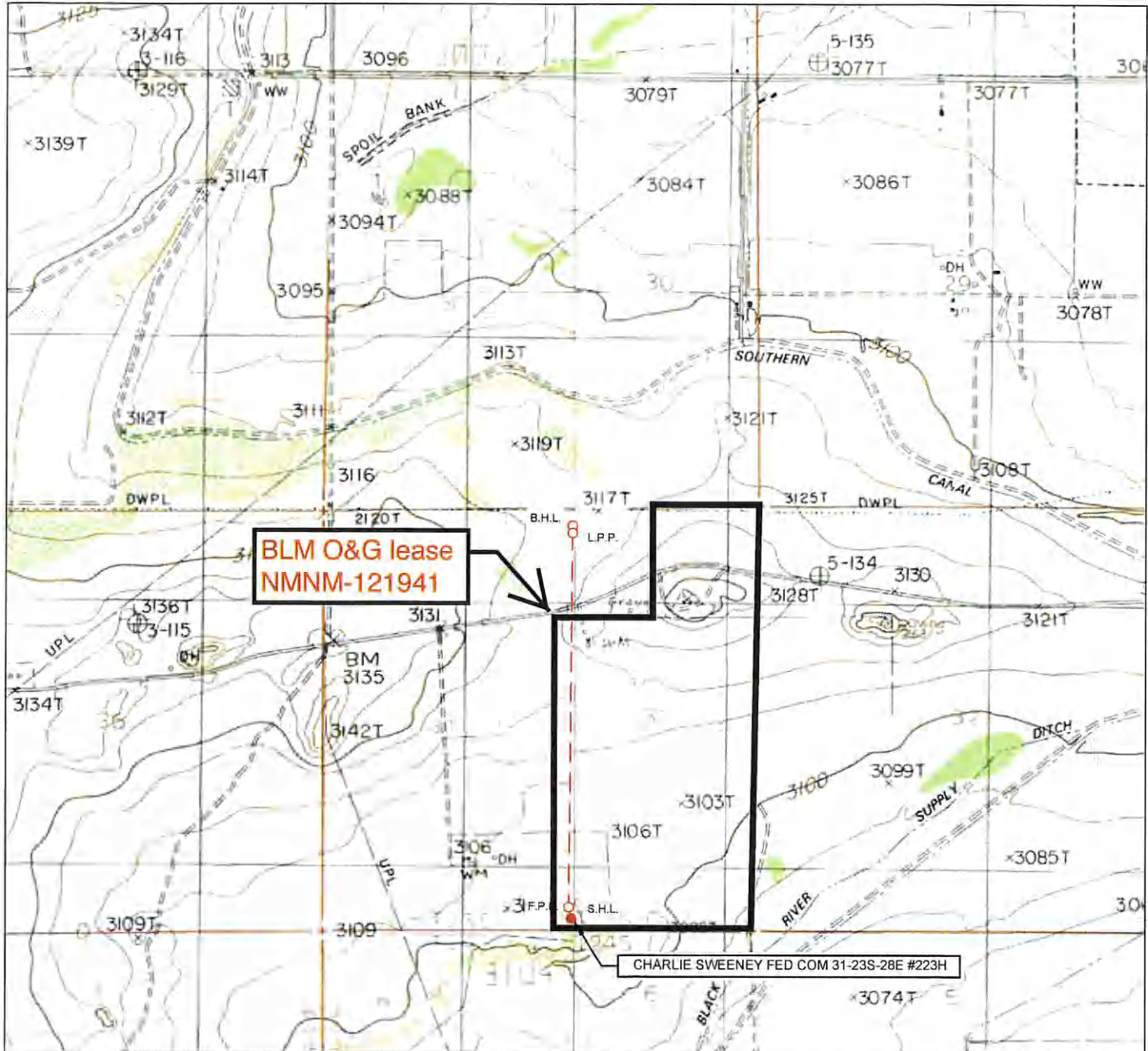
Figure 1. Access road looking east.



Figure 2. Looking northwest from access road.

West Pad: Charlie Sweeney Federal RB 31-23S-28E 123H, 203H, 207H, 223H, and 227H wells

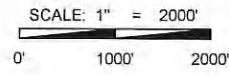
LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: CHARLIE SWEENEY FED COM 31-23S-28E #223H

SECTION 31 TWP 23-S RGE 28-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM ELEVATION 3107'
 DESCRIPTION 190' FSL & 2280' FEL

LATITUDE N 32.2546333 LONGITUDE W 104.1251244



THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

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 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
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MAP 2

1 mile radius

BLM O&G lease
NMNM-121941

BHL

access

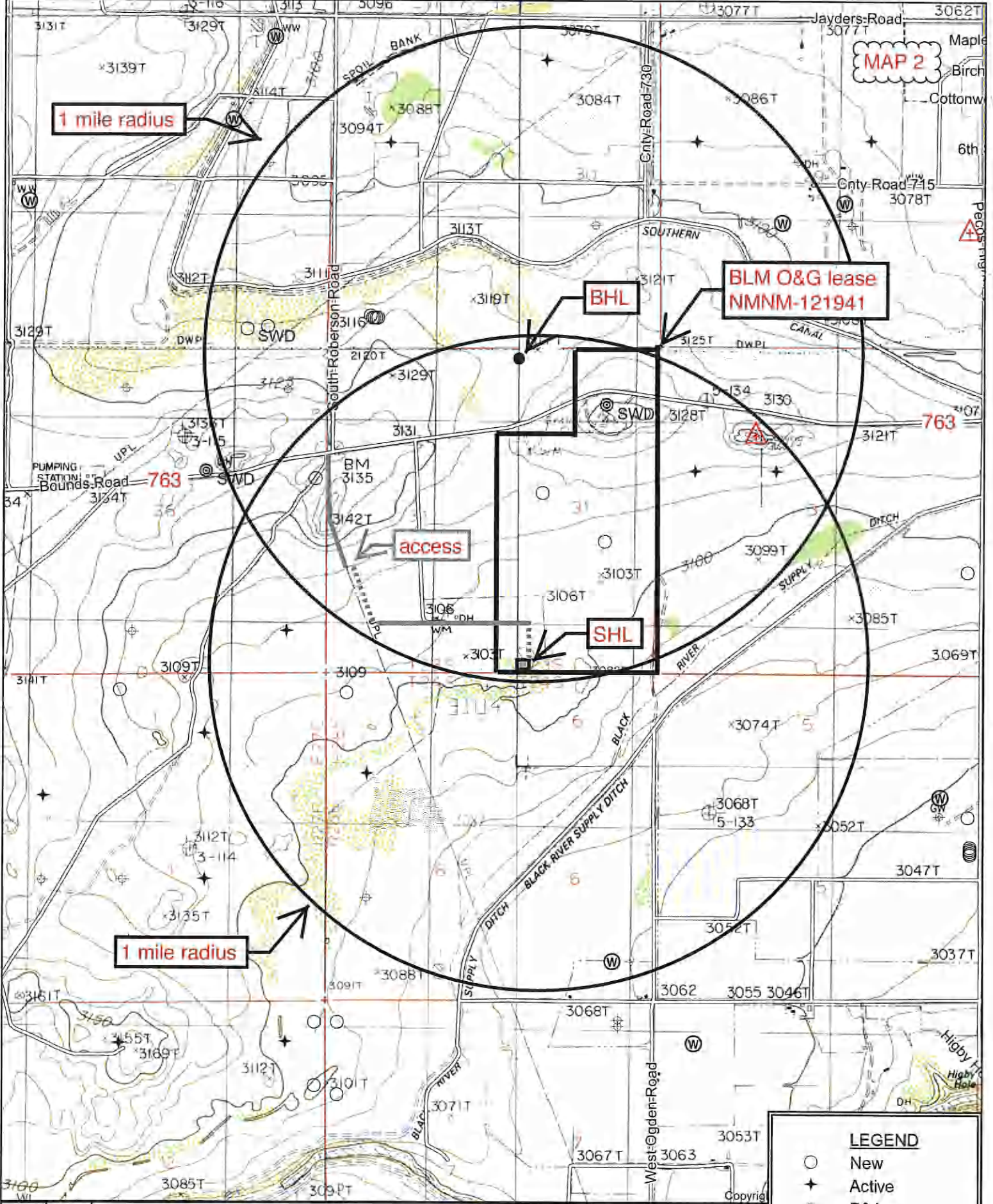
SHL

1 mile radius

LEGEND

- New
- ✦ Active
- ⊕ P&A
- ⊙ INJ
- ⊙ SWD
- ⊙ Water

Quad: OTIS
Scale: 1 inch = 2,000 ft.





763

MAP 3

3661.69' overhead power line

319.52' new road

627.47' gas & saltwater lines

3750.25' surface water line

upgrade 1/2 mile existing road

Charlie Sweeney Fed Com 31-23s-28e 223H

existing Longwood Midstream pipelines

frac pond

road already upgraded to valve station

valve station (under construction)

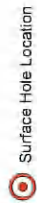
1082.28' new road

763

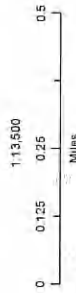
Matador Production Company

CHARLIE SWEENEY FED COM
 31-23S-28E #223H
 H+S Contingency Plan:
 1 Mile Radius Map

Section 31, Township 23S, Range 28E
 Eddy County, New Mexico



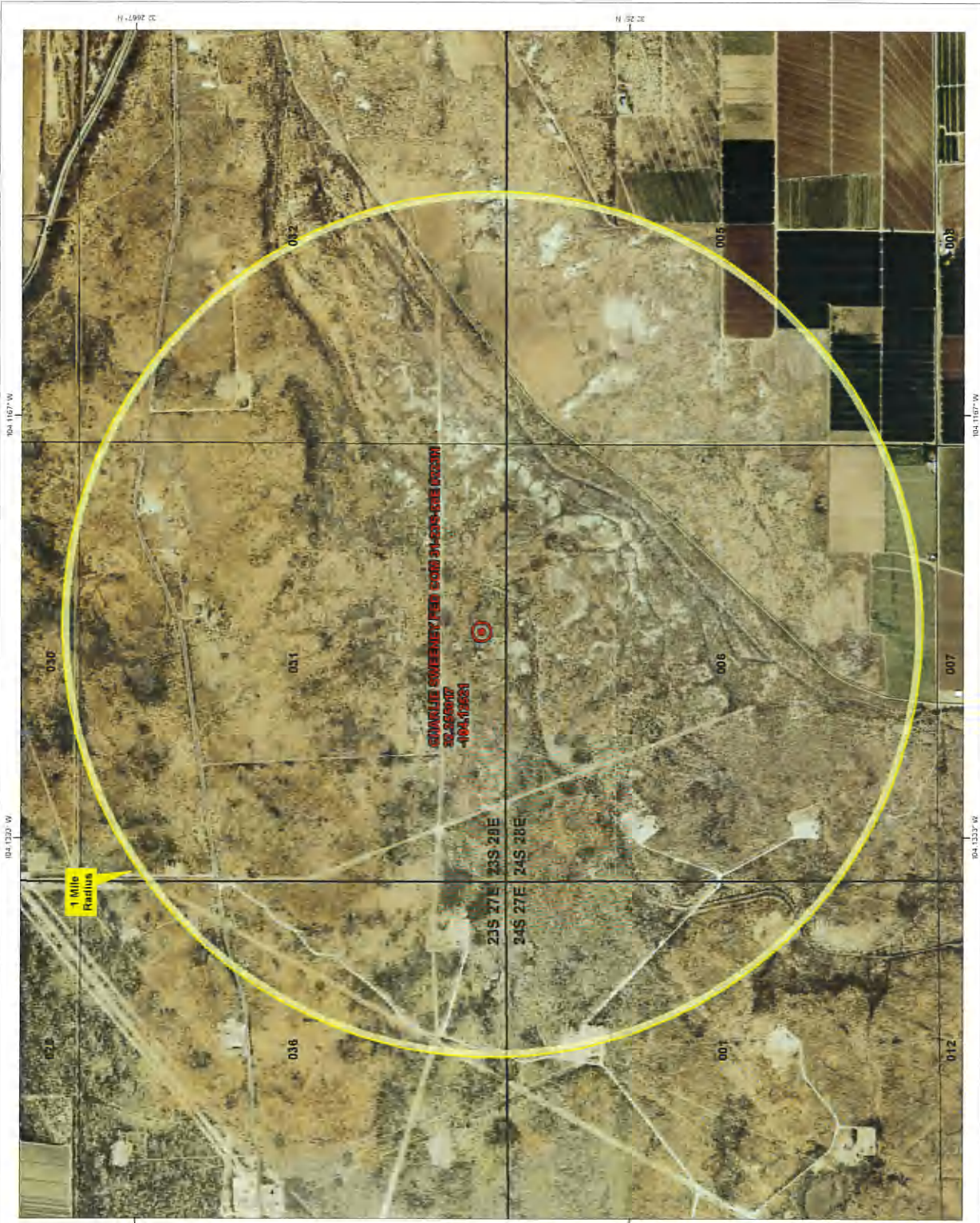
Surface Hole Location



NAD 1927 New Mexico State Plane East
 FIPS 3001 Feet



Prepared by Permits West, Inc., May 25, 2016
 for Matador Production Company



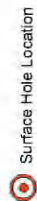
CHARLIE SWEENEY FED COM 31-23S-28E (PDSM)
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1 Mile Radius

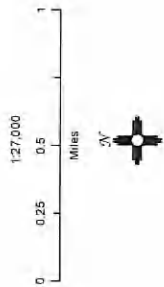
Matador Production Company

CHARLIE SWEENEY FED COM
 31-23S-28E #223H
 H-S Contingency Plan:
 2 Mile Radius Map

Section 31, Township 23S, Range 28E
 Eddy County, New Mexico



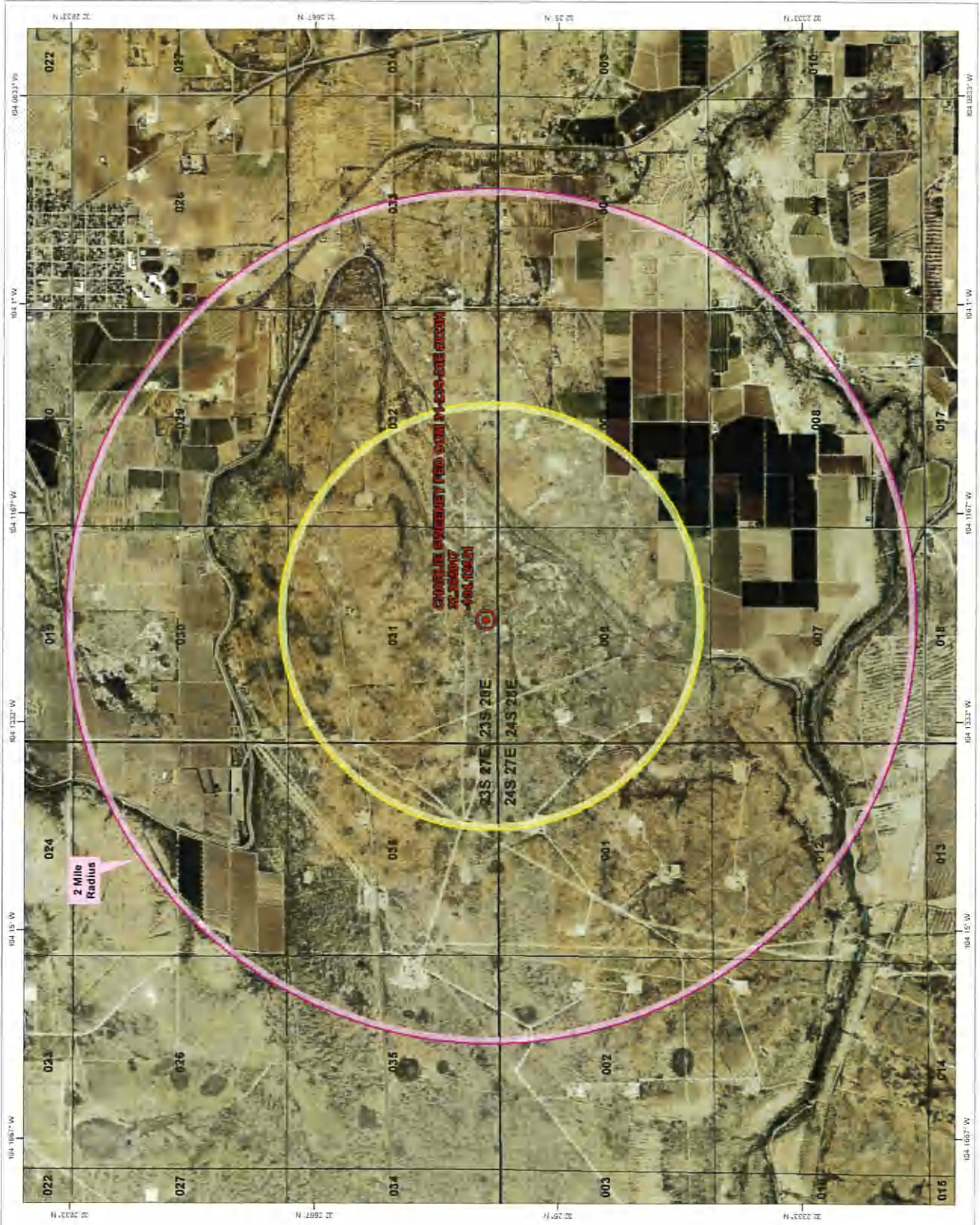
Surface Hole Location



NAD 1927 New Mexico State Plane East
 FIPS 3001 Feet



Prepared by Permits West, Inc., May 25, 2016
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West Pad: Charlie Sweeney Federal RB 31-23S-28E 123H, 203H, 207H, 223H, and 227H wells

Matador Production Company

SURFACE PLAN PAGE 1

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SHL 190' FSL & 2220' FEL Sec. 31, T. 23 S., R. 28 E.

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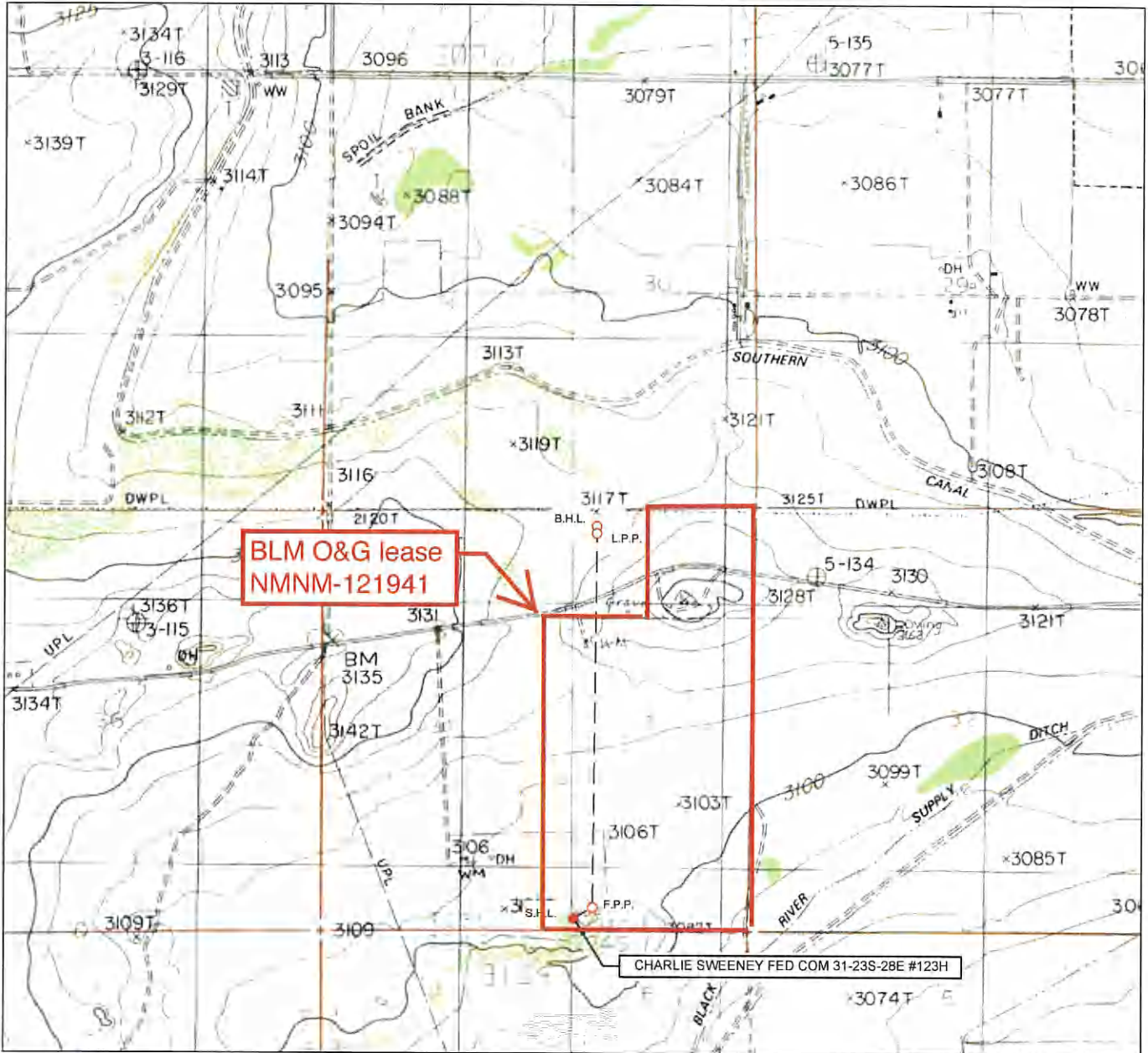
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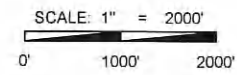
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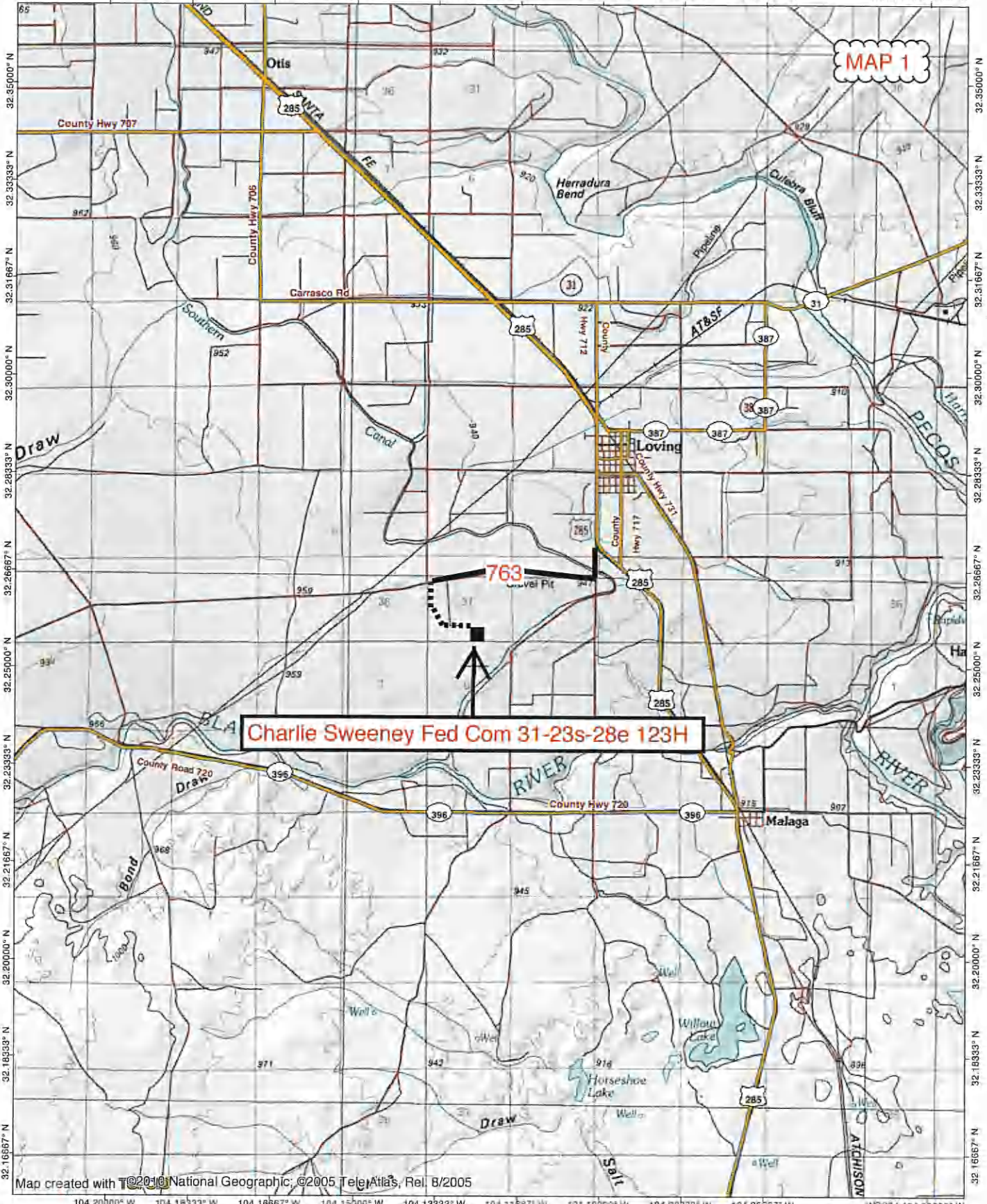
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104.20000° W 104.18333° W 104.16667° W 104.15000° W 104.13333° W 104.11667° W 104.10000° W 104.08333° W 104.06667° W WGS84 104.03333° W

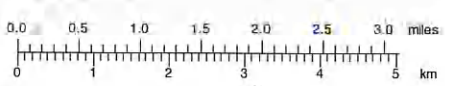


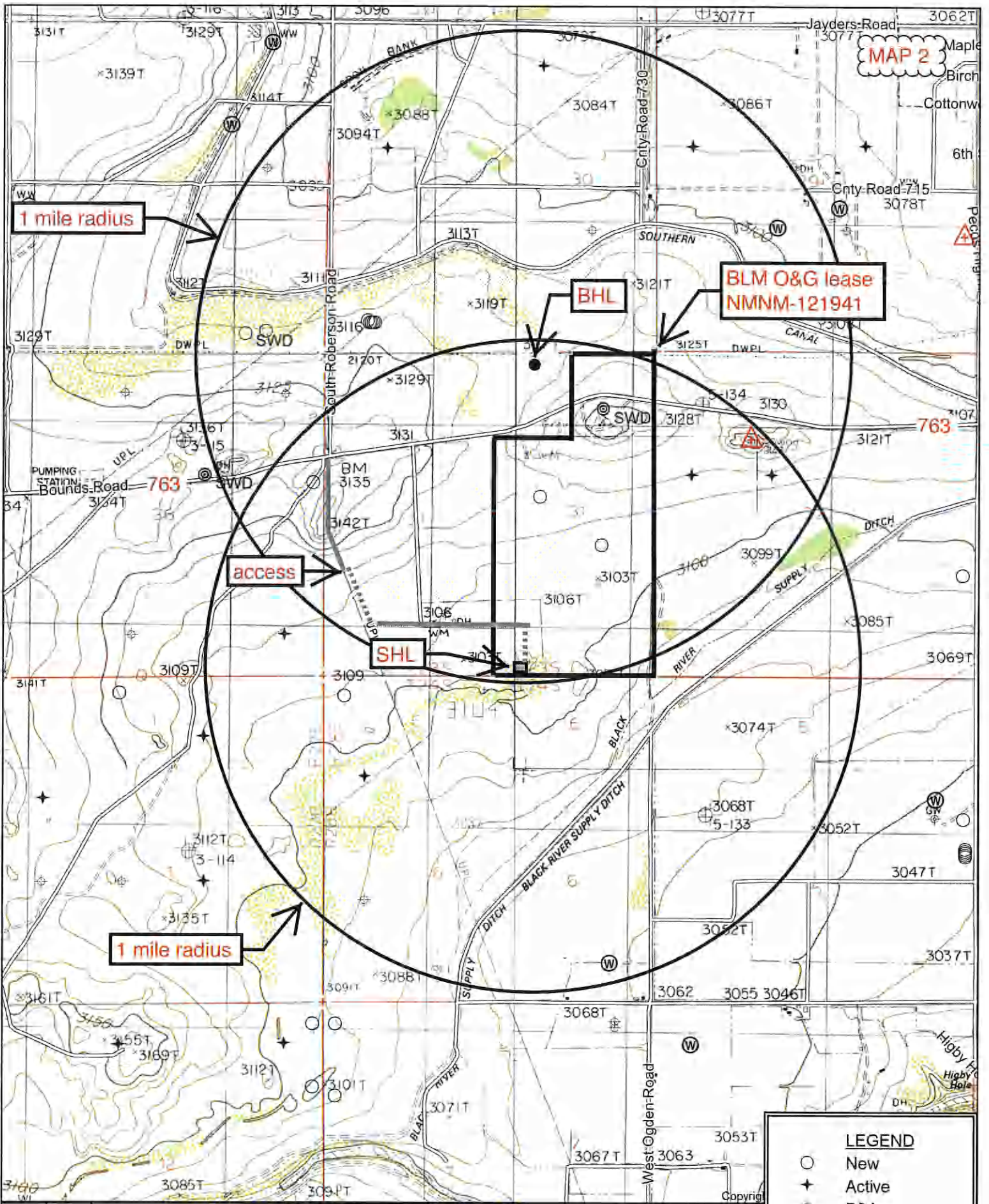
MAP 1

Charlie Sweeney Fed Com 31-23s-28e 123H

763

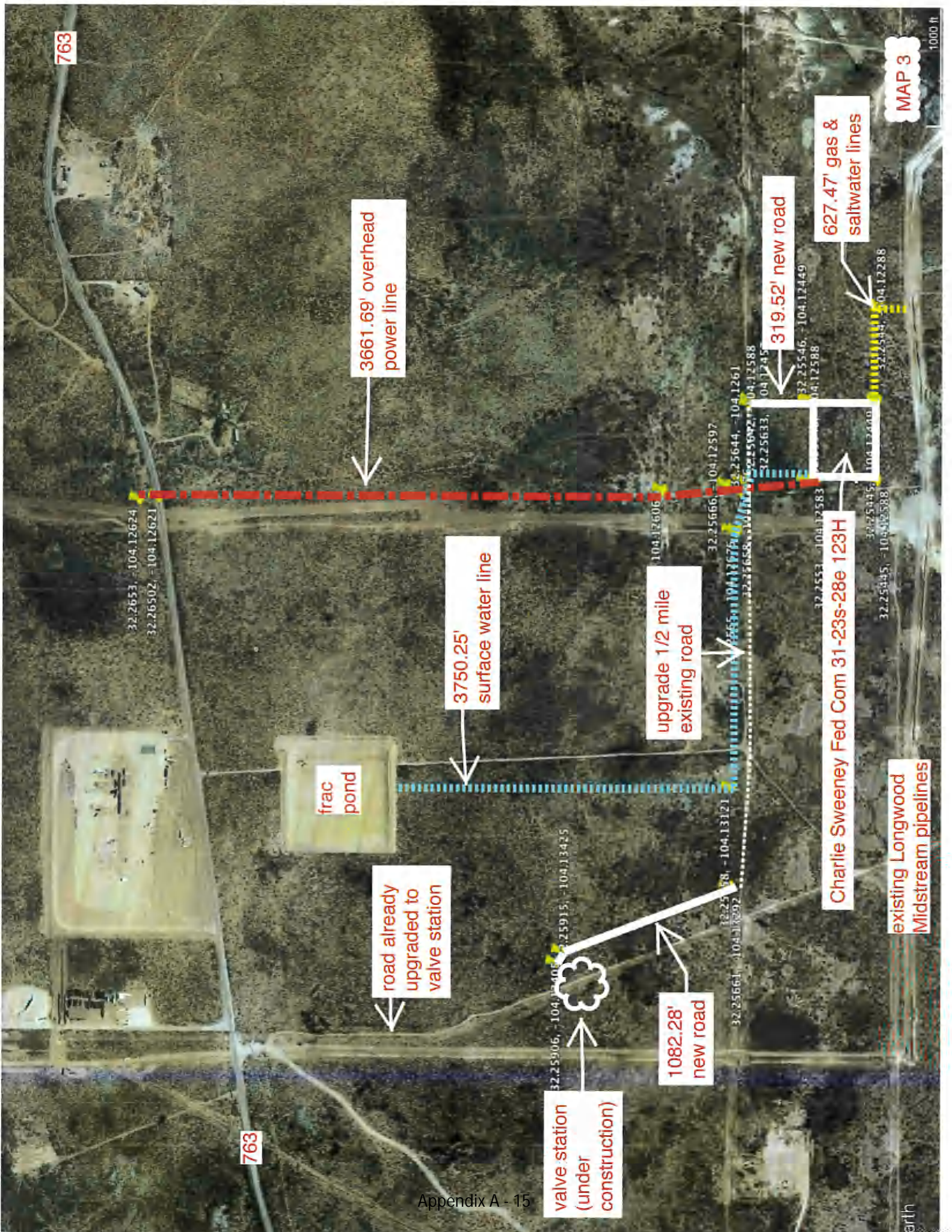
Map created with ©2010 National Geographic; ©2005 TeleAtlas, Rel. 8/2005





Quad: OTIS
 Scale: 1 inch = 2,000 ft.

LEGEND	
○	New
+	Active
⊕	P&A
⊙	INJ
⊙	SWD
⊙	Water



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MAP 3

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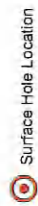
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earth

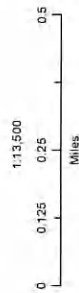
Matador Production Company

CHARLIE SWEENEY FED COM
 31-23S-28E #123H
 H+S Contingency Plan:
 1 Mile Radius Map

Section 31, Township 23S, Range 28E
 Eddy County, New Mexico



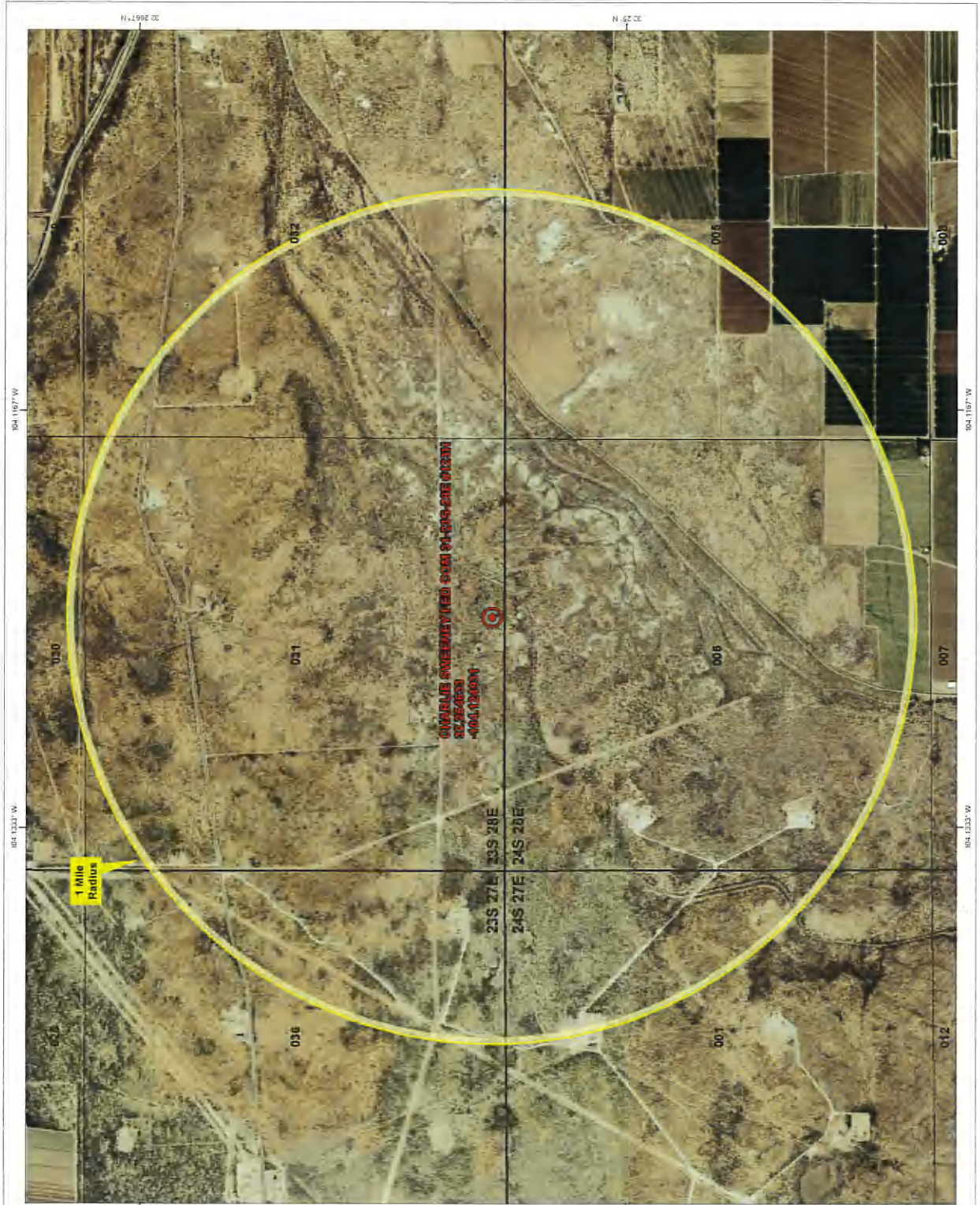
Surface Hole Location



NAD 1927 New Mexico State Plane East
 FPS 3001 Feet



Prepared by Permits West, Inc., May 25, 2016
 for Matador Production Company



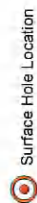
CHARLIE SWEENEY FED COM 31-23S-28E #123H
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 -4063.124194

1 Mile Radius

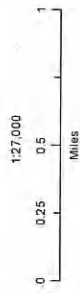
Matador Production Company

CHARLIE SWEENEY FED COM
31-23S-28E #123H
H:S Contingency Plan:
2 Mile Radius Map

Section 31, Township 23S, Range 28E
Eddy County, New Mexico



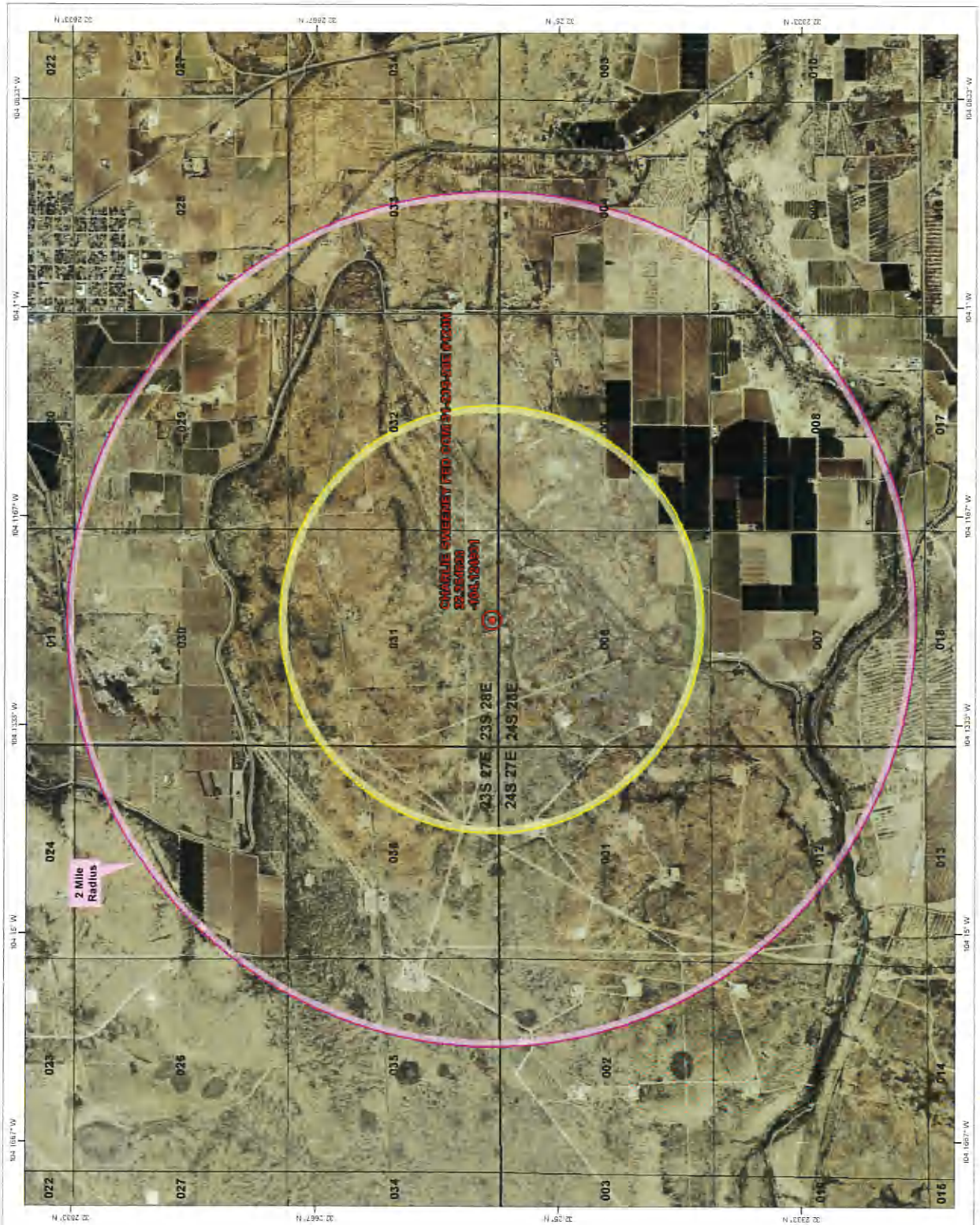
Surface Hole Location



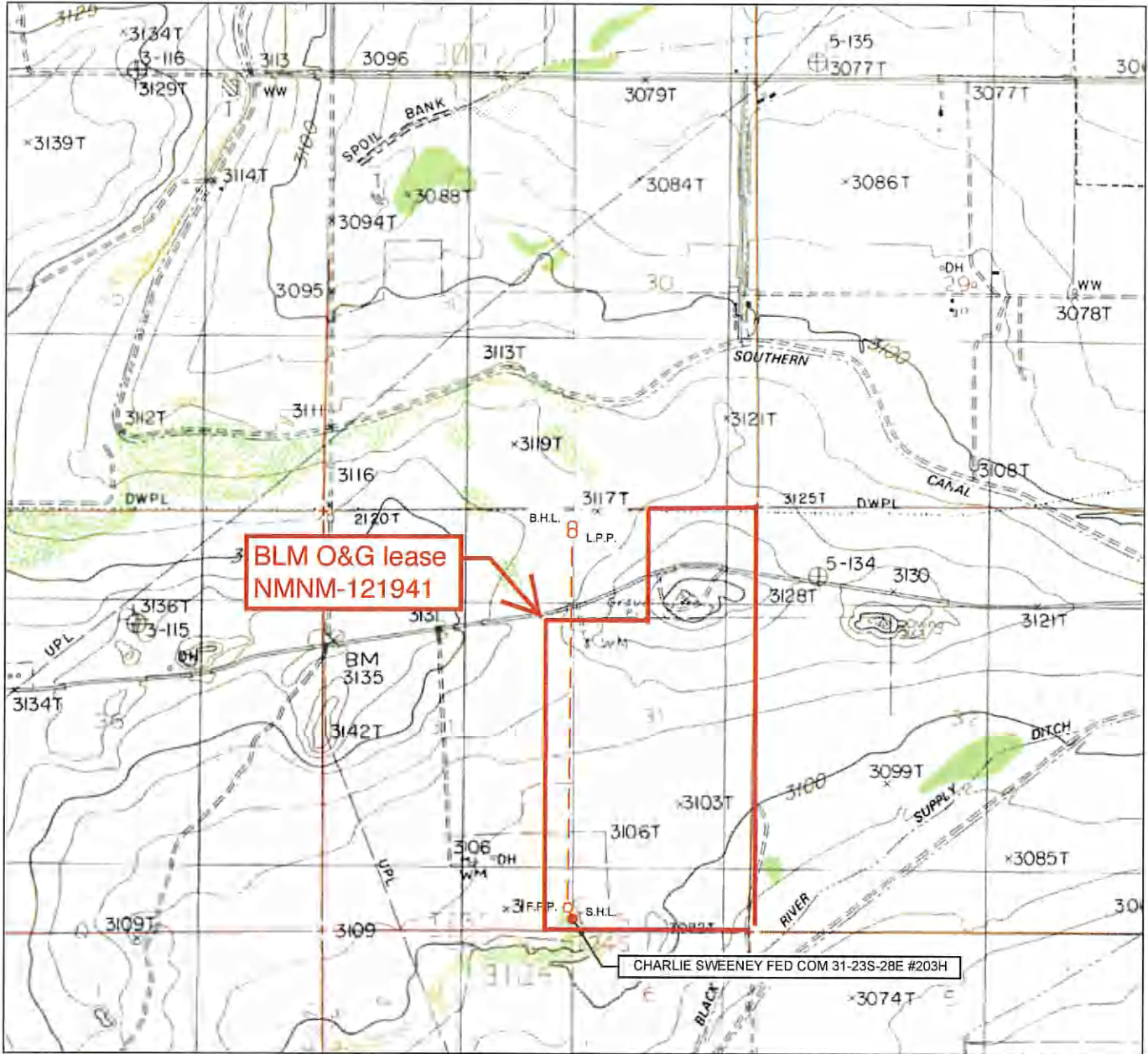
NAD 1927 New Mexico State Plane East
FPS 3001 Feet



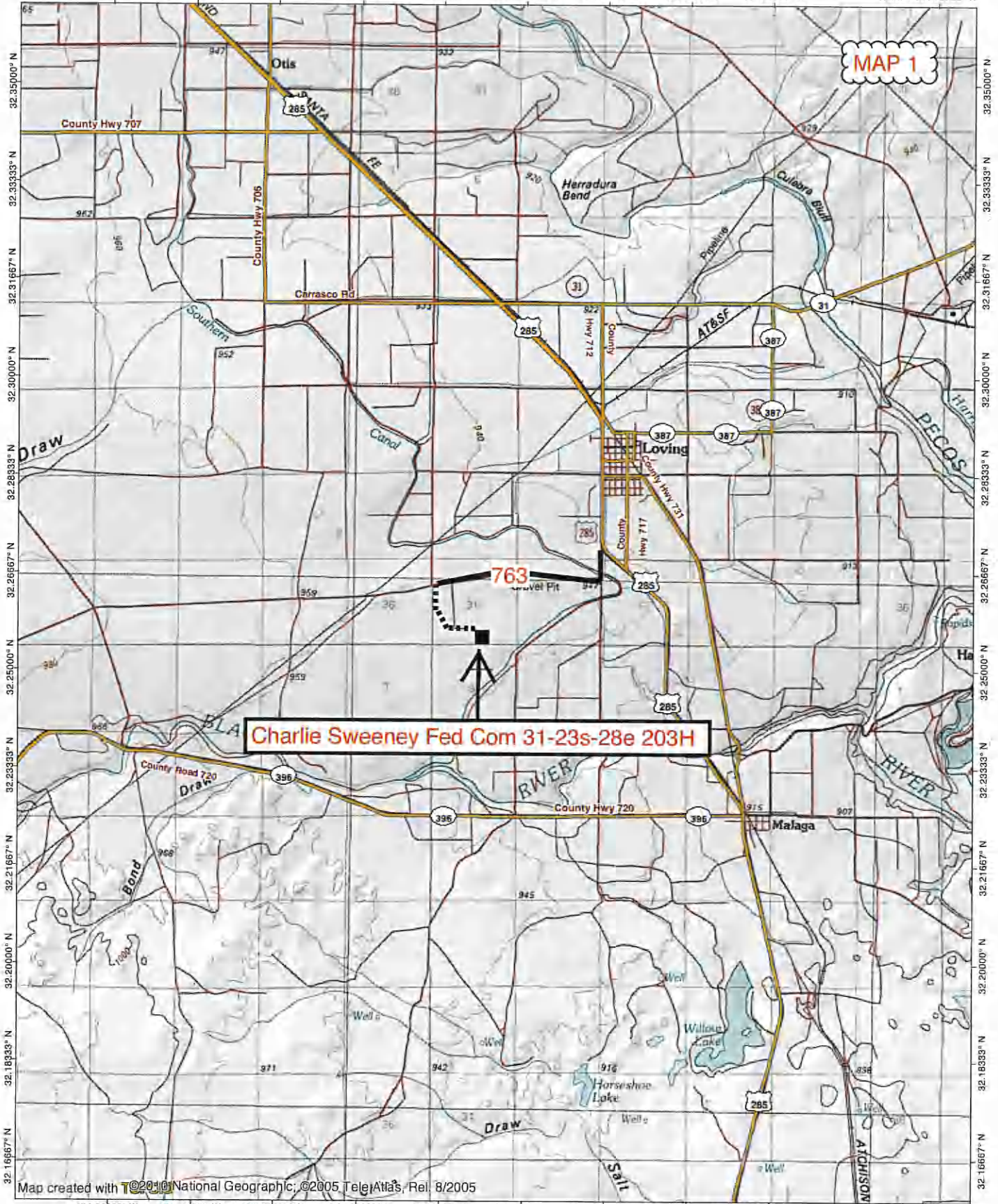
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LOCATION & ELEVATION VERIFICATION MAP



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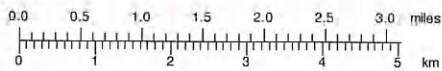


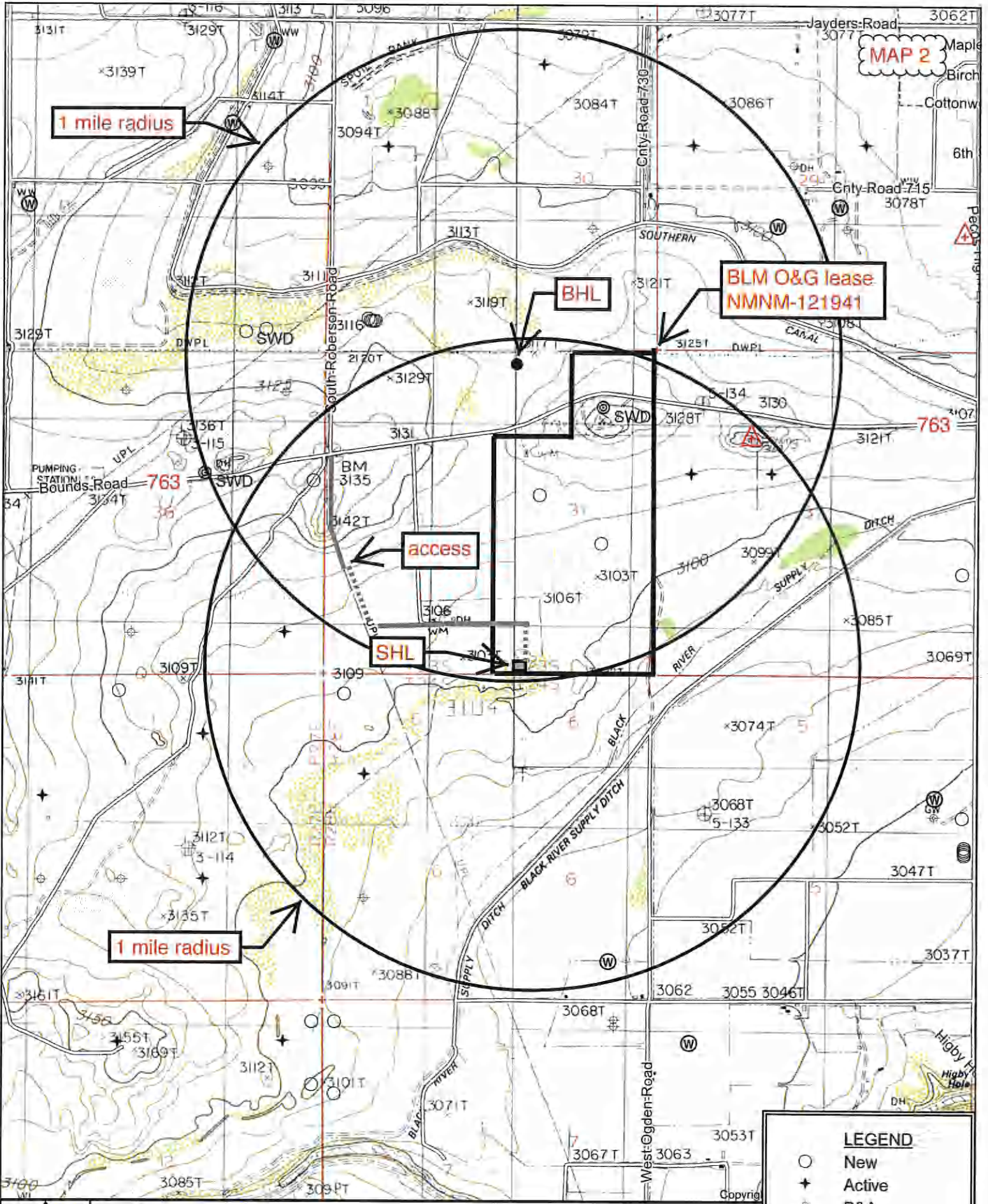
MAP 1

Charlie Sweeney Fed Com 31-23s-28e 203H



Map created with TOPO! National Geographic, ©2005 TeleAtlas, Rel. 8/2005





MAP 2

1 mile radius

BLM O&G lease
NMNM-121941

BHL

access

SHL

1 mile radius

LEGEND

- New
- + Active
- ⊕ P&A
- ⊙ INJ
- ⊙ SWD
- ⊙ Water

Quad: OTIS
Scale: 1 inch = 2,000 ft.



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1000 ft

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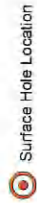
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earth

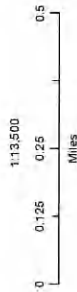
Matador Production Company

CHARLIE SWEENEY FED COM
 31-23S-28E #203H
 H2S Contingency Plan:
 1 Mile Radius Map

Section 31, Township 23S, Range 28E
 Eddy County, New Mexico



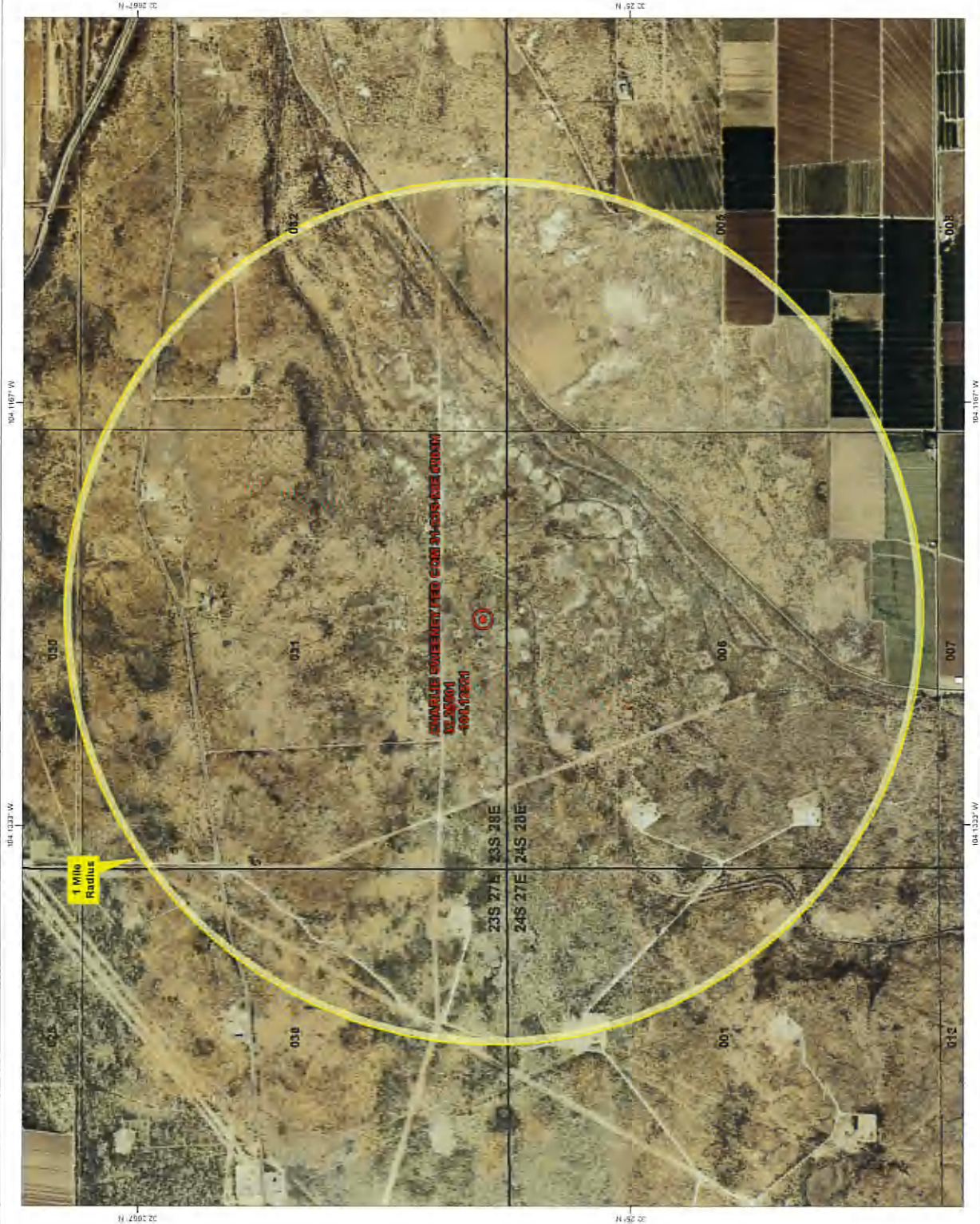
Surface Hole Location



NAD 1927 New Mexico State Plane East
 FIPS 3001 Feet



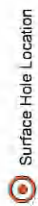
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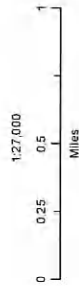
Matador Production Company

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31-23S-28E #203H
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2 Mile Radius Map

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Eddy County, New Mexico



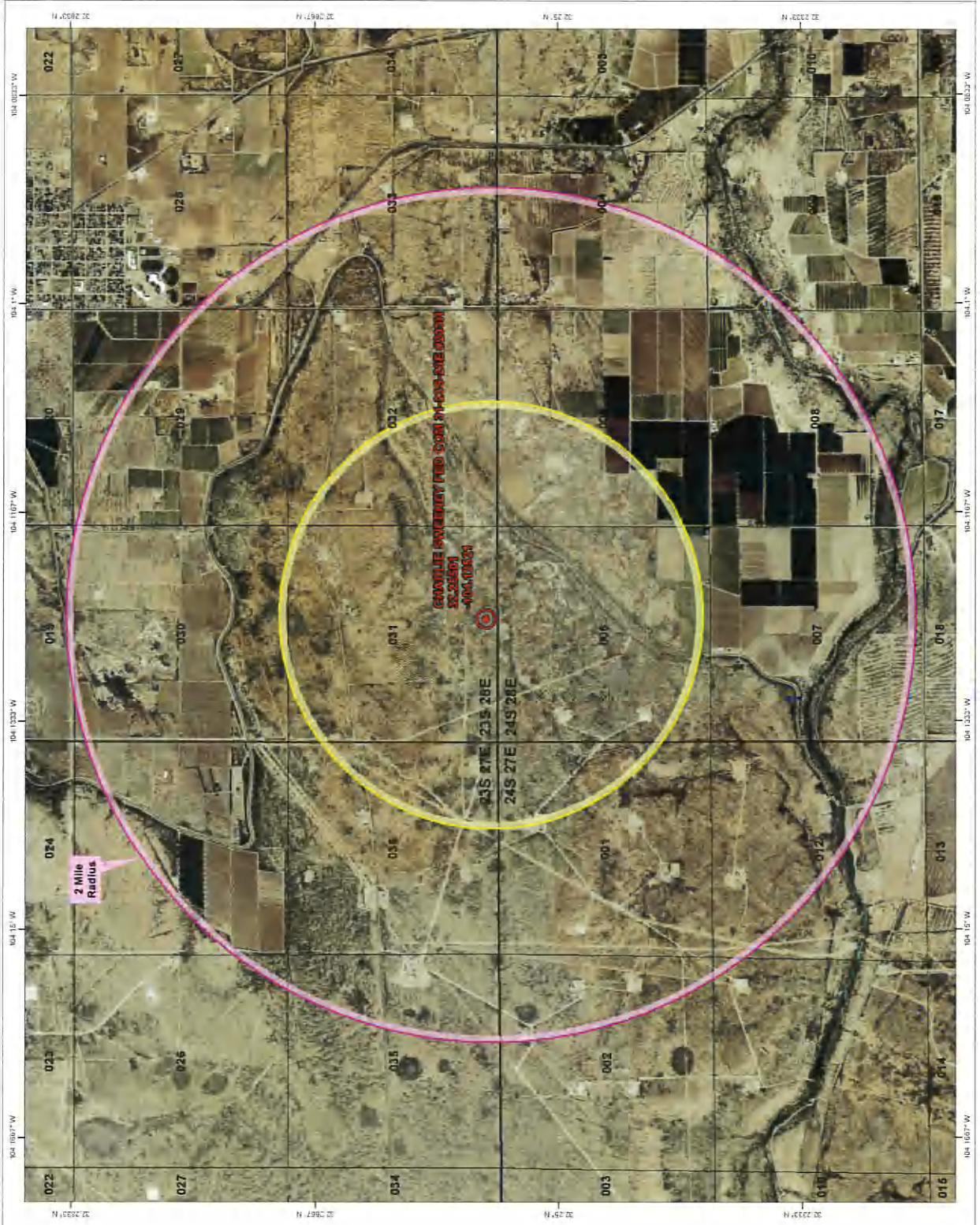
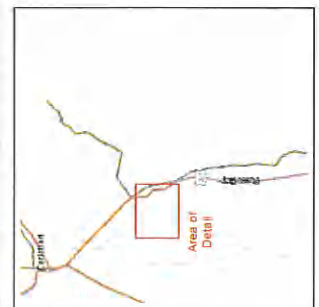
Surface Hole Location



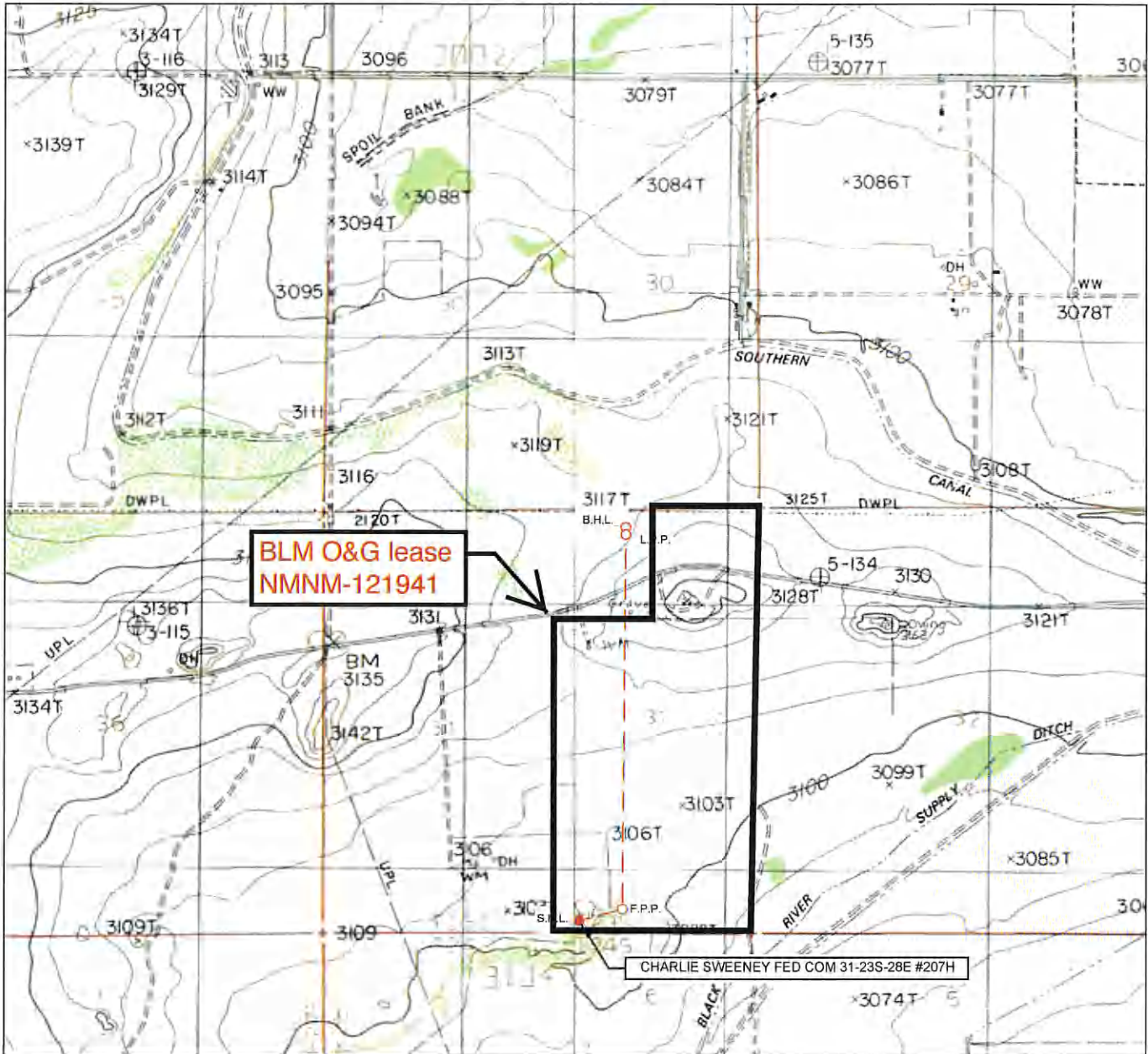
NAD 1927 New Mexico State Plane East
FPS 3001 Feet



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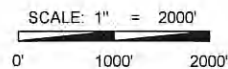
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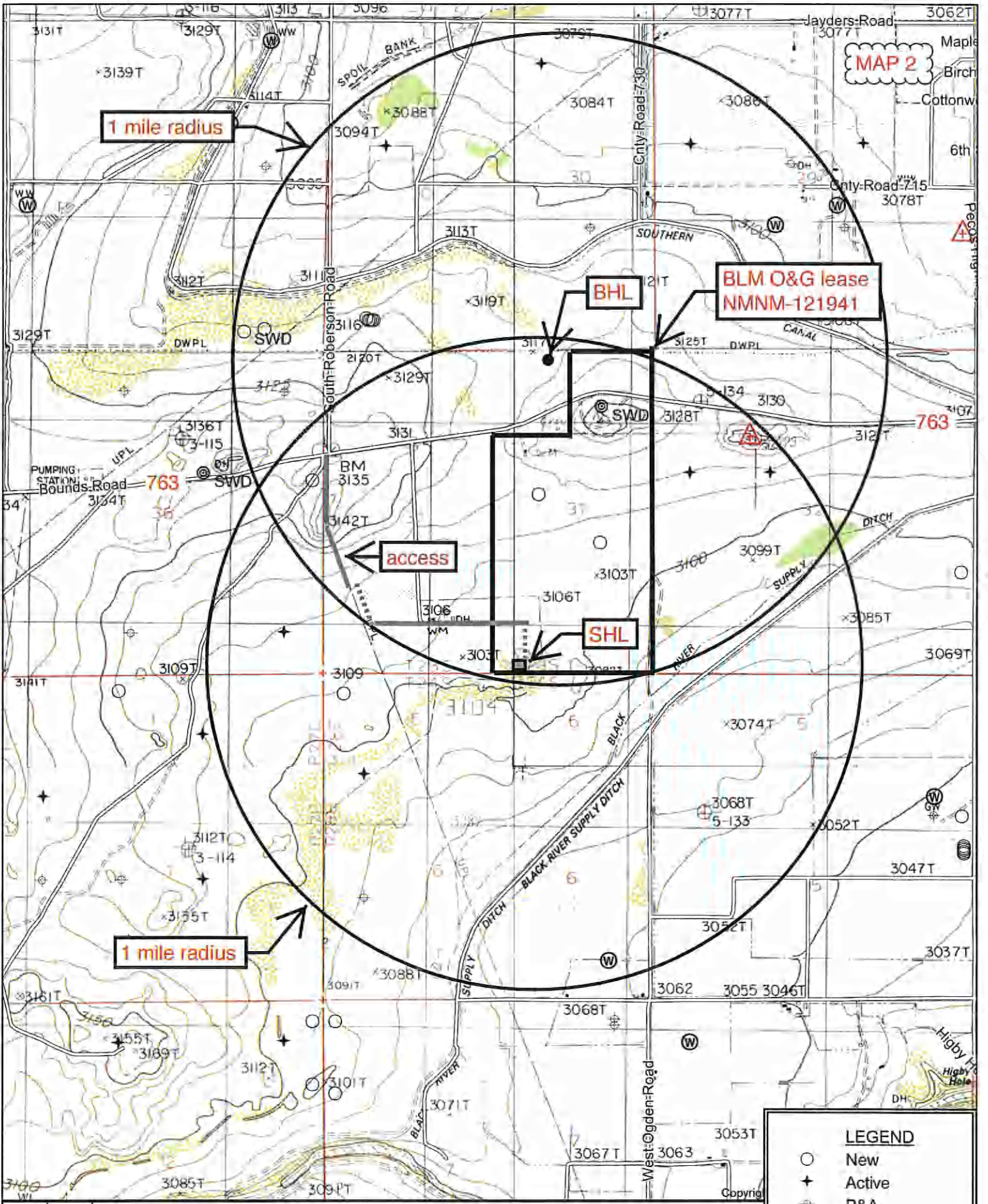


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1 mile radius

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NMNM-121941

BHL

access

SHL

1 mile radius

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Quad: OTIS
Scale: 1 inch = 2,000 ft.



763

763

MAP 3

1000 ft

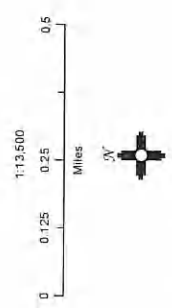
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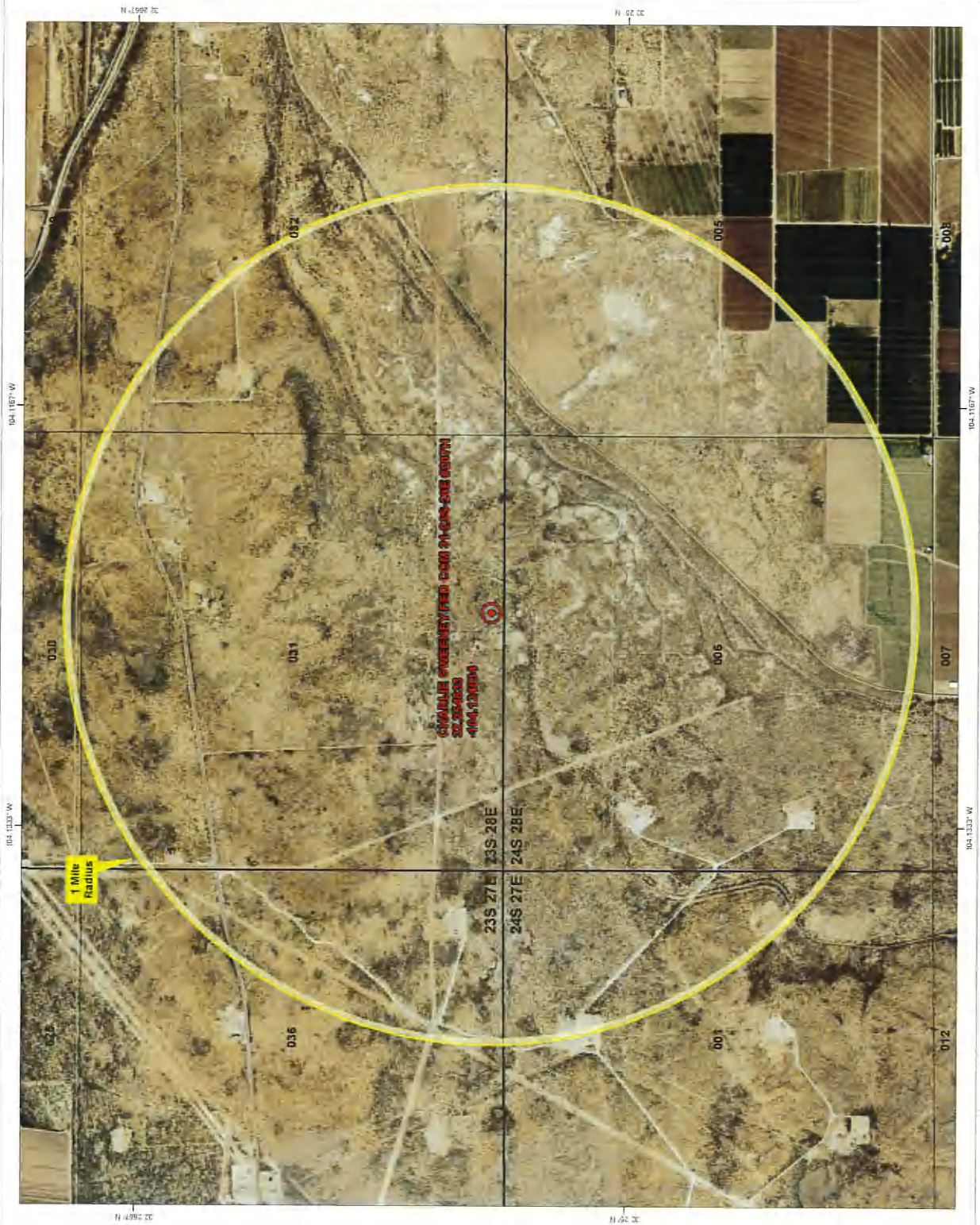
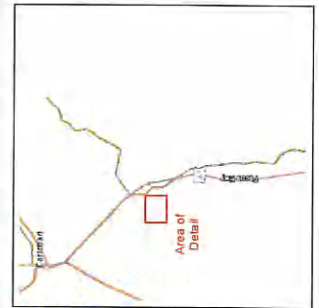
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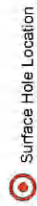
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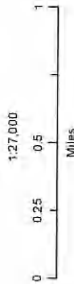
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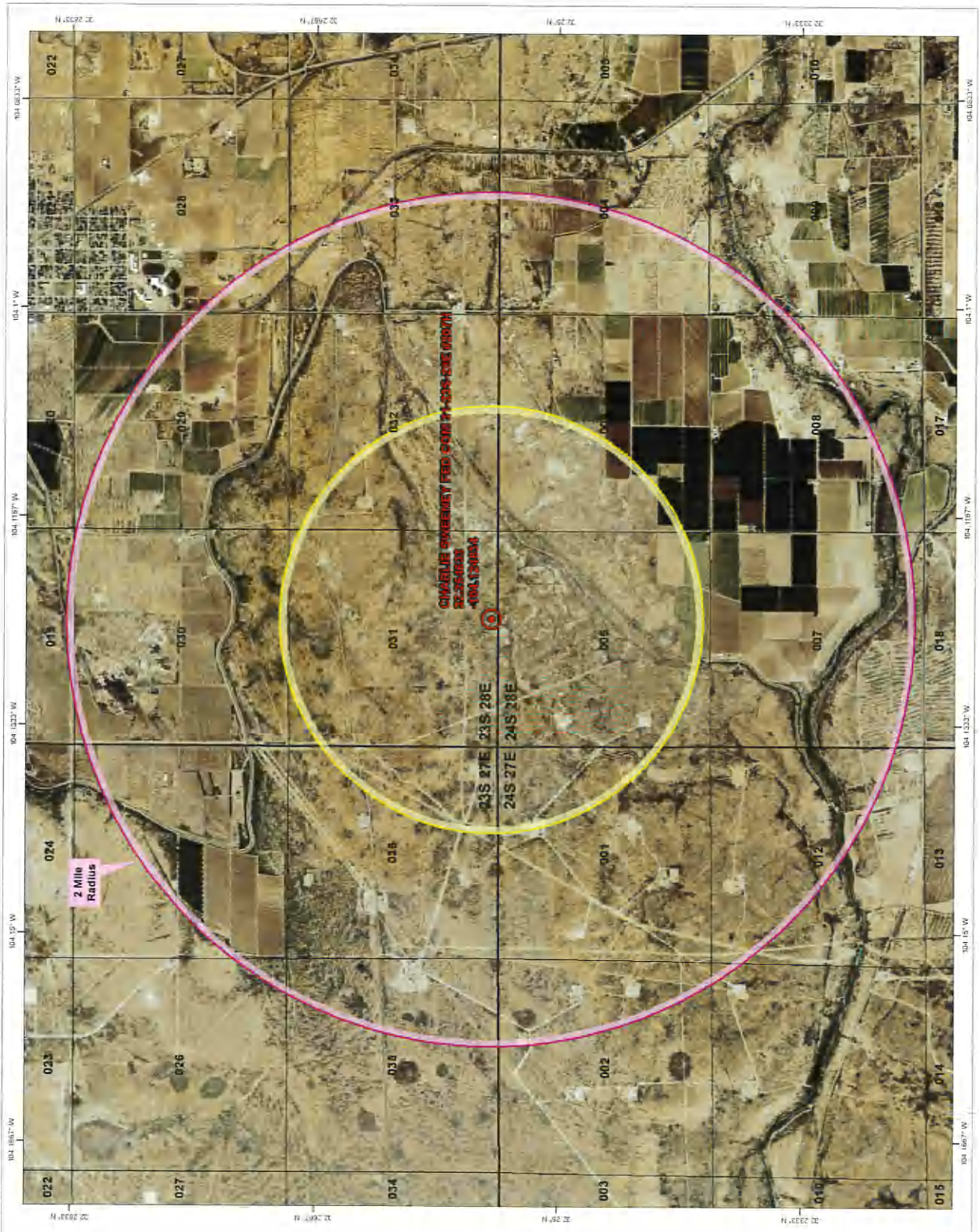
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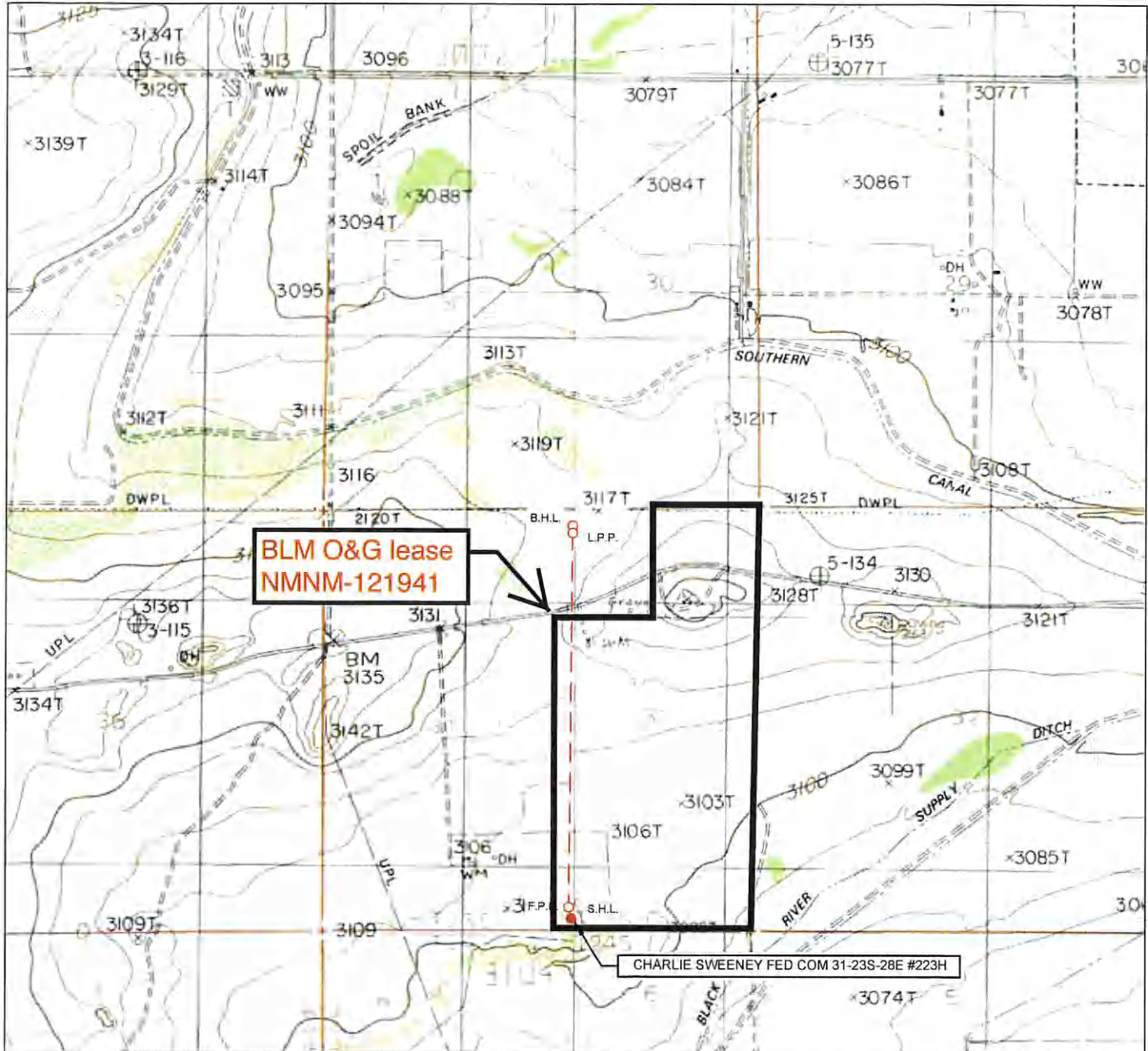
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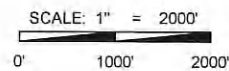
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LATITUDE N 32.2546333 LONGITUDE W 104.1251244



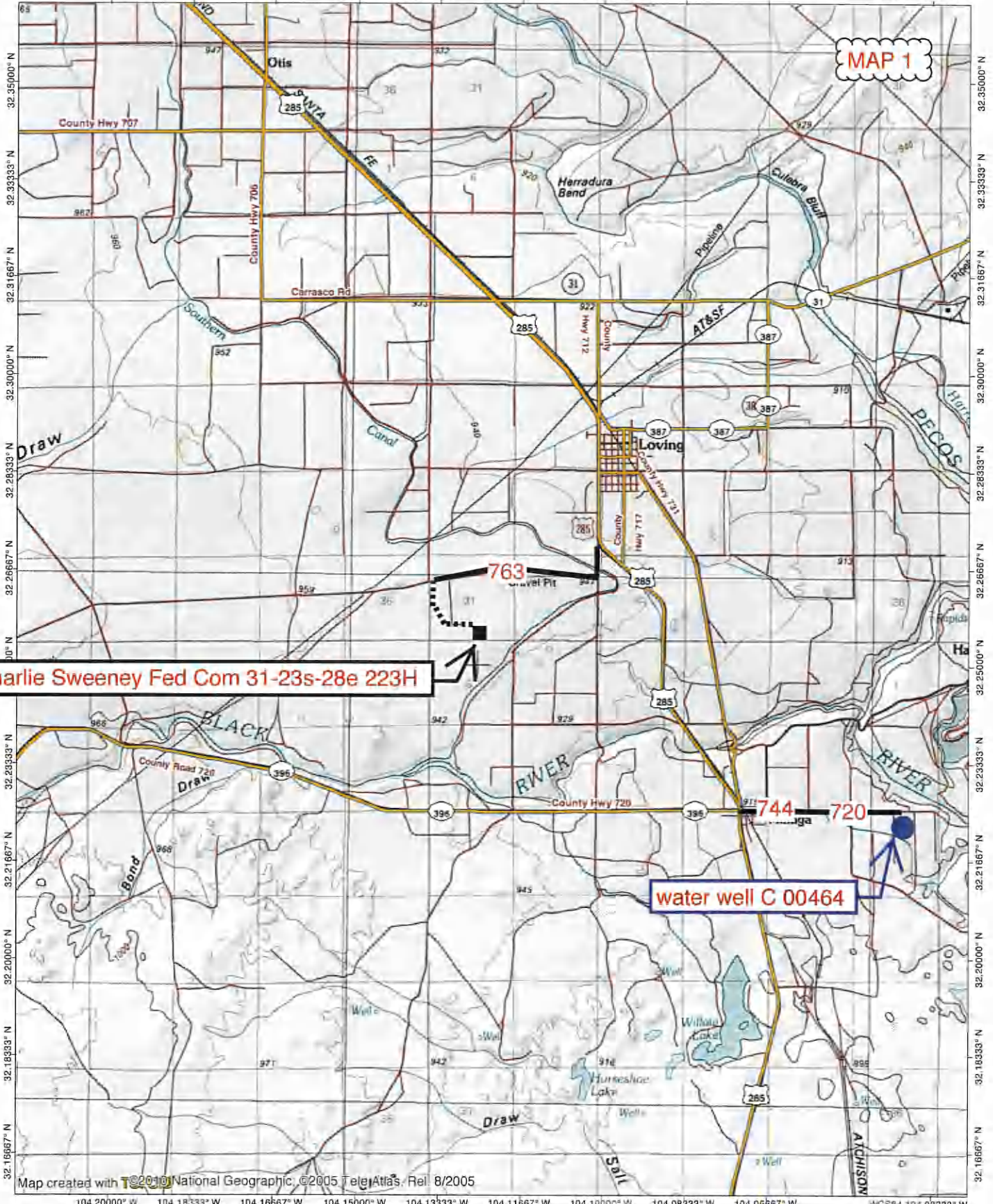
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

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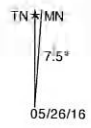
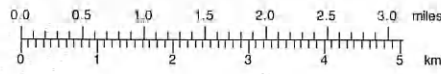
1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
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 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
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MAP 1



Charlie Sweeney Fed Com 31-23s-28e 223H

water well C 00464



MAP 2

1 mile radius

BLM O&G lease
NMNM-121941

BHL

access

SHL

1 mile radius

LEGEND	
○	New
+	Active
⊕	P&A
⊙	INJ
⊙	SWD
⊙	Water

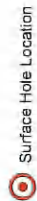


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Scale: 1 inch = 2,000 ft.

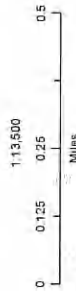
Matador Production Company

CHARLIE SWEENEY FED COM
 31-23S-28E #223H
 H+S Contingency Plan:
 1 Mile Radius Map

Section 31, Township 23S, Range 28E
 Eddy County, New Mexico



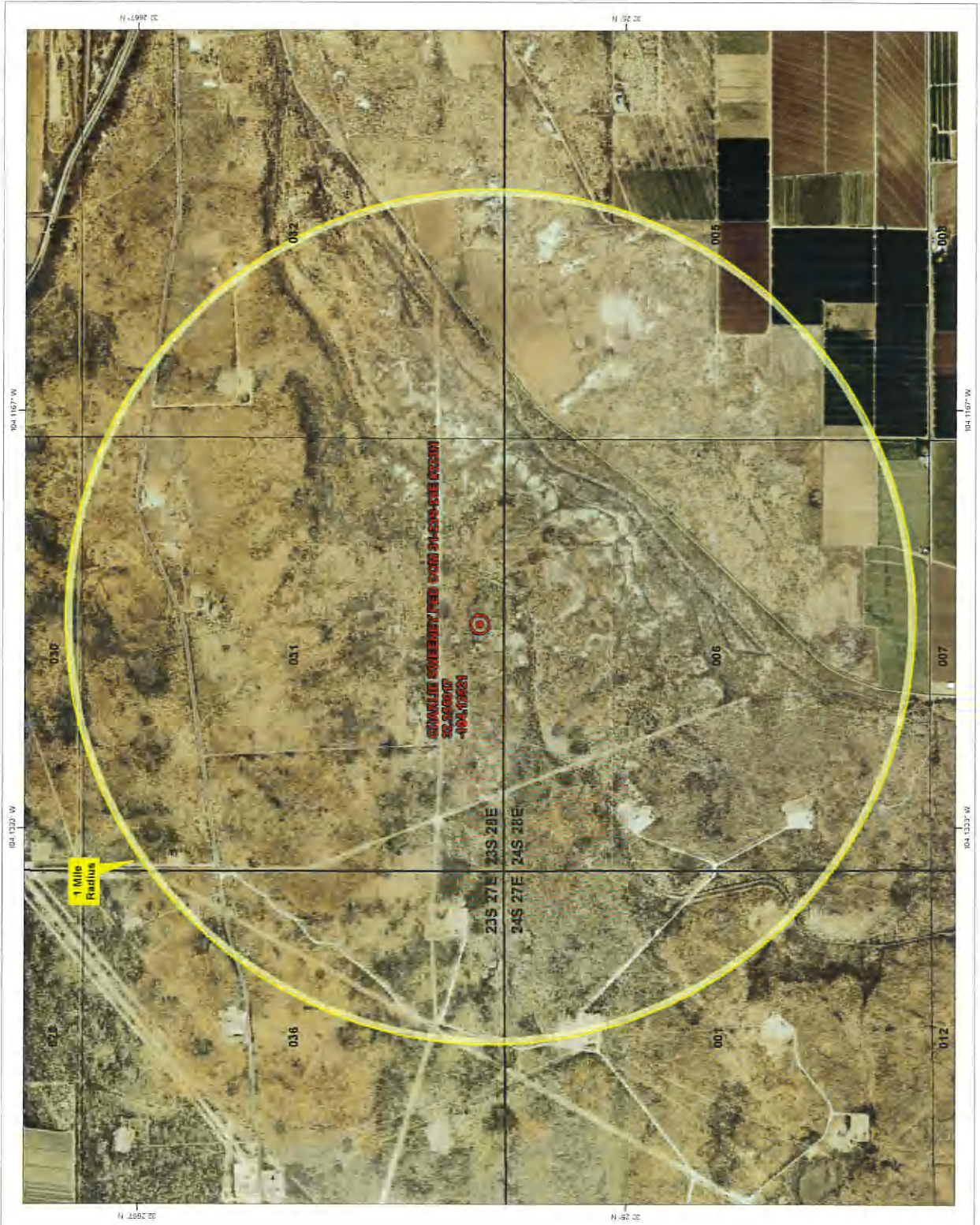
Surface Hole Location



NAD 1927 New Mexico State Plane East
 FIPS 3001 Feet



Prepared by Permits West, Inc., May 25, 2016
 for Matador Production Company



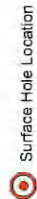
CHARLIE SWEENEY FED COM 31-23S-28E (PDSM)
 32-265907
 -104.076261

1 Mile Radius

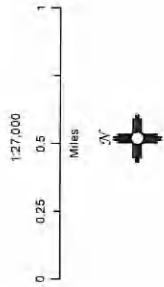
Matador Production Company

CHARLIE SWEENEY FED COM
 31-23S-28E #223H
 H-S Contingency Plan:
 2 Mile Radius Map

Section 31, Township 23S, Range 28E
 Eddy County, New Mexico



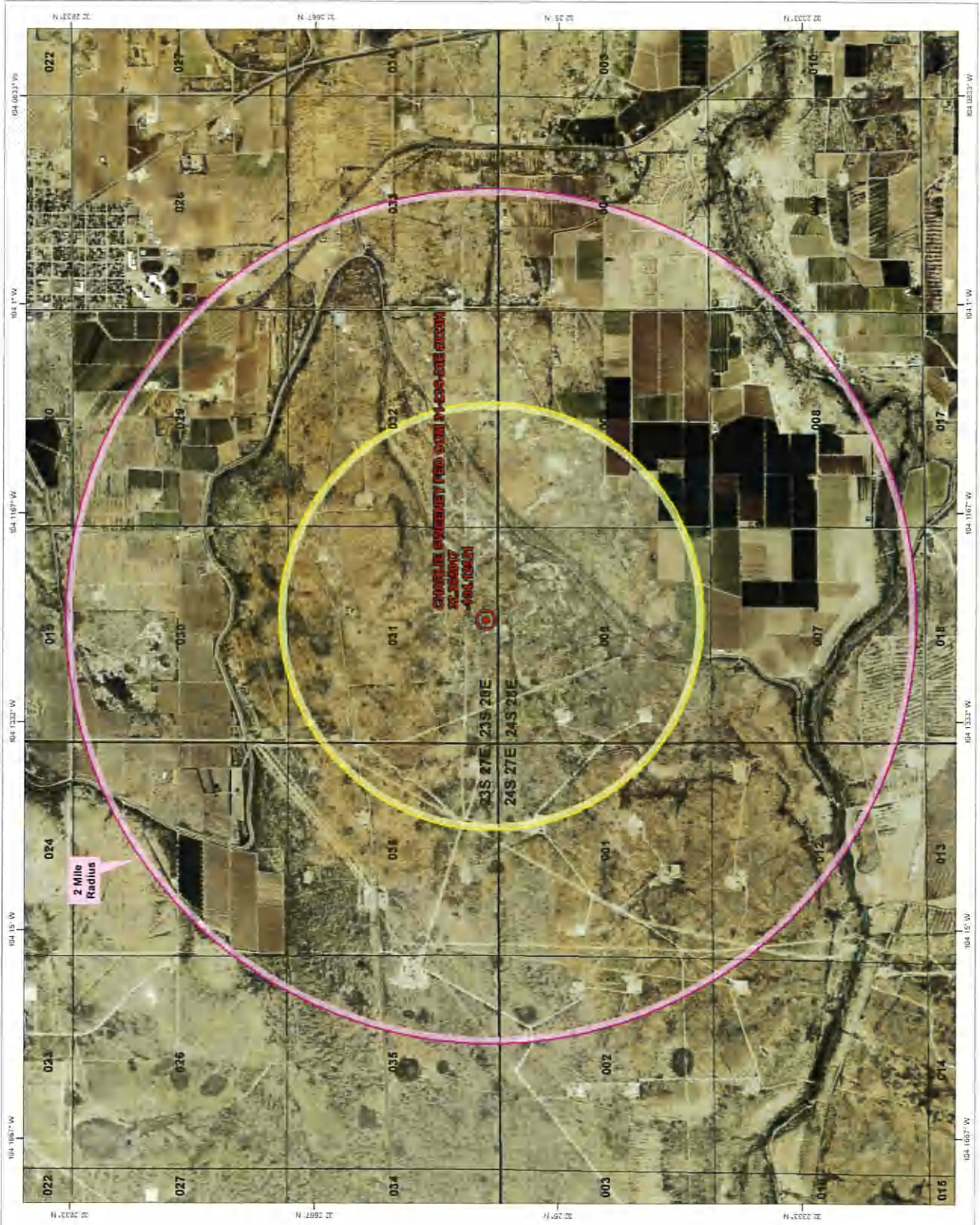
Surface Hole Location



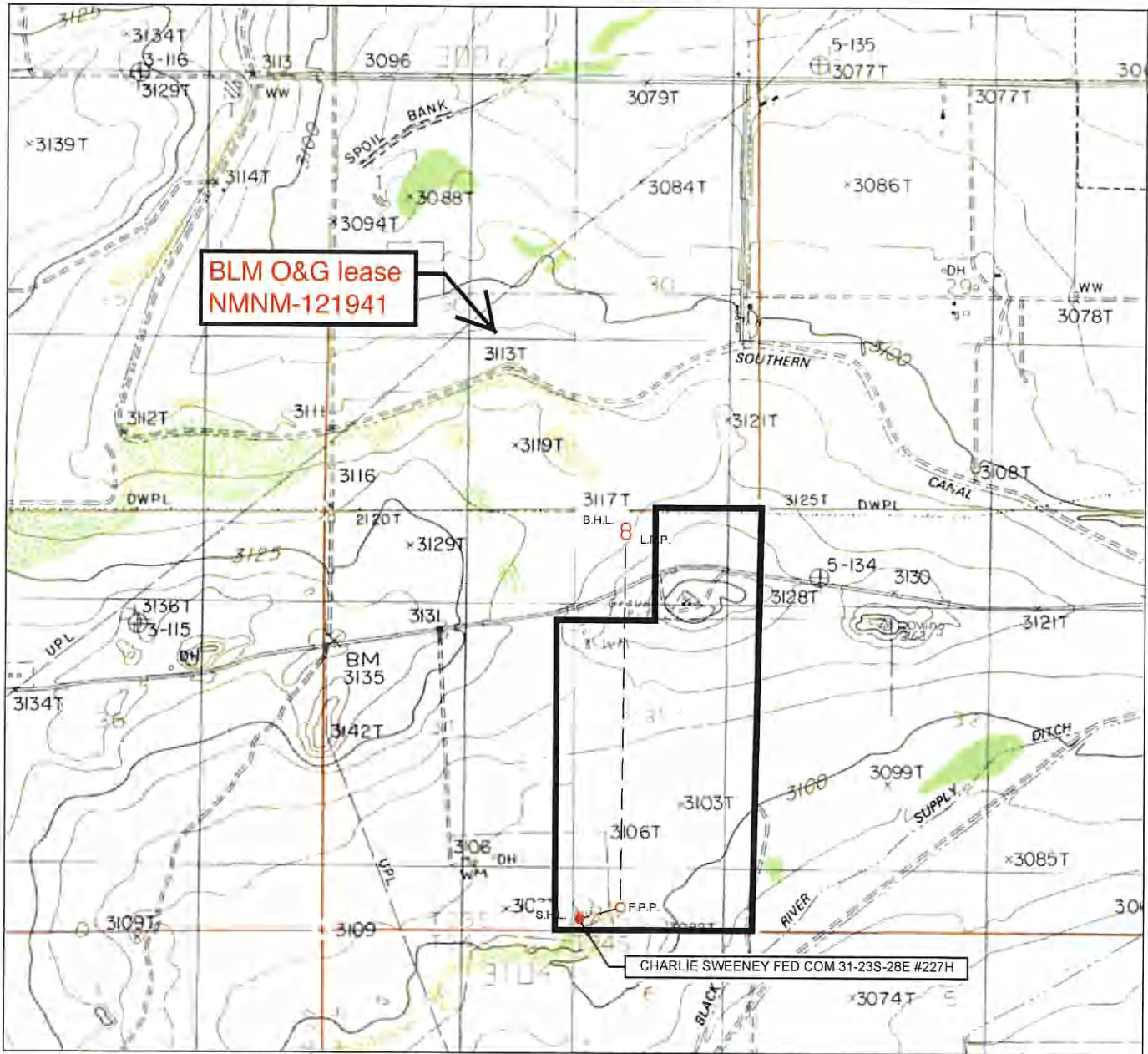
NAD 1927 New Mexico State Plane East
 FIPS 3001 Feet



Prepared by Permits West, Inc., May 25, 2016
 for Matador Production Company



LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: CHARLIE SWEENEY FED COM 31-23S-28E #227H

SECTION 31 TWP 23-S RGE 28-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM ELEVATION 3111'
 DESCRIPTION 190' FSL & 2160' FEL

LATITUDE N 32.2546332 LONGITUDE W 104.1247363



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 WWW.TOPOGRAPHIC.COM

104.20000° W 104.18333° W 104.16667° W 104.15000° W 104.13333° W 104.11667° W 104.10000° W 104.08333° W 104.06667° W WGS84 104.03333° W

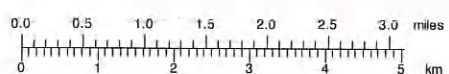
MAP 1

Charlie Sweeney Fed Com 31-23s-28e 227H

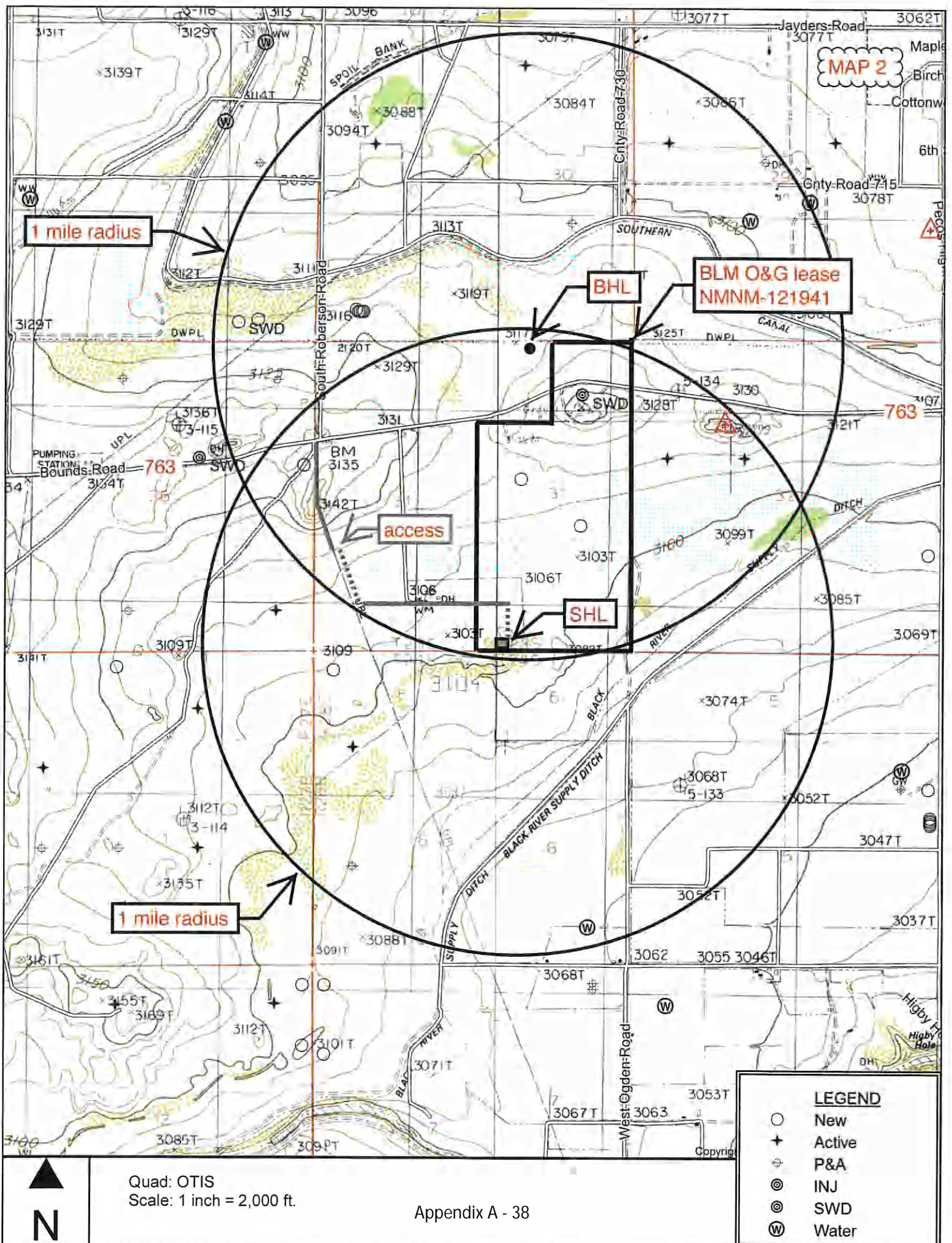
Water well C 00464

Map created with ©2010 National Geographic, ©2005 TeleAtlas, Rel 8/2005

104.20000° W 104.18333° W 104.16667° W 104.15000° W 104.13333° W 104.11667° W 104.10000° W 104.08333° W 104.06667° W WGS84 104.03333° W



05/26/16



763

763

32.2653, -104.12624
32.26502, -104.12621

frac pond

road already upgraded to valve station

3661.69' overhead power line

3750.25' surface water line

valve station (under construction)

32.25906, -104.13405
32.25915, -104.13425

1082.28' new road

upgrade 1/2 mile existing road

104.12606

32.25661, -104.13292
32.25658, -104.13292

32.25666, -104.12597

319.52' new road

32.25644, -104.1261
32.25633, -104.12588

Charlie Sweeney Fed Com 31-23s-28e 227H

627.47' gas & saltwater lines

32.25546, -104.12449
32.25544, -104.12588

32.25445, -104.12400
32.25445, -104.12588

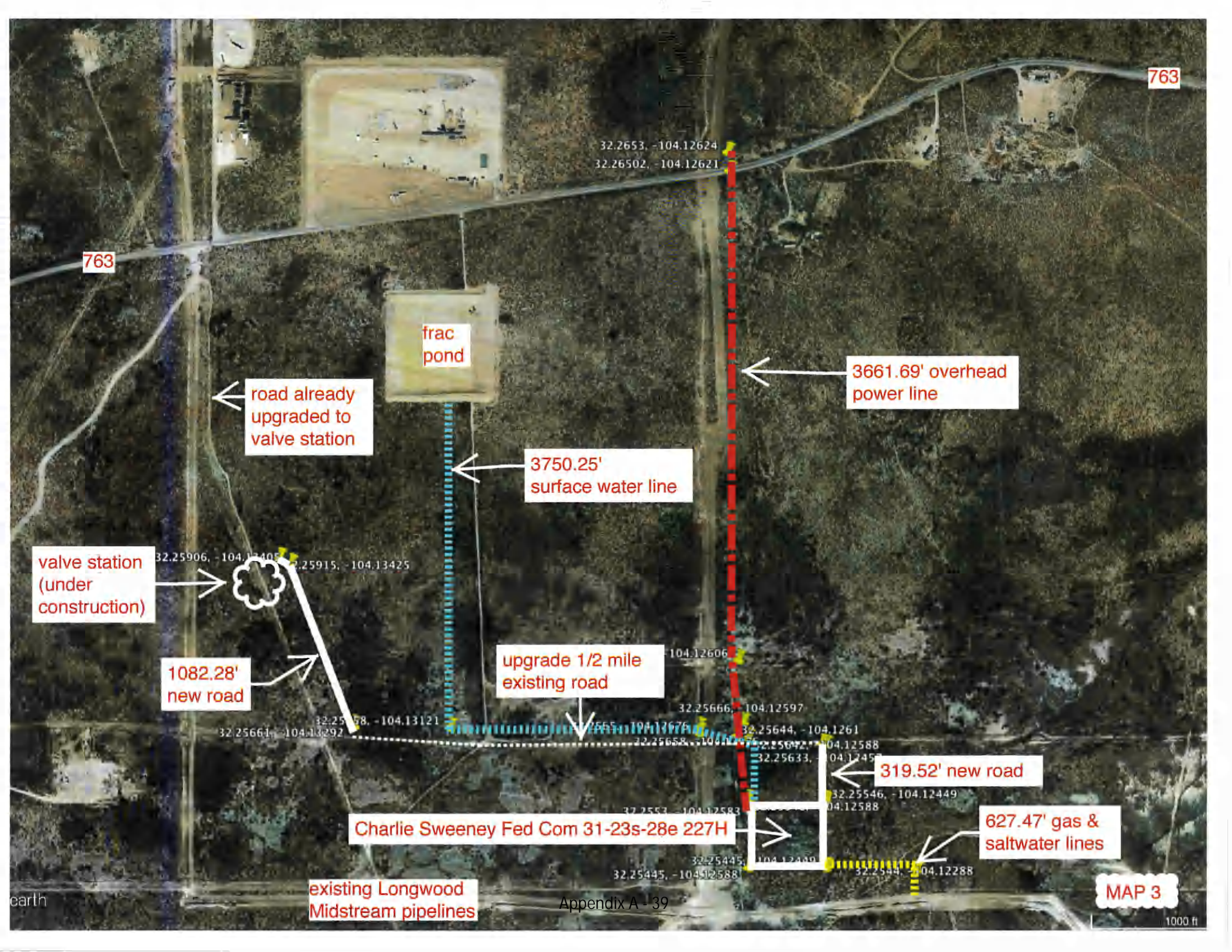
32.2544, -104.12288

existing Longwood Midstream pipelines

MAP 3

1000 ft

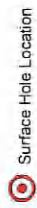
earth



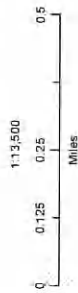
Matador Production Company

CHARLIE SWEENEY FED COM
 31-23S-28E #227H
 H+S Contingency Plan:
 1 Mile Radius Map

Section 31, Township 23S, Range 28E
 Eddy County, New Mexico



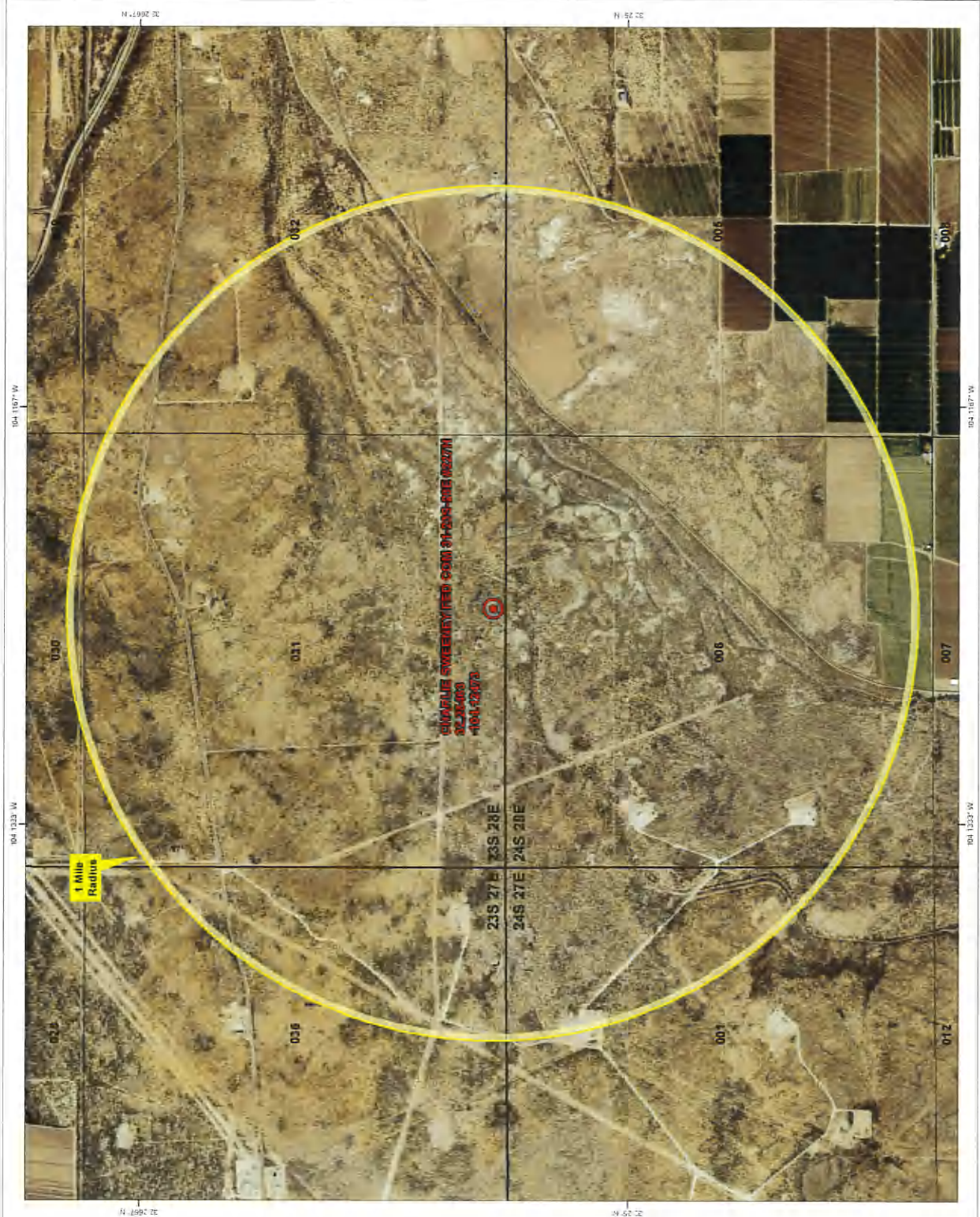
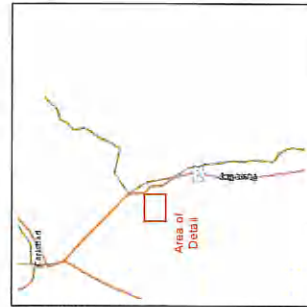
Surface Hole Location



NAD 1987 New Mexico State Plane East
 FIPS 3001 Feet



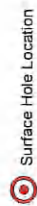
Prepared by Permits West, Inc. May 25, 2016
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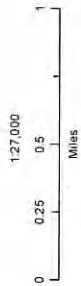
Matador Production Company

CHARLIE SWEENEY FED COM
31-23S-28E #227H
H/S Contingency Plan:
2 Mile Radius Map

Section 31, Township 23S, Range 28E
Eddy County, New Mexico



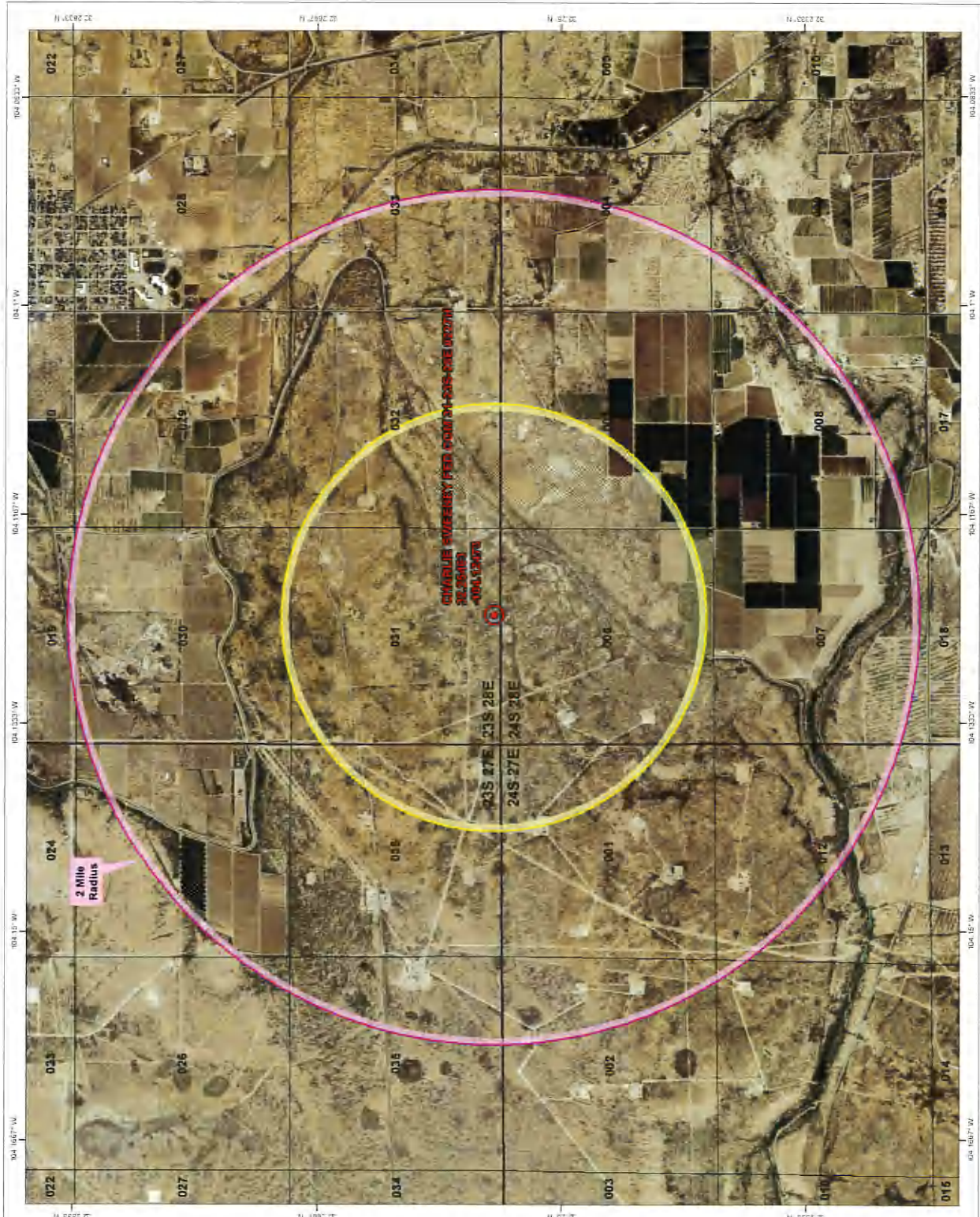
Surface Hole Location



NAD 1927 New Mexico Slate Plane East
FPS 3001 Feet

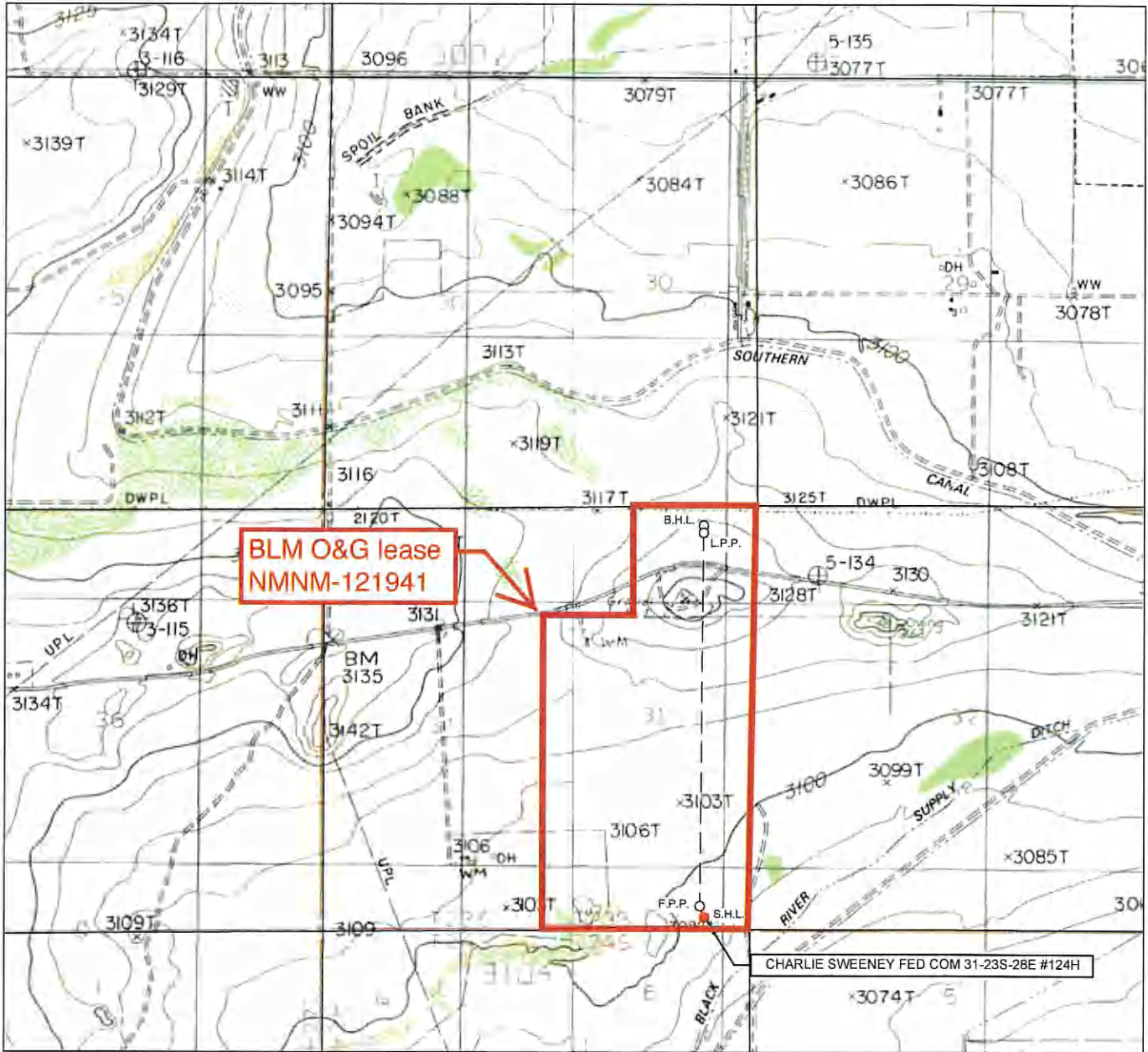


Prepared by Permits West, Inc., May 25, 2016
for Matador Production Company



East Pad: Charlie Sweeney Federal RB 31-23S-28E 124H, 204H, 208H, 224H, and 228H wells

LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: CHARLIE SWEENEY FED COM 31-23S-28E #124H

SECTION 31 TWP 23-S RGE 28-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM ELEVATION 3101'
 DESCRIPTION 188' FSL & 605' FEL

LATITUDE N 32.2546323 LONGITUDE W 104.1197064



SCALE: 1" = 2000'
 0' 1000' 2000'

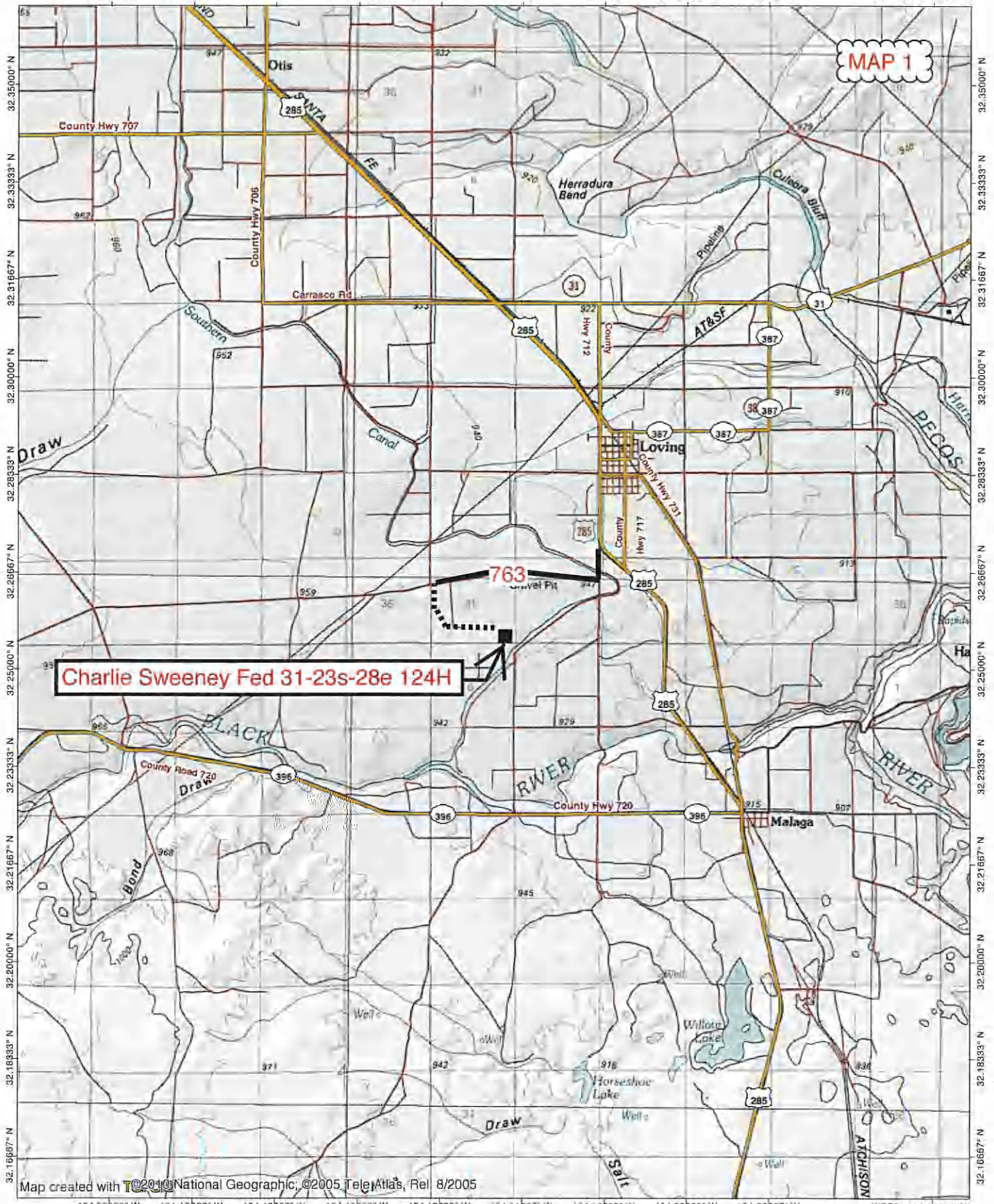
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104.20000° W 104.18333° W 104.16667° W 104.15000° W 104.13333° W 104.11667° W 104.10000° W 104.08333° W 104.06667° W WGS84 104.03333° W

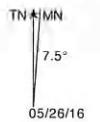
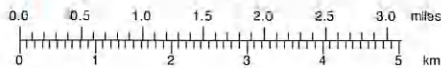


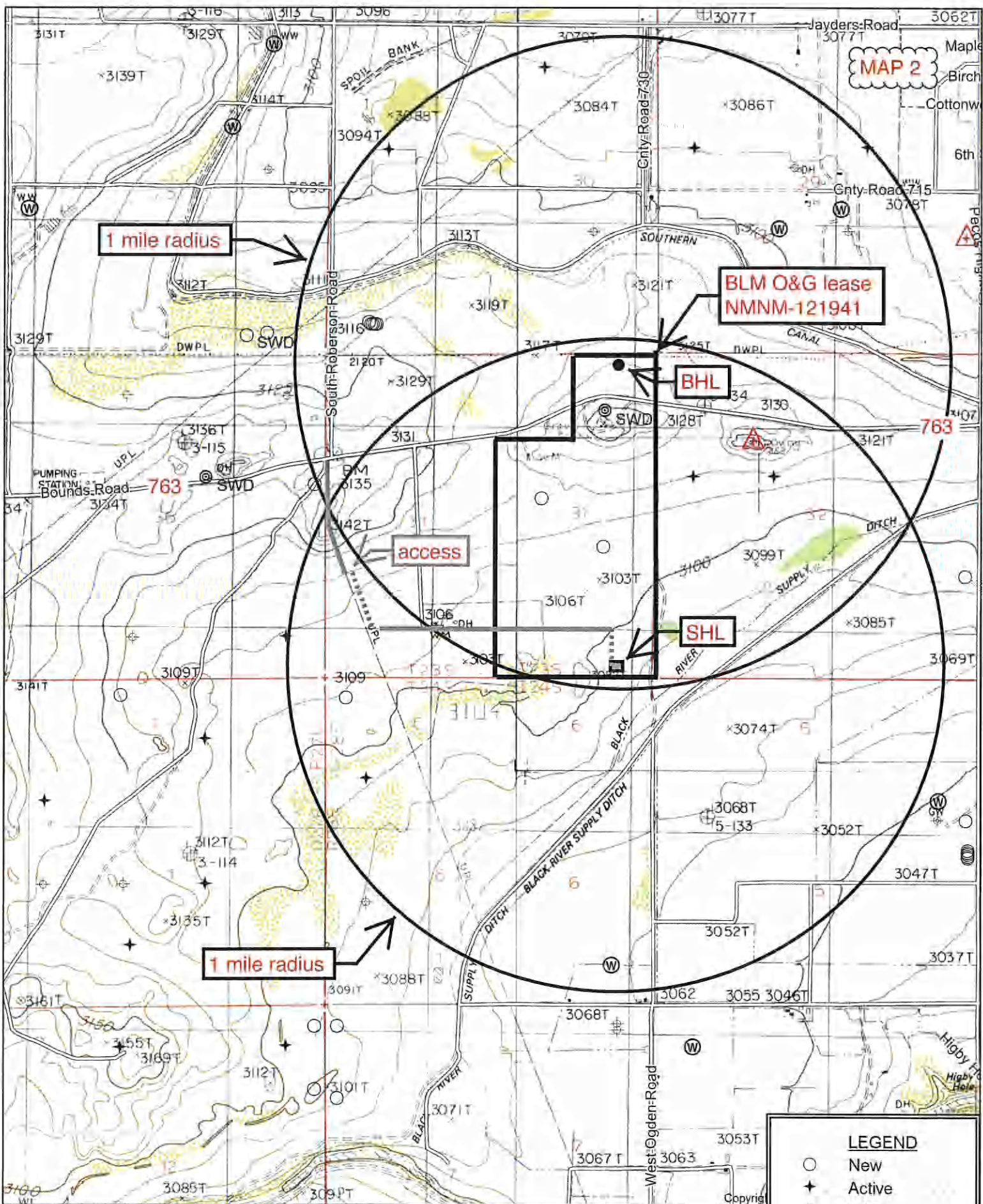
Charlie Sweeney Fed 31-23s-28e 124H

763

Armed Pit

Map created with ©2010 National Geographic, ©2005 Tele Atlas, Rel 8/2005





MAP 2

1 mile radius

BLM O&G lease
NMMN-121941

BHL

access

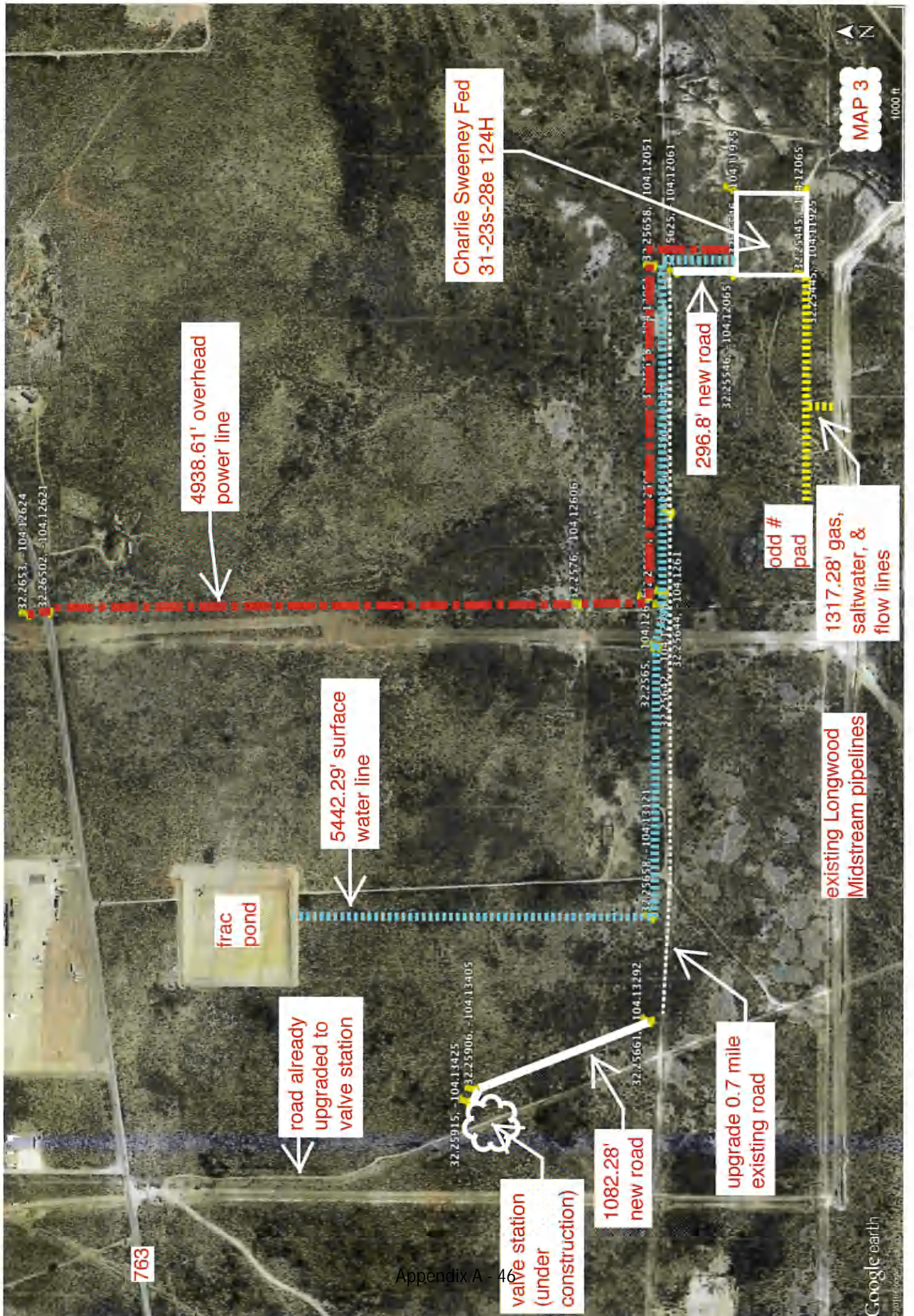
SHL

1 mile radius

LEGEND	
○	New
+	Active
⊕	P&A
⊙	INJ
⊗	SWD
⊖	Water



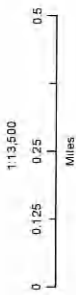
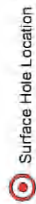
Quad: OTIS
Scale: 1 inch = 2,000 ft.



Matador Production Company

CHARLIE SWEENEY FED COM
 31-23S-28E #124H
 H2S Contingency Plan:
 1 Mile Radius Map

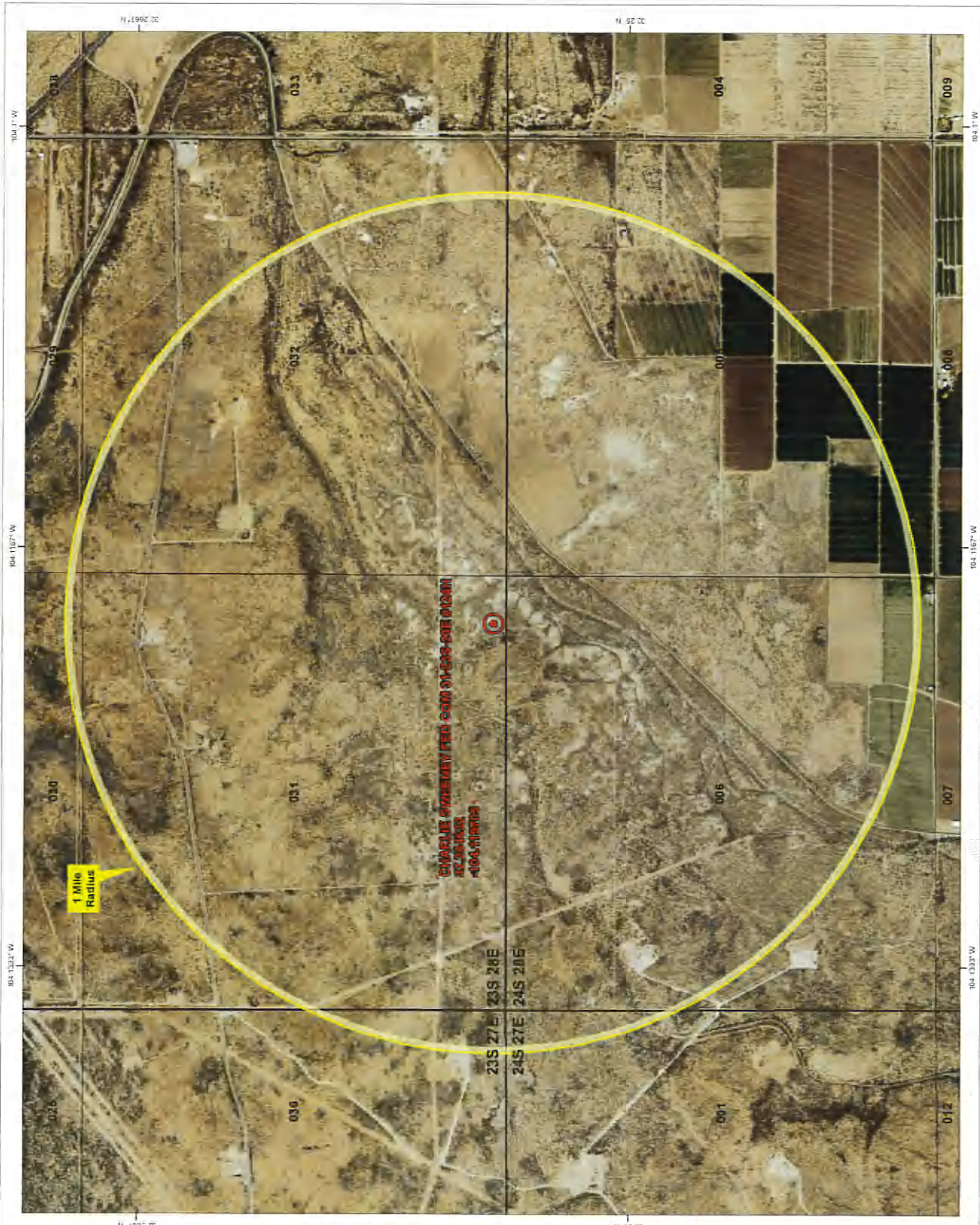
Section 31, Township 23S, Range 28E
 Eddy County, New Mexico



NAD 1987 New Mexico State Plane East
 FPS 3001 Feet



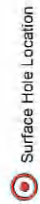
Prepared by Permits West, Inc., June 22, 2016
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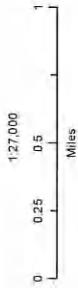
Matador Production Company

CHARLIE SWEENEY FED COM
 31-23S-28E #124H
 H&S Contingency Plan:
 2 Mile Radius Map

Section 31, Township 23S, Range 28E
 Eddy County, New Mexico



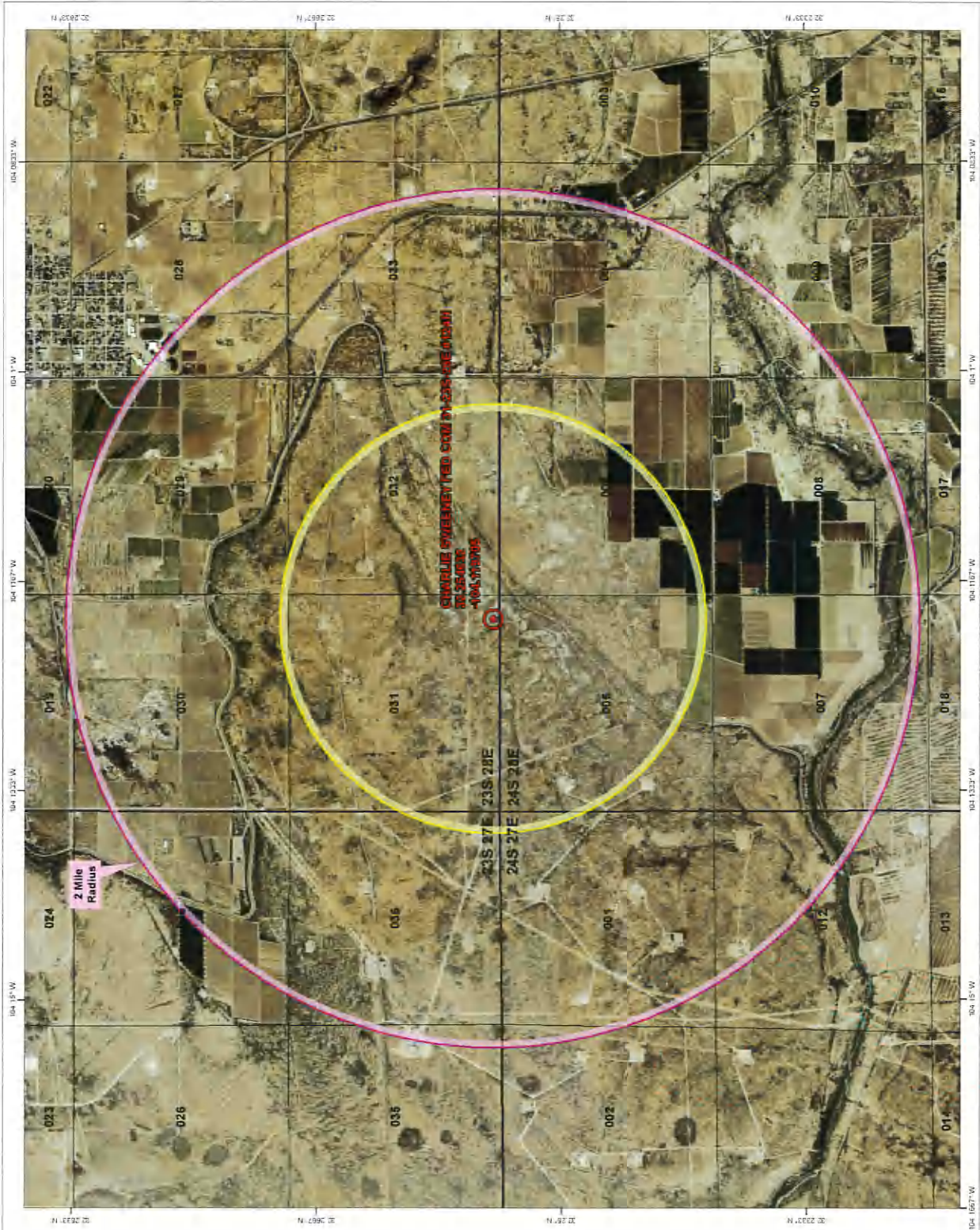
Surface Hole Location



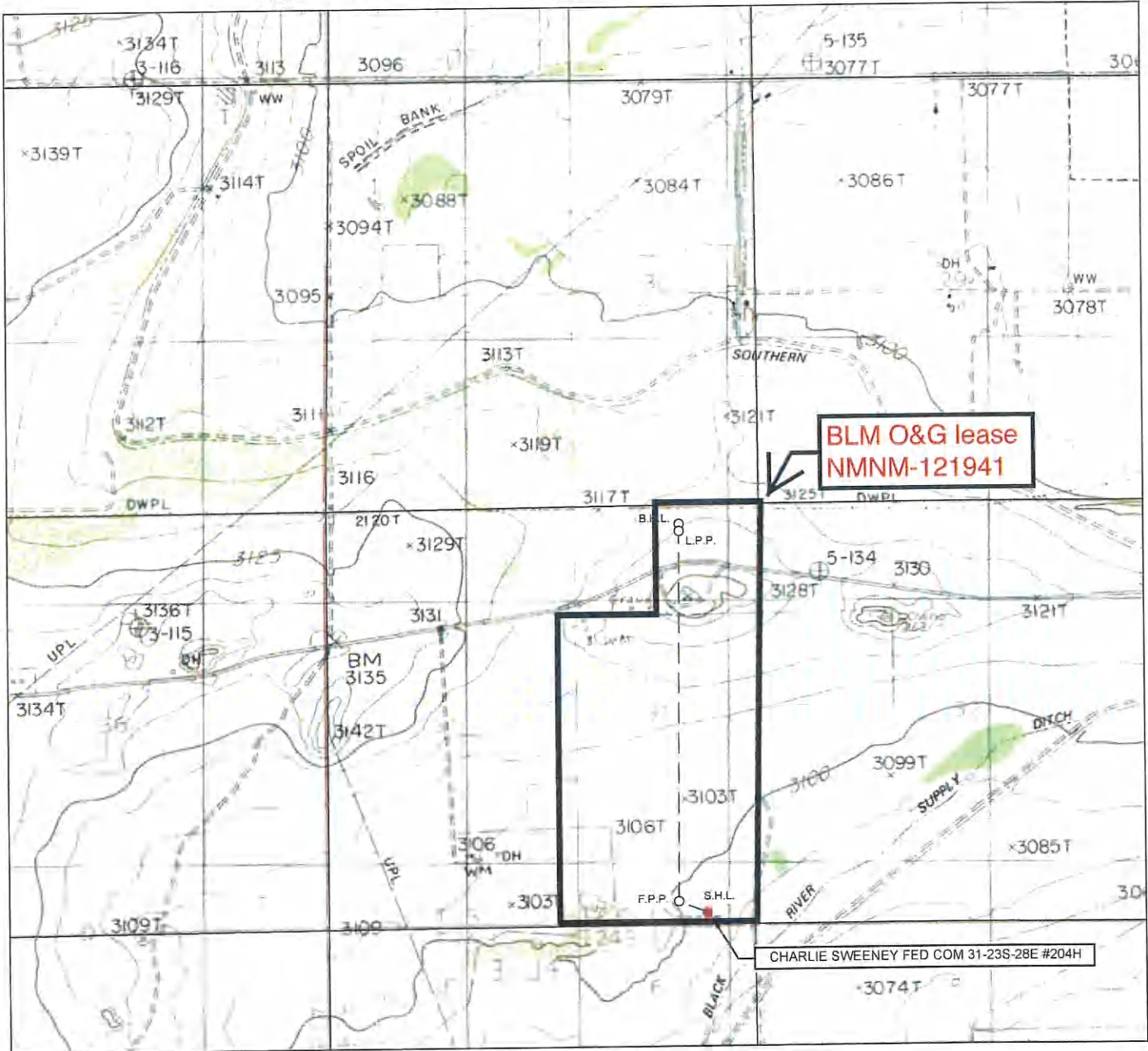
NAD 1927 New Mexico State Plane East
 FPS 3001 Feet



Prepared by Permits West, Inc., June 22, 2016
 for Matador Production Company



LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: CHARLIE SWEENEY FED COM 31-23S-28E #204H

SECTION 31 TWP 23-S RGE 28-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM ELEVATION 3101'
 DESCRIPTION 188' FSL & 635' FEL

LATITUDE N 32.2546323 LONGITUDE W 104.1198032



SCALE: 1" = 2000'
 0' 1000' 2000'



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MAP 2

1 mile radius

BLM O&G lease
NMNM-121941

BHL

access

SHL

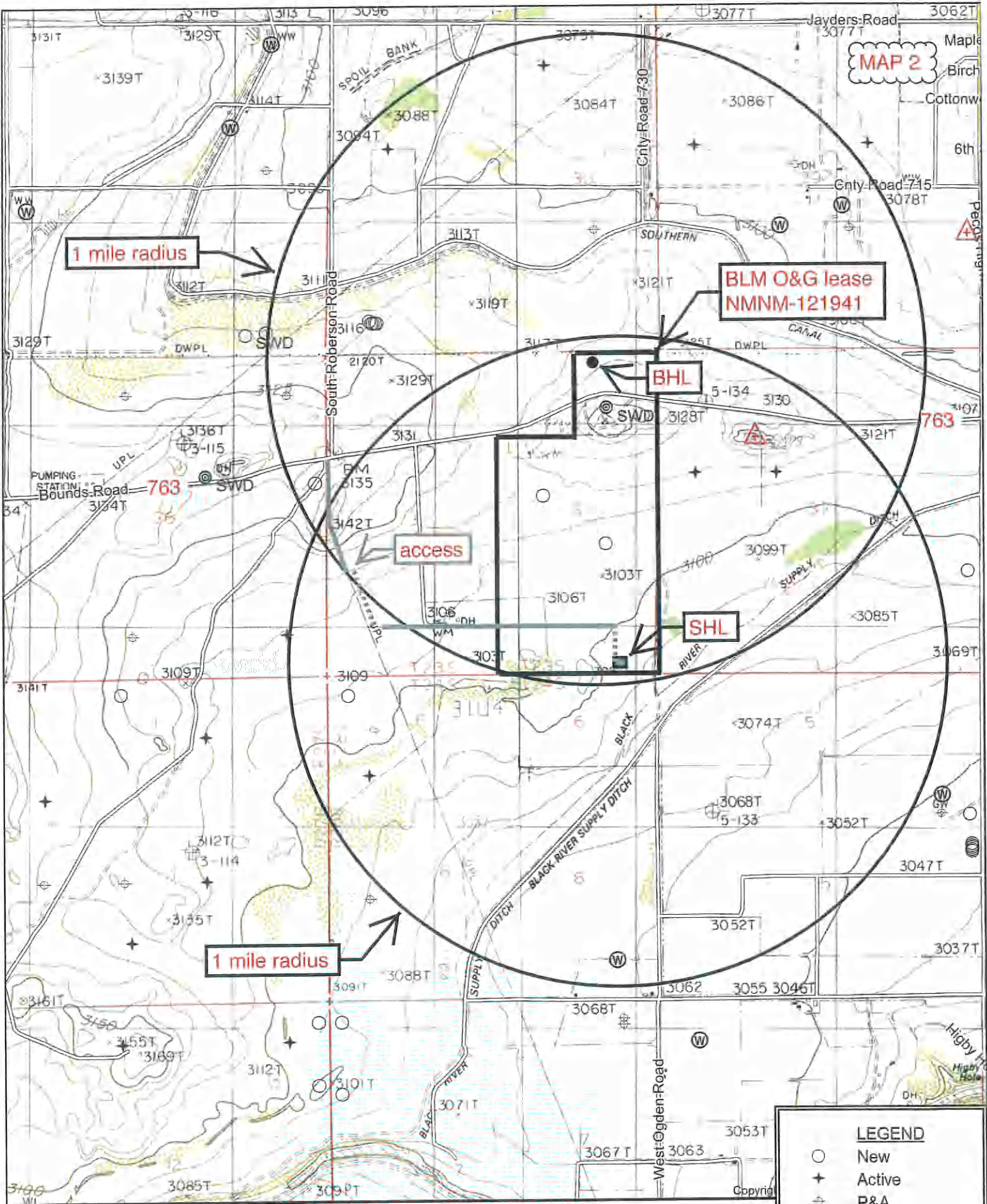
1 mile radius

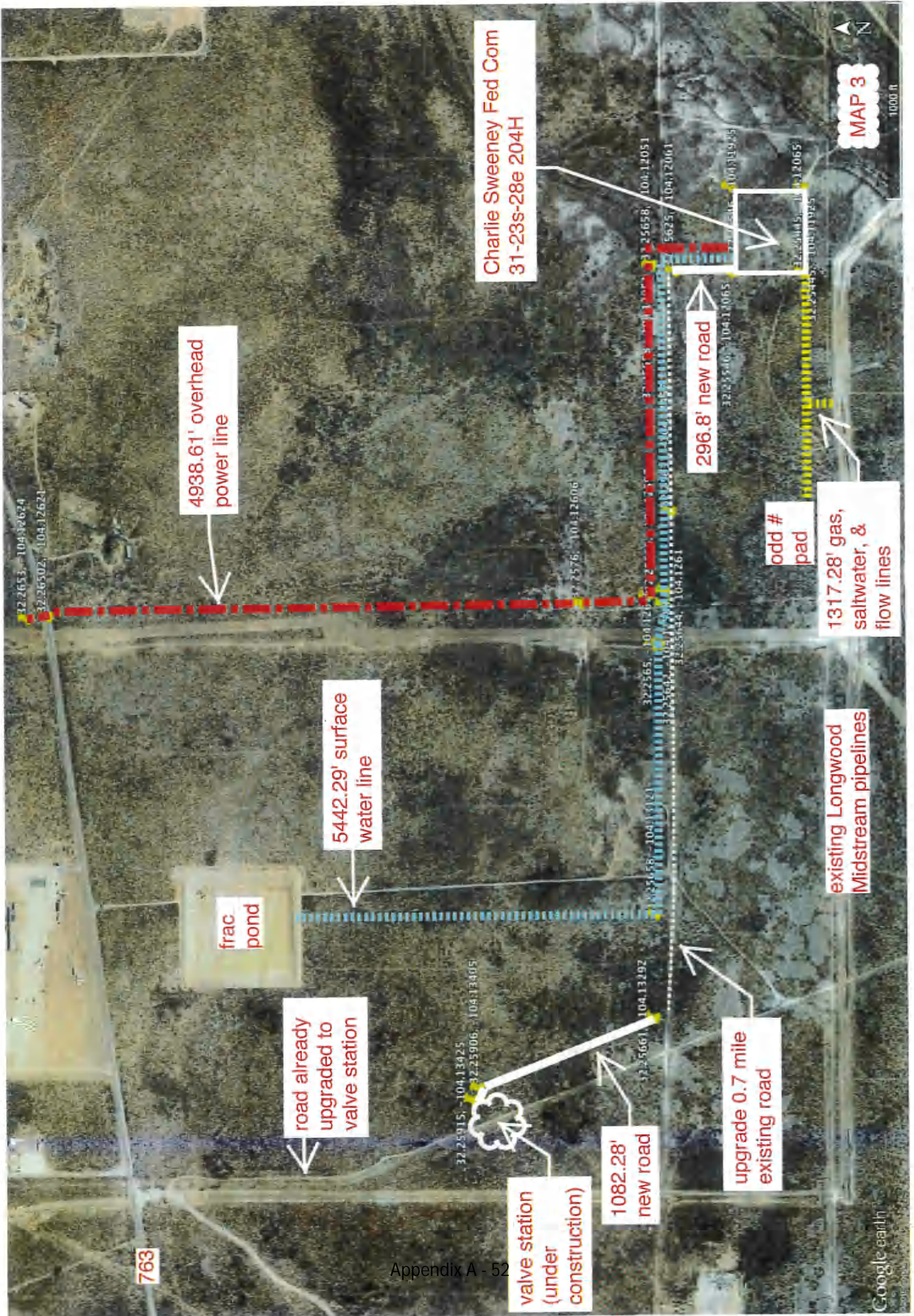
LEGEND

- New
- + Active
- ⊕ P&A
- ⊙ INJ
- ⊙ SWD
- ⊙ Water



Quad: OTIS
Scale: 1 inch = 2,000 ft.





4938.61' overhead power line

5442.29' surface water line

frac pond

road already upgraded to valve station

valve station (under construction)

1082.28' new road

upgrade 0.7 mile existing road

existing Longwood Midstream pipelines

1317.28' gas, saltwater, & flow lines

odd # pad

296.8' new road

Charlie Sweeney Fed Com 31-23s-28e 204H

763

MAP 3

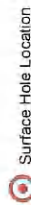
1000 ft

Google earth

Matador Production Company

CHARLIE SWEENEY FED COM
 31-23S-28E #204H
 H/S Contingency Plan:
 1 Mile Radius Map

Section 31, Township 23S, Range 28E
 Eddy County, New Mexico



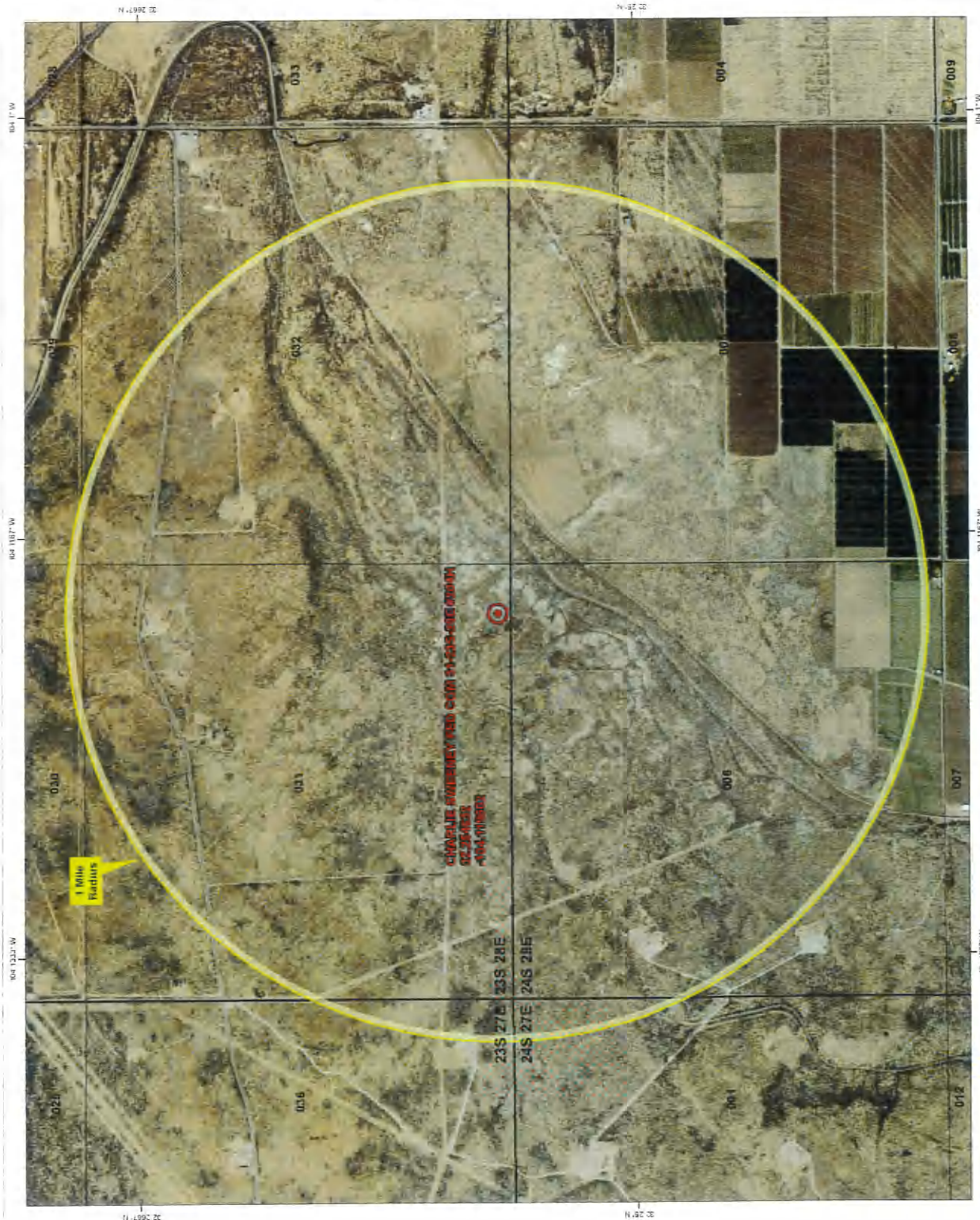
Surface Hole Location

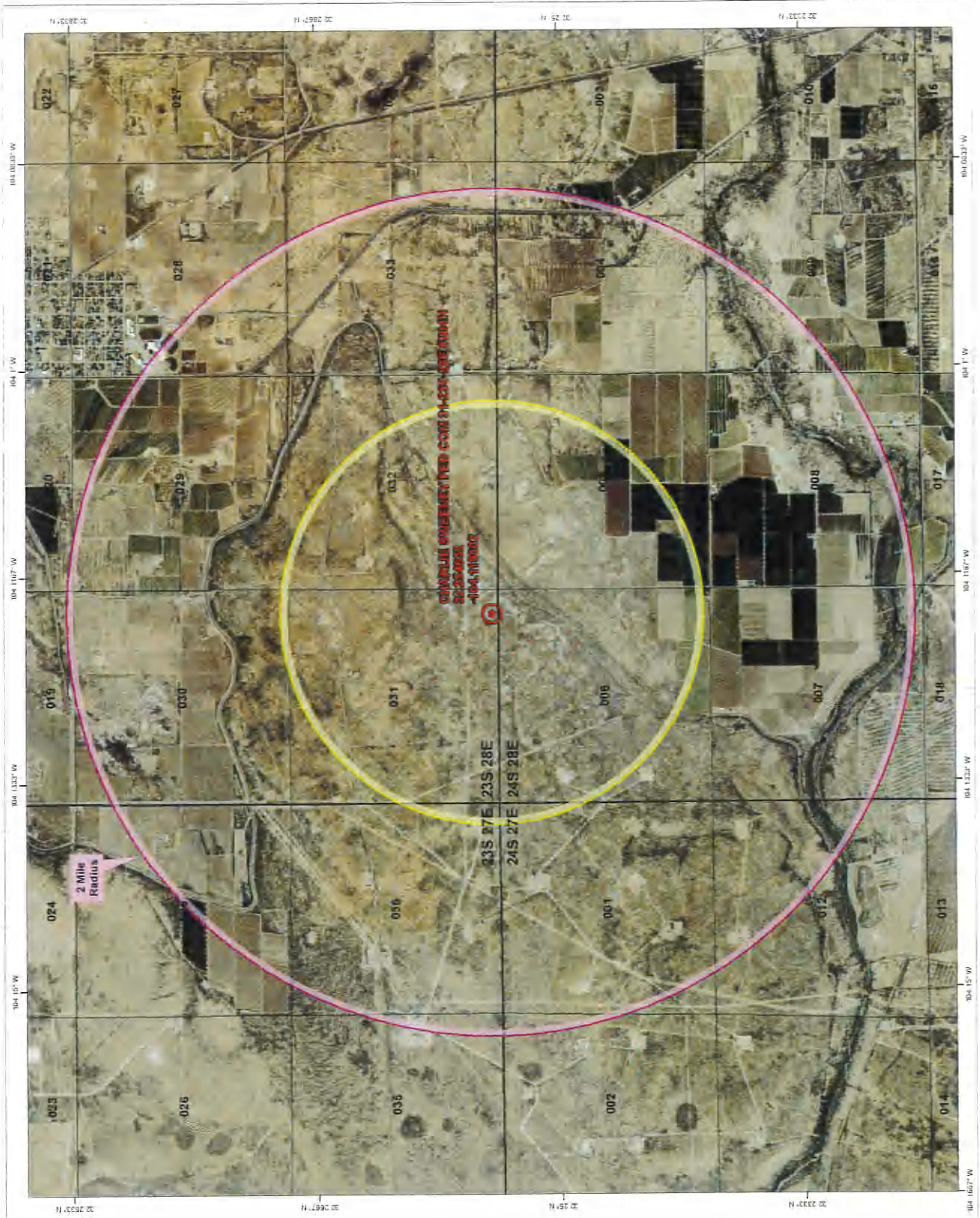


NAD 1927 New Mexico Slate Plane East
 FIPS 3001 Feet



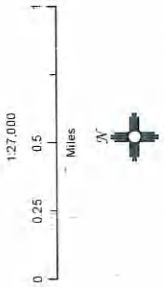
Prepared by Permits West, Inc., June 22, 2016
 for Matador Production Company





Matador Production Company
 CHARLIE SWEENEY FED COM
 31-23S-28E #204H
 H/S Contingency Plan:
 2 Mile Radius Map
 Section 31, Township 23S, Range 28E
 Eddy County, New Mexico

Surface Hole Location



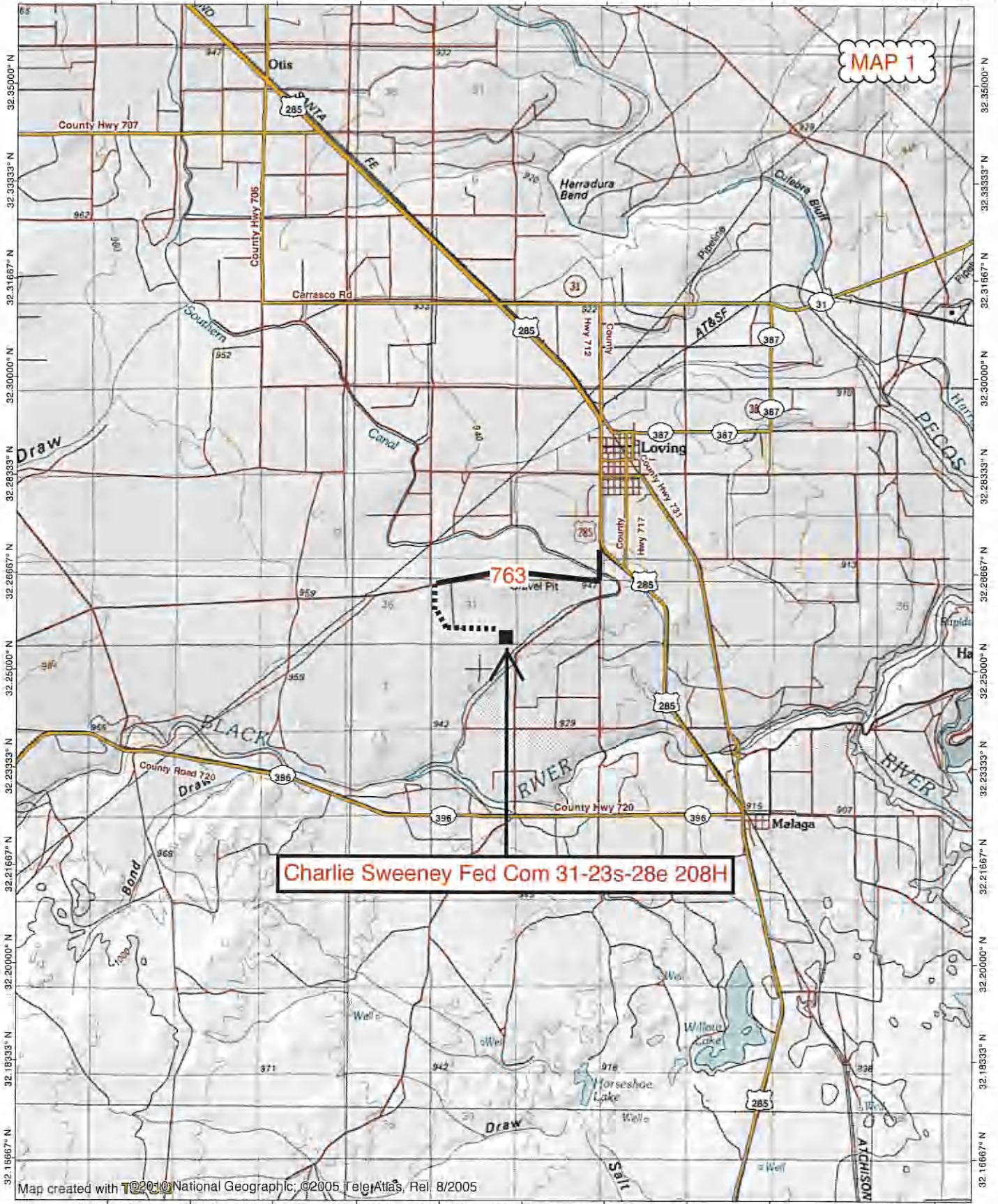
NAD 1927 New Mexico State Plane East
 FIPS 3001 Feet

PERMITS WEST
CONSULTING ENGINEERS, INC.

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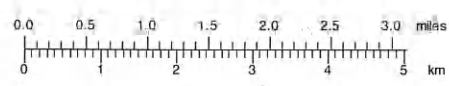


104.20000° W 104.18333° W 104.16667° W 104.15000° W 104.13333° W 104.11667° W 104.10000° W 104.08333° W 104.06667° W WGS84 104.03333° W

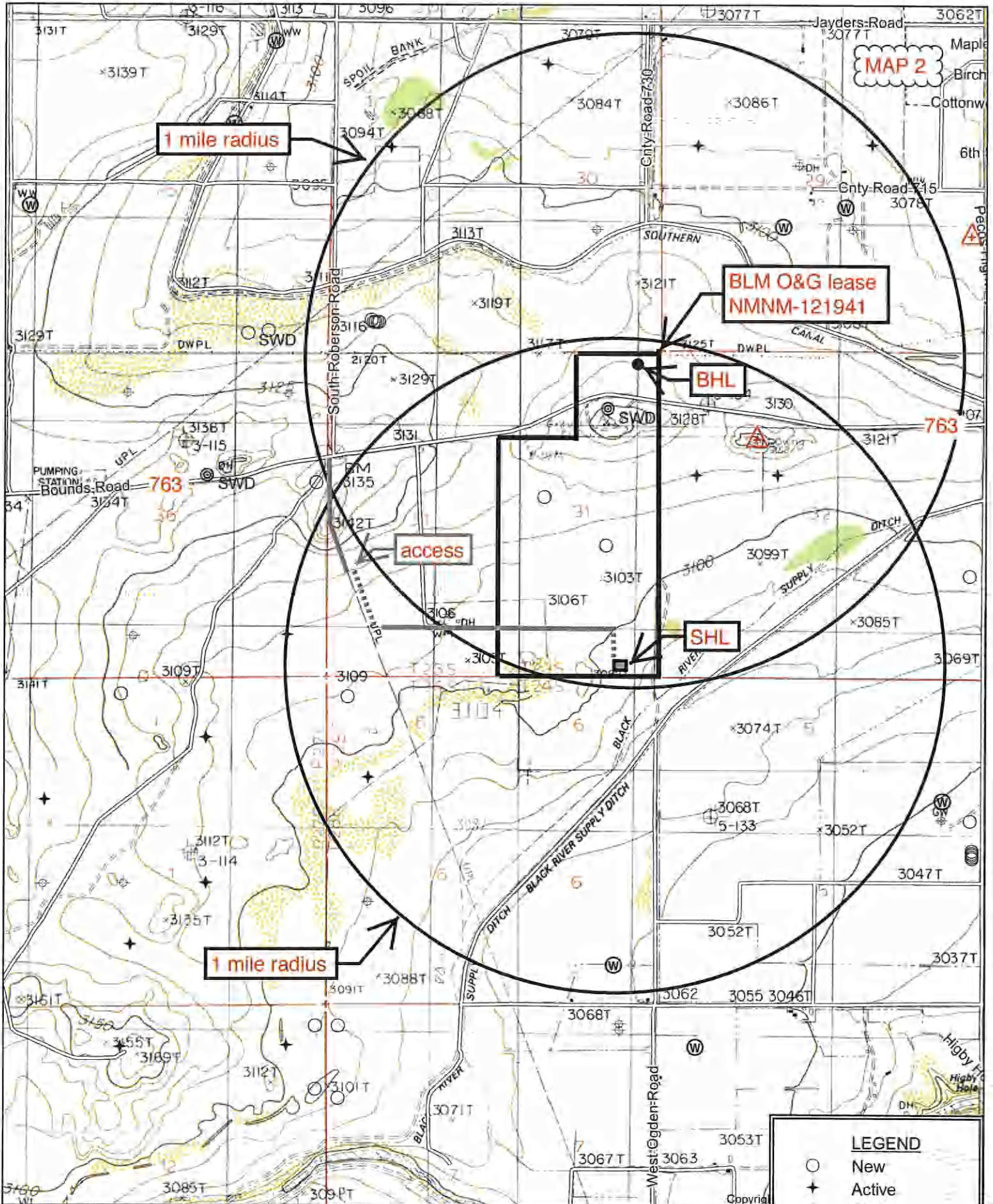


Charlie Sweeney Fed Com 31-23s-28e 208H

Map created with ©2010 National Geographic; ©2005 TeleAtlas, Rel. 8/2005



TN+MN
7.5'



Quad: OTIS
Scale: 1 inch = 2,000 ft.

Copyright



763

4938.61' overhead power line

5442.29' surface water line

frac pond

road already upgraded to valve station

valve station (under construction)

Charlie Sweeney Fed Com 31-23s-28e 208H

1082.28' new road

upgrade 0.7 mile existing road

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odd # pad

existing Longwood Midstream pipelines

1317.28' gas, saltwater, & flow lines

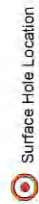
MAP 3

1000 ft

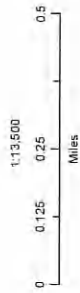
Matador Production Company

CHARLIE SWEENEY FED COM
 31-23S-28E #208H
 H/S Contingency Plan:
 1 Mile Radius Map

Section 31, Township 23S, Range 28E
 Eddy County, New Mexico



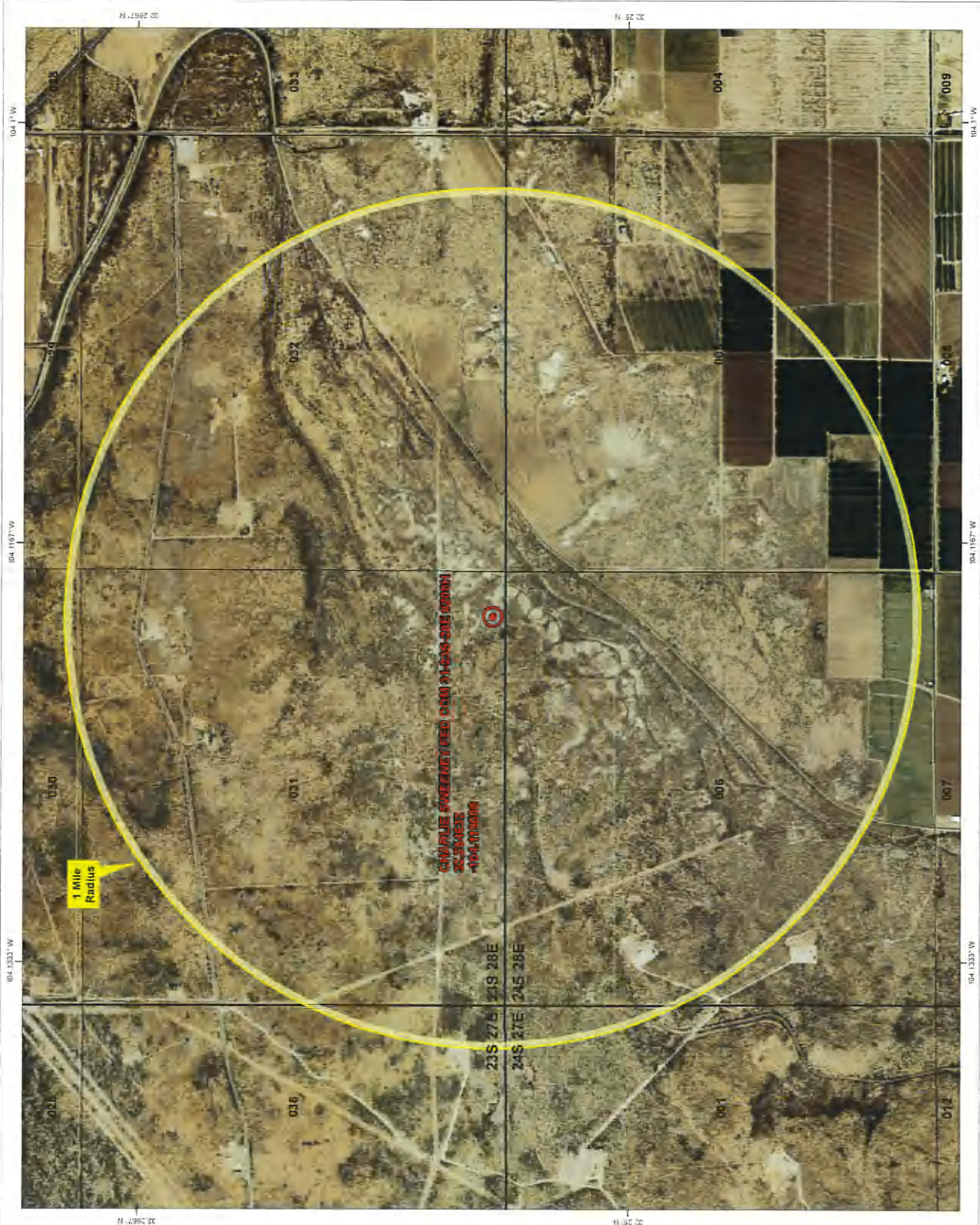
Surface Hole Location



NAD 1987 New Mexico State Plane East
 FIPS 3001 Feet



Prepared by Permits West, Inc., June 22, 2016
 for Matador Production Company

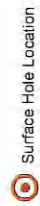


CHARLIE SWEENEY FED COM
 31-23S-28E #208H
 H/S Contingency Plan:
 1 Mile Radius Map

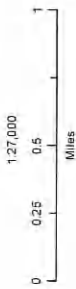
Matador Production Company

CHARLIE SWEENEY FED COM
 31-23S-28E #208H
 H&S Contingency Plan:
 2 Mile Radius Map

Section 31, Township 23S, Range 28E
 Eddy County, New Mexico



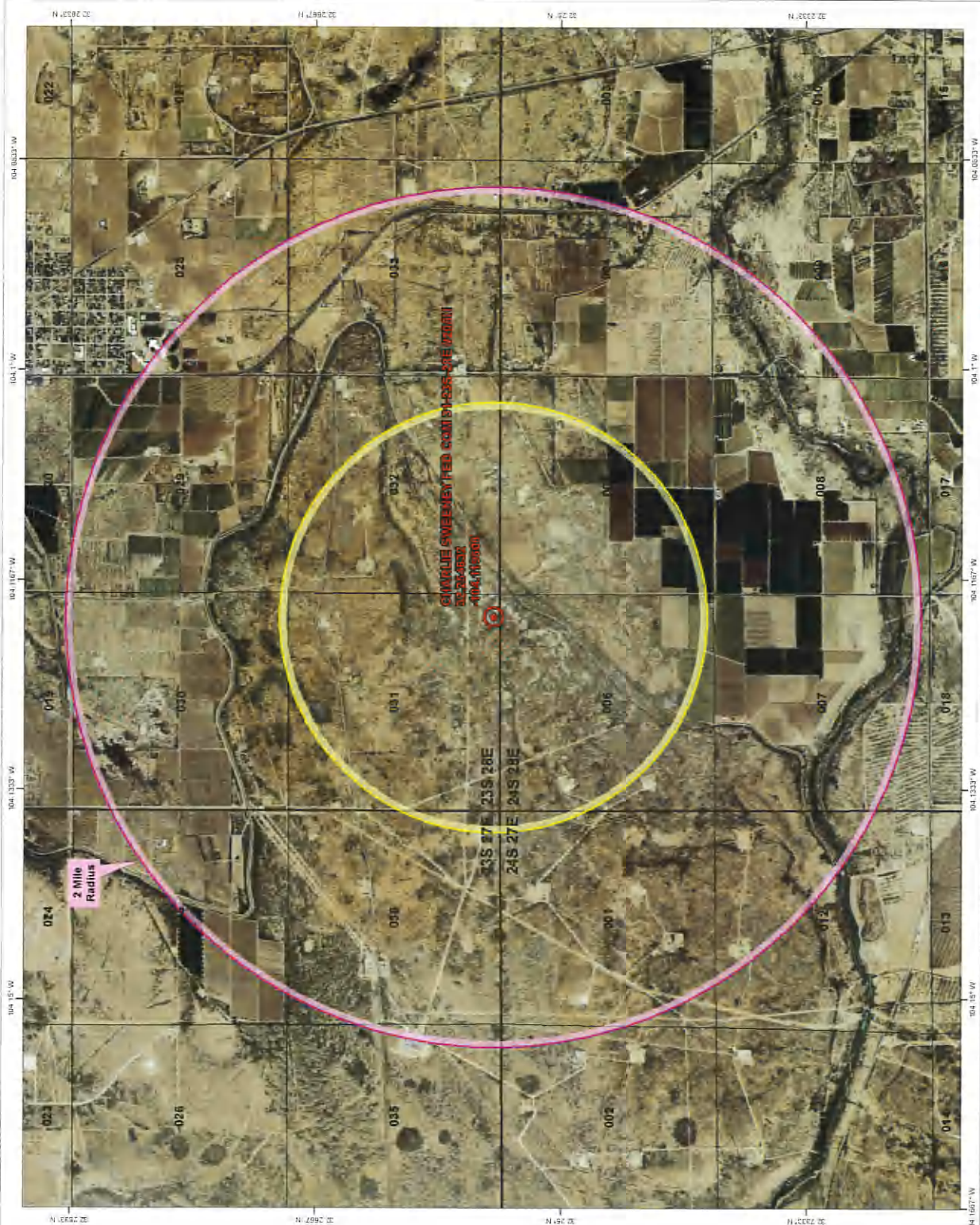
Surface Hole Location



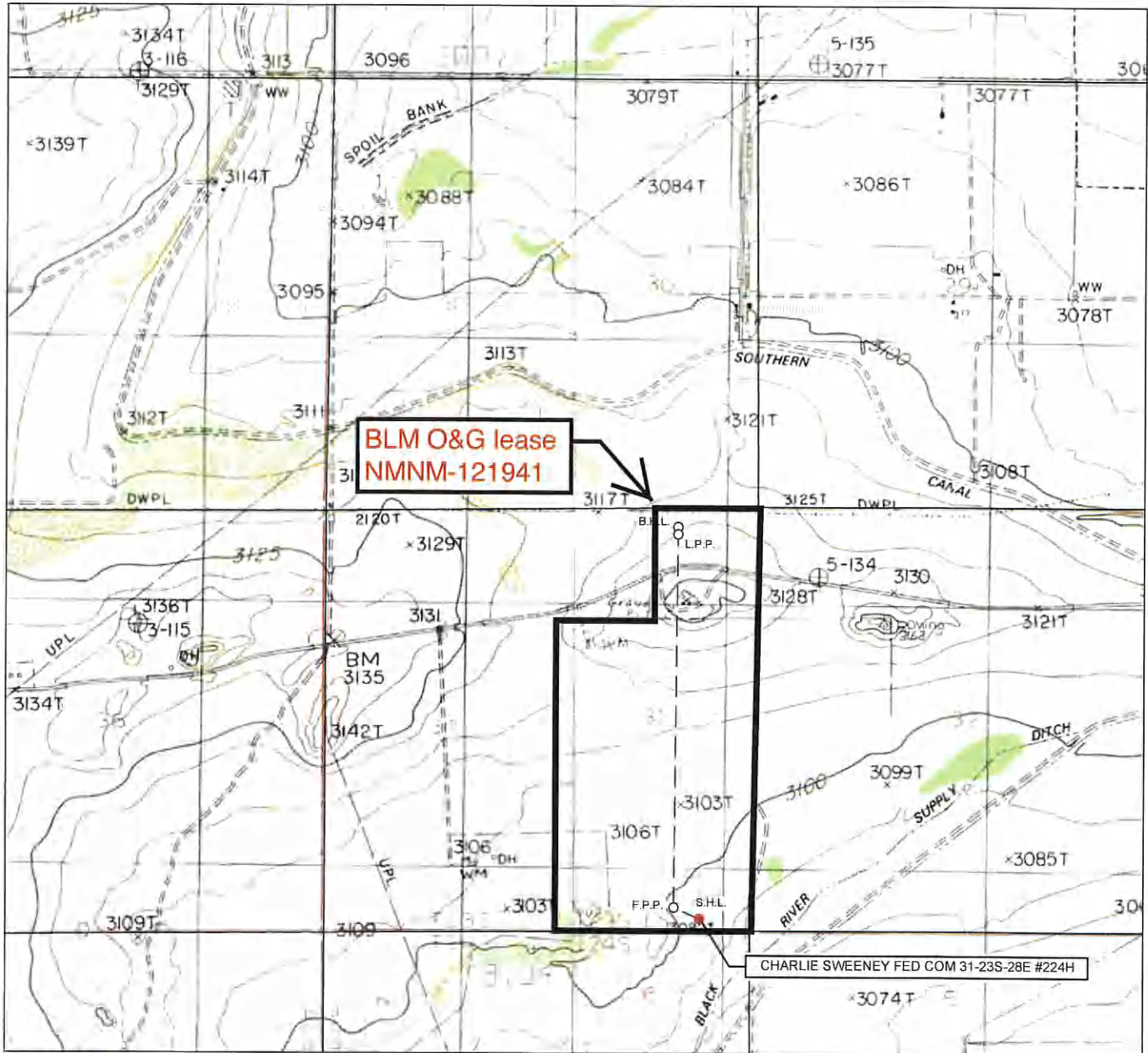
NAD 1927 New Mexico State Plane East
 FIPS 3001 Feet



Prepared by Permits West, Inc., June 22, 2016
 for Matador Production Company



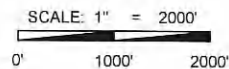
LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: CHARLIE SWEENEY FED COM 31-23S-28E #224H

SECTION 31 TWP 23-S RGE 28-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM ELEVATION 3101'
 DESCRIPTION 189' FSL & 665' FEL

LATITUDE N 32.2546326 LONGITUDE W 104.1199004



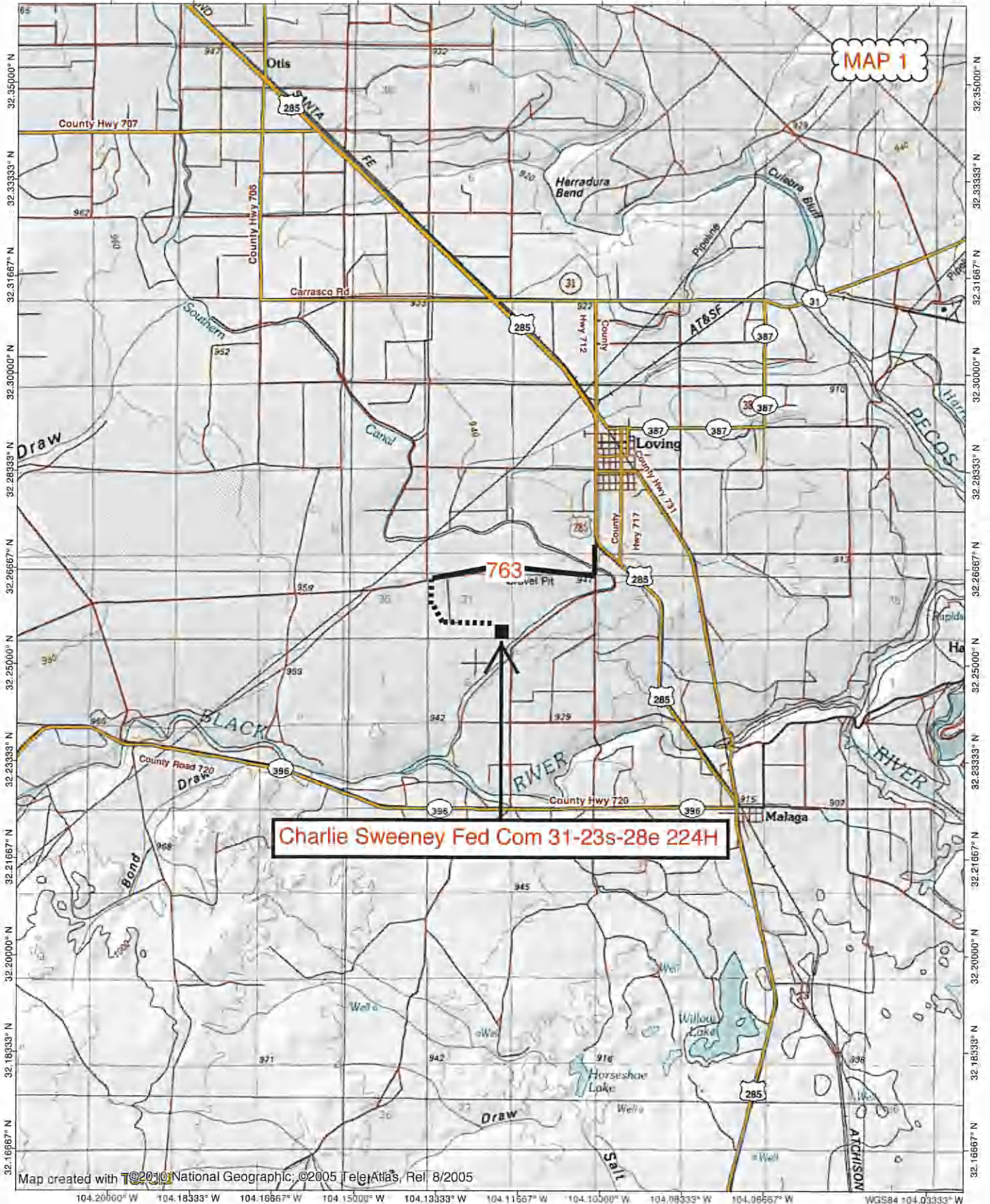
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 WWW.TOPOGRAPHIC.COM

104.20000° W 104.18333° W 104.16667° W 104.15000° W 104.13333° W 104.11667° W 104.10000° W 104.08333° W 104.06667° W WGS84 104.03333° W

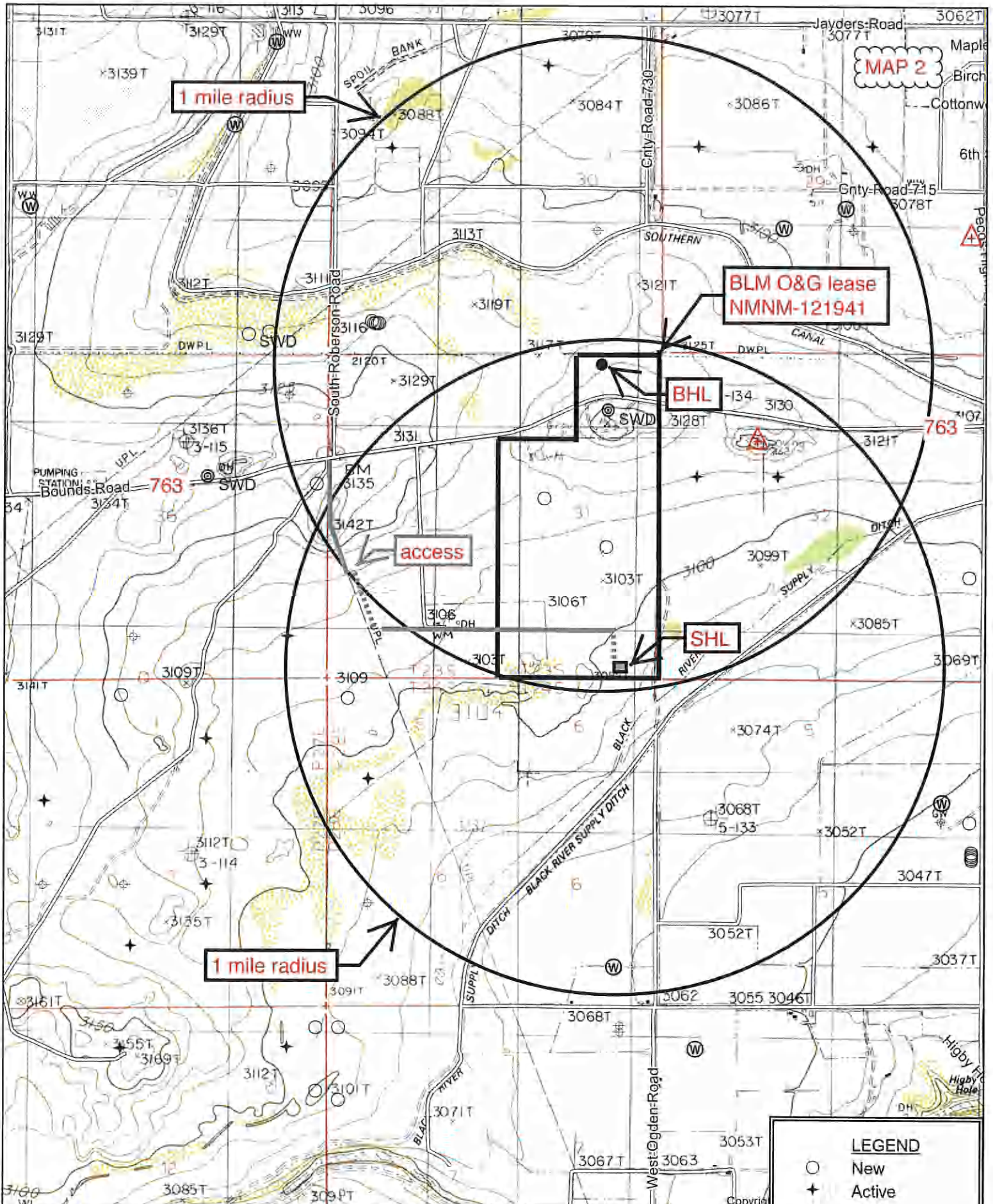


MAP 1

Charlie Sweeney Fed Com 31-23s-28e 224H

Map created with ©2010 National Geographic, ©2005 TeleAtlas, Rel 8/2005





MAP 2

1 mile radius

BLM O&G lease
NMNM-121941

BHL

access

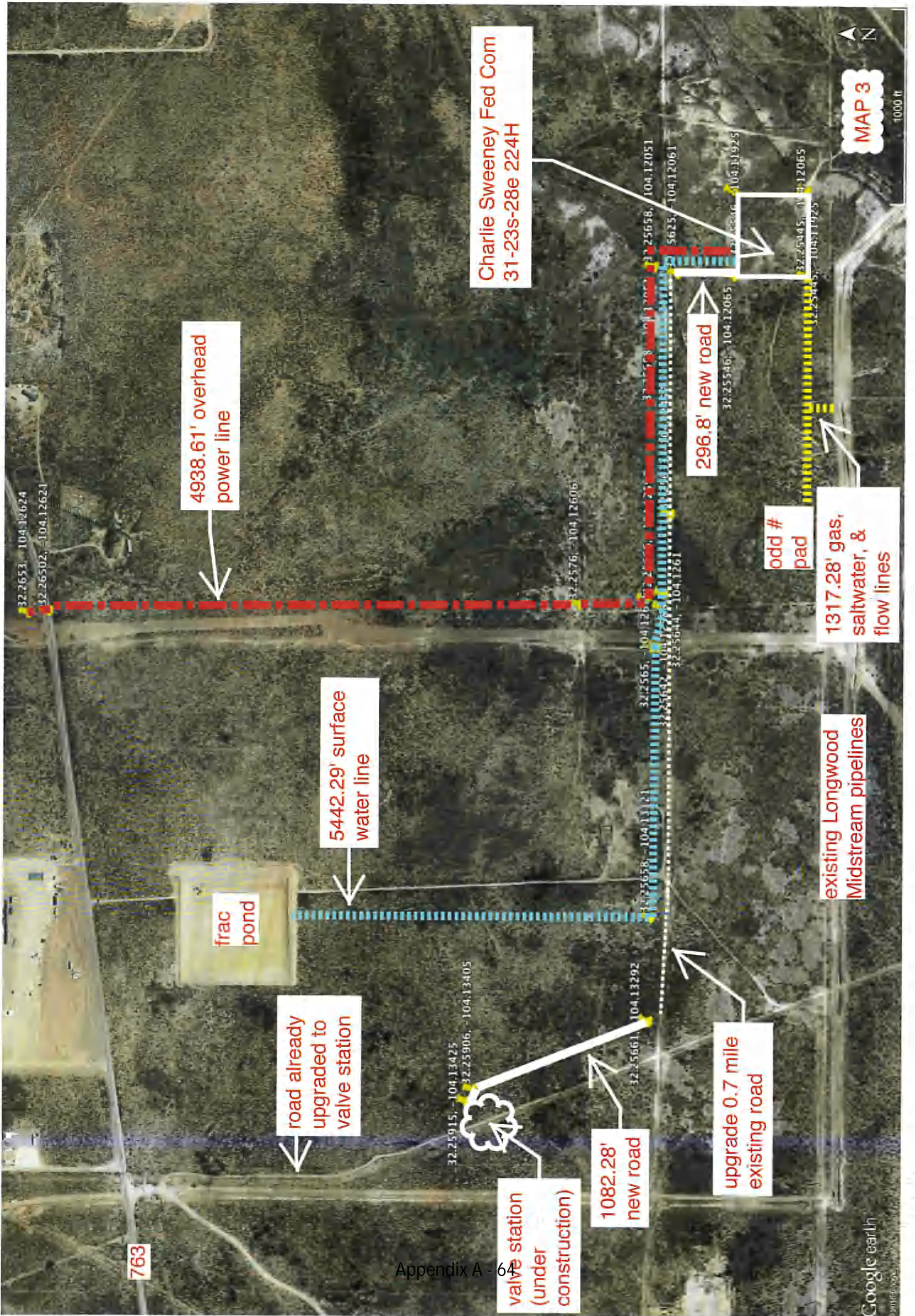
SHL

1 mile radius

LEGEND	
○	New
+	Active
⊕	P&A
⊙	INJ
⊗	SWD
⊕	Water



Quad: OTIS
Scale: 1 inch = 2,000 ft.



4938.61' overhead power line

5442.29' surface water line

frac pond

road already upgraded to valve station

valve station (under construction)

1082.28' new road

upgrade 0.7 mile existing road

Charlie Sweeney Fed Com 31-23s-28e 224H

296.8' new road

odd # pad

1317.28' gas, saltwater, & flow lines

existing Longwood Midstream pipelines

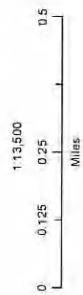
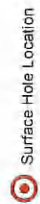
MAP 3

1000 ft

Google earth

Matador Production Company

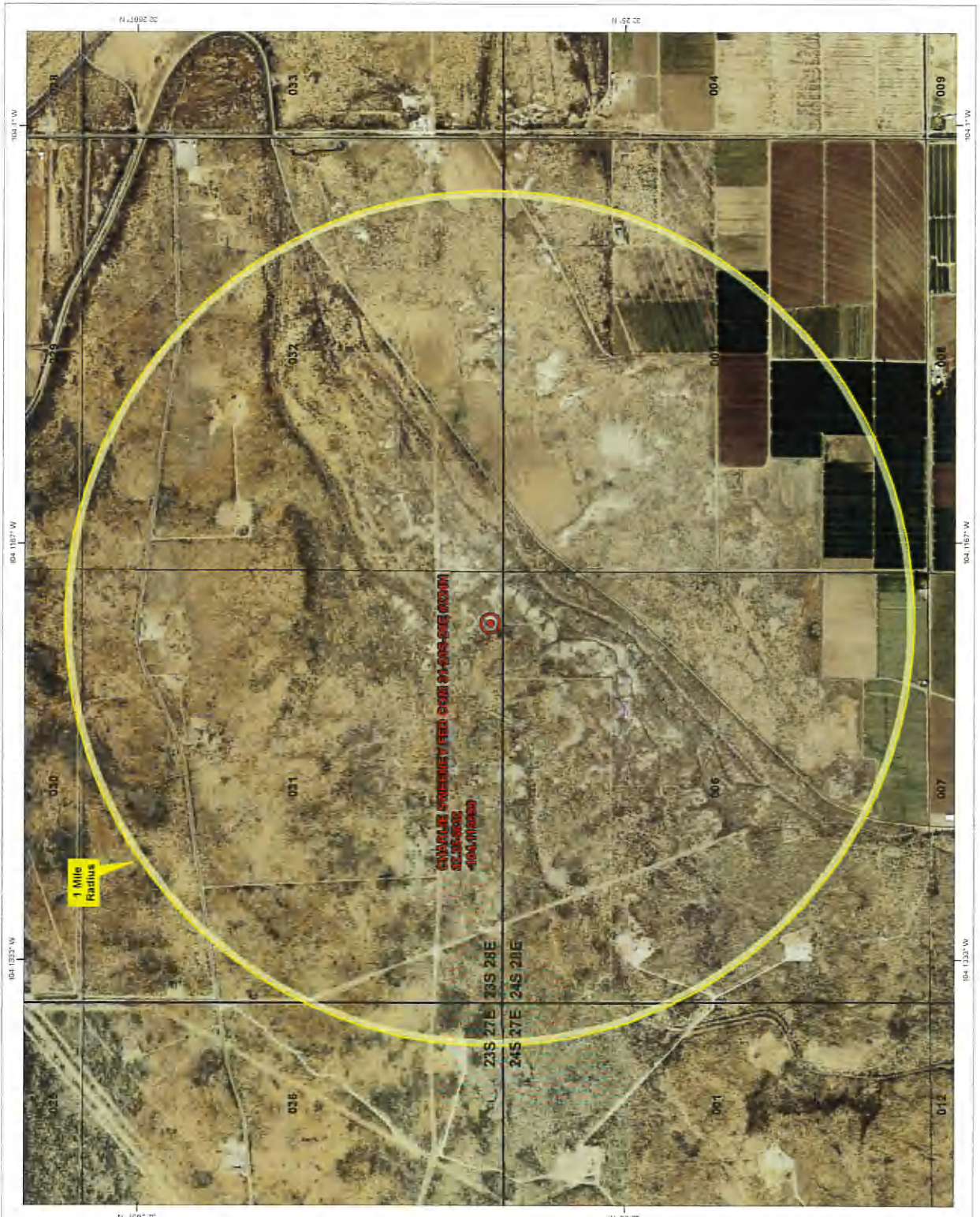
CHARLIE SWEENEY FED COM
 31-23S-28E #224H
 H2S Contingency Plan:
 1 Mile Radius Map
 Section 31, Township 23S, Range 28E
 Eddy County, New Mexico



NAD 1927 New Mexico State Plane East
 FIPS 3001 Feet



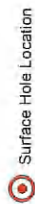
Prepared by Perry West, Inc. - June 22, 2015
 for Matador Production Company



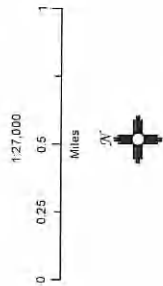
Matador Production Company

CHARLIE SWEENEY FED COM
31-23S-28E #224H
H2S Contingency Plan:
2 Mile Radius Map

Section 31, Township 23S, Range 28E
Eddy County, New Mexico



Surface Hole Location



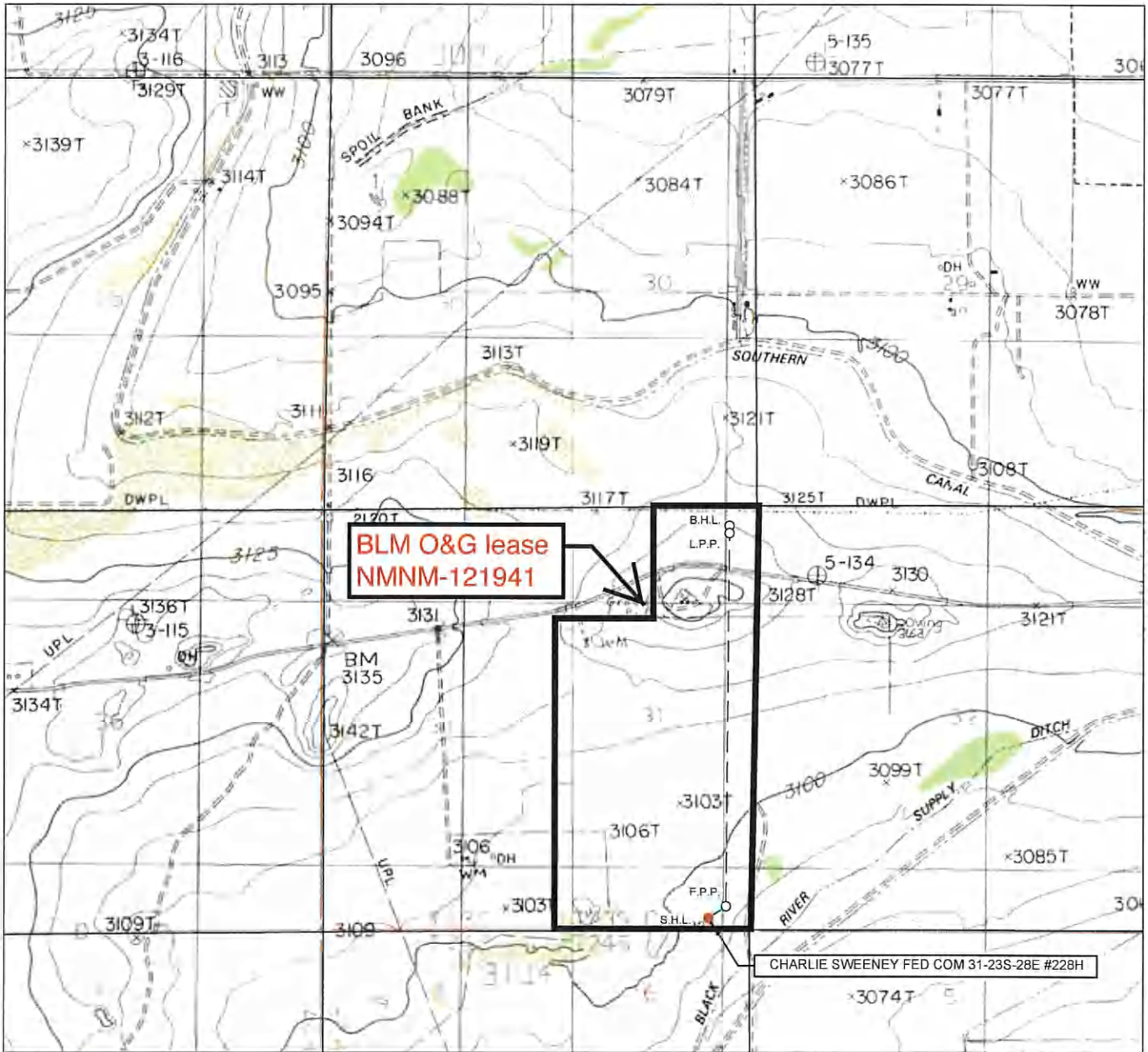
NAD 1927 New Mexico State Plane East
FPS 3001 Feet



Prepared by Permian West, Inc., June 22, 2016
for Matador Production Company



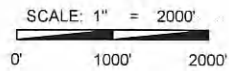
LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: CHARLIE SWEENEY FED COM 31-23S-28E #228H

SECTION 31 TWP 23-S RGE 28-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM ELEVATION 3100'
 DESCRIPTION 188' FSL & 545' FEL

LATITUDE N 32.2546319 LONGITUDE W 104.1195123



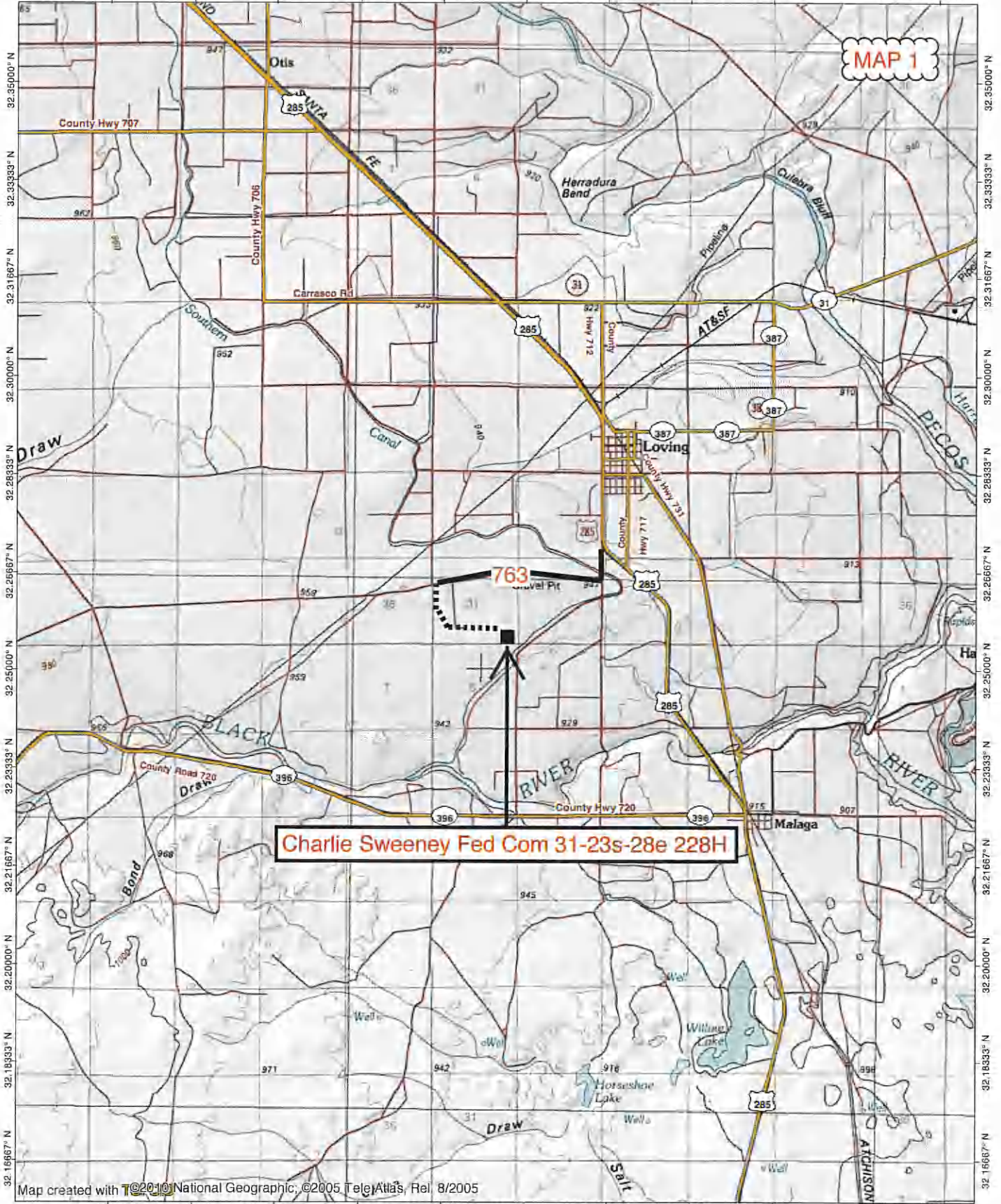
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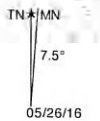
104.20000° W 104.18333° W 104.16667° W 104.15000° W 104.13333° W 104.11667° W 104.10000° W 104.08333° W 104.06667° W WGS84 104.03333° W

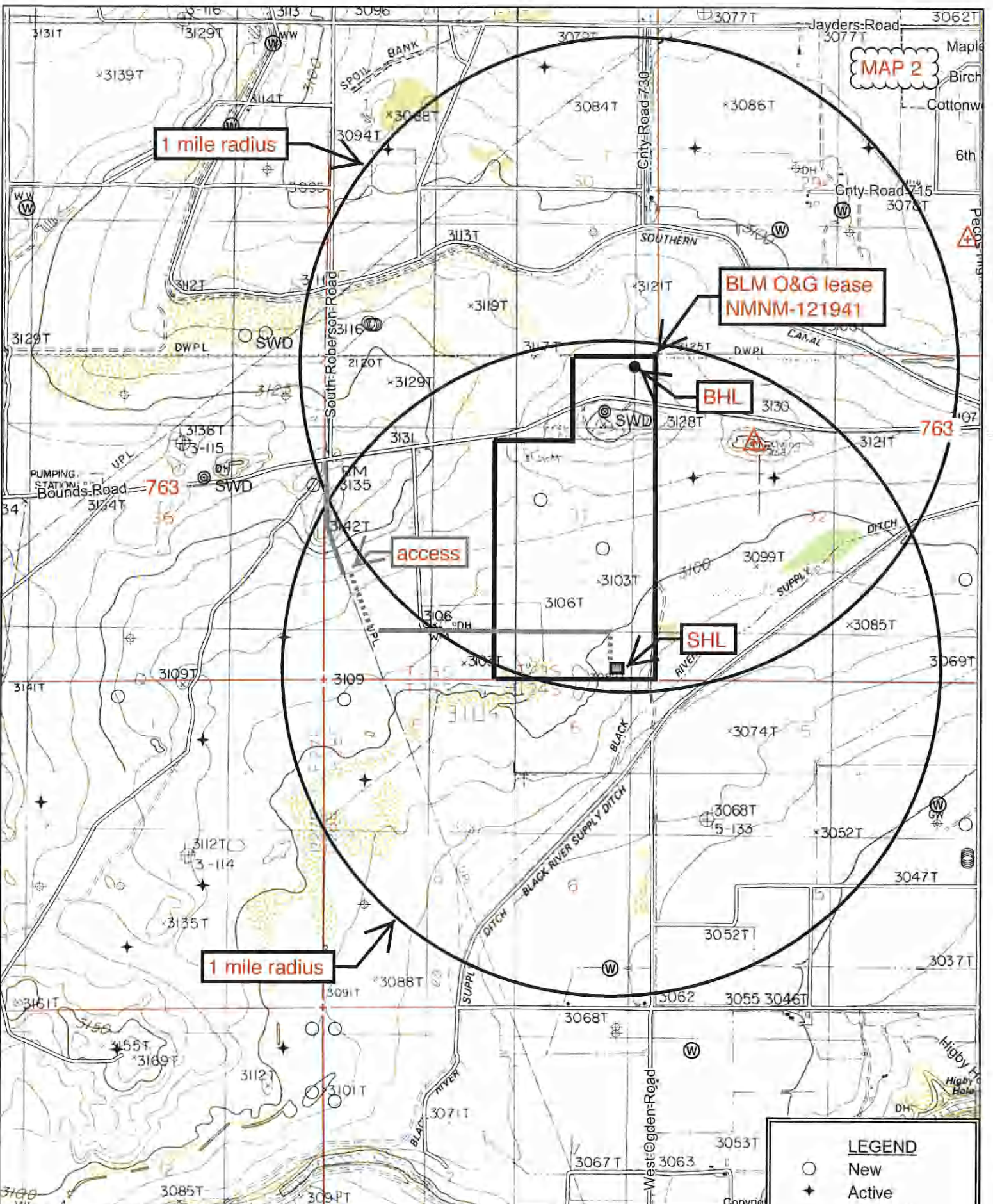


MAP 1

Charlie Sweeney Fed Com 31-23s-28e 228H

Map created with National Geographic, ©2005 TeleAtlas, Rel. 8/2005





MAP 2

1 mile radius

BLM O&G lease
NMNM-121941

BHL

access

SHL

1 mile radius

LEGEND	
○	New
★	Active
⊕	P&A
⊙	INJ
⊗	SWD
⊕	Water



Quad: OTIS
Scale: 1 inch = 2,000 ft.



763

Charlie Sweeney Fed Com
31-23s-28e 228H

4938.61' overhead
power line

5442.29' surface
water line

road already
upgraded to
valve station

valve station
(under
construction)

1082.28'
new road

upgrade 0.7 mile
existing road

296.8' new road

odd #
pad

1317.28' gas,
saltwater, &
flow lines

existing Longwood
Midstream pipelines

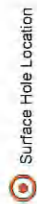
MAP 3

1000 ft

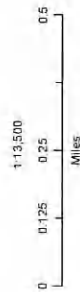
Matador Production Company

CHARLIE SWEENEY FED COM
31-23S-28E #228H
H2S Contingency Plan:
1 Mile Radius Map

Section 31, Township 23S, Range 28E
Eddy County, New Mexico



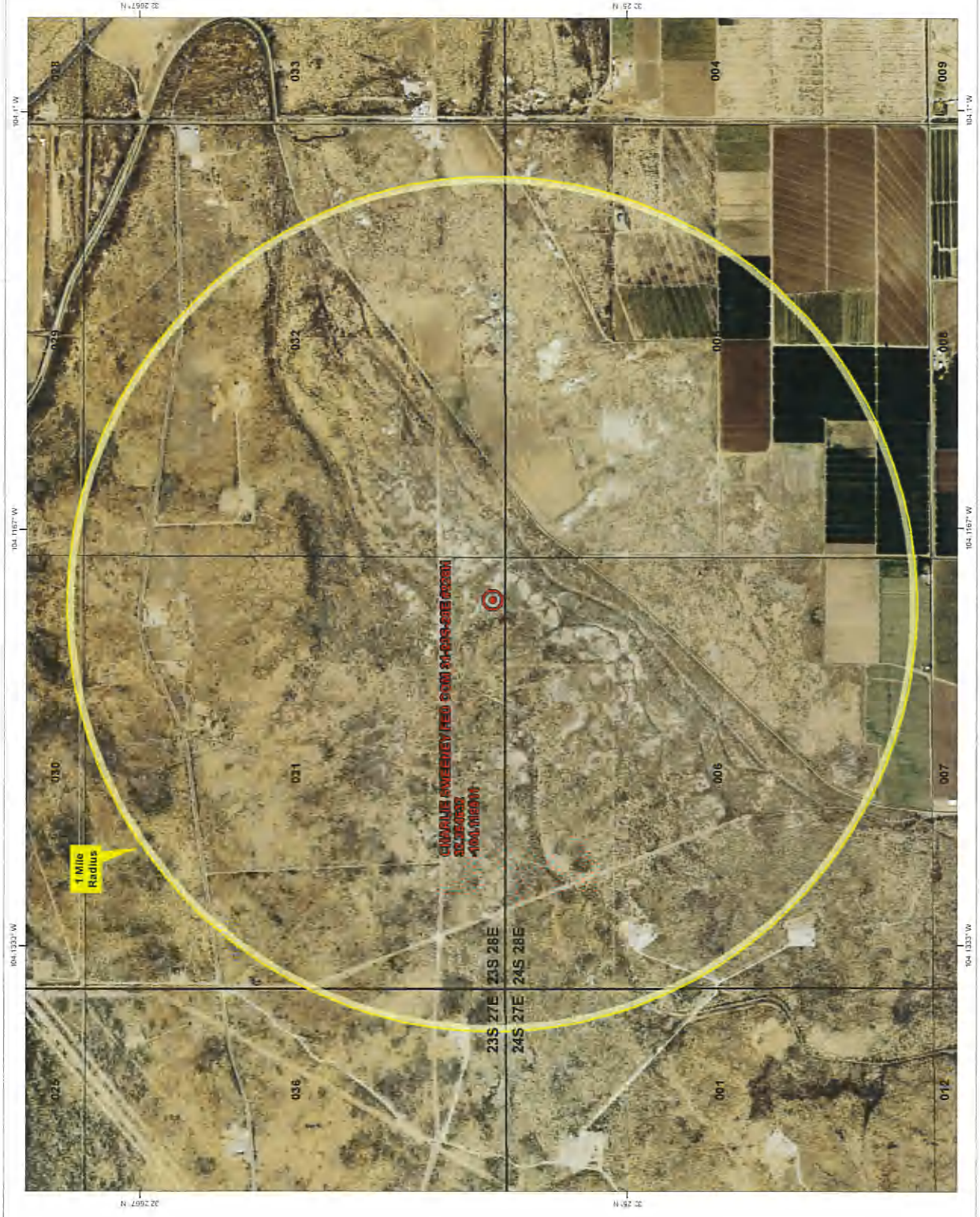
Surface Hole Location



NAD 1927 New Mexico State Plane East
FIPS 3001 Feet



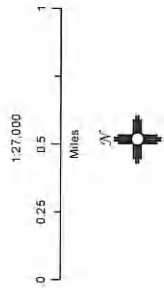
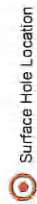
Prepared by Permits West, Inc., June 22, 2016
for Matador Production Company



Matador Production Company

CHARLIE SWEENEY FED COM
 31-23S-28E #228H
 H2S Contingency Plan:
 2 Mile Radius Map

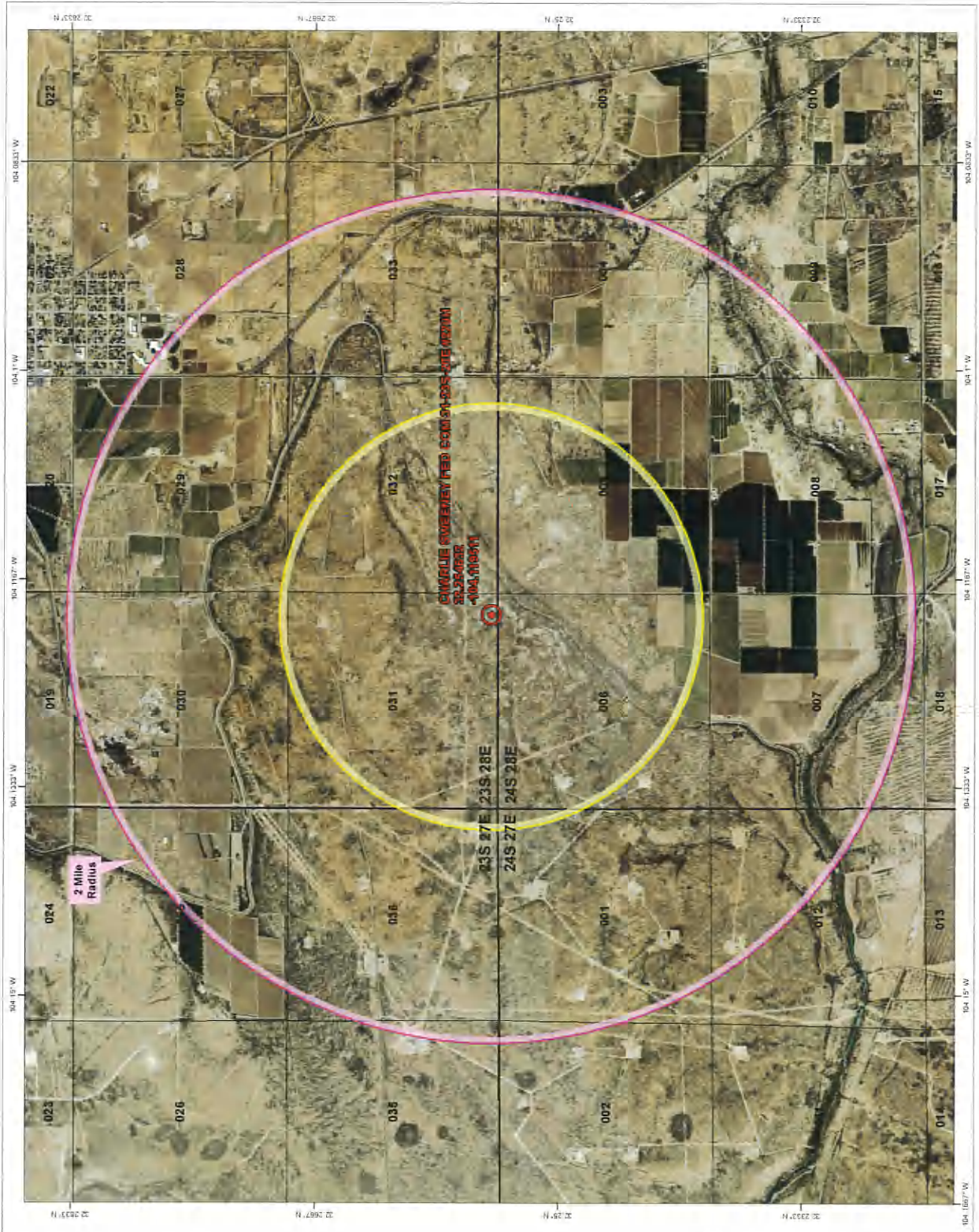
Section 31, Township 23S, Range 28E
 Eddy County, New Mexico



NAD 1927 New Mexico State Plane East
 FIPS 3001 Feet

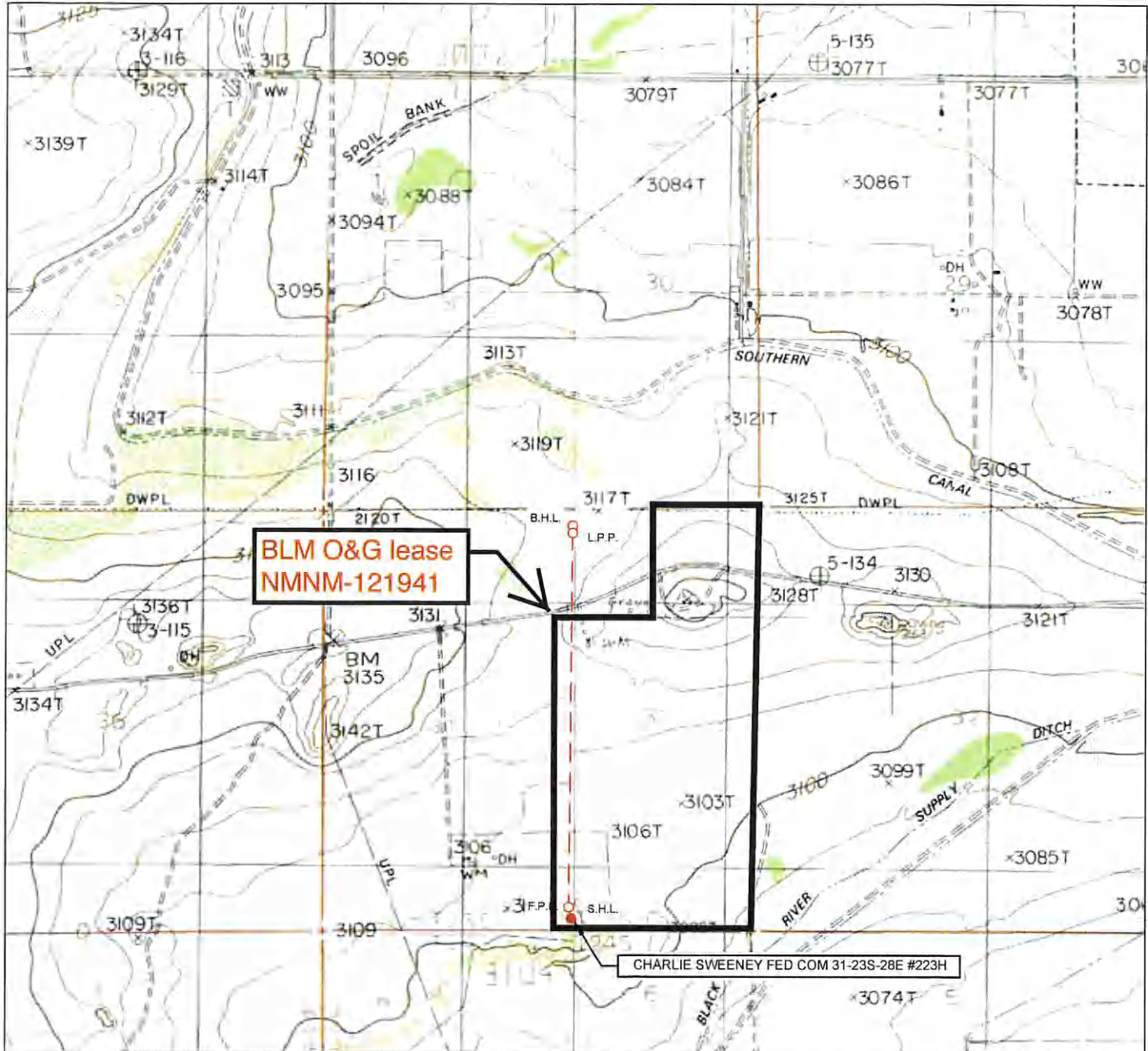


Prepared by Ferris West, Inc., June 22, 2016
 for Matador Production Company



Appendix B – Plats

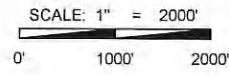
LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: CHARLIE SWEENEY FED COM 31-23S-28E #223H

SECTION 31 TWP 23-S RGE 28-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM ELEVATION 3107'
 DESCRIPTION 190' FSL & 2280' FEL

LATITUDE N 32.2546333 LONGITUDE W 104.1251244

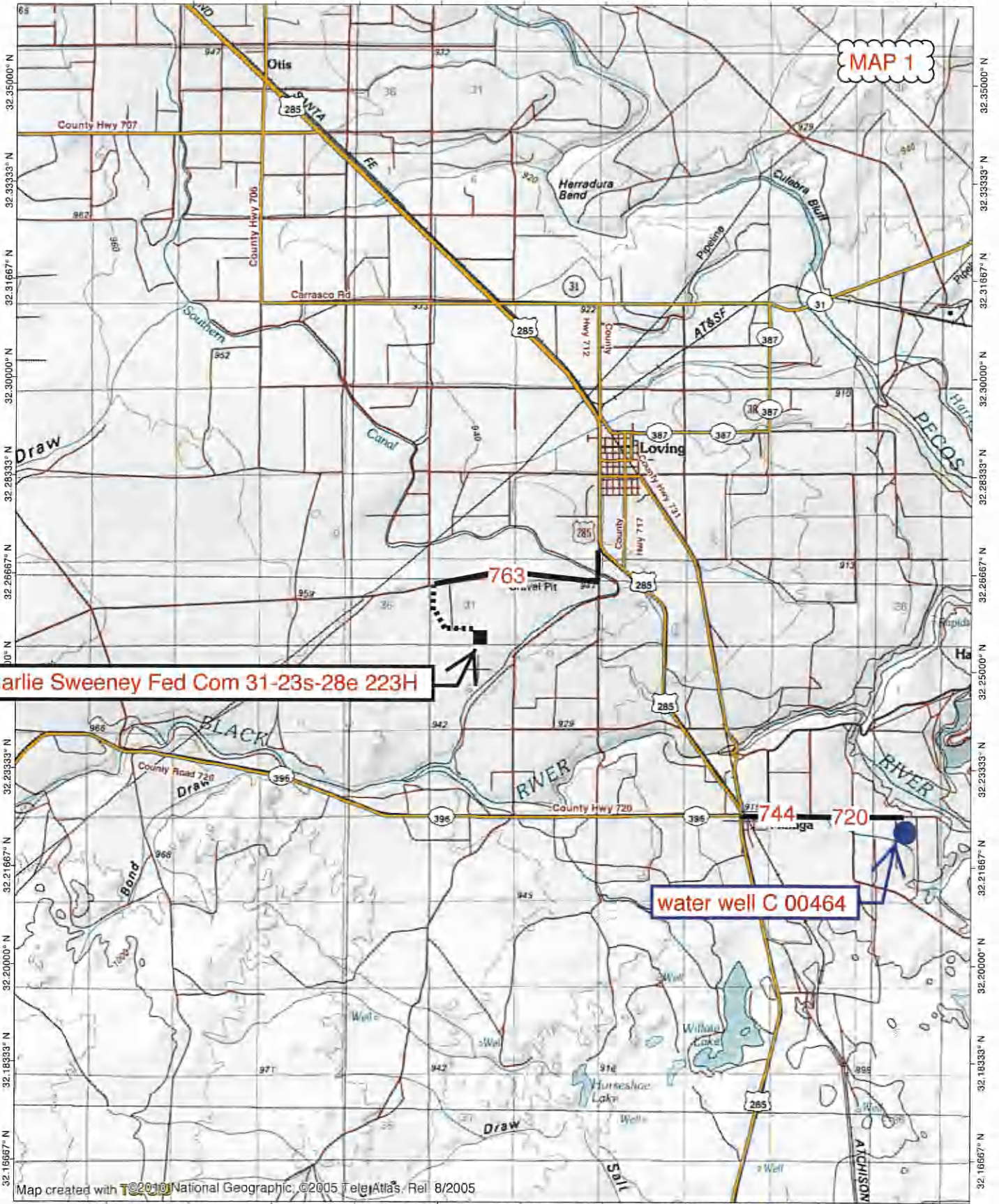


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Charlie Sweeney Fed Com 31-23s-28e 223H

water well C 00464

MAP 2

1 mile radius

BLM O&G lease
NMNM-121941

BHL

access

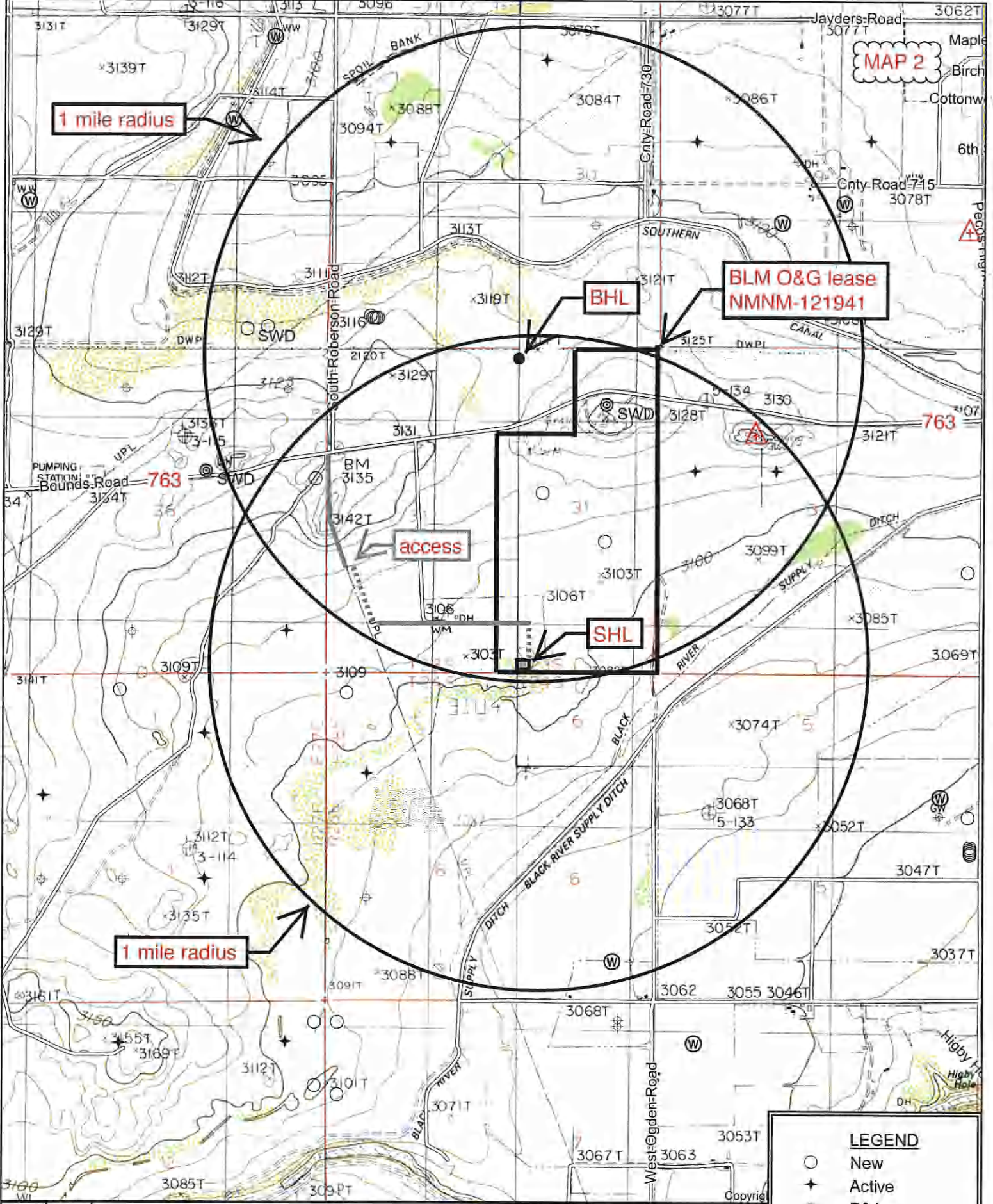
SHL

1 mile radius

LEGEND	
○	New
+	Active
⊕	P&A
⊙	INJ
⊙	SWD
⊙	Water



Quad: OTIS
Scale: 1 inch = 2,000 ft.





763

MAP 3

3661.69' overhead power line

319.52' new road

627.47' gas & saltwater lines

3750.25' surface water line

upgrade 1/2 mile existing road

Charlie Sweeney Fed Com 31-23s-28e 223H

existing Longwood Midstream pipelines

frac pond

road already upgraded to valve station

valve station (under construction)

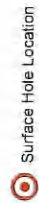
1082.28' new road

763

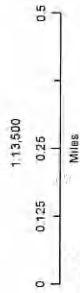
Matador Production Company

CHARLIE SWEENEY FED COM
31-23S-28E #223H
H+S Contingency Plan:
1 Mile Radius Map

Section 31, Township 23S, Range 28E
Eddy County, New Mexico



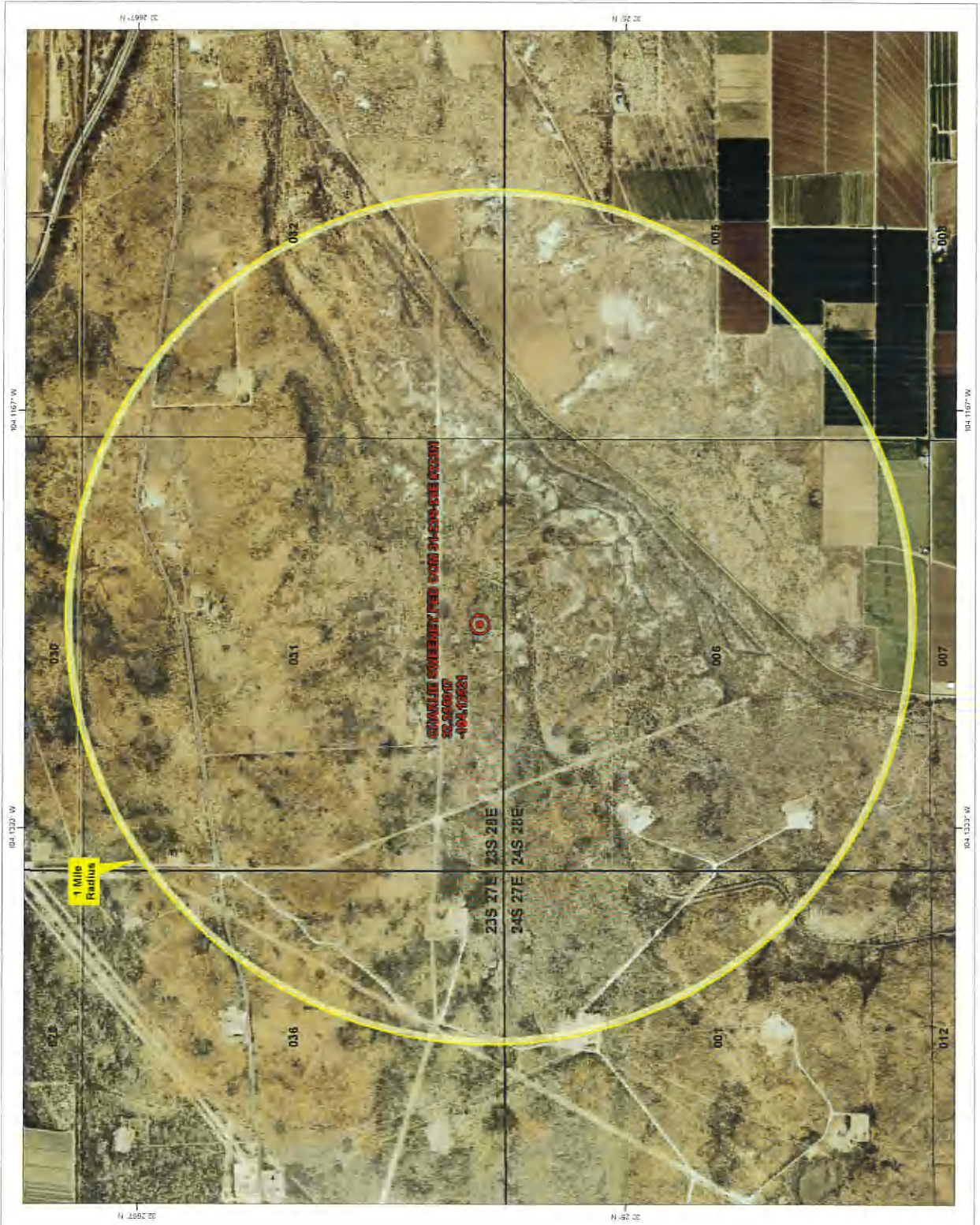
Surface Hole Location



NAD 1927 New Mexico State Plane East
FPS 3001 Feet



Prepared by Permits West, Inc., May 25, 2016
for Matador Production Company



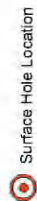
CHARLIE SWEENEY FED COM 31-23S-28E (PDSM)
32-265007
-104.076261

1 Mile Radius

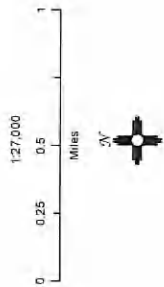
Matador Production Company

CHARLIE SWEENEY FED COM
 31-23S-28E #223H
 H-S Contingency Plan:
 2 Mile Radius Map

Section 31, Township 23S, Range 28E
 Eddy County, New Mexico



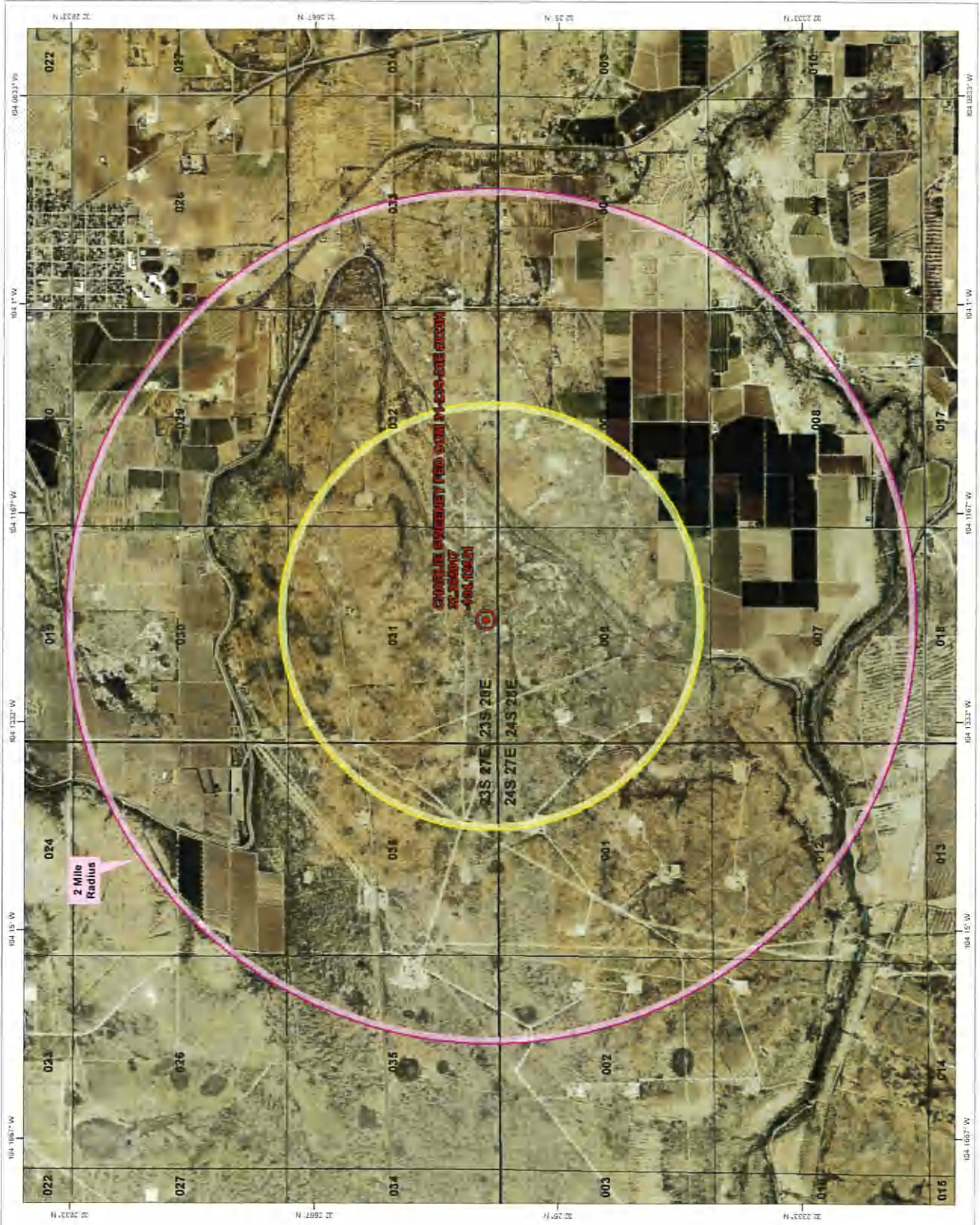
Surface Hole Location



NAD 1927 New Mexico State Plane East
 FIPS 3001 Feet



Prepared by Permits West, Inc., May 25, 2016
 for Matador Production Company



West Pad: Charlie Sweeney Federal RB 31-23S-28E 123H, 203H, 207H, 223H, and 227H wells

Matador Production Company

SURFACE PLAN PAGE 1

Charlie Sweeney Fed Com 31-23S-28E 123H

SHL 190' FSL & 2220' FEL Sec. 31, T. 23 S., R. 28 E.

BHL 240' FNL & 1980' FEL Sec. 31, T. 23 S., R. 28 E.

Eddy County, NM

Surface Use Plan

1. ROAD DIRECTIONS & DESCRIPTIONS (See MAPS 1 - 4)

From the gas stations in Loving, NM...

Go South 1.0 mile on US 285 to a substation

Then turn right onto paved County Road 716 and continue South 0.4 mile

Turn right at a transfer station and go West 2.05 mi. on paved County Rd. 763

Then turn left and go South & SE 0.35 mile on a caliche road to a valve station

Then turn left at the valve station and go Southeast 1082.28' cross-country

Then turn left and go East ½ mile on an existing road

Then turn right and go South 319.52' cross-country to the proposed pad

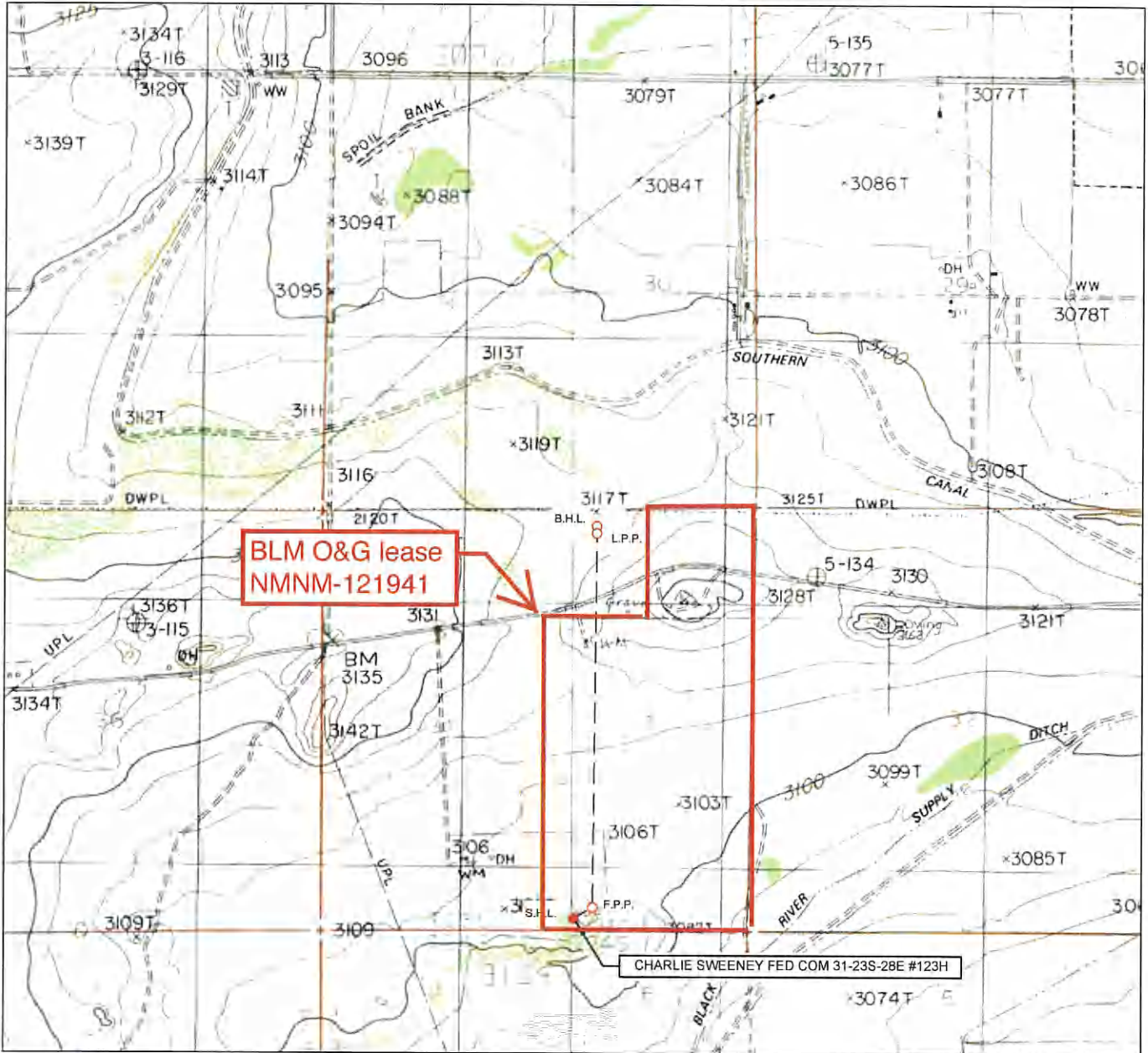
Non-county roads will be maintained as needed to Gold Book standards. This includes pulling ditches, preserving the crown, and cleaning culverts. This will be done at least once a year, and more often as needed. Caliche will be hauled from existing caliche pits on private land in NWSE 1-24s-28e and NWSW 6-24s-29e.

2. ROAD TO BE BUILT OR UPGRADED (See MAPS 3 & 4)

Road from County Road 763 to the valve station is 2 lanes, crowned, and surfaced with caliche. No upgrade is needed.

All of the road (3/4 mile) from the valve station to the pad will be crowned, have a 14' wide driving surface, and be surfaced with caliche. Maximum disturbed width = 20'. Maximum grade = 2%. Maximum cut or fill = 1'. A cattle guard will be installed in the existing fence. No culvert or vehicle turn out is needed.

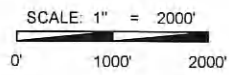
LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: CHARLIE SWEENEY FED COM 31-23S-28E #123H

SECTION 31 TWP 23-S RGE 28-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM ELEVATION 3108'
 DESCRIPTION 190' FSL & 2220' FEL

LATITUDE N 32.2546330 LONGITUDE W 104.1249306



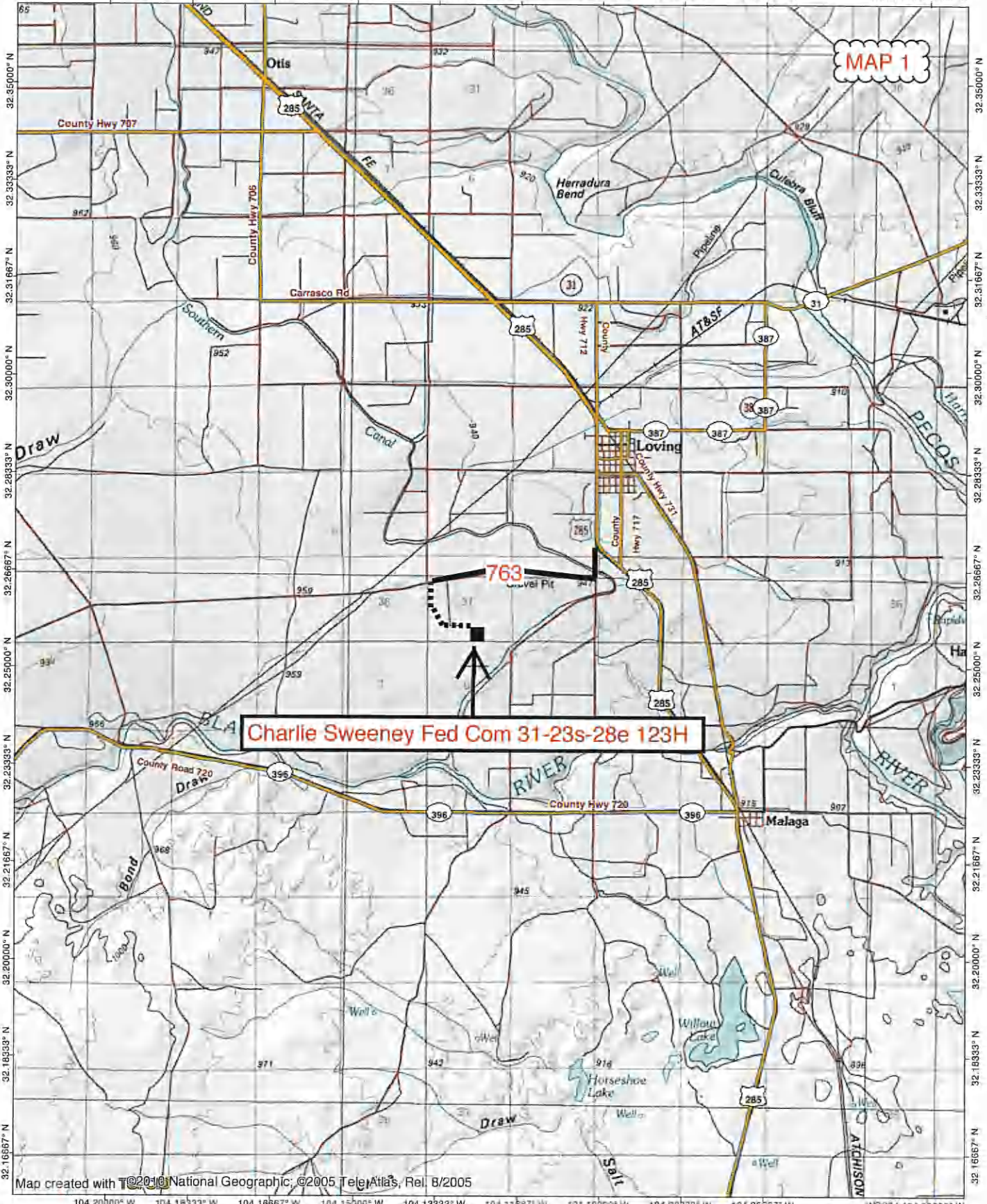
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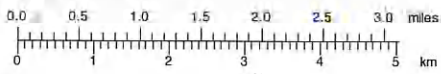
104.20000° W 104.18333° W 104.16667° W 104.15000° W 104.13333° W 104.11667° W 104.10000° W 104.08333° W 104.06667° W WGS84 104.03333° W

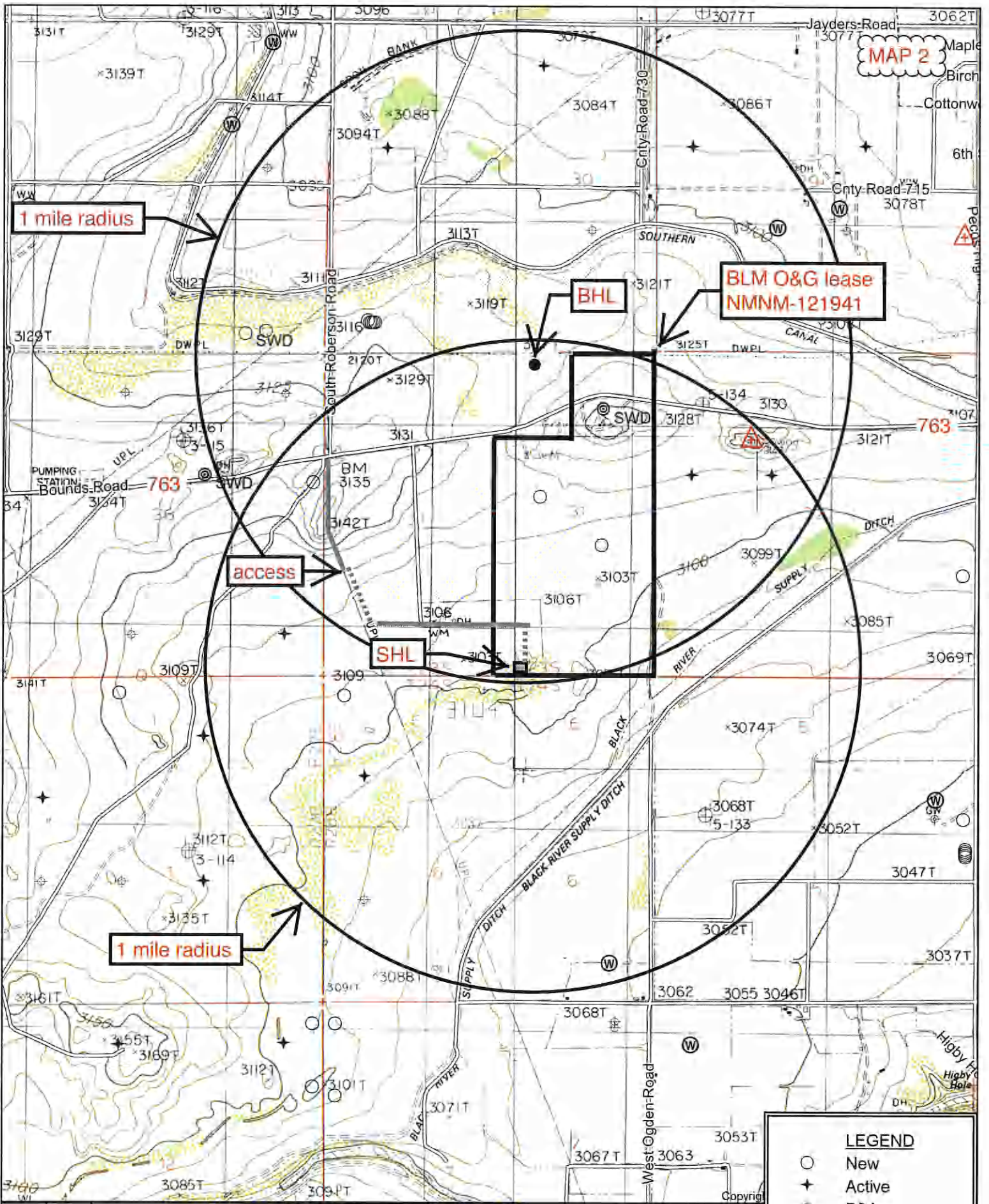


Charlie Sweeney Fed Com 31-23s-28e 123H



Map created with ©2010 National Geographic; ©2005 TeleAtlas, Rel. 8/2005





MAP 2
Maple
Birch
Cottonwo
6th

1 mile radius

BLM O&G lease
NMMN-121941

BHL

access

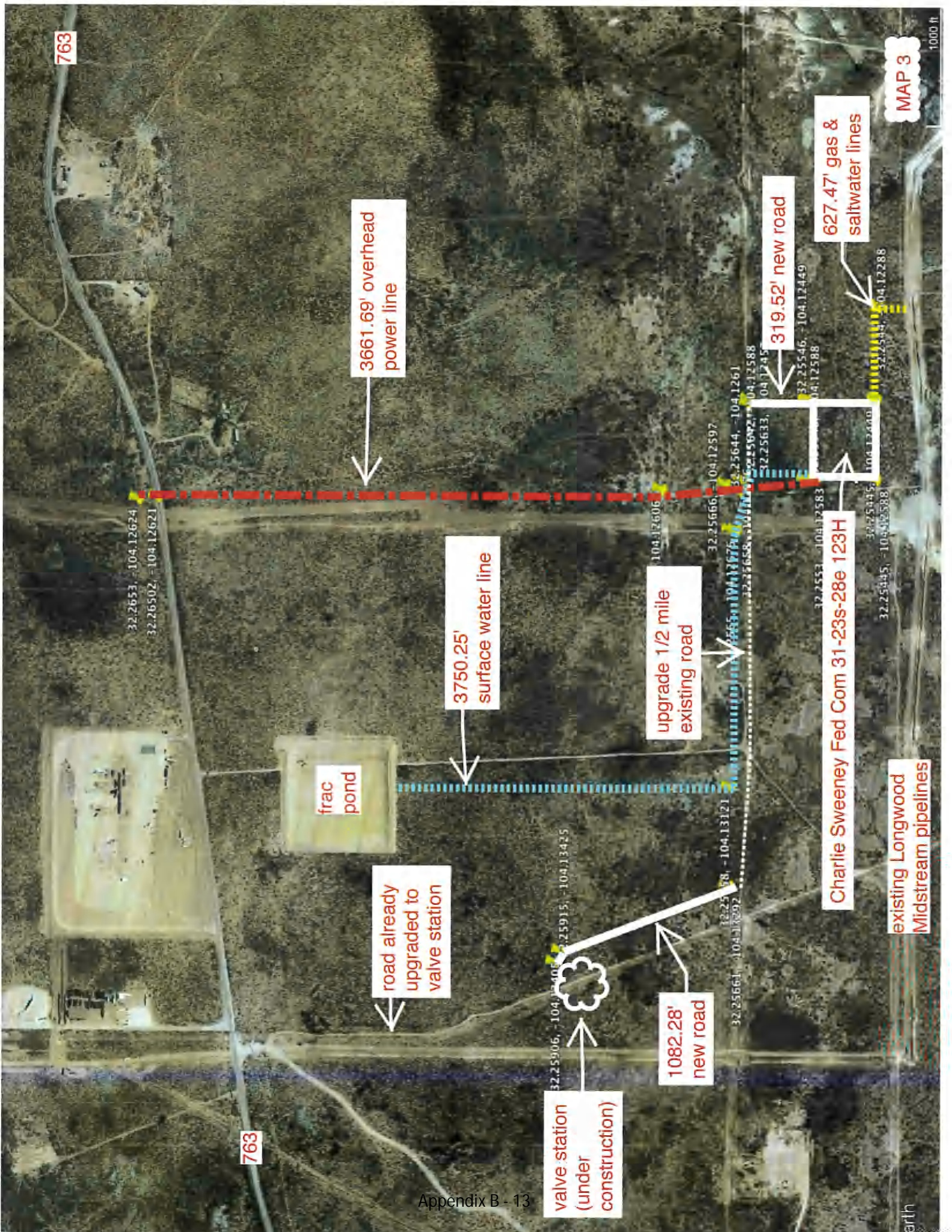
SHL

1 mile radius

LEGEND	
○	New
+	Active
⊕	P&A
⊙	INJ
⊙	SWD
⊙	Water



Quad: OTIS
Scale: 1 inch = 2,000 ft.



763

MAP 3

3661.69' overhead power line

3750.25' surface water line

upgrade 1/2 mile existing road

319.52' new road

627.47' gas & saltwater lines

Charlie Sweeney Fed Com 31-23s-28e 123H

existing Longwood Midstream pipelines

road already upgraded to valve station

valve station (under construction)

1082.28' new road

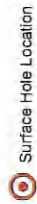
763

1000 ft

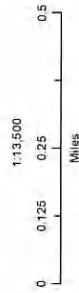
Matador Production Company

CHARLIE SWEENEY FED COM
 31-23S-28E #123H
 H+S Contingency Plan:
 1 Mile Radius Map

Section 31, Township 23S, Range 28E
 Eddy County, New Mexico



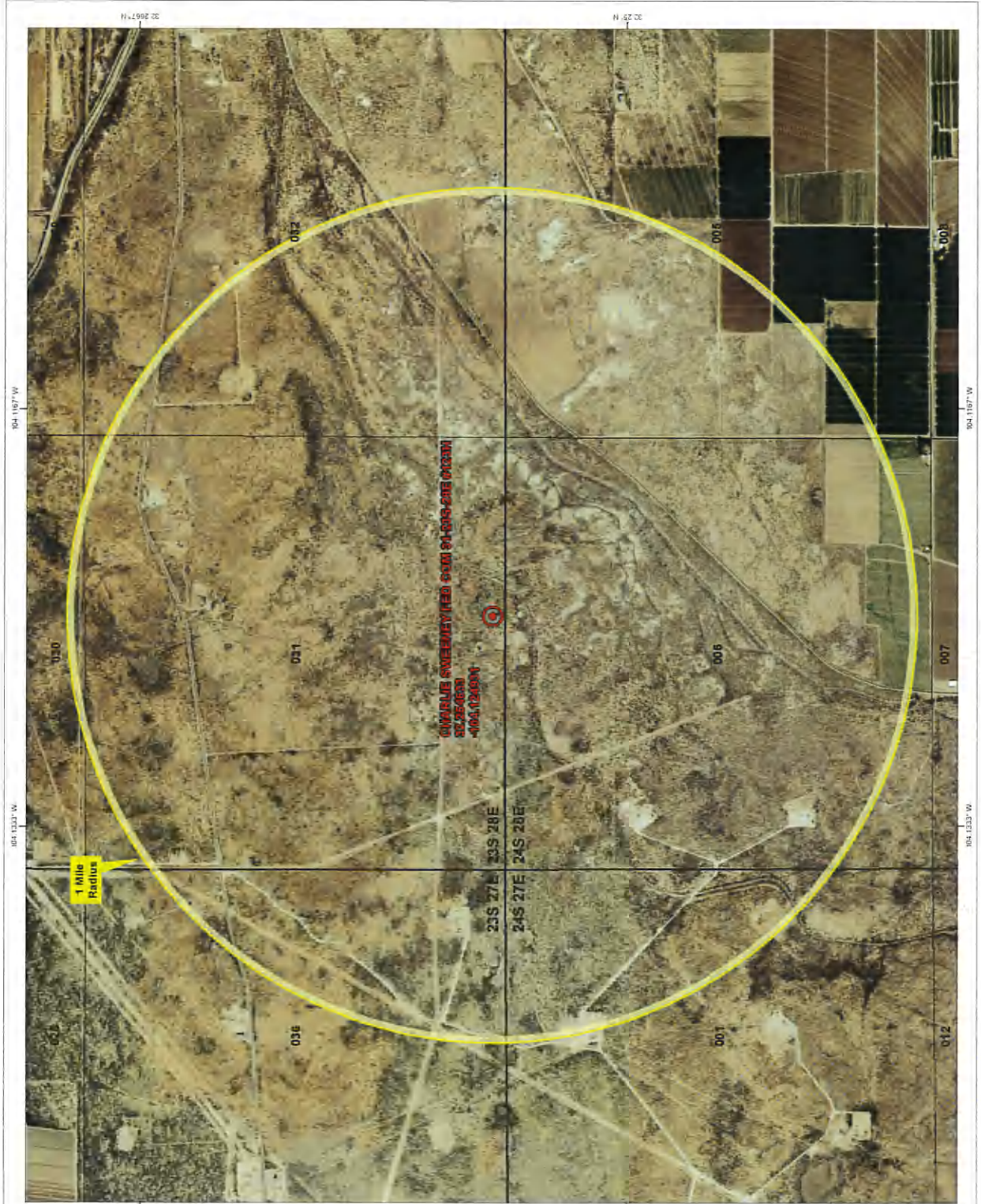
Surface Hole Location



NAD 1927 New Mexico State Plane East
 FPS 3001 Feet



Prepared by Permits West, Inc., May 25, 2016
 for Matador Production Company



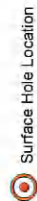
CHARLIE SWEENEY FED COM 31-23S-28E #123H
 32.55-0833
 -4063.1721914

1 Mile Radius

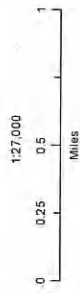
Matador Production Company

CHARLIE SWEENEY FED COM
31-23S-28E #123H
H:S Contingency Plan:
2 Mile Radius Map

Section 31, Township 23S, Range 28E
Eddy County, New Mexico



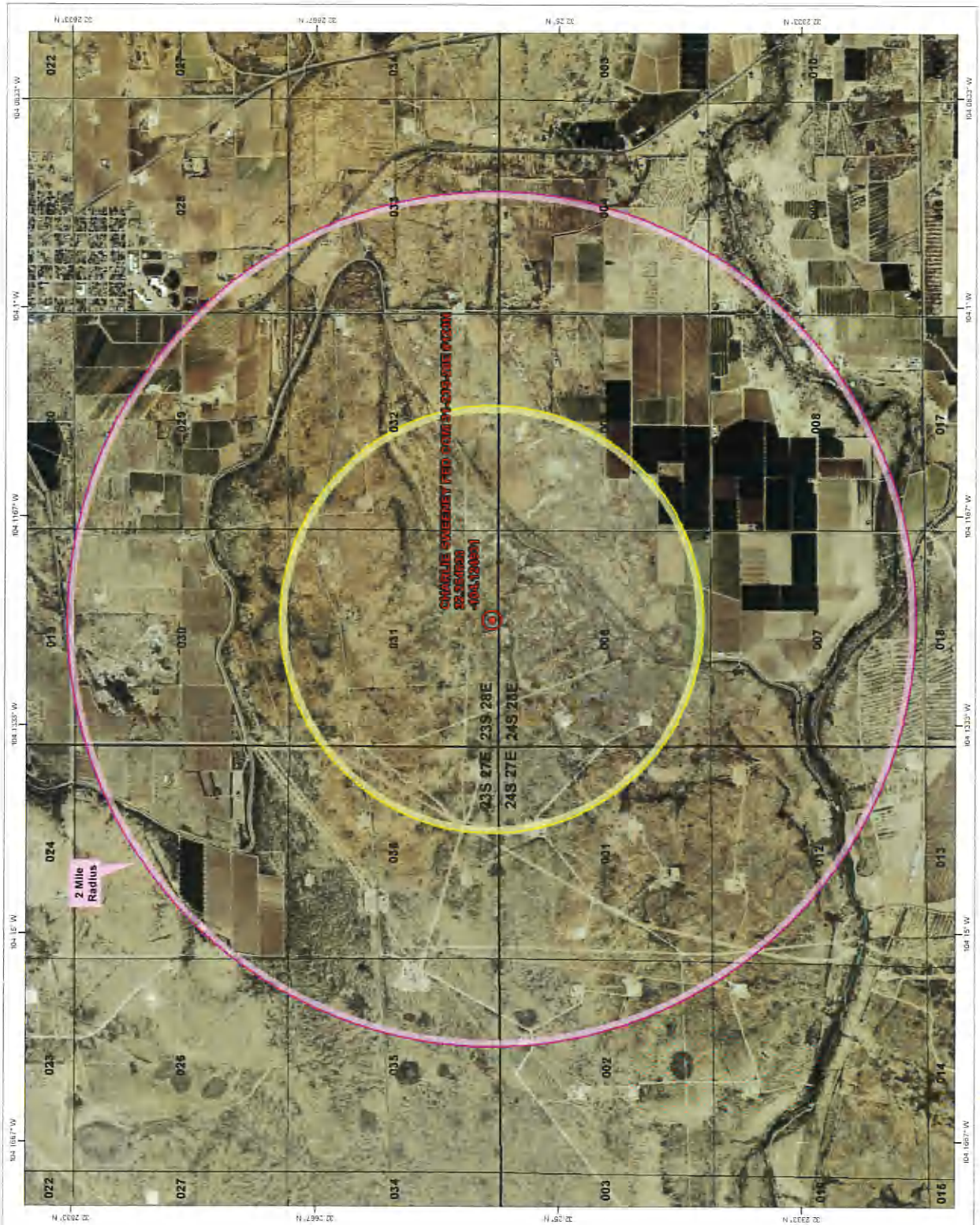
Surface Hole Location



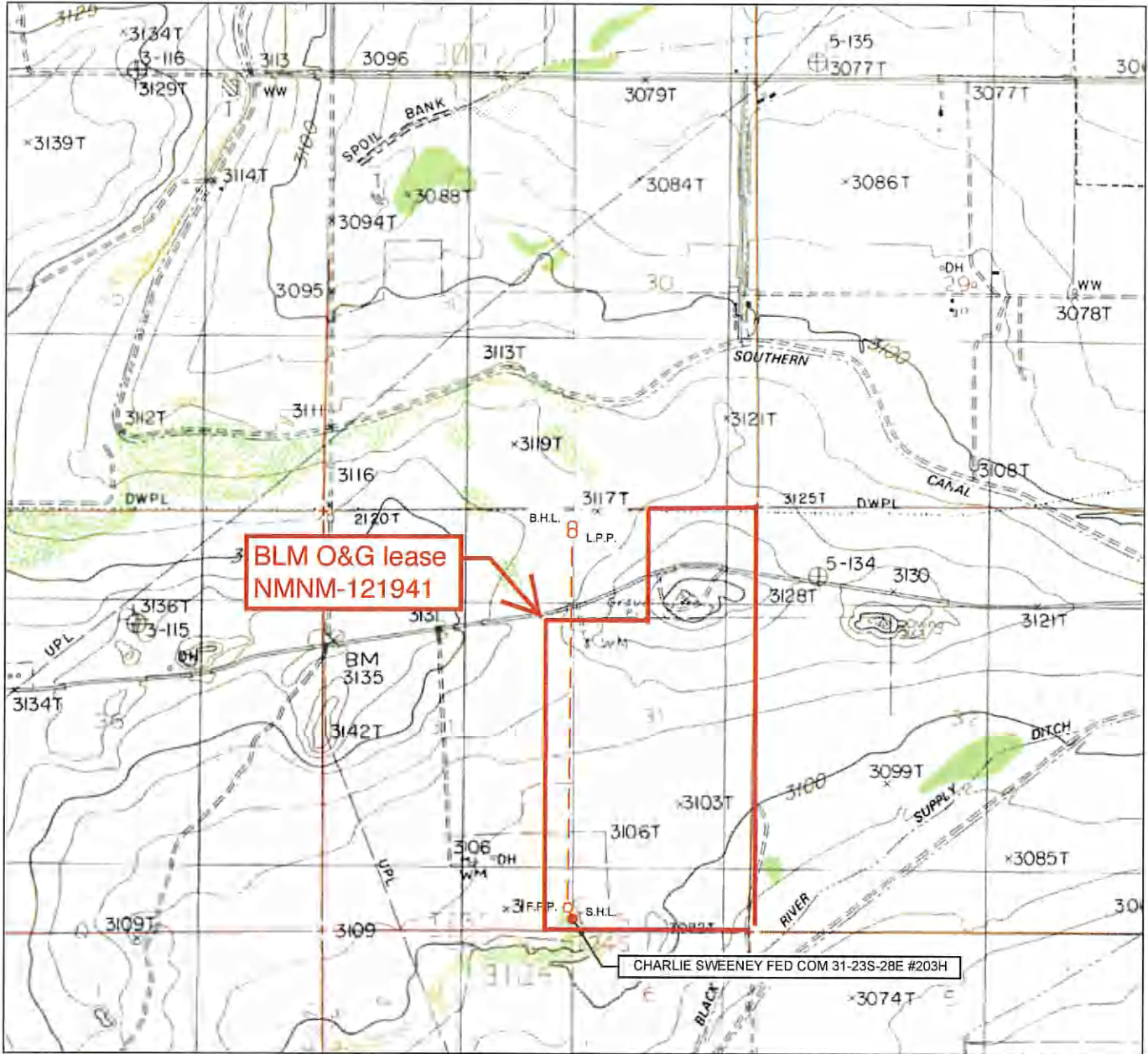
NAD 1927 New Mexico State Plane East
FPS 3001 Feet



Prepared by Permits West, Inc., May 25, 2016
for Matador Production Company



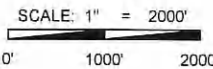
LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: CHARLIE SWEENEY FED COM 31-23S-28E #203H

SECTION 31 TWP 23-S RGE 28-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM ELEVATION 3108'
 DESCRIPTION 190' FSL & 2250' FEL

LATITUDE N 32.2546330 LONGITUDE W 104.1250273

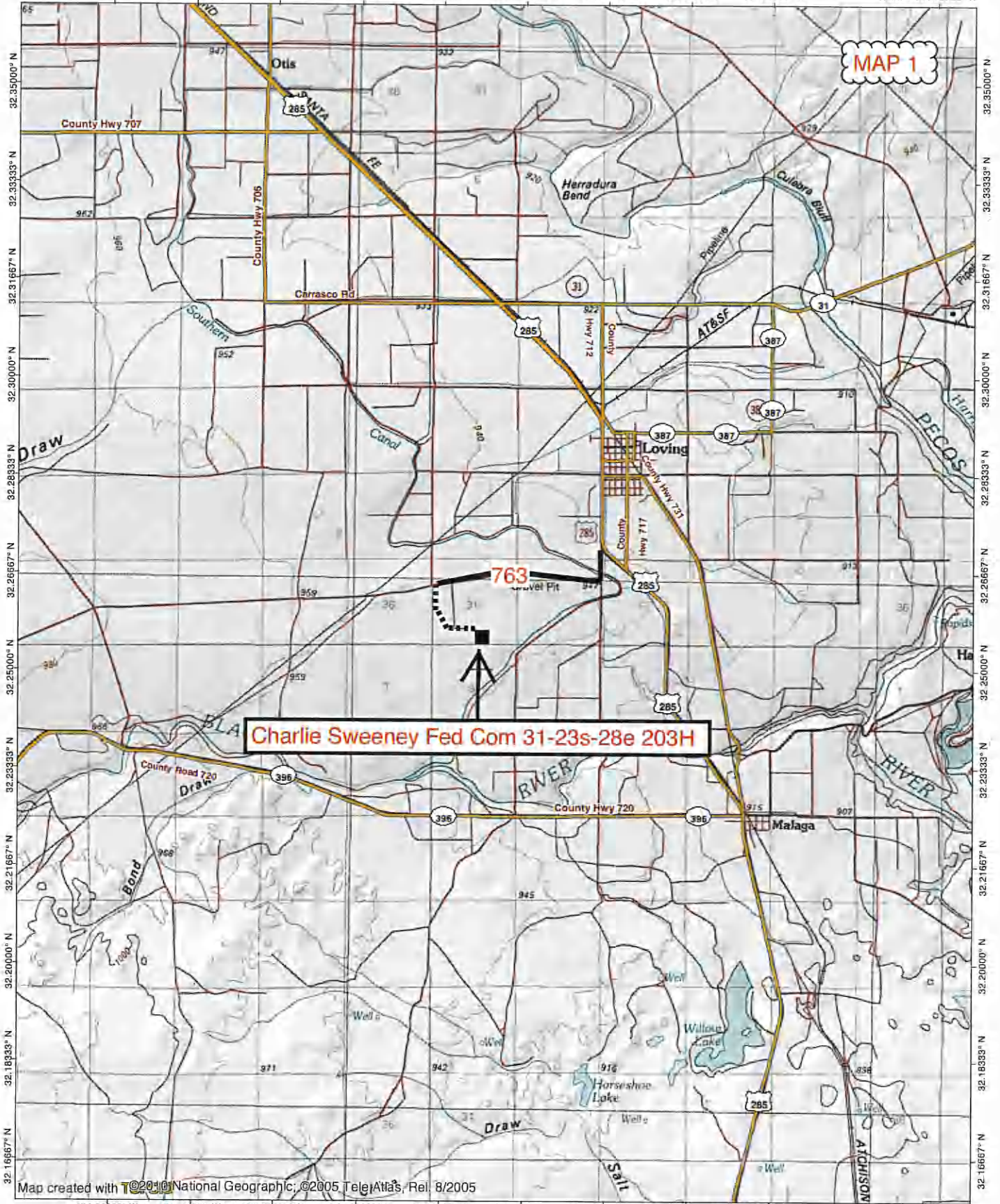


THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET.

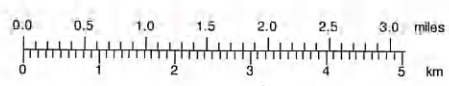
TOPOGRAPHIC
 LOYALTY INNOVATION LEGACY
 1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM

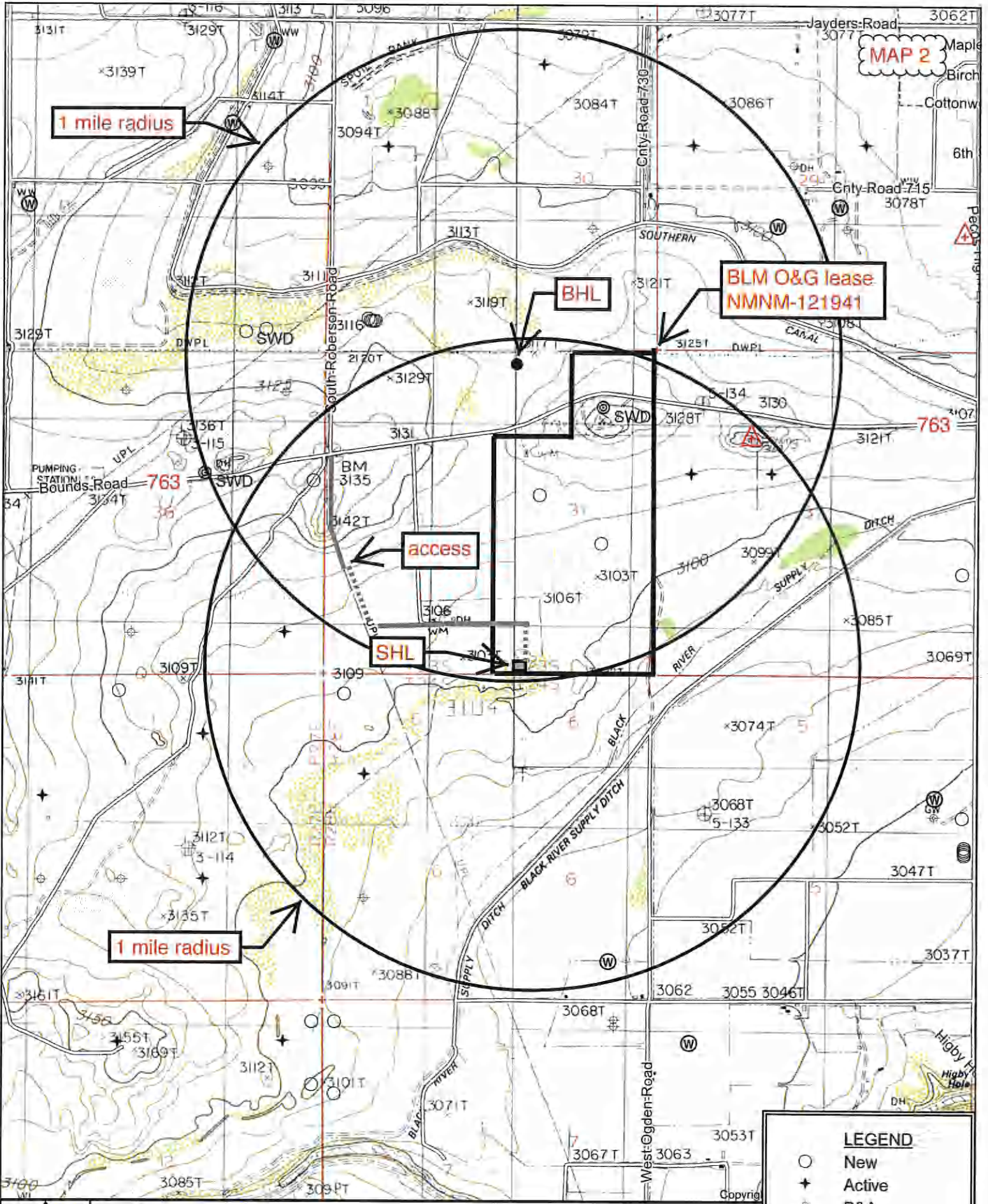
104.20000° W 104.18333° W 104.16667° W 104.15000° W 104.13333° W 104.11667° W 104.10000° W 104.08333° W 104.06667° W WGS84 104.03333° W



Map created with National Geographic, ©2005 TeleAtlas, Rel. 8/2005

104.20000° W 104.18333° W 104.16667° W 104.15000° W 104.13333° W 104.11667° W 104.10000° W 104.08333° W 104.06667° W WGS84 104.03333° W





MAP 2

1 mile radius

BLM O&G lease
NMNM-121941

BHL

access

SHL

1 mile radius

LEGEND	
○	New
+	Active
⊕	P&A
⊙	INJ
⊙	SWD
⊙	Water



Quad: OTIS
Scale: 1 inch = 2,000 ft.



763

MAP 3

1000 ft

3661.69' overhead power line

319.52' new road

627.47' gas & saltwater lines

3750.25' surface water line

upgrade 1/2 mile existing road

Charlie Sweeney Fed Com 31-23s-28e 203H

existing Longwood Midstream pipelines

frac pond

road already upgraded to upgraded to valve station

valve station (under construction)

1082.28' new road

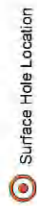
763

earth

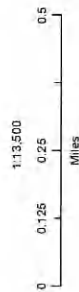
Matador Production Company

CHARLIE SWEENEY FED COM
 31-23S-28E #203H
 H2S Contingency Plan:
 1 Mile Radius Map

Section 31, Township 23S, Range 28E
 Eddy County, New Mexico



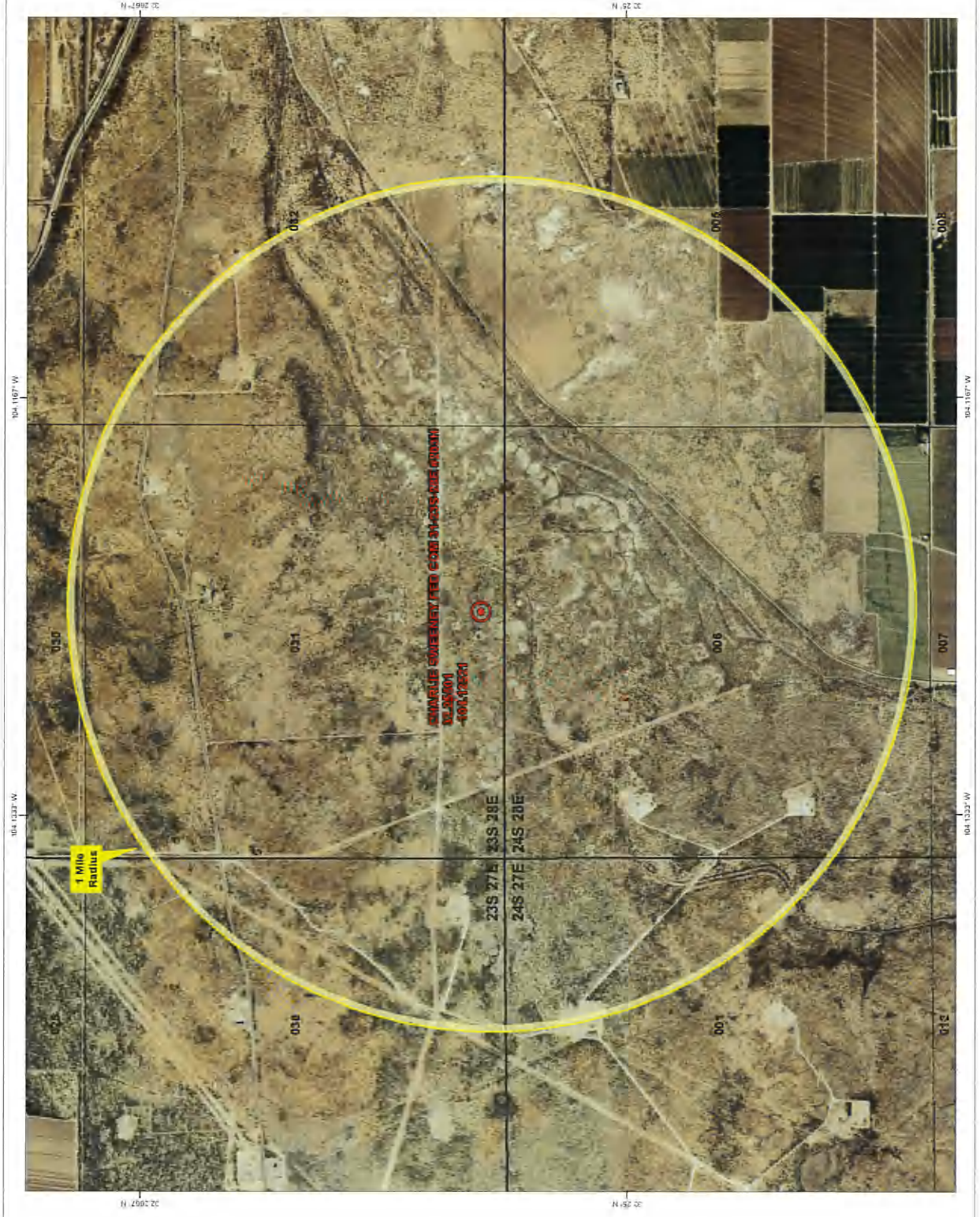
Surface Hole Location



NAD 1927 New Mexico State Plane East
 FIPS 3001 Feet



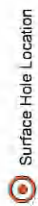
Prepared by Permits West, Inc., May 25, 2019
 for Matador Production Company



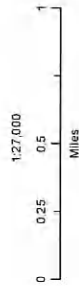
Matador Production Company

CHARLIE SWEENEY FED COM
 31-23S-28E #203H
 H+S Contingency Plan:
 2 Mile Radius Map

Section 31, Township 23S, Range 28E
 Eddy County, New Mexico



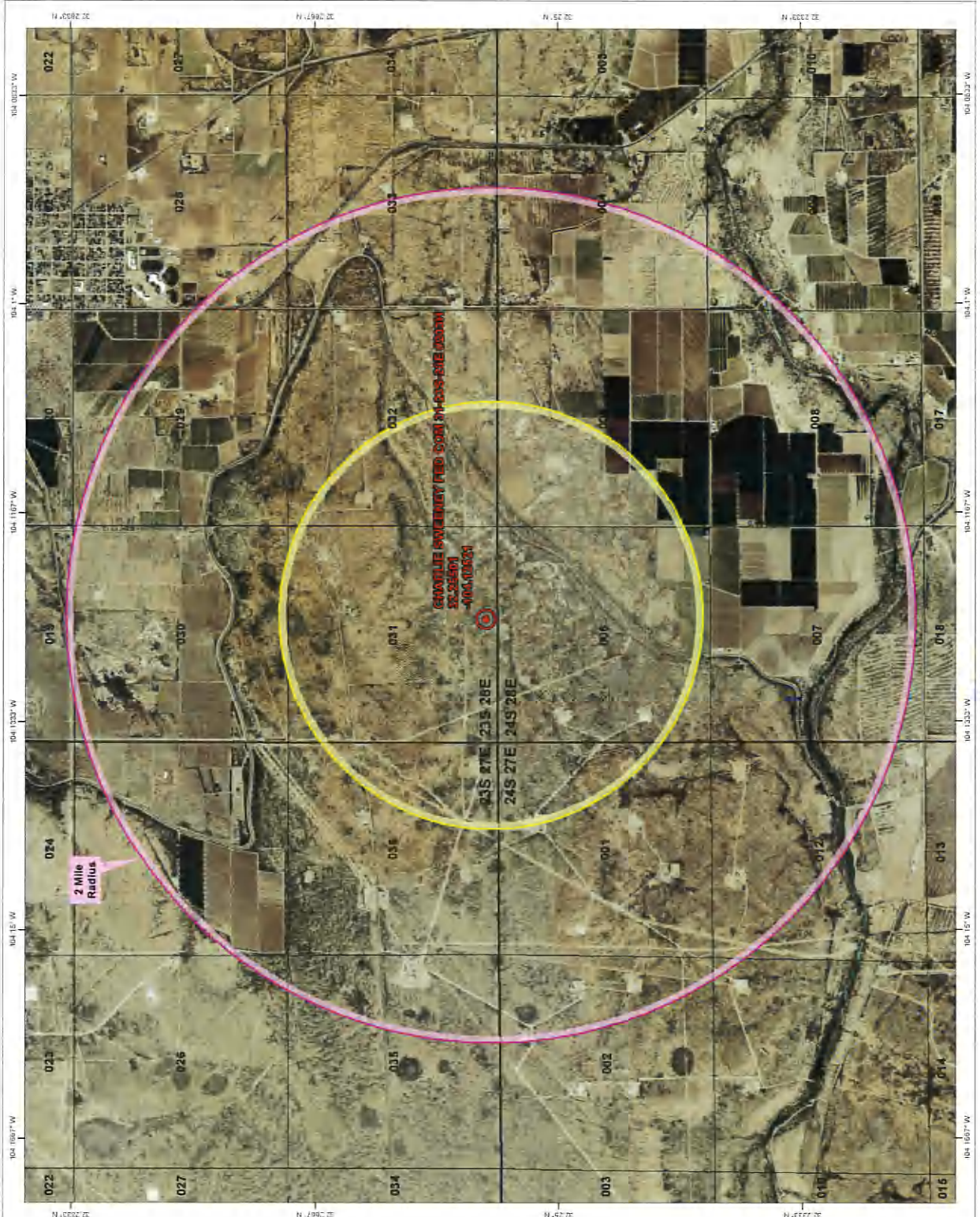
Surface Hole Location

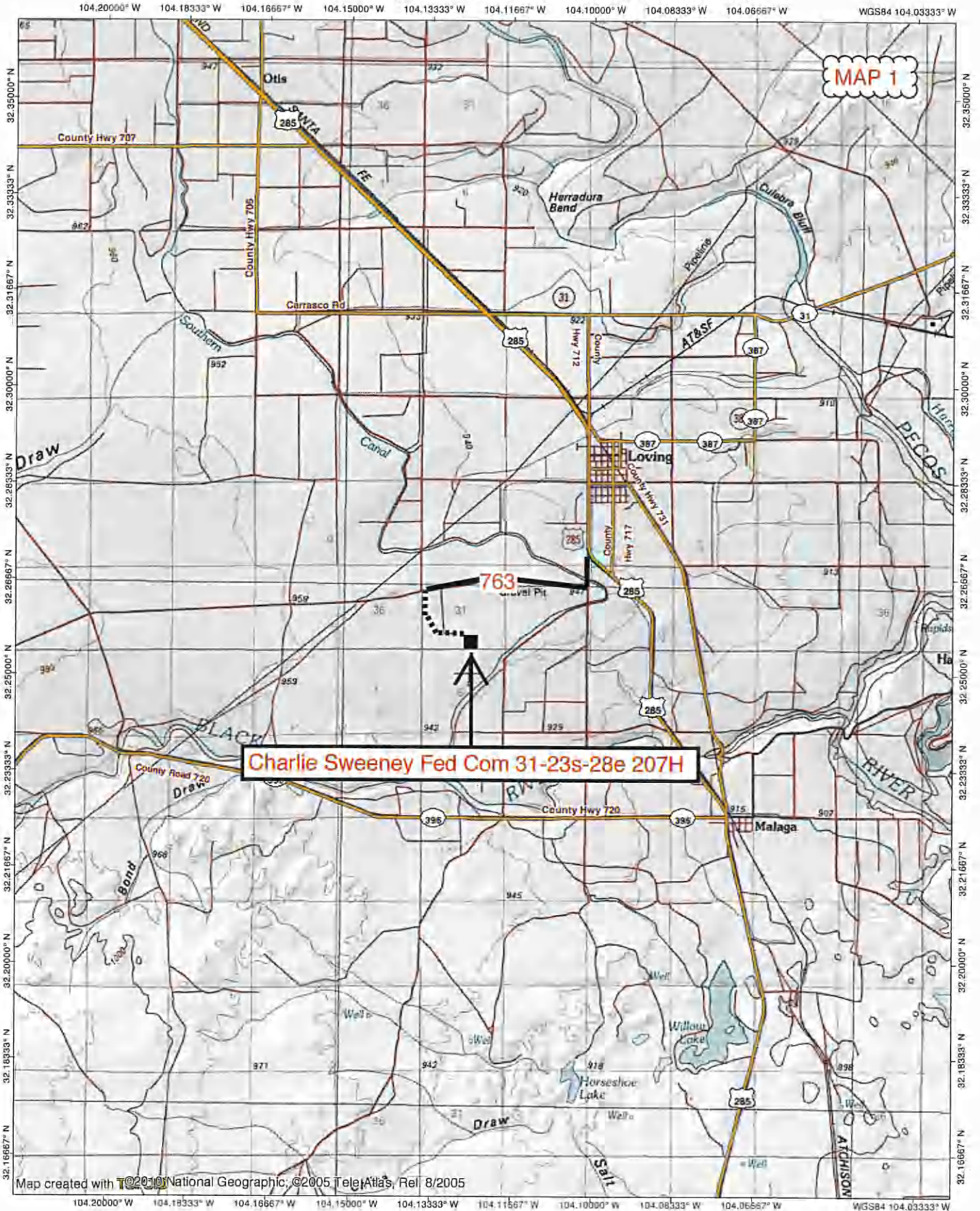


NAD 1927 New Mexico State Plane East
 FIPS 3001 Feet



Prepared by Permits West, Inc., May 25, 2016
 for Matador Production Company

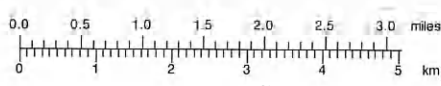


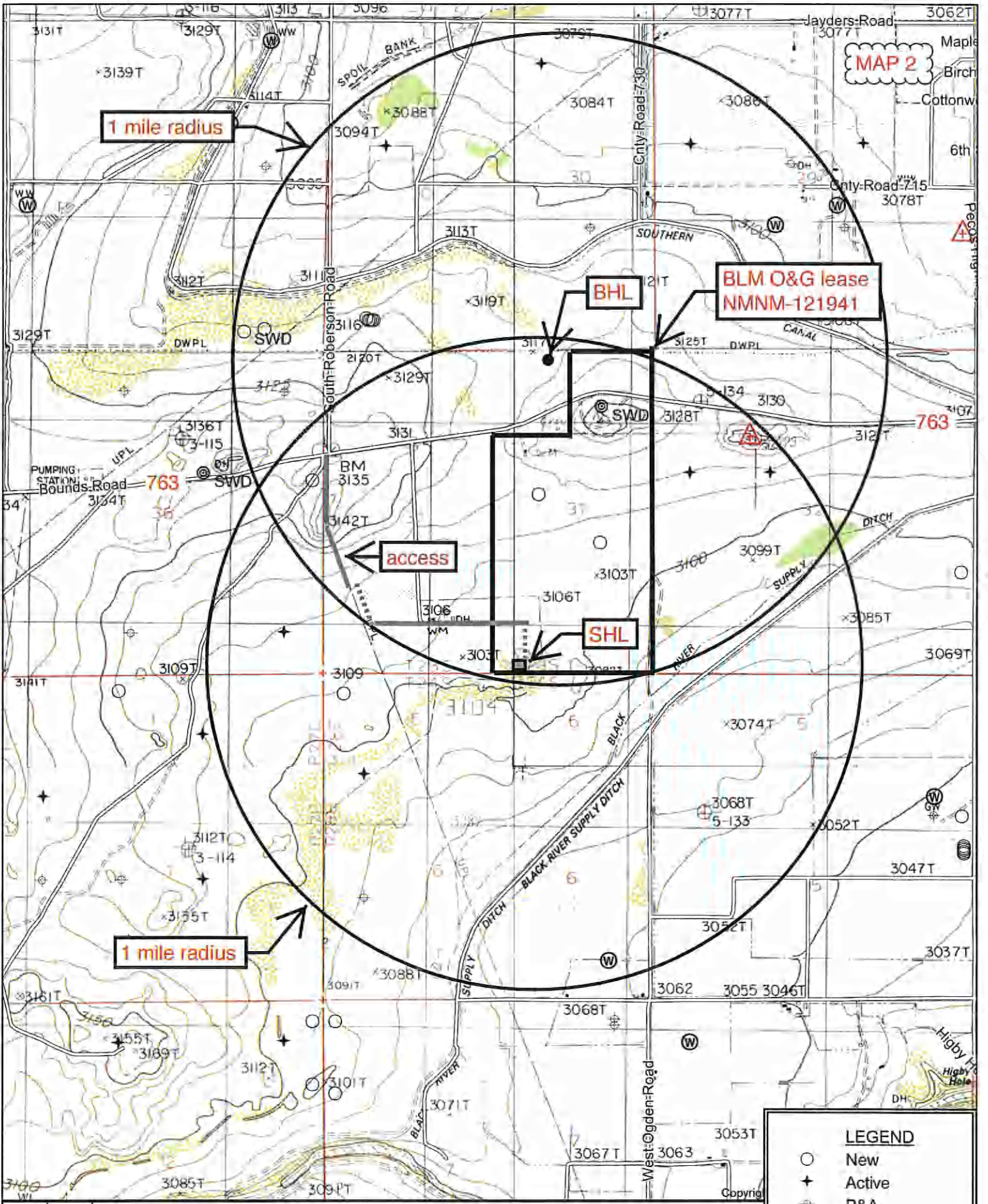


MAP 1

Charlie Sweeney Fed Com 31-23s-28e 207H

763





MAP 2

1 mile radius

BLM O&G lease
NMNM-121941

BHL

access

SHL

1 mile radius

LEGEND	
○	New
+	Active
⊕	P&A
⊙	INJ
⊙	SWD
⊙	Water



Quad: OTIS
Scale: 1 inch = 2,000 ft.



763

MAP 3

1000 ft

32.2653, -104.12624
32.26502, -104.12621

3661.69' overhead power line

3750.25' surface water line

upgrade 1/2 mile existing road

319.52' new road

627.47' gas & saltwater lines

frac pond

road already upgraded to valve station

valve station (under construction)

1082.28' new road

Charlie Sweeney Fed Com 31-23s-28e 207H

existing Longwood Midstream pipelines

32.25906, -104.13405
32.25915, -104.13425

32.25661, -104.13692
32.25598, -104.13121

32.25666, -104.12597
32.25644, -104.1261

32.25562, -104.12588
32.25633, -104.1245

32.25546, -104.12449
32.2544, -104.12588

32.25445, -104.12666
32.25445, -104.12588

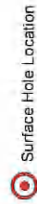
32.2544, -104.12288

earth

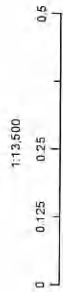
Matador Production Company

CHARLIE SWEENEY FED COM
 31-23S-28E #207H
 H+S Contingency Plan:
 1 Mile Radius Map

Section 31, Township 23S, Range 28E
 Eddy County, New Mexico



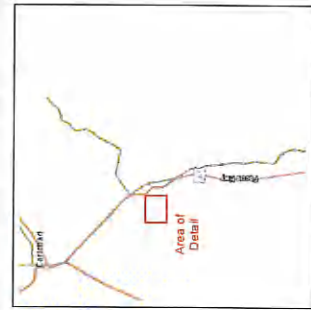
Surface Hole Location



NAD 1927 New Mexico State Plane East
 FIPS 3001 Feet



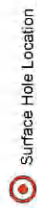
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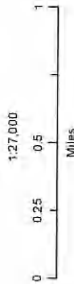
Matador Production Company

CHARLIE SWEENEY FED COM
31-23S-28E #207H
H2S Contingency Plan:
2 Mile Radius Map

Section 31, Township 23S, Range 28E
Eddy County, New Mexico



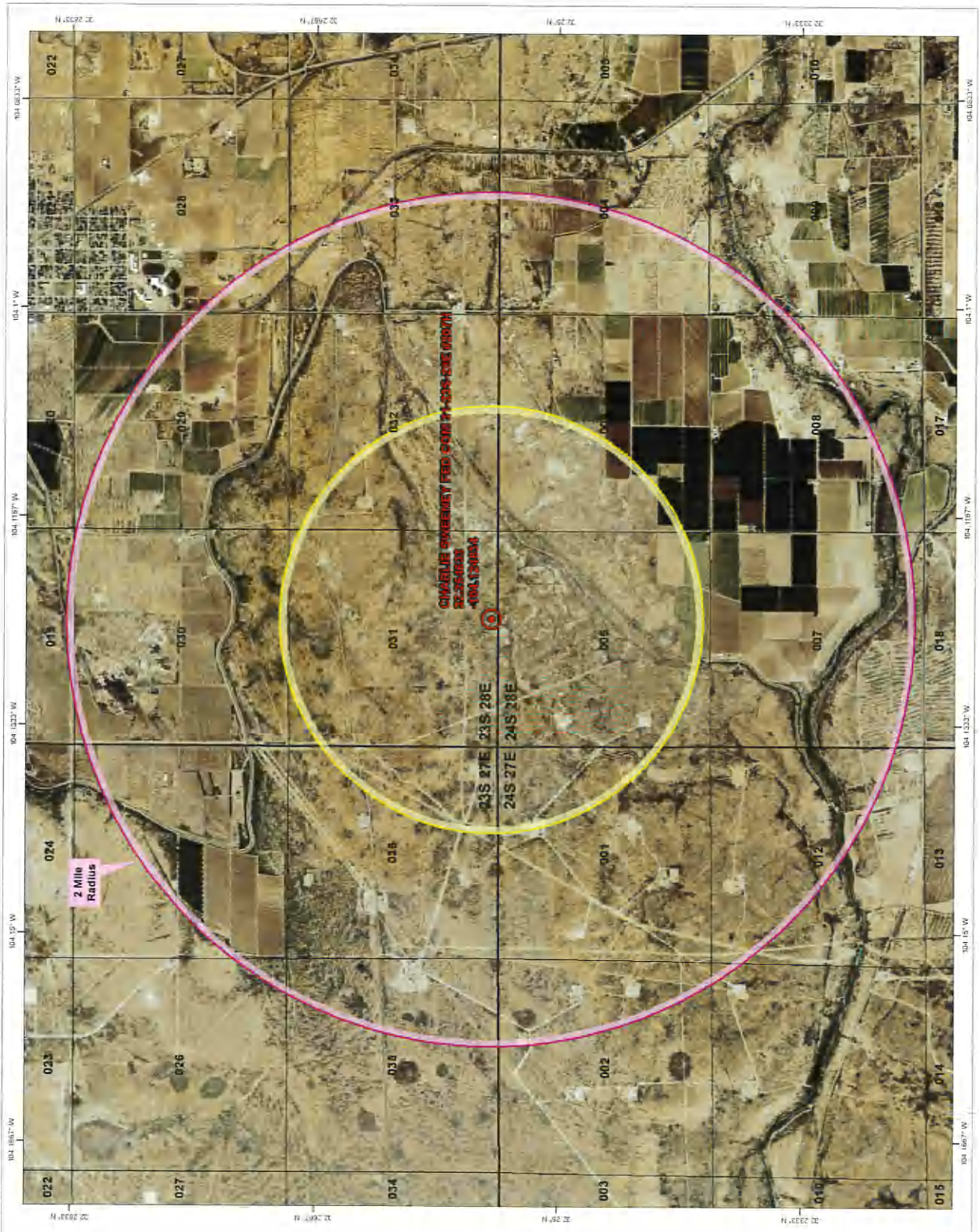
Surface Hole Location



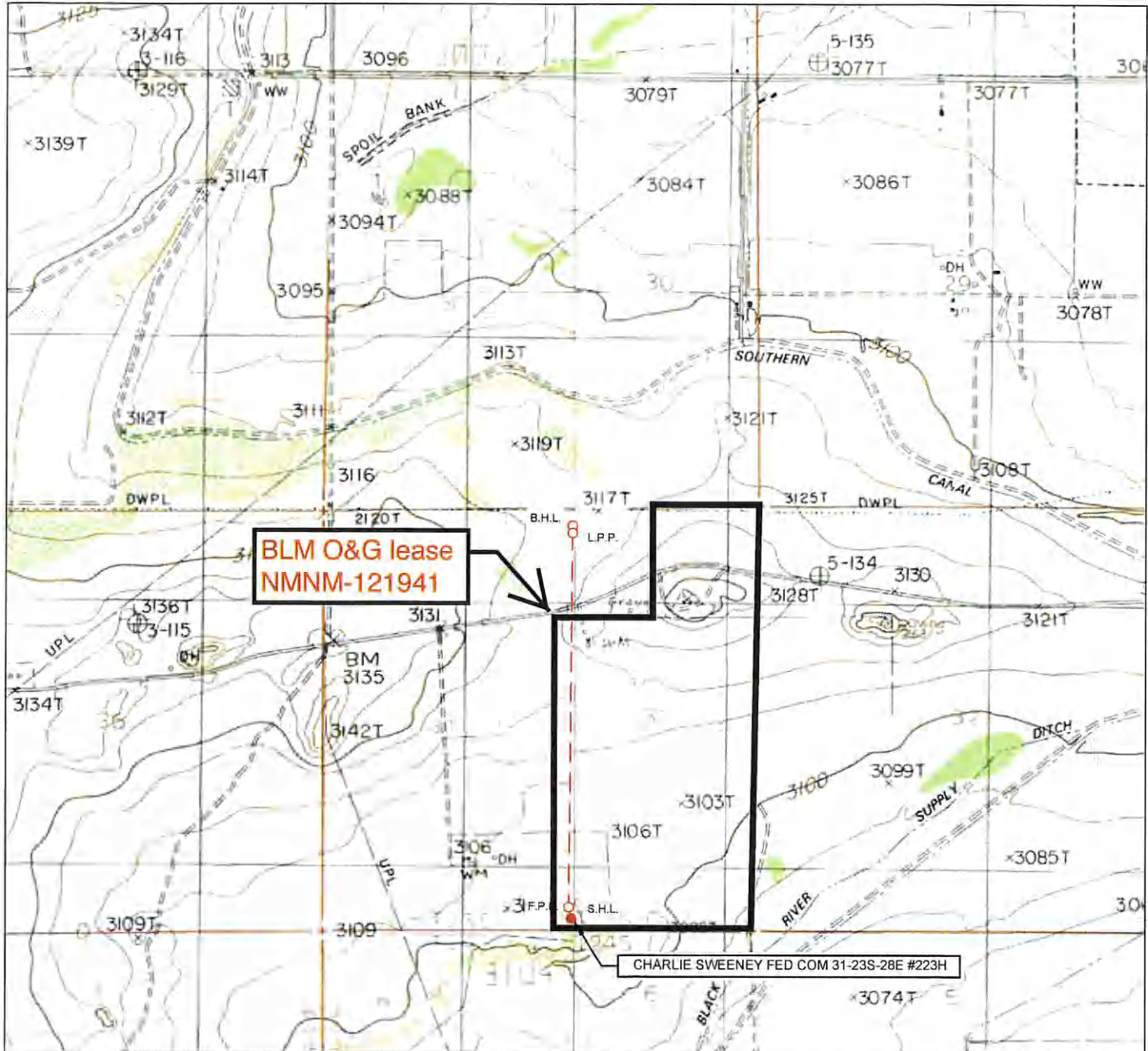
NAD 1927 New Mexico State Plane East
FPS 3001 Feet



Prepared by Permits West, Inc. May 25, 2016
for Matador Production Company



LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: CHARLIE SWEENEY FED COM 31-23S-28E #223H

SECTION 31 TWP 23-S RGE 28-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM ELEVATION 3107'
 DESCRIPTION 190' FSL & 2280' FEL

LATITUDE N 32.2546333 LONGITUDE W 104.1251244



SCALE: 1" = 2000'
 0 1000 2000'

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

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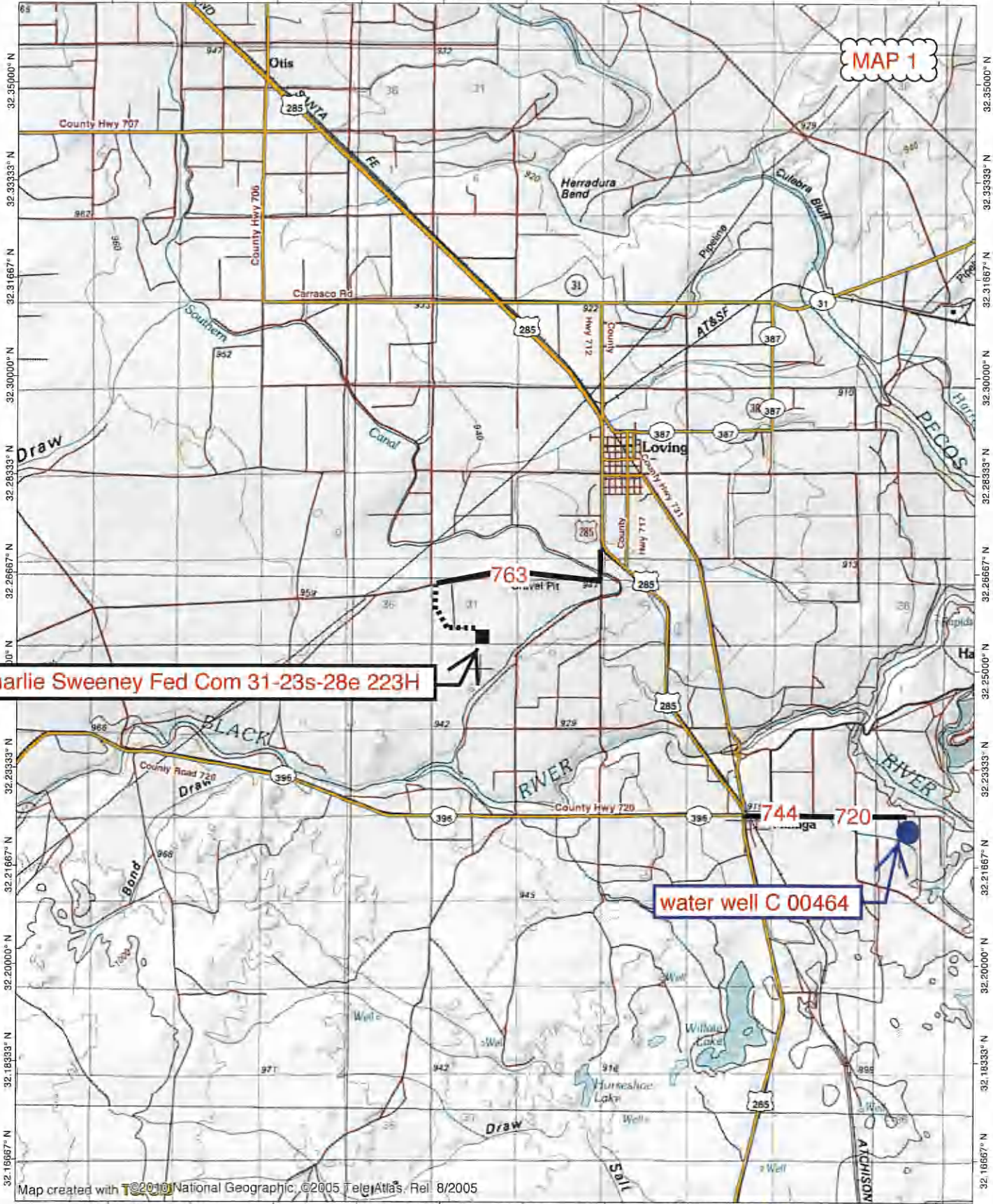


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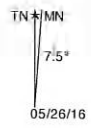
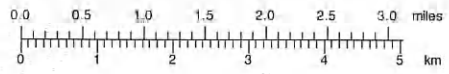
MAP 1

Charlie Sweeney Fed Com 31-23s-28e 223H

water well C 00464



Map created with National Geographic, ©2005 TeleAtlas, Rel. 8/2005



MAP 2

1 mile radius

BLM O&G lease
NMNM-121941

BHL

access

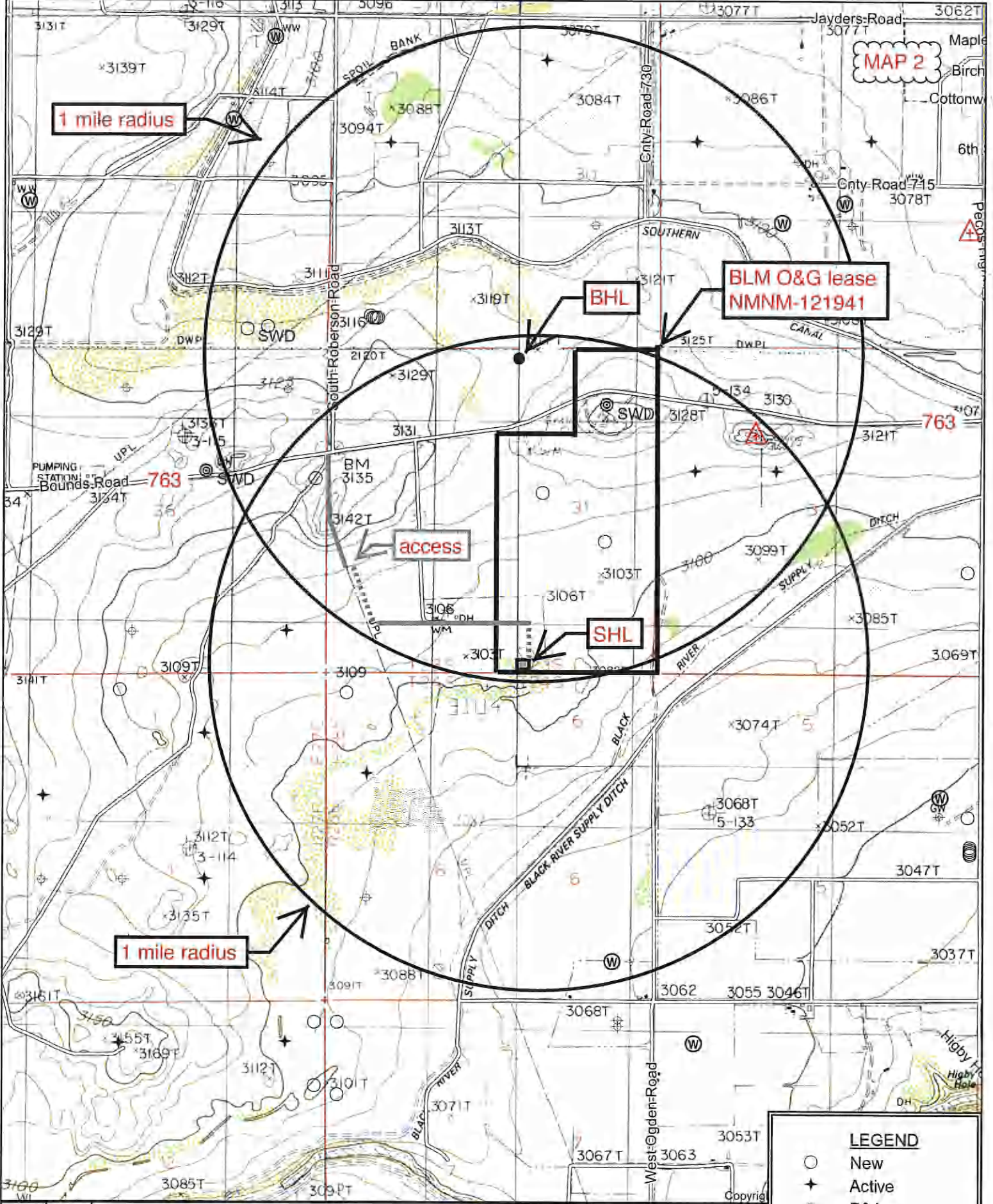
SHL

1 mile radius

LEGEND

- New
- ★ Active
- ⊕ P&A
- ⊙ INJ
- ⊙ SWD
- ⊙ Water

Quad: OTIS
Scale: 1 inch = 2,000 ft.





763

MAP 3

3661.69' overhead power line

3750.25' surface water line

319.52' new road

627.47' gas & saltwater lines

32.2653, -104.12624
32.26502, -104.12621

upgrade 1/2 mile existing road

Charlie Sweeney Fed Com 31-23s-28e 223H

existing Longwood Midstream pipelines

frac pond

road already upgraded to valve station

valve station (under construction)

1082.28' new road

32.25906, -104.13408
32.25915, -104.13425

32.25578, -104.13121
32.25661, -104.13092

32.25666, -104.12597

32.25644, -104.1261
32.25642, -104.12588

32.25633, -104.1245

32.25546, -104.12449
32.2544, -104.12588

32.25445, -104.12440
32.25445, -104.12588

32.25445, -104.12588

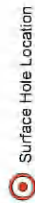
earth

1000 ft

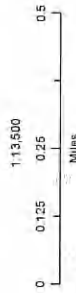
Matador Production Company

CHARLIE SWEENEY FED COM
 31-23S-28E #223H
 H+S Contingency Plan:
 1 Mile Radius Map

Section 31, Township 23S, Range 28E
 Eddy County, New Mexico



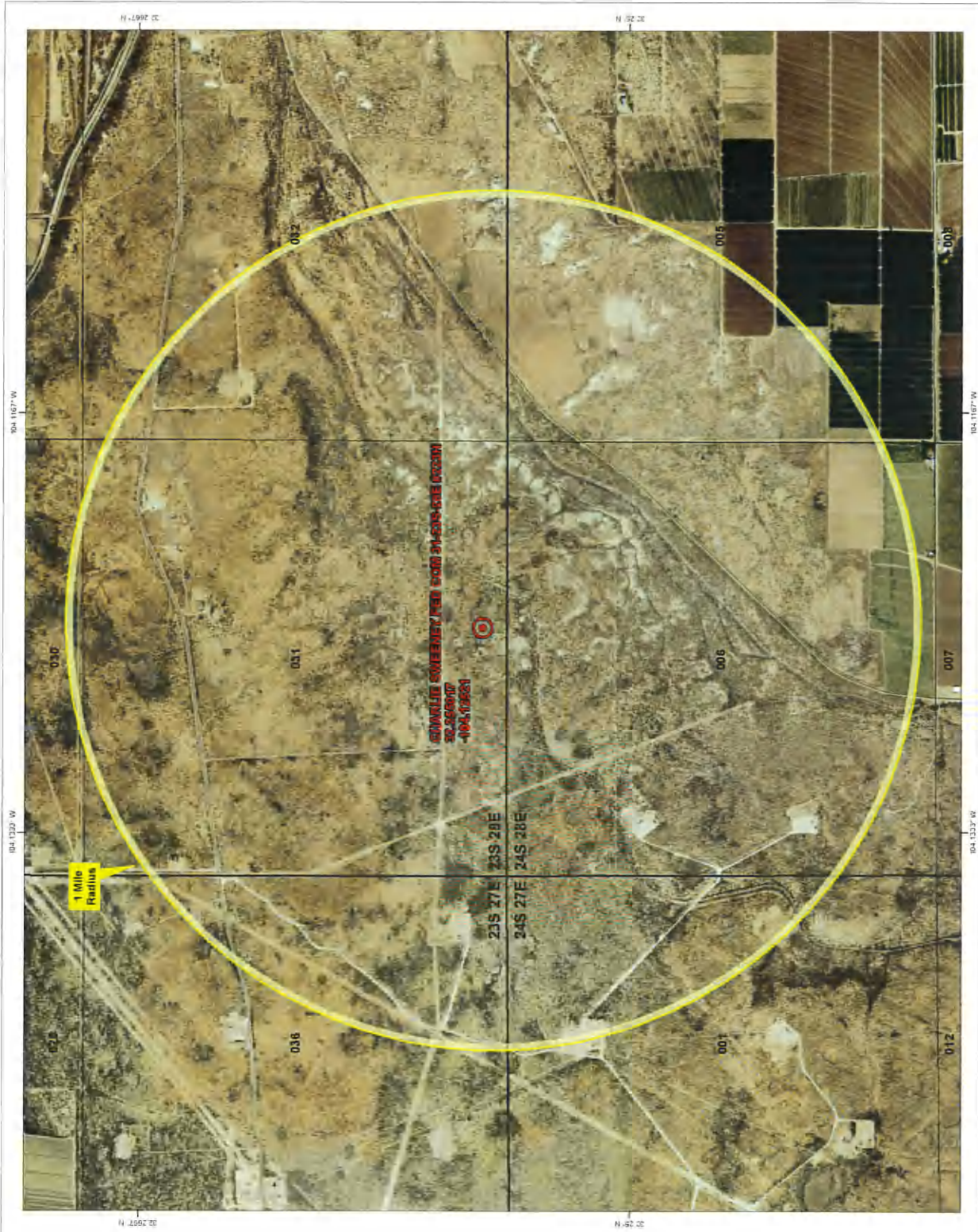
Surface Hole Location



NAD 1927 New Mexico State Plane East
 FIPS 3001 Feet



Prepared by Permits West, Inc., May 25, 2016
 for Matador Production Company



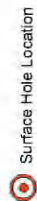
CHARLIE SWEENEY FED COM 31-23S-28E (PDSM)
 32-265907
 -104.076261

1 Mile Radius

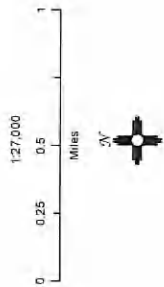
Matador Production Company

CHARLIE SWEENEY FED COM
 31-23S-28E #223H
 H-S Contingency Plan:
 2 Mile Radius Map

Section 31, Township 23S, Range 28E
 Eddy County, New Mexico



Surface Hole Location



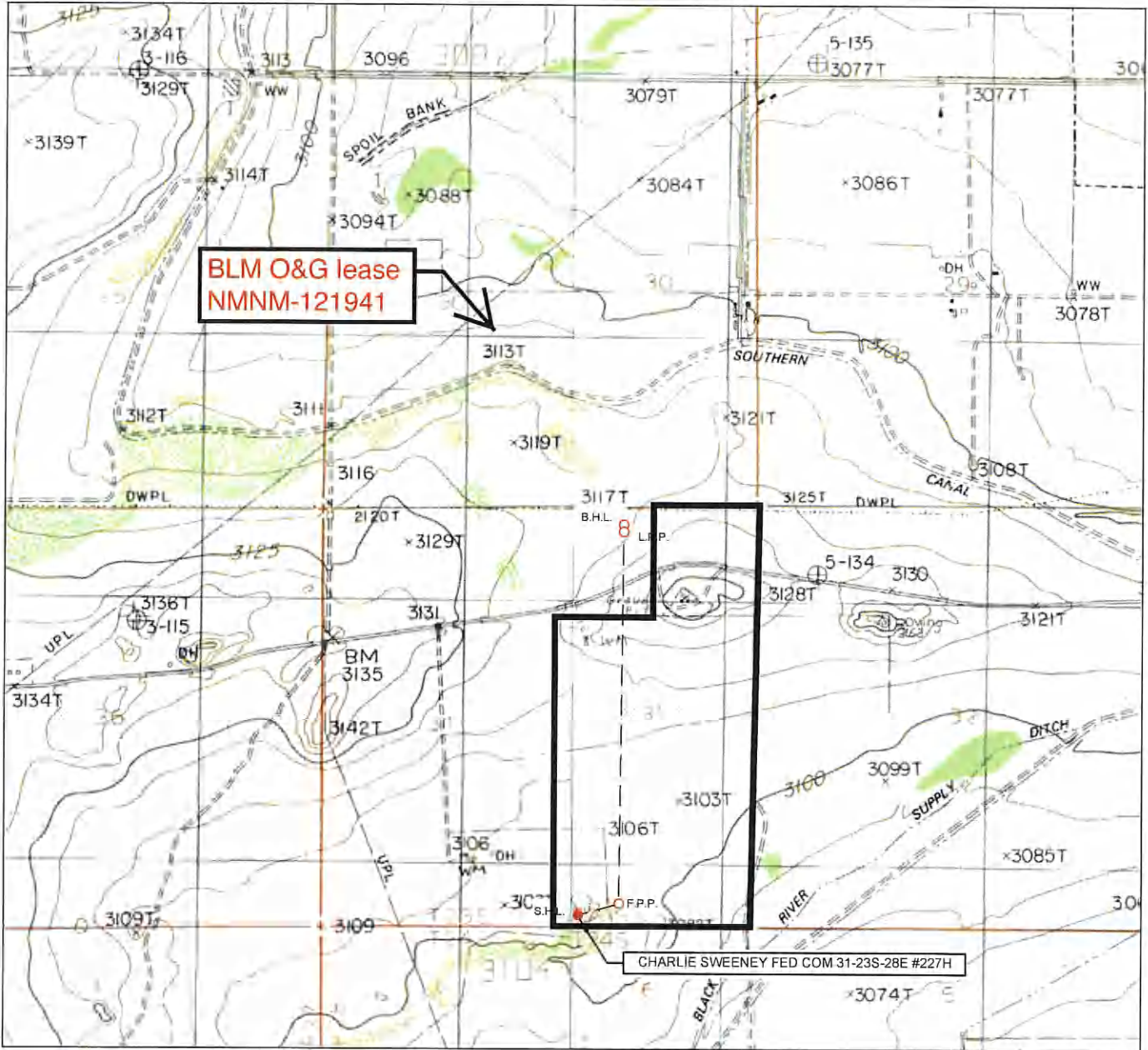
NAD 1927 New Mexico State Plane East
 FIPS 3001 Feet



Prepared by Permits West, Inc., May 25, 2016
 for Matador Production Company



LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: CHARLIE SWEENEY FED COM 31-23S-28E #227H

SECTION 31 TWP 23-S RGE 28-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM ELEVATION 3111'
 DESCRIPTION 190' FSL & 2160' FEL

LATITUDE N 32.2546332 LONGITUDE W 104.1247363



THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

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 TELEPHONE: (432) 582-1553 OR (800) 757-1553 • FAX (432) 582-1743
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104.20000° W 104.18333° W 104.16667° W 104.15000° W 104.13333° W 104.11667° W 104.10000° W 104.08333° W 104.06667° W WGS84 104.03333° W

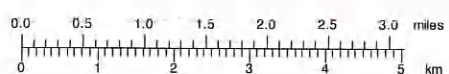
MAP 1

Charlie Sweeney Fed Com 31-23s-28e 227H

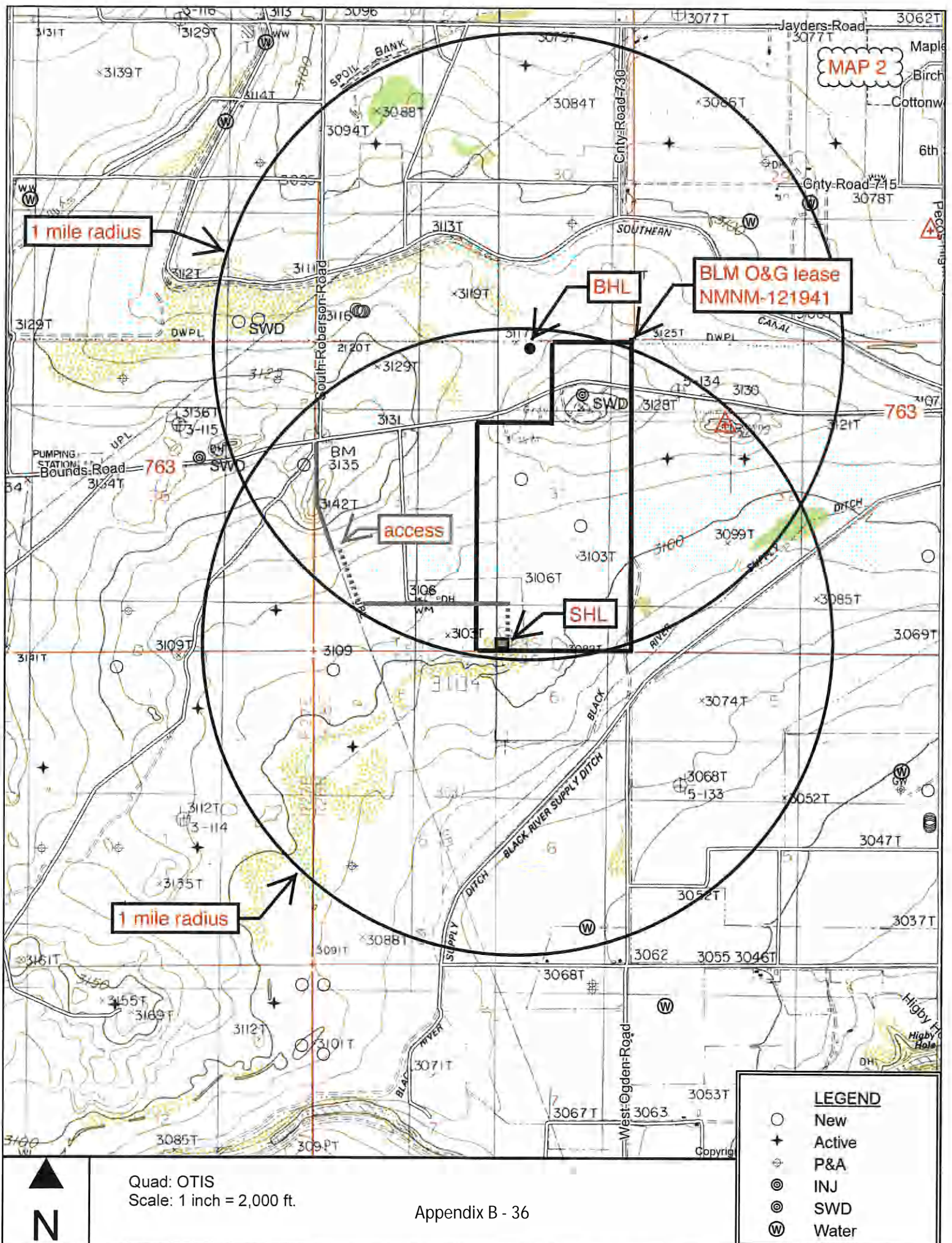
Water well C 00464

Map created with ©2010 National Geographic, ©2005 TeleAtlas, Rel 8/2005

104.20000° W 104.18333° W 104.16667° W 104.15000° W 104.13333° W 104.11667° W 104.10000° W 104.08333° W 104.06667° W WGS84 104.03333° W



05/26/16



763

763

32.2653, -104.12624
32.26502, -104.12621

frac pond

road already upgraded to valve station

3661.69' overhead power line

3750.25' surface water line

valve station (under construction)

32.25906, -104.13405
32.25915, -104.13425

1082.28' new road

upgrade 1/2 mile existing road

32.25661, -104.13292
32.25658, -104.13292

104.12606

32.25666, -104.12597

32.25644, -104.1261

32.25658, -104.12588

32.25633, -104.12457

319.52' new road

32.25546, -104.12449

32.25588, -104.12588

Charlie Sweeney Fed Com 31-23s-28e 227H

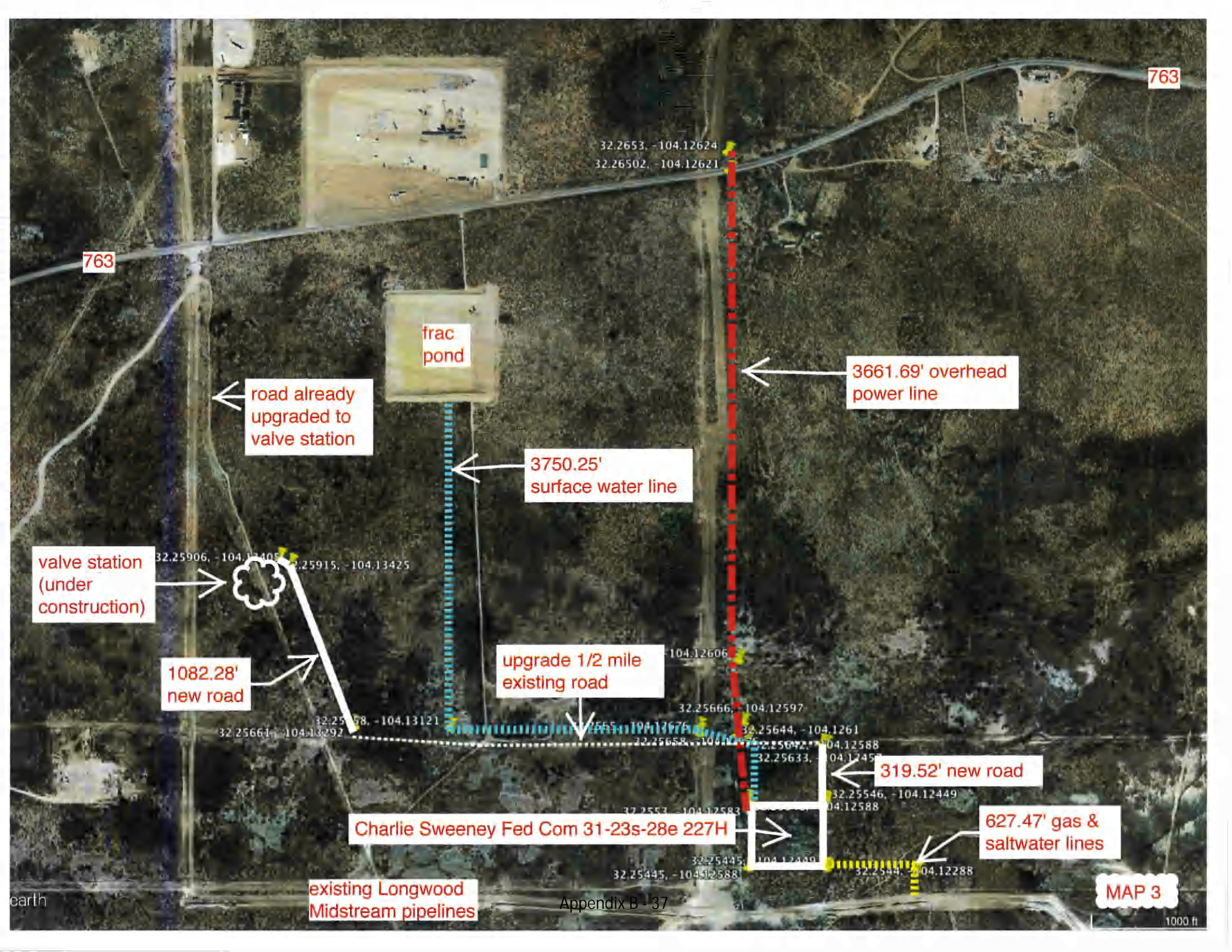
627.47' gas & saltwater lines

existing Longwood Midstream pipelines

MAP 3

1000 ft

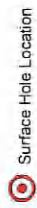
earth



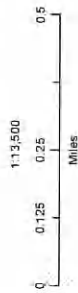
Matador Production Company

CHARLIE SWEENEY FED COM
 31-23S-28E #227H
 H+S Contingency Plan:
 1 Mile Radius Map

Section 31, Township 23S, Range 28E
 Eddy County, New Mexico



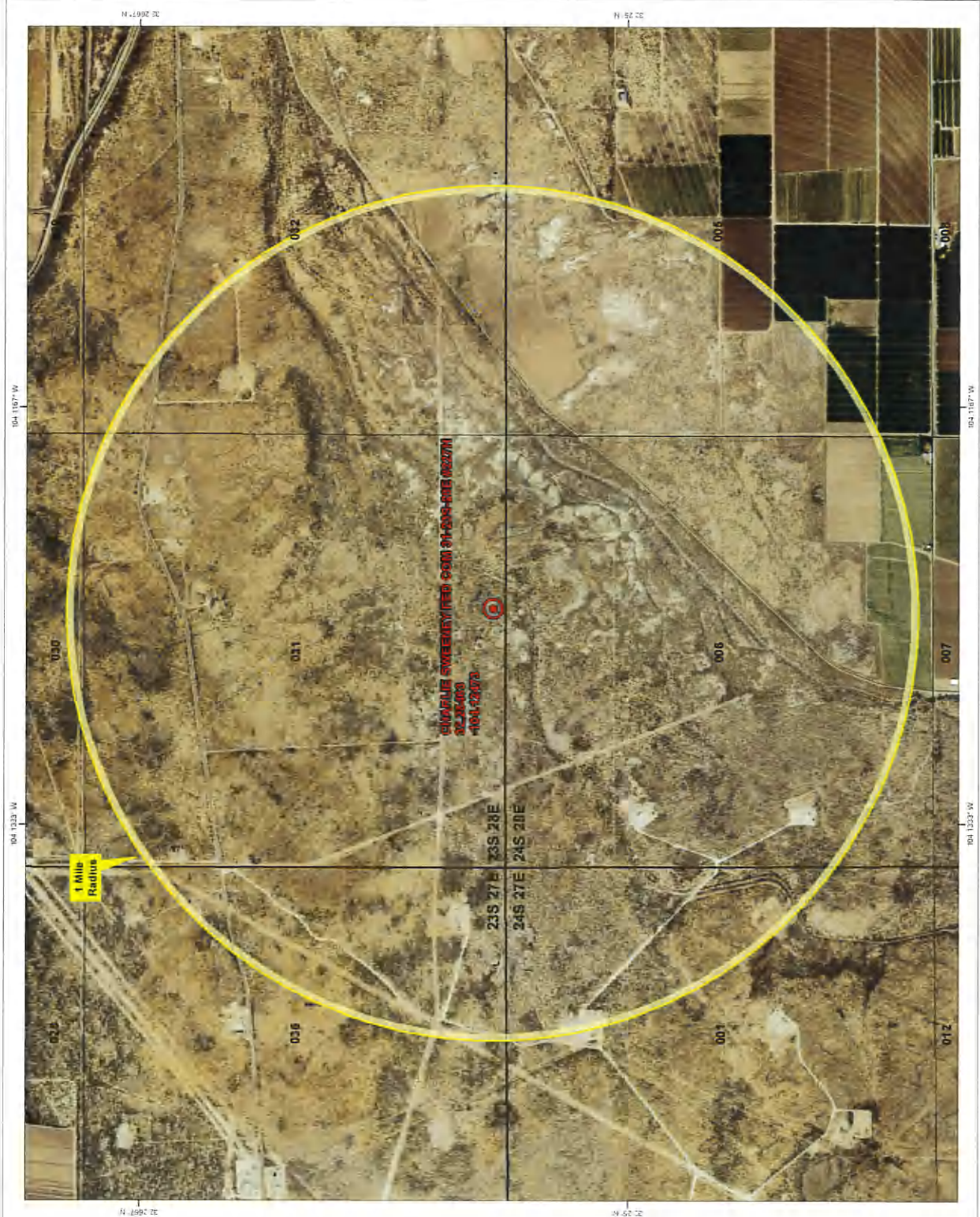
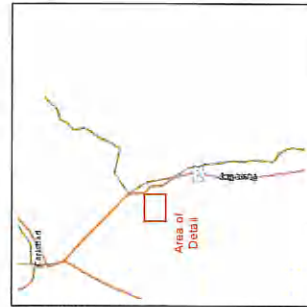
Surface Hole Location



NAD 1987 New Mexico State Plane East
 FIPS 3001 Feet



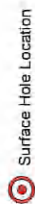
Prepared by Permits West, Inc. May 25, 2016
 for Matador Production Company



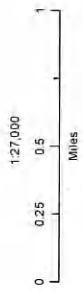
Matador Production Company

CHARLIE SWEENEY FED COM
 31-23S-28E #227H
 H/S Contingency Plan:
 2 Mile Radius Map

Section 31, Township 23S, Range 28E
 Eddy County, New Mexico



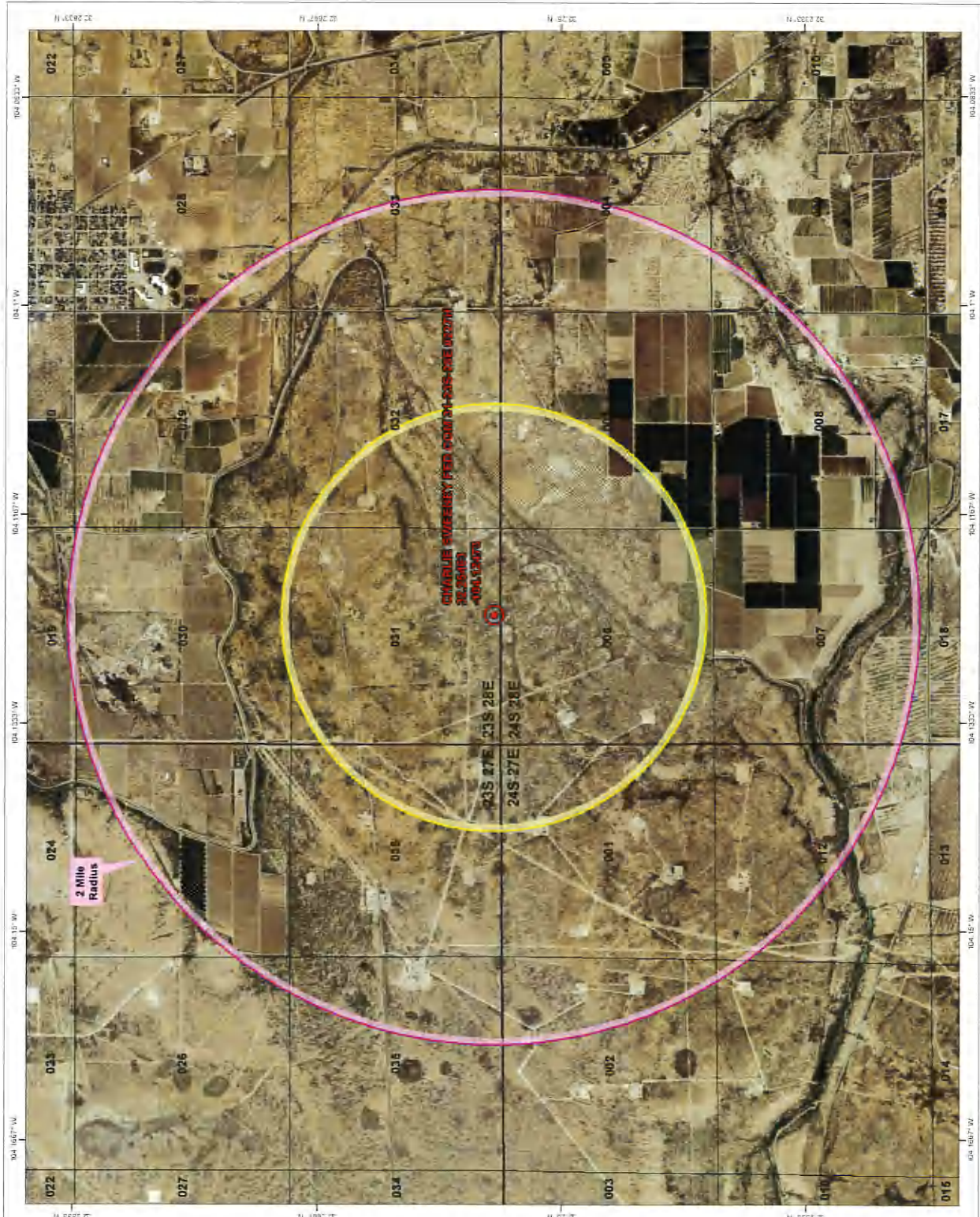
Surface Hole Location



NAD 1927 New Mexico State Plane East
 FIPS 3001 Feet



Prepared by Permits West, Inc., May 25, 2016
 for Matador Production Company



East Pad: Charlie Sweeney Federal RB 31-23S-28E 124H, 204H, 208H, 224H, and 228H wells

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

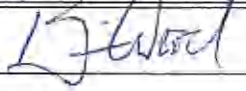
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM-121941
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator MATADOR PRODUCTION COMPANY		7. If Unit or CA Agreement, Name and No. N/A
3a. Address 5400 LBJ FREEWAY, SUITE 1500 DALLAS, TX 75240	3b. Phone No. (include area code) 972 371 5241	8. Lease Name and Well No. Charlie Sweeney Fed. 31-23s-28e 124H
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 188' FSL & 605' FEL At proposed prod. zone 240' FNL & 660' FEL		9. API Well No. 30-015-
14. Distance in miles and direction from nearest town or post office* 2 AIR MILES SW OF LOVING, NM		10. Field and Pool, or Exploratory CULEBRA BLUFF; BONE SPRING, S
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) SHL: 188' BHL: 240'	16. No. of acres in lease 280	11. Sec., T. R. M. or Blk. and Survey or Area SESE 31-23S-28E NMPM
17. Spacing Unit dedicated to this well E2E2 31-23S-28E	18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. SHL: 30' (Sween. 208H) BHL: 684' (Watts Fed 1)	12. County or Parish EDDY
19. Proposed Depth TVD: 7902' MD: 12663'	20. BLM/BIA Bond No. on file BLM NMB-001079	13. State NM
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3101' UNGRADED	22. Approximate date work will start* 09/01/2016	23. Estimated duration 3 MONTHS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature 	Name (Printed/Typed) BRIAN WOOD (PHONE: 505 466-8120)	Date 07/05/2016
Title CONSULTANT		(FAX: 505 466-9682)
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

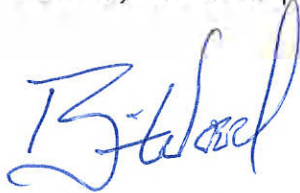
July 3, 2016

To Who it May Concern:

Matador Resources Company has a private surface owner agreement with Vickie Connally (R211 Ash Road, Loving NM 88256) for the Charlie Sweeney Fed 31-23s-28e 124H well site, pipelines, power line, and road in NWSW, S2S2, SWNE, & NWSE Section 31, T. 23 S., R. 28 E. and pipelines in Lot 2 Section 6, T. 24 S., R. 28 E.; all Eddy County, NM.

Matador Resources Company has a private surface owner agreement with Jacob & Merrellee Moore (1011 Bounds Road, Loving NM 88256) for their portion (NWNE 31-23s-28e) of the power line.

Matador Resources Company has a private surface owner agreement with Longwood Midstream Delaware LLC (5400 LBJ Freeway, Suite 1500, Dallas TX 75240) for their portion (Lot 2 31-23s-28e) of the water (Fast Line) pipeline.



Brian Wood

District I
1625 N French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S St. Francis Dr., Sante Fe, NM 87502
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Sante Fe, NM 87505

FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT *2nd Bone Spring sand

¹ API Number 30-015-	² Pool Code 15011	³ Pool Name CULEBRA BLUFF, BONE SPRING*, SOUTH
⁴ Property Code	⁵ Property Name CHARLIE SWEENEY FED	⁶ Well Number 31-23S-28E #124H
⁷ GRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 3101'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	31	23-S	28-E	-	188'	SOUTH	605'	EAST	EDDY

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	31	23-S	28-E	-	240'	NORTH	660'	EAST	EDDY

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
---	-------------------------------	----------------------------------	-------------------------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16

LAST PERFORATION POINT
NEW MEXICO EAST
NAD 1927
X=566026
Y=461193
LAT.: N 32.2677566
LONG.: W 104.1197210
NAD 1983
X=607208
Y=461252
LAT.: N 32.2678770
LONG.: W 104.1202166

BOTTOM HOLE LOCATION
NEW MEXICO EAST
NAD 1927
X=566026
Y=461283
LAT.: N 32.2680040
LONG.: W 104.1197179
NAD 1983
X=607209
Y=461342
LAT.: N 32.2681244
LONG.: W 104.1202135

FIRST PERFORATION POINT
NEW MEXICO EAST
NAD 1927
X=565986
Y=456560
LAT.: N 32.2550213
LONG.: W 104.1198791
NAD 1983
X=607169
Y=456619
LAT.: N 32.2551418
LONG.: W 104.1203743

SURFACE LOCATION
NEW MEXICO EAST
NAD 1927
X=566040
Y=456478
LAT.: N 32.2546323
LONG.: W 104.1197064
NAD 1983
X=607223
Y=456478
LAT.: N 32.2547528
LONG.: W 104.1202015

17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Brian Wood **7-3-16**
Signature Date

BRIAN WOOD
Printed Name

brian@permitswest.com
E-mail Address

18 SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true to the best of my belief.

12/04/2015
Date of Survey

Signature and Seal of Professional Surveyor

Certificate Number

SCALE: 1" = 1000'
 0' 500' 1000'



SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO



FND. BRASS CAP,
 U.S. G.L.O. SUR.



25 30

S 89°51'09" E, 2666.16'

S 89°50'39" E, 2672.41'

30 29

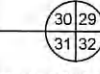


FND. BRASS CAP,
 U.S. G.L.O. SUR.

N 00°25'58" E, 2658.36'

BOTTOM HOLE LOCATION
 NEW MEXICO EAST
 NAD 1927
 X=566026
 Y=461283
 LAT.: N 32.2680040
 LONG.: W 104.1197179
 NAD 1983
 X=607209
 Y=461342
 LAT.: N 32.2681244
 LONG.: W 104.1202135

LAST PERFORATION POINT
 NEW MEXICO EAST
 NAD 1927
 X=566026
 Y=461193
 LAT.: N 32.2677566
 LONG.: W 104.1197210
 NAD 1983
 X=607208
 Y=461252
 LAT.: N 32.2678770
 LONG.: W 104.1202166



FND. BRASS CAP,
 U.S. G.L.O. SUR.

IRON ROD
 FOUND

FIRST PERFORATION POINT
 NEW MEXICO EAST
 NAD 1927
 X=565986
 Y=456560
 LAT.: N 32.2650213
 LONG.: W 104.1198791
 NAD 1983
 X=607169
 Y=456619
 LAT.: N 32.2551418
 LONG.: W 104.1203743

SURFACE LOCATION
 NEW MEXICO EAST
 NAD 1927
 X=566040
 Y=456419
 LAT.: N 32.2546323
 LONG.: W 104.1197064
 NAD 1983
 X=607223
 Y=456478
 LAT.: N 32.2547528
 LONG.: W 104.1202015
 ELEV = 3101'



FND. BRASS CAP,
 U.S. G.L.O. SUR.

N 00°25'58" E, 2658.40'

330' 330'

S 00°29'26" W, 5269.44'

S 89°52'22" W, 2667.90'

S 89°50'35" W, 2665.53'



FND. BRASS CAP,
 U.S. G.L.O. SUR.



FND. BRASS CAP,
 U.S. G.L.O. SUR.
 1942

LEASE NAME & WELL NO.: CHARLIE SWEENEY FED COM 31-23S-28E #124H

SECTION 31 TWP 23-S RGE 28-E SURVEY N.M.P.M.

COUNTY EDDY STATE NM

DESCRIPTION 188' FSL & 605' FEL

DISTANCE & DIRECTION

FROM INT. OF US-285 & W CEDAR ST. GO SOUTH ON US-285. ±1.0 MILE,
 THENCE WEST (RIGHT) ON HIGBY HOLE RD. ±0.4 MILES, THENCE WEST
 (RIGHT) ON BOUNDS RD. ±1.8 MILES, THENCE SOUTH (LEFT) ON
 PROPOSED RD. ±1.2 MILES TO A POINT ±300 FEET NORTHWEST OF
 THE LOCATION.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID
 BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE
 NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND
 UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF
 SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE
 AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS
 NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.



Michael Blake Brown, P.S. No. 18329
 DECEMBER 7, 2015



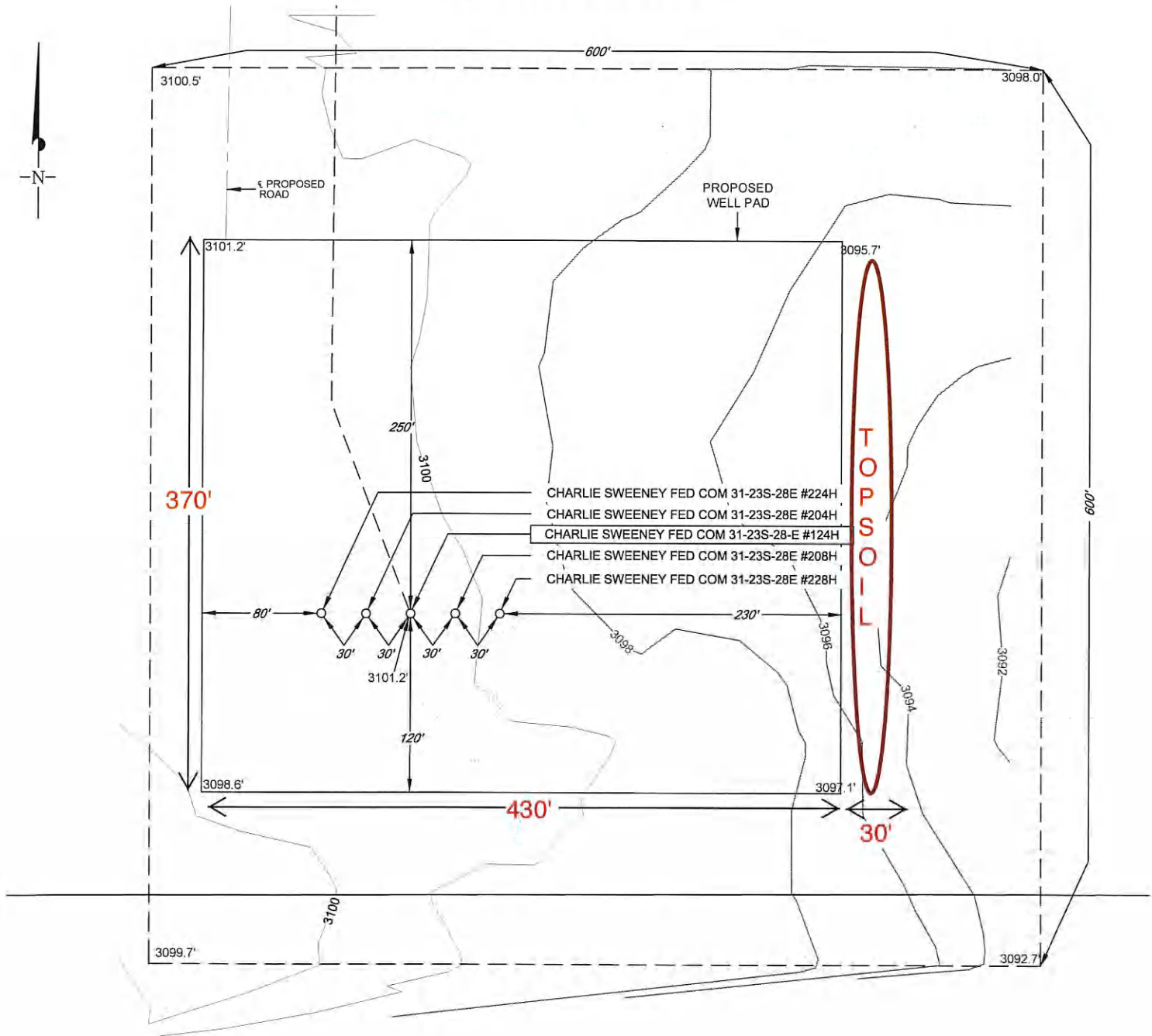
TOPOGRAPHIC
 LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
 TELEPHONE (817) 744-7512 • FAX (817) 744-7548
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE (432) 682-1553 OR (800) 767-1853 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM



MAP 5

SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



LEGEND

- SECTION LINE
- ARCH SITE
- PROPOSED ROAD

LEASE NAME & WELL NO.: CHARLIE SWEENEY FED 31-23S-28E #124H
 #124H LATITUDE N 32.2546323 #124H LONGITUDE W 104.1197064

SCALE: 1" = 100'
 0' 50' 100'

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET

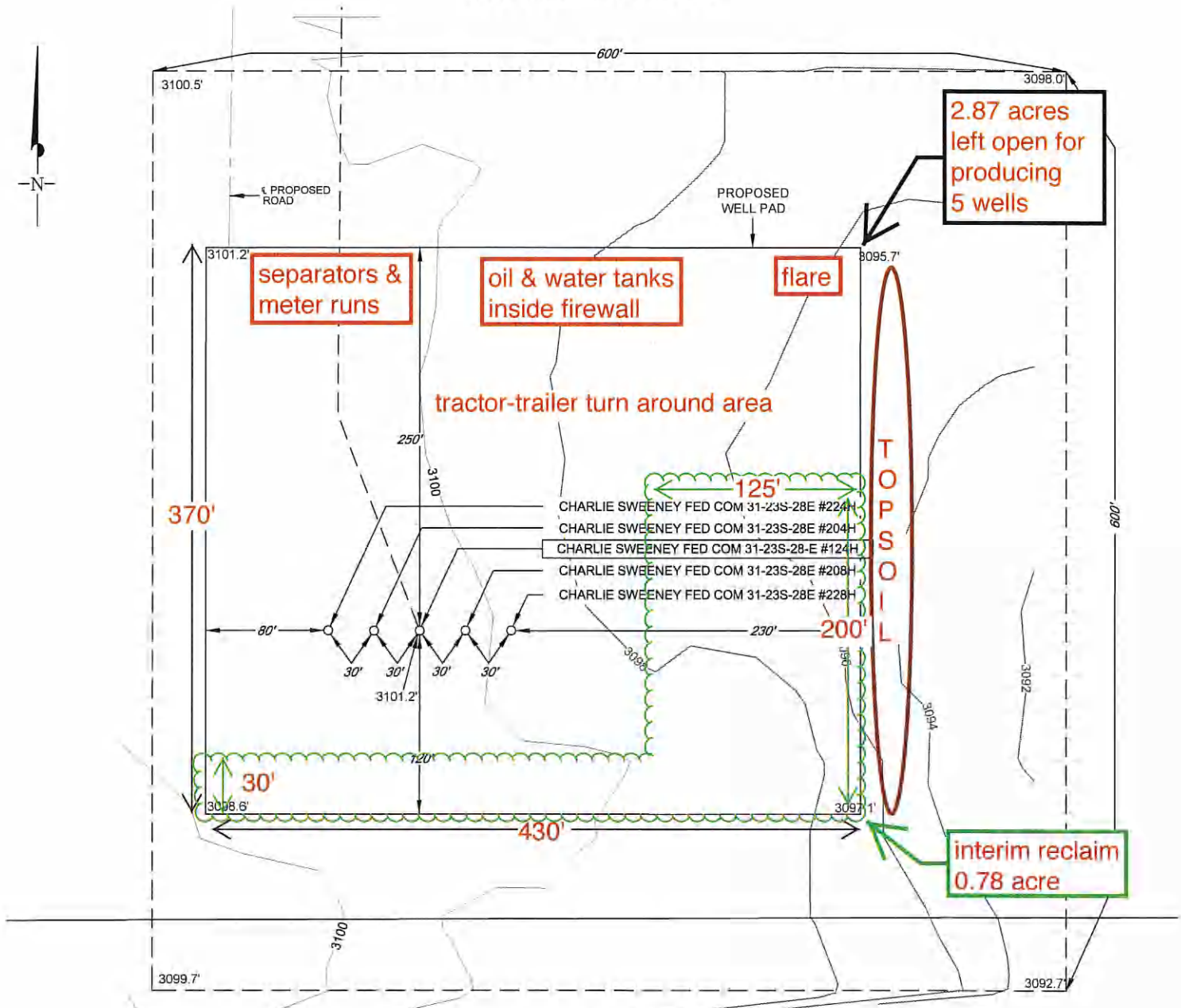
THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

TOPOGRAPHIC
 LOYALTY INNOVATION LEGACY
 1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
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 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
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 WWW.TOPOGRAPHIC.COM



MAP 5

SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



PRODUCTION FACILITY & INTERIM RECLAMATION DIAGRAM

LEGEND

- SECTION LINE
- - - ARCH SITE
- - - PROPOSED ROAD

LEASE NAME & WELL NO.: CHARLIE SWEENEY FED 31-23S-28E #124H

#124H LATITUDE N 32.2546323 #124H LONGITUDE W 104.1197064

SCALE: 1" = 100'
0' 50' 100'

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET

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TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

Full well name will be:
Charlie Sweeney Fed Com 31-23s-28a

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

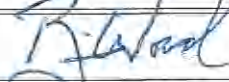
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM-121941
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator MATADOR PRODUCTION COMPANY		7. If Unit or CA Agreement, Name and No. will comm. w/ fee lease
3a. Address 5400 LBJ FREEWAY, SUITE 1500 DALLAS, TX 75240		8. Lease Name and Well No. Charlie Sweeney FC 31-23s-28e 204H
3b. Phone No. (include area code) 972 371 5241		9. API Well No. 30-015-
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 188' FSL & 635' FEL At proposed prod. zone 240' FNL & 990' FEL		10. Field and Pool, or Exploratory WILDCAT; WOLFCAMP Y
14. Distance in miles and direction from nearest town or post office* 2 AIR MILES SW OF LOVING, NM		11. Sec., T. R. M. or Blk. and Survey or Area SESE 31-23S-28E NMPM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) SHL: 188' BHL: 240'	16. No. of acres in lease: BLM lease = 280 acres comm. area = 320 acres	17. Spacing Unit dedicated to this well E2 31-23S-28E
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. SHL: 30' (Sweeney 124) BHL: 330' (ditto)	19. Proposed Depth TVD: 9532' MD: 14299'	20. BLM/BIA Bond No. on file BLM NMB-001079
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3101' UNGRADED	22. Approximate date work will start* 10/01/2016	23. Estimated duration 3 MONTHS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature 	Name (Printed Typed) BRIAN WOOD (PHONE: 505 466-8120)	Date 07/11/2016
Title CONSULTANT	(FAX: 505 466-9682)	
Approved by (Signature)	Name (Printed Typed)	Date
Title	Office	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

July 11, 2016

To Who it May Concern:

Matador Resources Company has a private surface owner agreement with Vickie Connally (R211 Ash Road, Loving NM 88256) for the Charlie Sweeney Fed 31-23s-28e 204H well site, pipelines, power line, and road in NWSW, S2S2, SWNE, & NWSE Section 31, T. 23 S., R. 28 E. and pipelines in Lot 2 Section 6, T. 24 S., R. 28 E.; all Eddy County, NM.

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State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Sante Fe, NM 87505

FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-		² Pool Code		³ Pool Name WILDCAT; WOLFCAMP Y	
⁴ Property Code		⁵ Property Name CHARLIE SWEENEY FED COM 31-23S-28E			⁶ Well Number #204H
⁷ GRID No. 228937		⁸ Operator Name MATADOR PRODUCTION COMPANY			⁹ Elevation 3101'

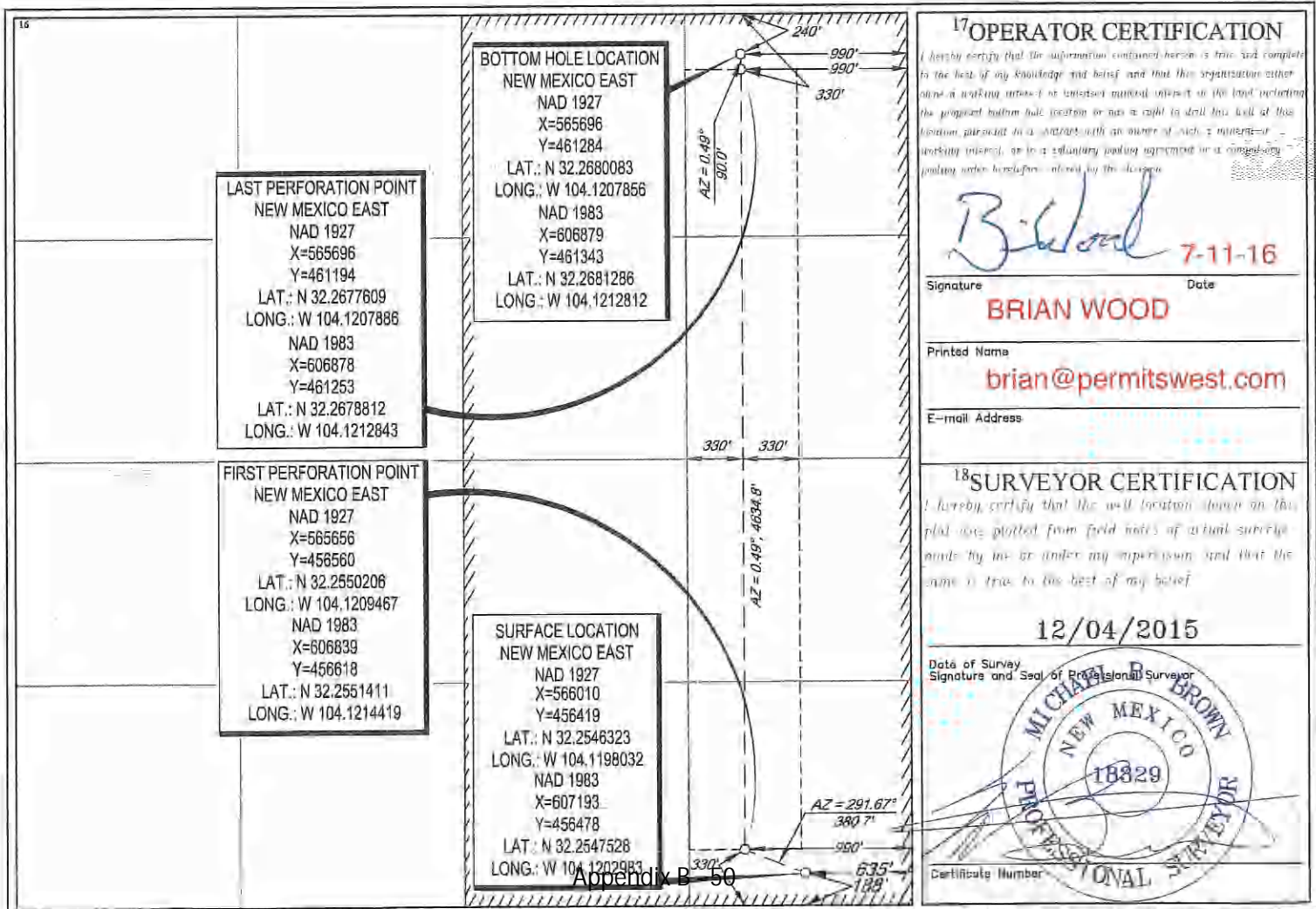
¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	31	23-S	28-E	-	188'	SOUTH	635'	EAST	EDDY

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	31	23-S	28-E	-	240'	NORTH	990'	EAST	EDDY

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code C	¹⁵ Order No.
---	-------------------------------	--	-------------------------

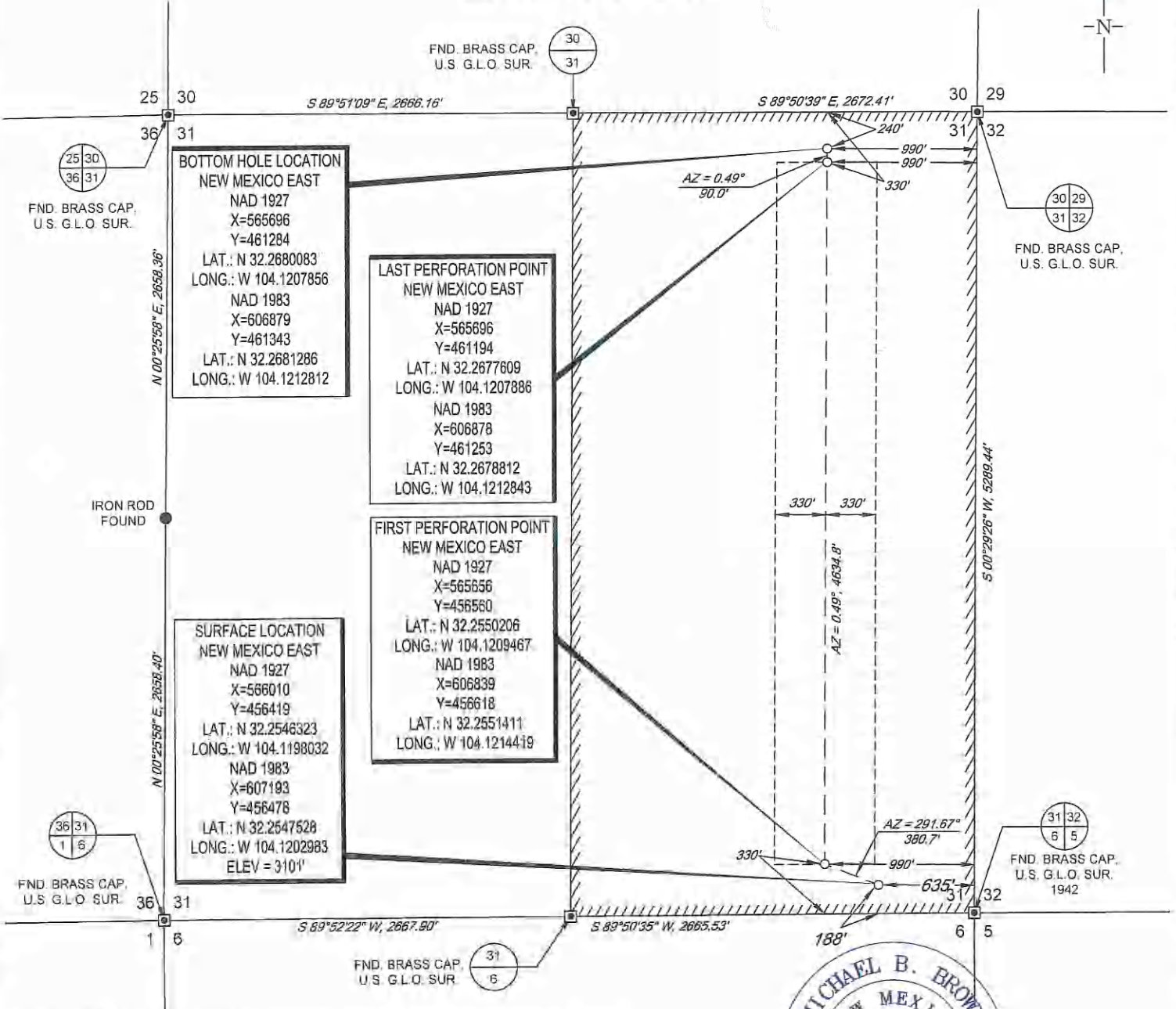
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



SCALE 1" = 1000'
0' 500' 1000'



SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

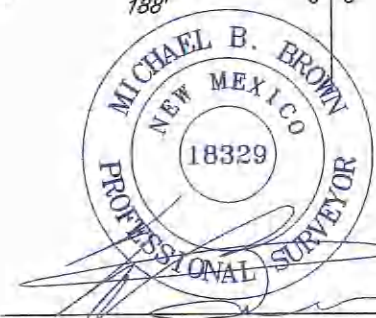


LEASE NAME & WELL NO.: CHARLIE SWEENEY FED COM 31-23S-28E #204H
SECTION 31 TWP 23-S RGE 28-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 188' FSL & 635' FEL

DISTANCE & DIRECTION
FROM INT. OF US-285 & W CEDAR ST. GO SOUTH ON US-285 ±1.0 MILE,
THENCE WEST (RIGHT) ON HIGBY HOLE RD. ±0.4 MILES, THENCE WEST
(RIGHT) ON BOUNDS RD. ±1.8 MILES, THENCE SOUTH (LEFT) ON
PROPOSED RD. ±1.2 MILES TO A POINT ±300 FEET NORTHWEST OF
THE LOCATION.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID
BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE
NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND
UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUNDED AT THE TIME OF
SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE
AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS
NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.



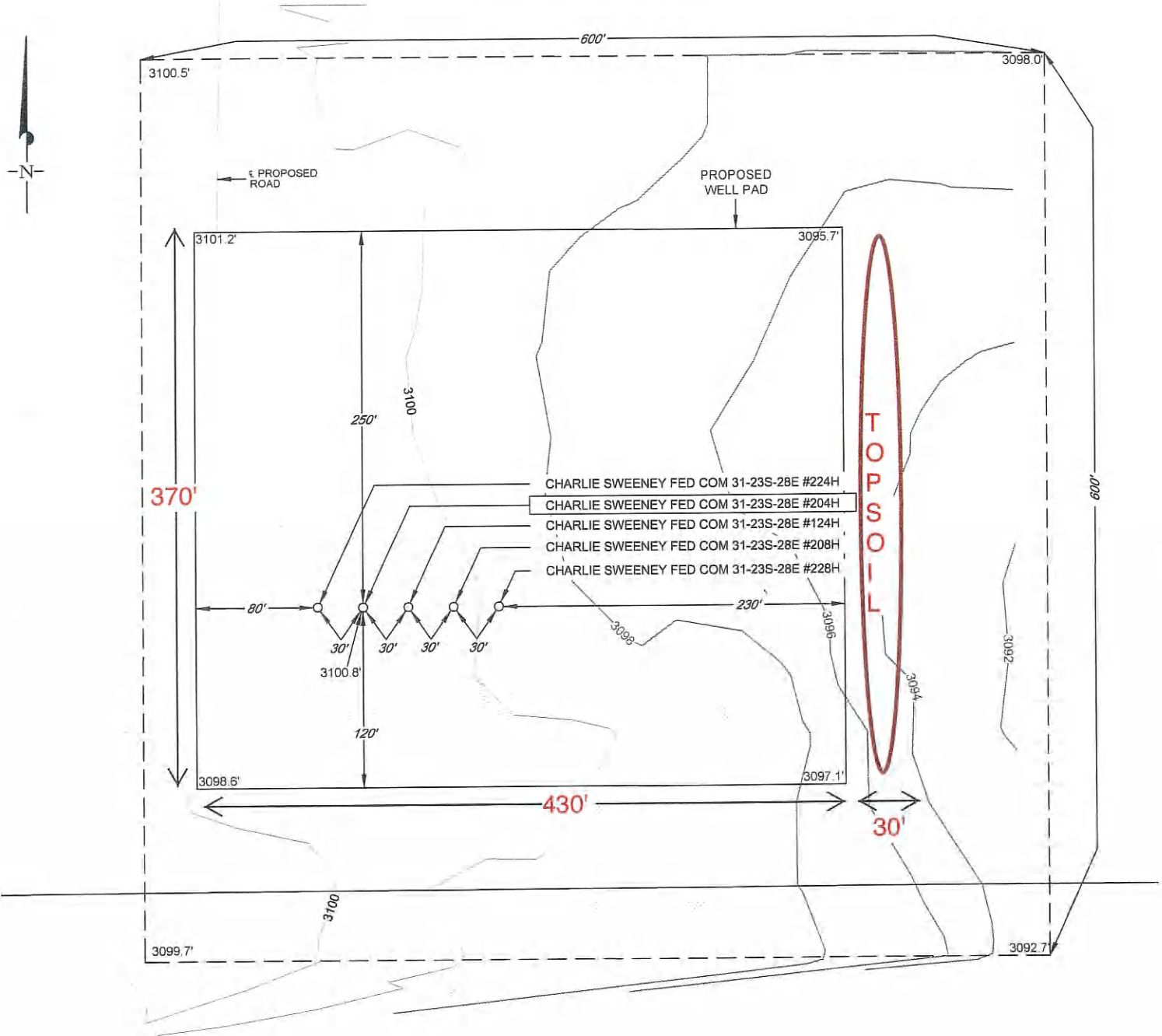
Michael Blake Brown, P.S. No. 18329
DECEMBER 30, 2015

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY Ste. 197 • FT WORTH TEXAS 76140
TELEPHONE (817) 744-7512 • FAX (817) 744-7548
3903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE (432) 882-1533 OR (800) 767-1653 • FAX (432) 882-1743
WWW.TOPOGRAPHIC.COM



MAP 5

SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



LEGEND

- SECTION LINE
- ARCH SITE
- PROPOSED ROAD

LEASE NAME & WELL NO.: CHARLIE SWEENEY FED COM 31-23S-28E #204H
 #204H LATITUDE N 32.2546323 #204H LONGITUDE W 104.1198032

SCALE 1" = 100'
 0 50 100'

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

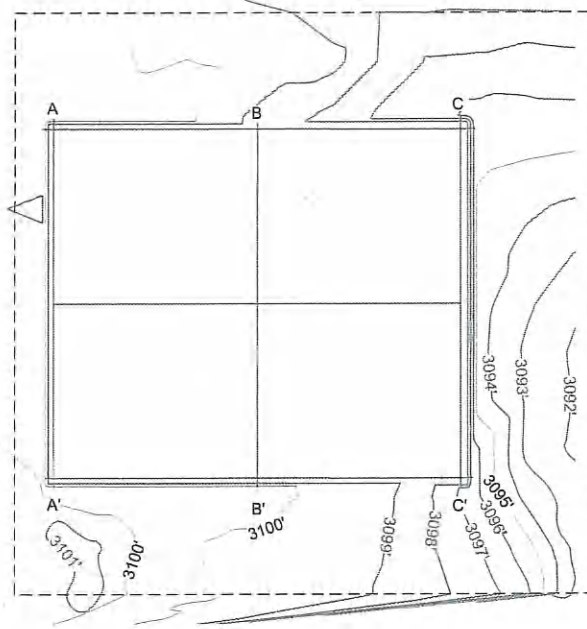
TOPOGRAPHIC
 LOYALTY INNOVATION LEGACY
 1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM

EXHIBIT "A"

SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

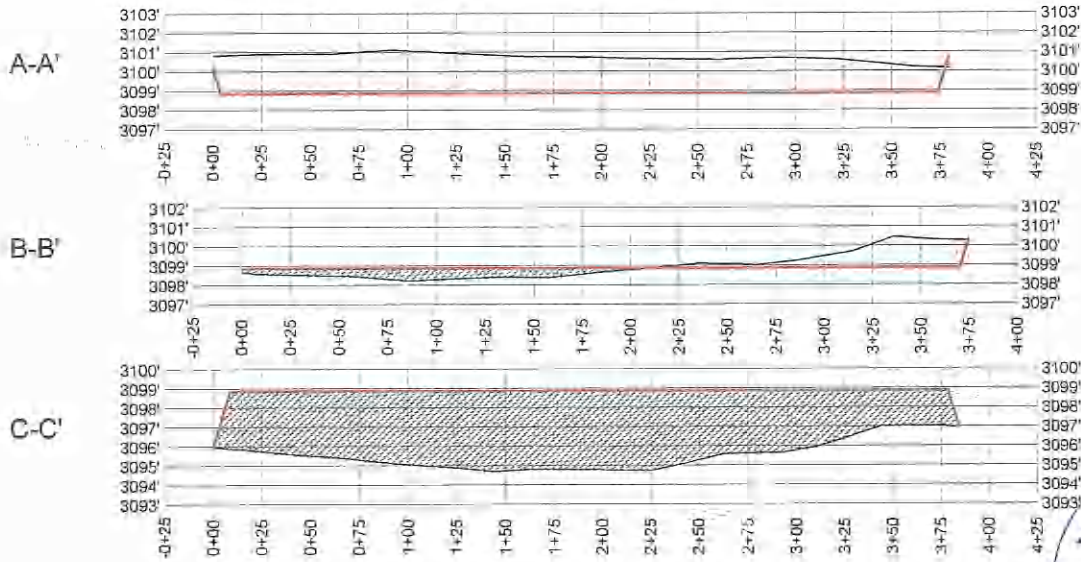
SCALE: 1" = 200'
0' 100' 200'

MAP 6



Top of pad elevation: 3098.8544
Cut Slope: 33.33% 3.00:1 18.43°
Fill Slope: 33.33% 3.00:1 18.43°
Balance Tolerance (C.Y.): 0.00
Cut Swell Factor: 1.00
Fill Shrink Factor: 1.00

Pad Earthwork Volumes
Cut: 139,546.2 C.F., 5,168.38 C.Y.
Fill: 139,546.2 C.F., 5,168.38 C.Y.
Balance Export: 0.0 C.F., 0.00 C.Y.
Area: 169247.4 Sq.Ft., 3.885 Acres



Horizontal Scale = 1.50
Vertical Scale = 1.5



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 78140
TELEPHONE (817) 744-7512 • FAX (817) 744-7548
TEXAS FIRM REGISTRATION NO. 10042504
WWW.TOPOGRAPHIC.COM



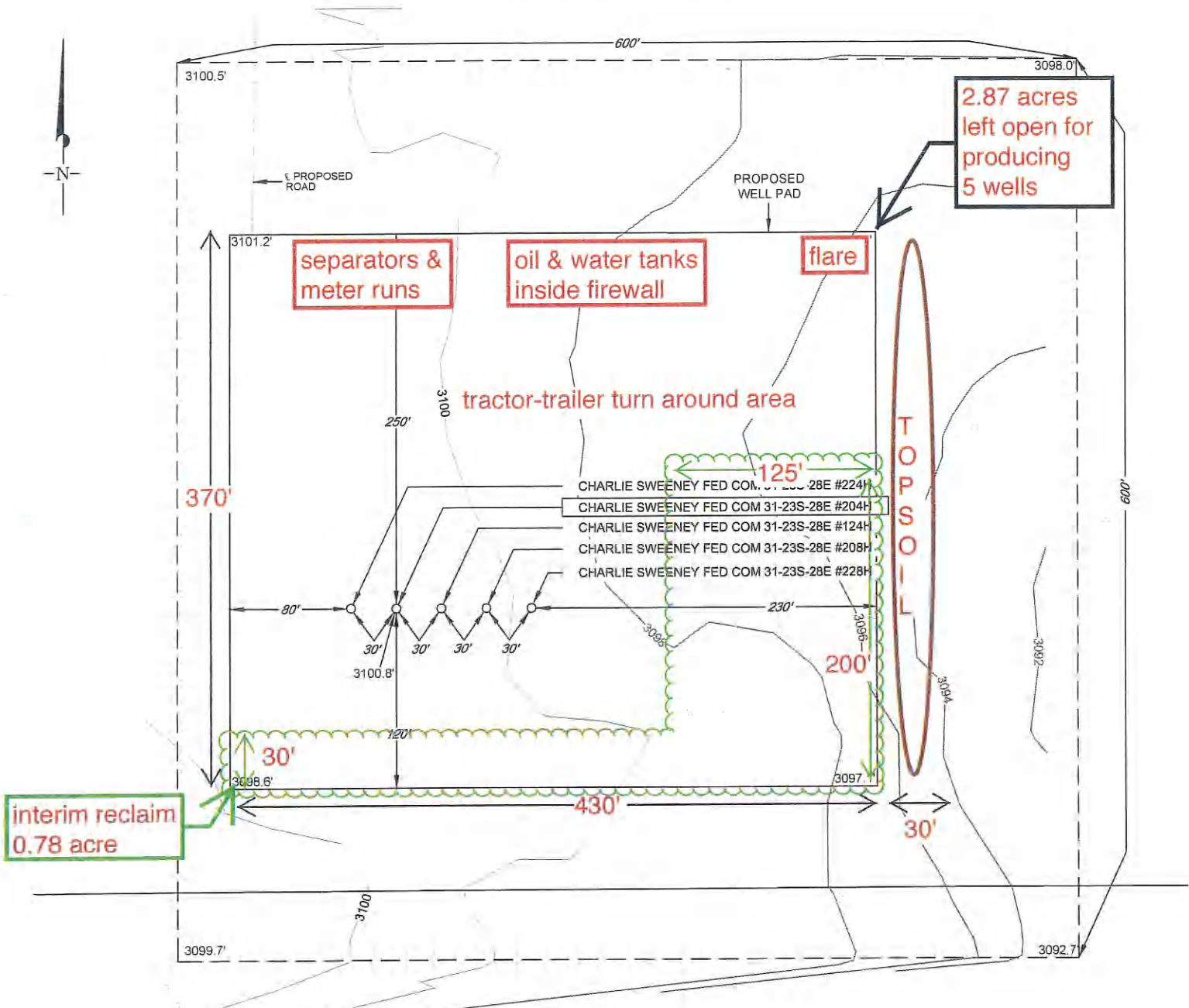
Michael Blake Brown, P.S. No. 18329
JANUARY 27, 2016
Field note description of even date accompanies this plat.

CHARLIE SWEENEY FED COM 31-23S-28E #224H SURFACE PAD SITE PRO	REVISION:	
DATE: 01/27/16	INT	DATE
FILE: [unclear]		
DRAWN BY: GLH		
SHEET: 1 OF 1		

NOTES
1. ORIGINAL DOCUMENT SIZE 8 5/8" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1987
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY. MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR RESOURCE COMPANY. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.



SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



PRODUCTION FACILITY & INTERIM RECLAMATION DIAGRAM

LEGEND

- SECTION LINE
- - - ARCH SITE
- - - PROPOSED ROAD

LEASE NAME & WELL NO.: CHARLIE SWEENEY FED COM 31-23S-28E #204H

#204H LATITUDE N 32.2546323 #204H LONGITUDE W 104.1198032

SCALE: 1" = 100'

0' 50' 100'

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

Full well name will be:
Charlie Sweeney Fed Com 31-23s-28e

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

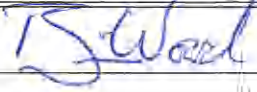
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM-121941
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator MATADOR PRODUCTION COMPANY		7. If Unit or CA Agreement, Name and No. will comm. w/ fee lease
3a. Address 5400 LBJ FREEWAY, SUITE 1500 DALLAS, TX 75240		8. Lease Name and Well No. Charlie Sweeney FC 31-23s-28e 208H
3b. Phone No. (include area code) 972 371 5241		9. API Well No. 30-015-
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 188' FSL & 575' FEL At proposed prod. zone 240' FNL & 330' FEL		10. Field and Pool, or Exploratory WILDCAT; WOLFCAMP Y
14. Distance in miles and direction from nearest town or post office* 2 AIR MILES SW OF LOVING, NM		11. Sec., T. R. M. or Blk. and Survey or Area SESE 31-23S-28E NMPM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) SHL: 188' BHL: 240'	16. No. of acres in lease BLM lease = 280 acres comm. area = 320 acres	12. County or Parish EDDY
17. Spacing Unit dedicated to this well E2 31-23S-28E	13. State NM	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. SHL: 30' (Sweeney 124) BHL: 330' (ditto)	19. Proposed Depth TVD: 9532' MD: 14293'	20. BLM/BIA Bond No. on file BLM NMB-001079
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3101' UNGRADED	22. Approximate date work will start* 12/01/2016	23. Estimated duration 3 MONTHS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature 	Name (Printed Typed) BRIAN WOOD (PHONE: 505 466-8120)	Date 07/04/2016
Title CONSULTANT	(FAX: 505 466-9682)	
Approved by (Signature)	Name (Printed Typed)	Date
Title	Office	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

July 4, 2016

To Who it May Concern:

Matador Resources Company has a private surface owner agreement with Vickie Connally (R211 Ash Road, Loving NM 88256) for the Charlie Sweeney Fed Com 31-23s-28e 208H well site, pipelines, power line, and road in NWSW, S2S2, SWNE, & NWSE Section 31, T. 23 S., R. 28 E. and pipelines in Lot 2 Section 6, T. 24 S., R. 28 E.; all Eddy County, NM.

Matador Resources Company has a private surface owner agreement with Jacob & Merrellee Moore (1011 Bounds Road, Loving NM 88256) for their portion (NWNE 31-23s-28e) of the power line.

Matador Resources Company has a private surface owner agreement with Longwood Midstream Delaware LLC (5400 LBJ Freeway, Suite 1500, Dallas TX 75240) for their portion (Lot 2 31-23s-28e) of the water (Fast Line) pipeline.



Brian Wood

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6179
District IV
1220 S. St. Francis Dr., Sante Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Sante Fe, NM 87505

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-	² Pool Code	³ Pool Name WILDCAT; WOLFCAMP Y
⁴ Property Code	⁵ Property Name CHARLIE SWEENEY FED COM 31-23S-28E	⁶ Well Number #208H
⁷ OGRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 3101'

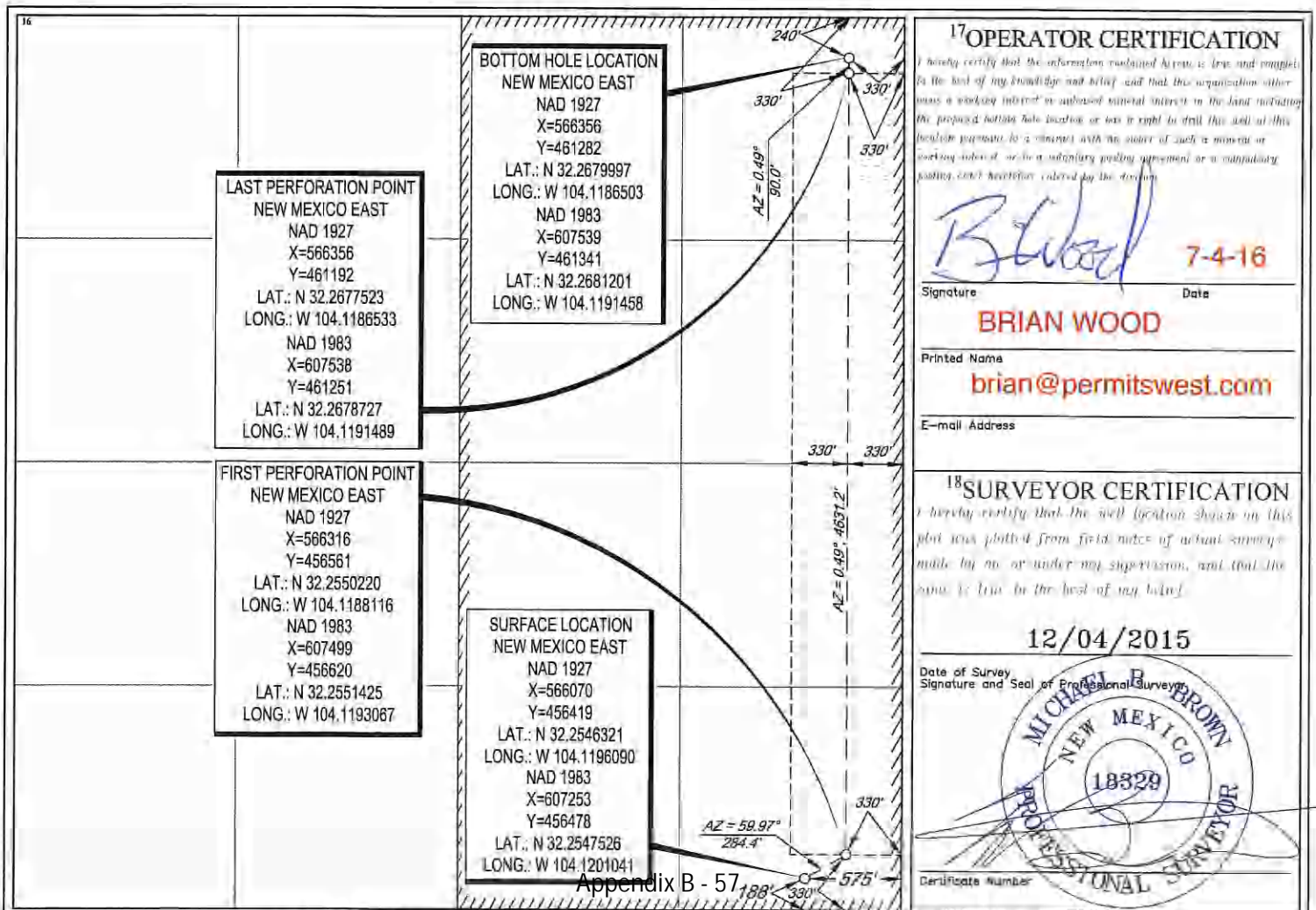
¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	31	23-S	28-E	-	188'	SOUTH	575'	EAST	EDDY

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	31	23-S	28-E	-	240'	NORTH	330'	EAST	EDDY

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code C	¹⁵ Order No.
---	-------------------------------	--	-------------------------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

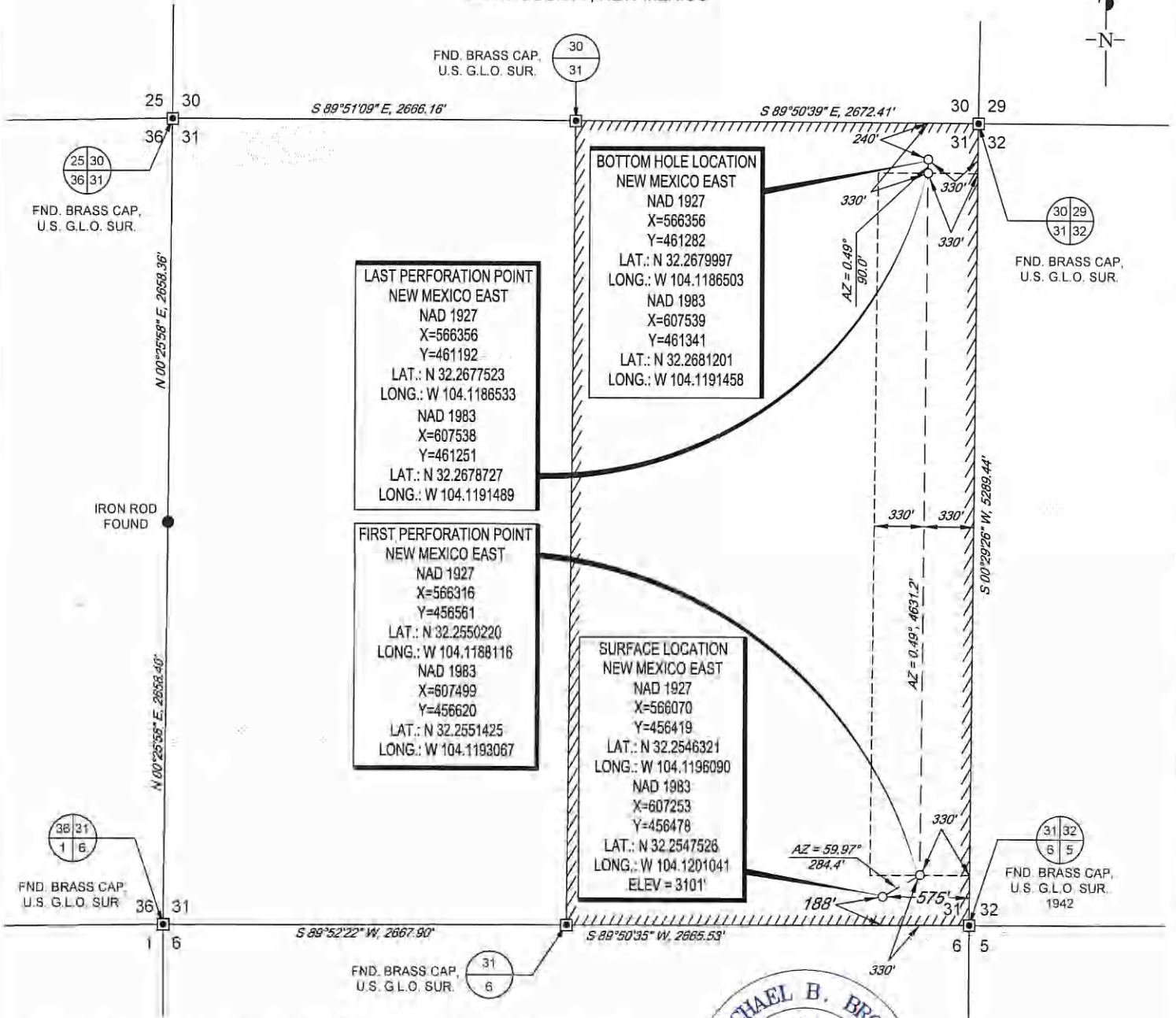


SCALE: 1" = 1000'

0' 500' 1000'



SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: CHARLIE SWEENEY FED COM 31-23S-28E #208H
 SECTION 31 TWP 23-S RGE 28-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM
 DESCRIPTION 188' FSL & 575' FEL

DISTANCE & DIRECTION
 FROM INT. OF US-285 & W CEDAR ST. GO SOUTH ON US-285. ±1.0 MILE,
 THENCE WEST (RIGHT) ON HIGBY HOLE RD. ±0.4 MILES, THENCE WEST
 (RIGHT) ON BOUNDS RD. ±1.8 MILES, THENCE SOUTH (LEFT) ON
 PROPOSED RD. ±1.2 MILES TO A POINT ±300 FEET NORTHWEST OF
 THE LOCATION.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID
 BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE
 NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND
 UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF
 SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE
 AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS
 NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.



Michael Blake Brown, P.S. No. 18329
 DECEMBER 29, 2015

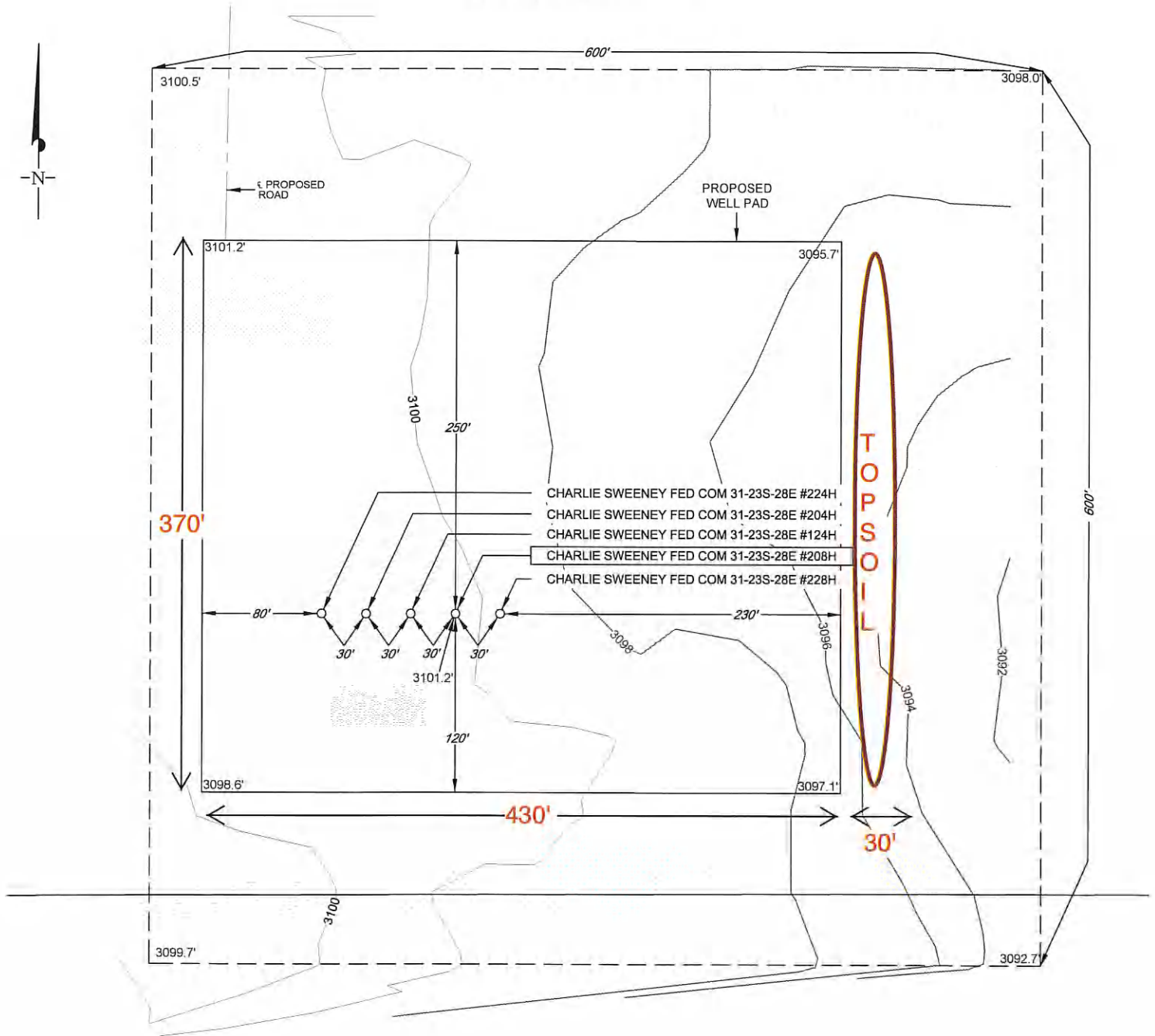


1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
 TELEPHONE (817) 734-7512 • FAX (817) 744-7548
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE (432) 682-1653 OR (800) 797-1852 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM



MAP 5

SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



LEGEND

- SECTION LINE
- - - ARCH SITE
- - - PROPOSED ROAD

LEASE NAME & WELL NO.: CHARLIE SWEENEY FED COM 31-23S-28E #208H

#208H LATITUDE N 32.2546321 #208H LONGITUDE W 104.1196090

SCALE: 1" = 100'
0' 50' 100'

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET

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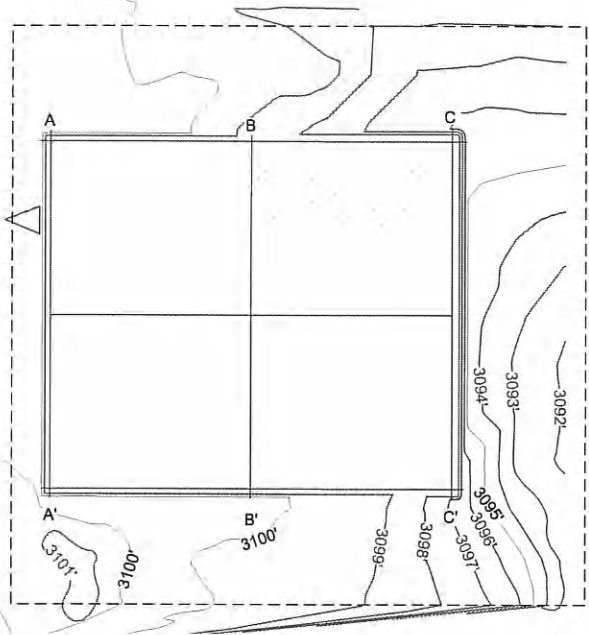
1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

EXHIBIT "A"

SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

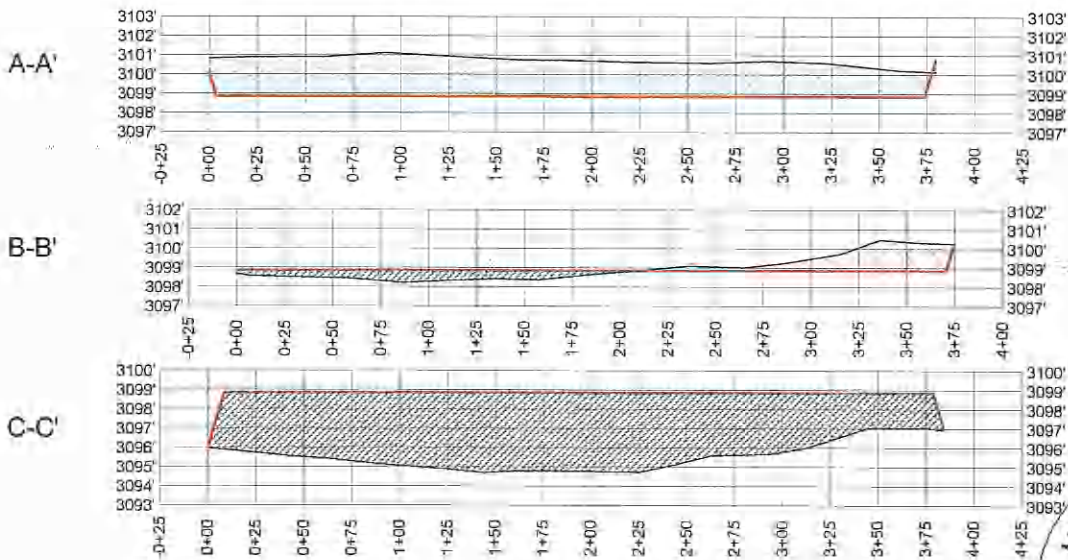
SCALE: 1" = 200'
0' 100' 200'

MAP 6



Top of pad elevation: 3098.8544
Cut Slope: 33.33% 3.00:1 18.43°
Fill Slope: 33.33% 3.00:1 18.43°
Balance Tolerance (C.Y.): 0.00
Cut Swell Factor: 1.00
Fill Shrink Factor: 1.00

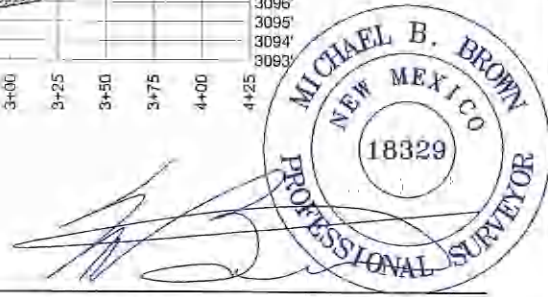
Pad Earthwork Volumes
Cut : 139,546.2 C.F., 5,168.38 C.Y.
Fill: 139,546.2 C.F., 5,168.38 C.Y.
Balance Export: 0.0 C.F., 0.00 C.Y.
Area: 169247.4 Sq.Ft., 3.885 Acres



Horizontal Scale = 1:50
Vertical Scale = 1:5



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX: (817) 744-7543
TEXAS FIRM REGISTRATION NO. 10042504
WWW.TOPOGRAPHIC.COM



Michael Blake Brown, P.S. No. 18329
JANUARY 27, 2016

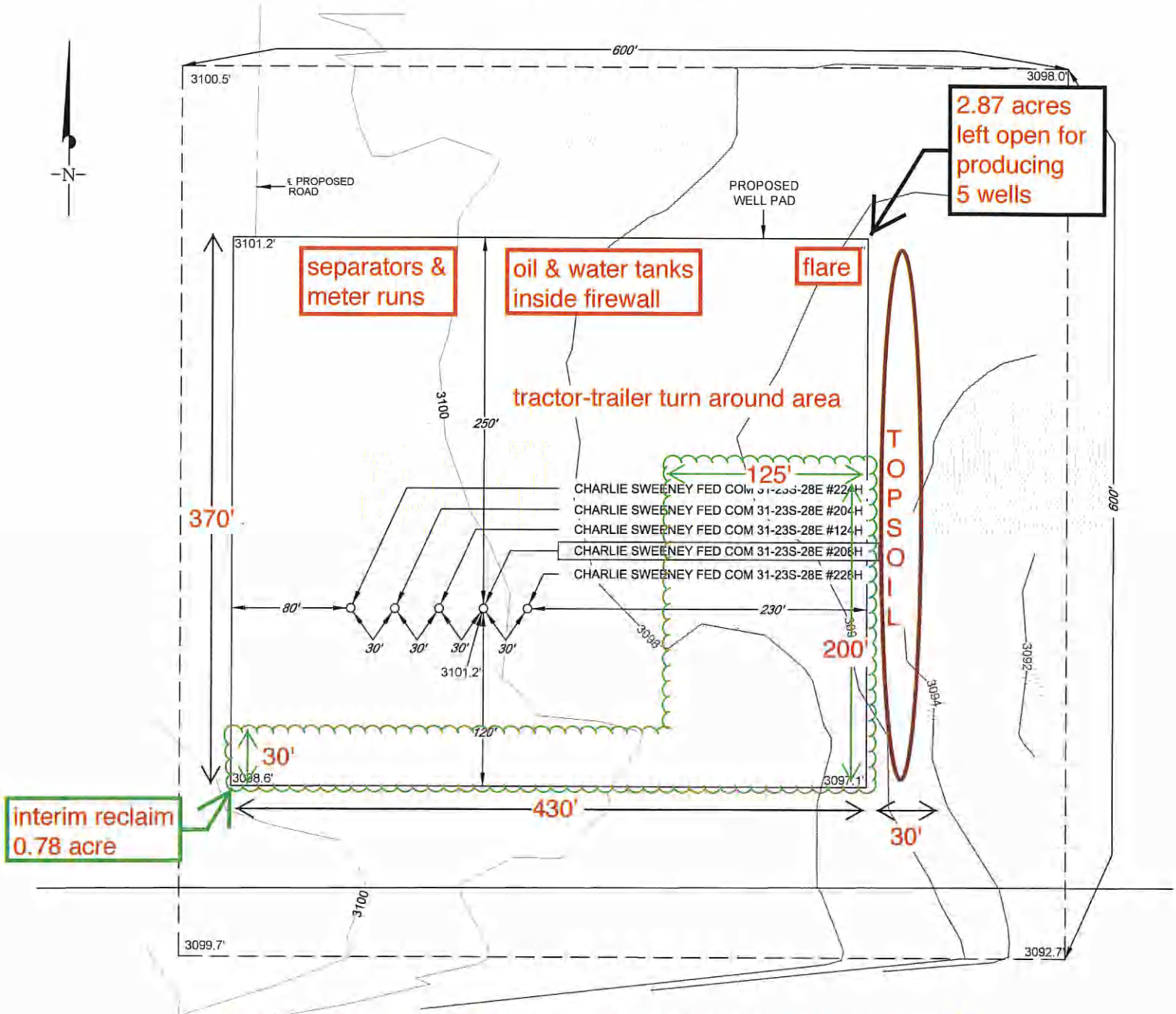
Field note description of even date accompanies this plat.

CHARLIE SWEENEY FED COM 31-23S-28E #224H SURFACE PAD SITE PRO	REVISION:	
	INT	DATE
DATE: 01/27/16		
FILE: \\01-CABLE-SWEENEY-FED-COM-31-23S-28E-224H-SURFACE-PAD-SITE-PRO		
DRAWN BY: GLH		
SHEET: 1 OF 1		

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927.
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR RESOURCE COMPANY. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.



SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



PRODUCTION FACILITY & INTERIM RECLAMATION DIAGRAM

LEGEND

- SECTION LINE
- ARCH SITE
- PROPOSED ROAD

LEASE NAME & WELL NO.: CHARLIE SWEENEY FED COM 31-23S-28E #208H
 #208H LATITUDE N 32.2546321 #208H LONGITUDE W 104.1196090

SCALE: 1" = 100'
 0' 50' 100'

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET
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 LOYALTY INNOVATION LEGACY
 1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
 TELEPHONE (817) 744-7512 • FAX (817) 744-7548
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM

Full well name will be:
Charlie Sweeney Fed Com 31-23s-28e

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NMNM-121941

6. If Indian, Allottee or Tribe Name
N/A

1a. Type of work: DRILL REENTER

7. If Unit or CA Agreement, Name and No. will comm, w/ fee lease

1b. Type of Well: Oil Well Gas Well Other Single Zone Multiple Zone

8. Lease Name and Well No.
Charlie Sweeney FC 31-23s-28e 224H

2. Name of Operator MATADOR PRODUCTION COMPANY

9. API Well No.
30-015-

3a. Address 5400 LBJ FREEWAY, SUITE 1500
DALLAS, TX 75240

3b. Phone No. (include area code)
972 371 5241

10. Field and Pool, or Exploratory
WILDCAT; WOLFCAMP B

4. Location of Well (Report location clearly and in accordance with any State requirements.)*
At surface 189' FSL & 665' FEL
At proposed prod. zone 240' FNL & 990' FEL

11. Sec., T. R. M. or Blk. and Survey or Area
SESE 31-23S-28E NMPM

14. Distance in miles and direction from nearest town or post office*
2 AIR MILES SW OF LOVING, NM

12. County or Parish
EDDY

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
SHL: 189'
BHL: 240'

16. No. of acres in lease
BLM lease = 280 acres
comm. area = 320 acres

17. Spacing Unit dedicated to this well
E2 31-23S-28E

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
SHL: 30' (Sween. 204)
BHL: 660' (Sween. 228)

19. Proposed Depth
TVD: 10300' MD: 15067'

20. BLM/BIA Bond No. on file
BLM NMB-001079

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3101' UNGRADED

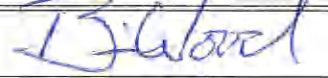
22. Approximate date work will start*
01/01/2017

23. Estimated duration
3 MONTHS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- 1. Well plat certified by a registered surveyor.
- 2. A Drilling Plan.
- 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- 5. Operator certification
- 6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature  Name (Printed Typed) BRIAN WOOD (PHONE: 505 466-8120) Date 07/04/2016

Title CONSULTANT (FAX: 505 466-9682)

Approved by (Signature) Name (Printed Typed) Date

Title Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

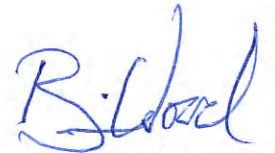
July 4, 2016

To Who it May Concern:

Matador Resources Company has a private surface owner agreement with Vickie Connally (R211 Ash Road, Loving NM 88256) for the Charlie Sweeney Fed Com 31-23s-28e 224H well site, pipelines, power line, and road in NWSW, S2S2, NWSE, & SWNE Section 31, T. 23 S., R. 28 E. and pipelines in Lot 2 Section 6, T. 24 S., R. 28 E.; all Eddy County, NM.

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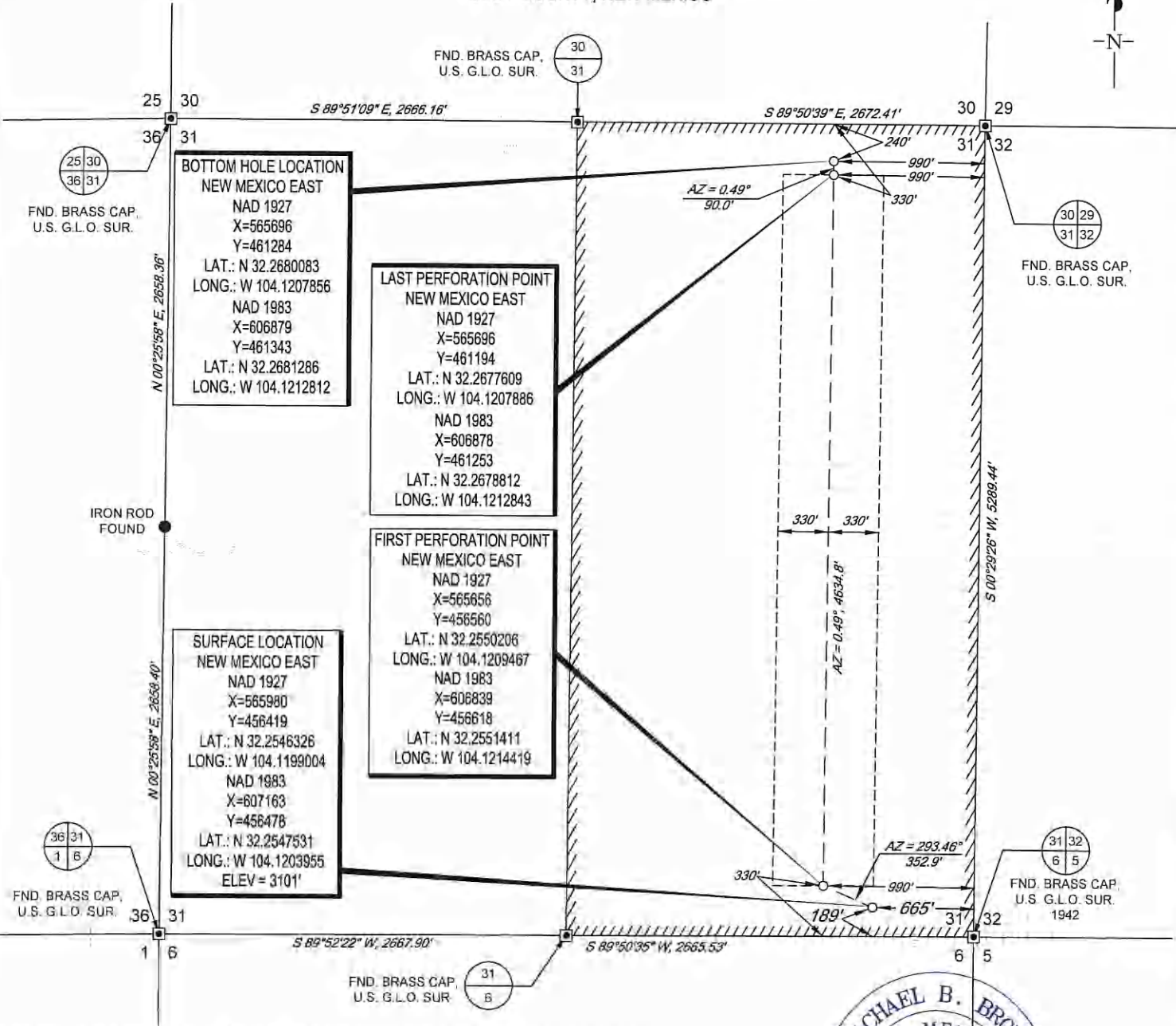


Brian Wood

SCALE: 1" = 1000'
 0' 500' 1000'



SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

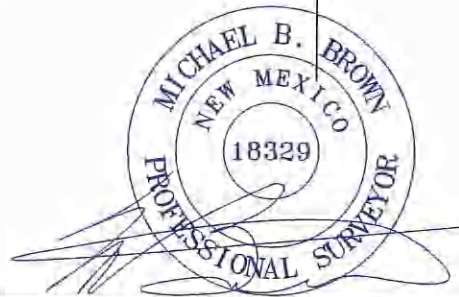


LEASE NAME & WELL NO.: CHARLIE SWEENEY FED COM 31-23S-28E #224H
 SECTION 31 TWP 23-S RGE 28-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM
 DESCRIPTION 189' FSL & 865' FEL

DISTANCE & DIRECTION
 FROM INT. OF US-285 & W CEDAR ST. GO SOUTH ON US-285 ±1.0 MILE,
 THENCE WEST (RIGHT) ON HIGBY HOLE RD. ±0.4 MILES, THENCE WEST
 (RIGHT) ON BOUNDS RD. ±1.8 MILES, THENCE SOUTH (LEFT) ON
 PROPOSED RD. ±1.2 MILES TO A POINT ±300 FEET NORTHWEST OF
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ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID
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 SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS IDENTIFICATION IS MADE
 AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS
 NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY



Michael Blake Brown, P.S. No. 18329
 DECEMBER 29, 2015



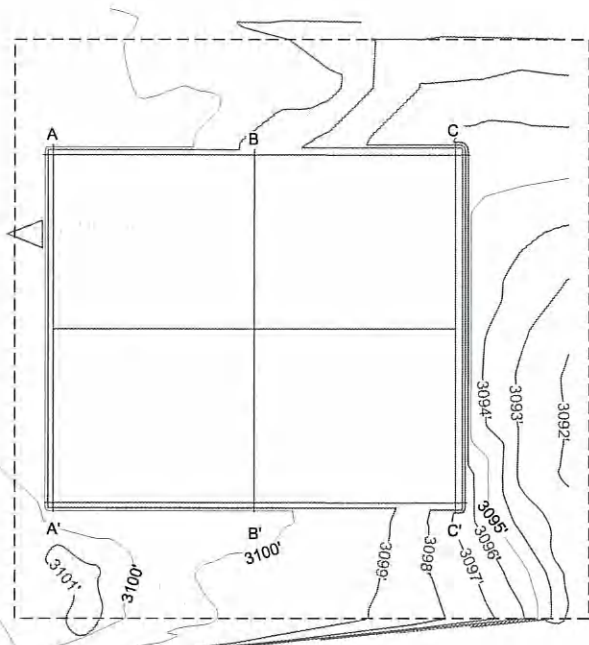
1408 EVERMAN PARKWAY Ste. 197 • FT WORTH, TEXAS 76104
 TELEPHONE (817) 744-7512 • FAX (817) 744-7546
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE (432) 682-1653 DR (800) 767-1622 • FAX (432) 682-1749
 WWW.TOPOGRAPHIC.COM

EXHIBIT "A"

SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

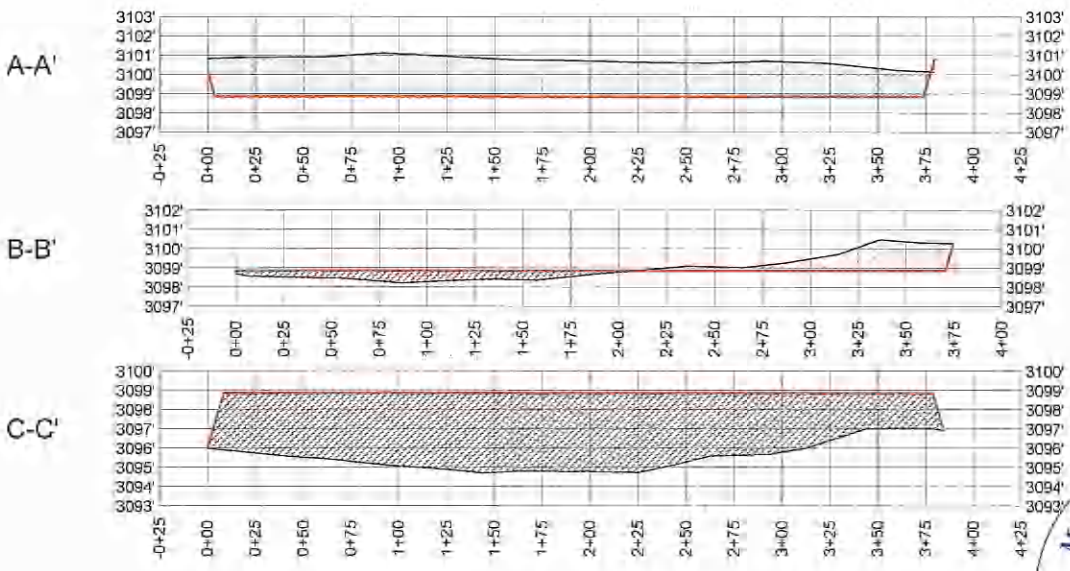
SCALE: 1" = 200'
0' 100' 200'

MAP 6



Top of pad elevation: 3098.8544
Cut Slope: 33.33% 3.00:1 18.43°
Fill Slope: 33.33% 3.00:1 18.43°
Balance Tolerance (C.Y.): 0.00
Cut Swell Factor: 1.00
Fill Shrink Factor: 1.00

Pad Earthwork Volumes
Cut: 139,546.2 C.F., 5,168.38 C.Y.
Fill: 139,546.2 C.F., 5,168.38 C.Y.
Balance Export: 0.0 C.F., 0.00 C.Y.
Area: 169247.4 Sq.Ft., 3.885 Acres



Horizontal Scale = 1:50
Vertical Scale = 1:5



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX: (817) 744-7548
TEXAS FIRM REGISTRATION NO. 10042504
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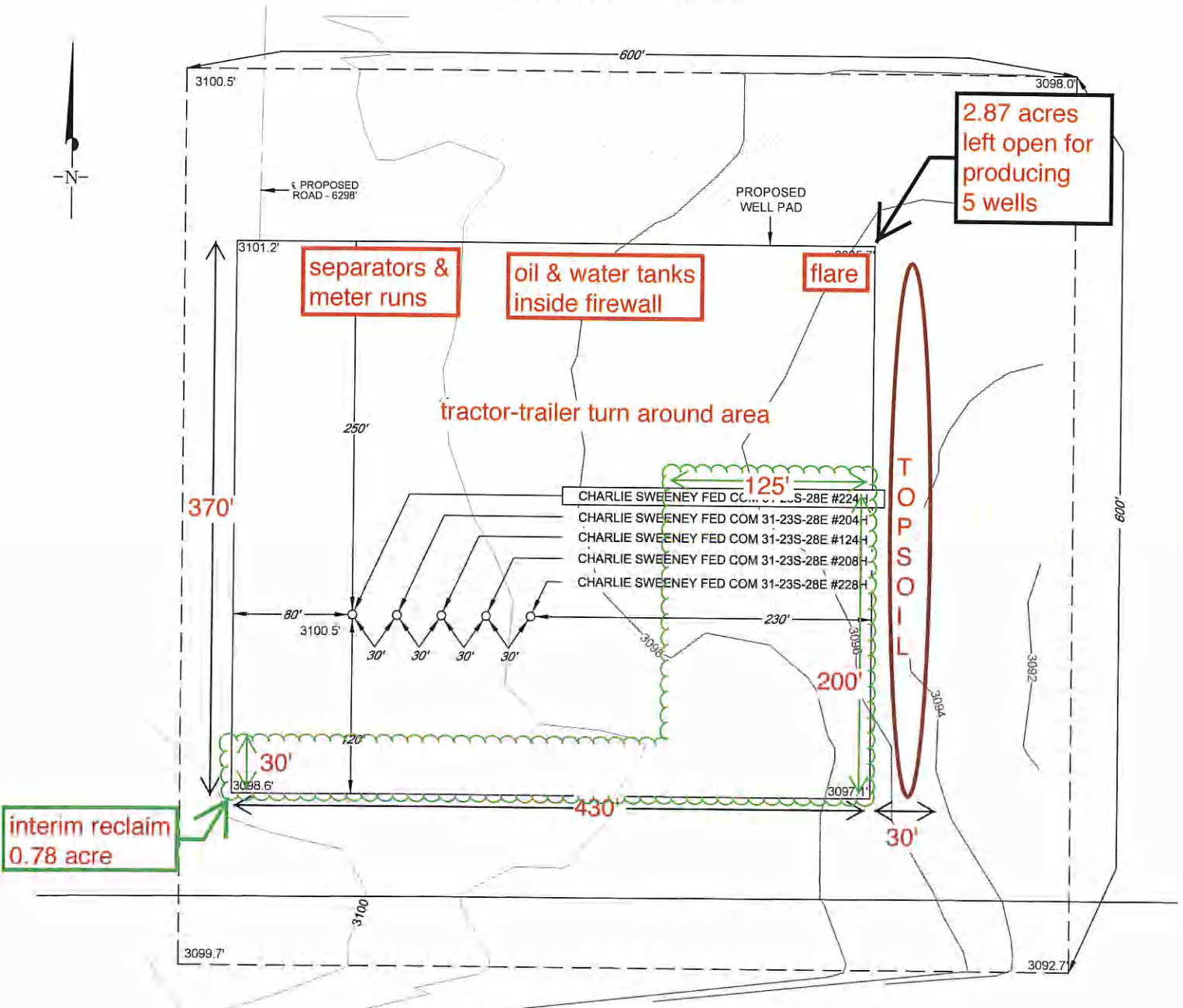
Michael Blake Brown, P.S. No. 18329
JANUARY 27, 2016
Field note description of even date accompanies this plat.

CHARLIE SWEENEY FED COM 31-23S-28E #224H SURFACE PAD SITE PRO	REVISION:	
	INT	DATE
DATE: 01/27/16		
FILE: \\S:\DWG\DWG\PROJ\1601\COM 31-23S-28E #224H SURFACE PAD SITE PRO.DWG		
DRAWN BY: GLH		
SHEET: 1 OF 1		

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR RESOURCE COMPANY. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.



SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



2.87 acres
left open for
producing
5 wells

interim reclaim
0.78 acre

PRODUCTION FACILITY & INTERIM RECLAMATION DIAGRAM

LEGEND

- SECTION LINE
- - - ARCH SITE
- PROPOSED ROAD

LEASE NAME & WELL NO.: CHARLIE SWEENEY FED COM 31-23S-28E #224H

#224H LATITUDE N 32.2546326 #224H LONGITUDE W 104.1199004

SCALE: 1" = 100'

0' 50' 100'

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"



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2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX: (432) 682-1743
WWW.TOPOGRAPHIC.COM

Full well name will be:
Charlie Sweeney Fed Com 31-23s-28e

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

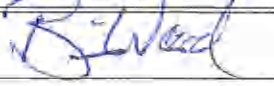
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM-121941
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator MATADOR PRODUCTION COMPANY		7. If Unit or CA Agreement, Name and No. will comm. w/ fee lease
3a. Address 5400 LBJ FREEWAY, SUITE 1500 DALLAS, TX 75240		8. Lease Name and Well No. Charlie Sweeney FC 31-23s-28e 228H
3b. Phone No. (include area code) 972 371 5241		9. API Well No. 30-015-
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 188' FSL & 545' FEL At proposed prod. zone 240' FNL & 330' FEL		10. Field and Pool, or Exploratory WILDCAT; WOLFCAMP B
14. Distance in miles and direction from nearest town or post office* 2 AIR MILES SW OF LOVING, NM		11. Sec., T. R. M. or Blk. and Survey or Area SESE 31-23S-28E NMPM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) SHL: 188' BHL: 240'	16. No. of acres in lease BLM lease = 280 acres comm. area = 320 acres	12. County or Parish EDDY
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. SHL: 30' (Sweeney 208) BHL: 330' (ditto)	19. Proposed Depth TVD: 10300' MD: 15056'	13. State NM
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3100' UNGRADED	22. Approximate date work will start* 03/01/2017	17. Spacing Unit dedicated to this well E2 31-23S-28E
		20. BLM/BIA Bond No. on file BLM NMB-001079
		23. Estimated duration 3 MONTHS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature 	Name (Printed Typed) BRIAN WOOD (PHONE: 505 466-8120)	Date 07/05/2016
Title CONSULTANT	(FAX: 505 466-9682)	
Approved by (Signature)	Name (Printed Typed)	Date
Title	Office	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

July 5, 2016

To Who it May Concern:

Matador Resources Company has a private surface owner agreement with Vickie Connally (R211 Ash Road, Loving NM 88256) for the Charlie Sweeney Fed Com 31-23s-28e 228H well site, pipelines, power line, and road in NWSW, S2S2, NWSE, & SWNE Section 31, T. 23 S., R. 28 E. and pipelines in Lot 2 Section 6, T. 24 S., R. 28 E.; all Eddy County, NM.

Matador Resources Company has a private surface owner agreement with Jacob & Merrellee Moore (1011 Bounds Road, Loving NM 88256) for their portion (NWNE 31-23s-28e) of the power line.

Matador Resources Company has a private surface owner agreement with Longwood Midstream Delaware LLC (5400 LBJ Freeway, Suite 1500, Dallas TX 75240) for their portion (Lot 2 31-23s-28e) of the water (Fast Line) pipeline.



Brian Wood

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Sante Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Sante Fe, NM 87505

FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-	² Pool Code	³ Pool Name WILDCAT; WOLFCAMP B
⁴ Property Code	⁵ Property Name CHARLIE SWEENEY FED COM 31-23S-28E	
⁷ OGRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁶ Well Number #228H
		⁹ Elevation 3100'

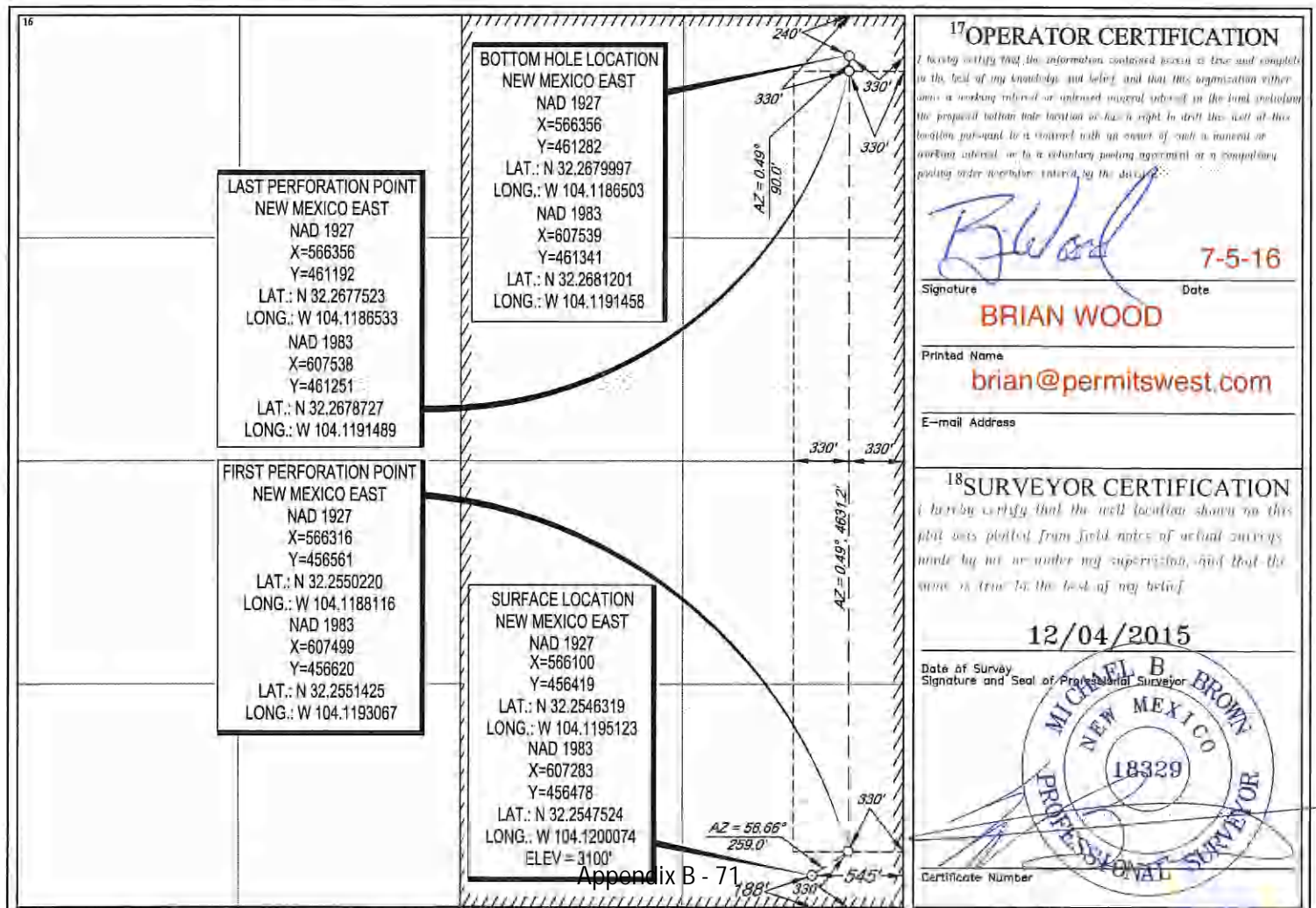
¹⁰Surface Location

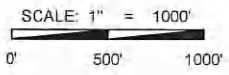
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	31	23-S	28-E	-	188'	SOUTH	545'	EAST	EDDY

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	31	23-S	28-E	-	240'	NORTH	330'	EAST	EDDY

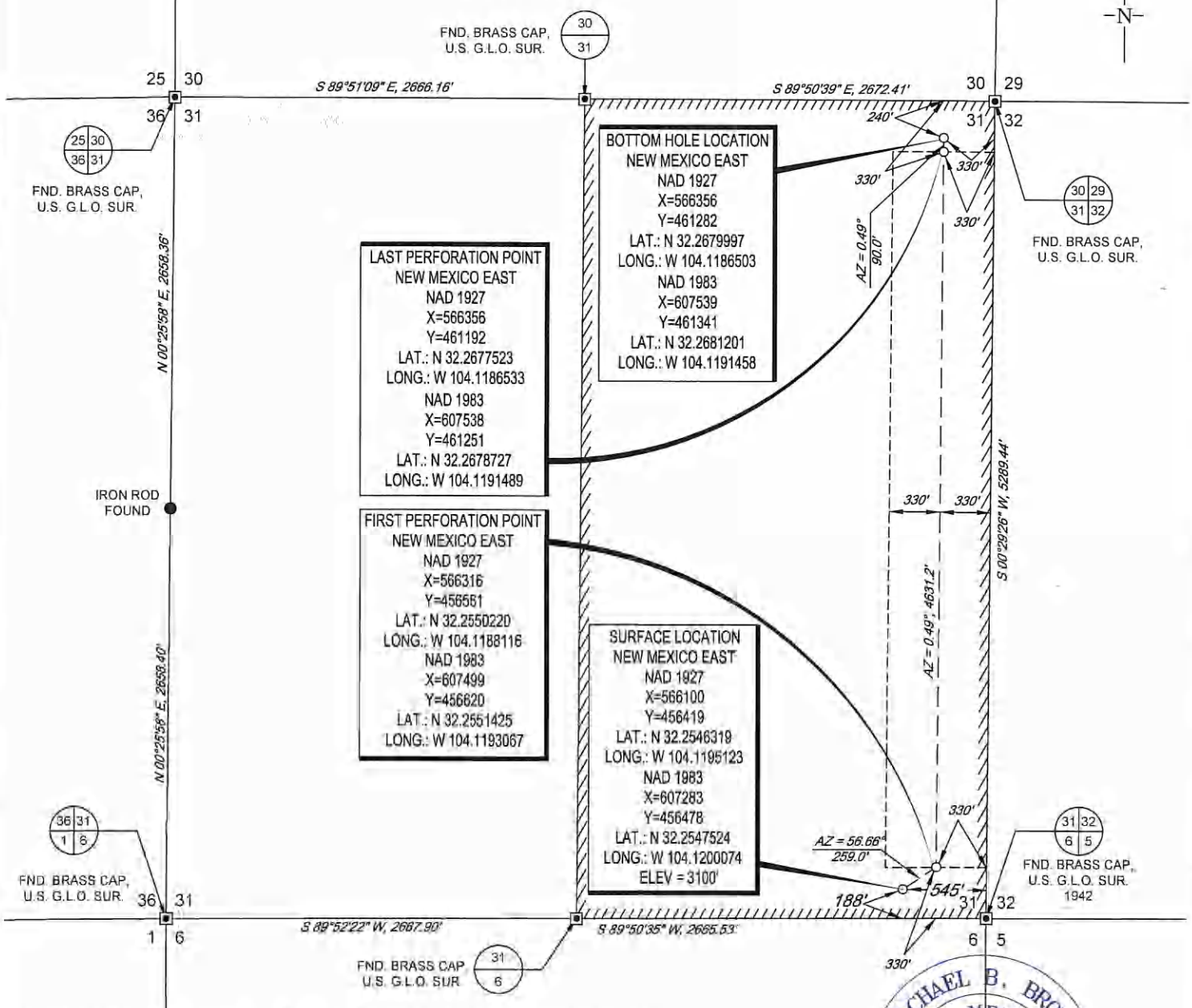
¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code C	¹⁵ Order No.
---	-------------------------------	--	-------------------------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.





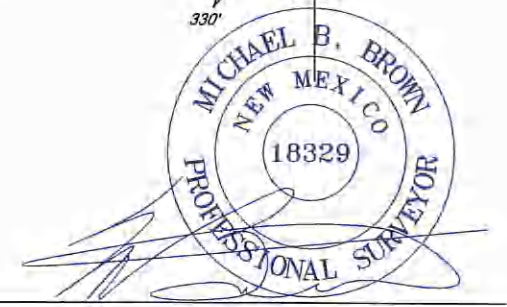
SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: CHARLIE SWEENEY FED COM 31-23S-28E #228H
 SECTION 31 TWP 23-S RGE 28-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM
 DESCRIPTION 188' FSL & 545' FEL

DISTANCE & DIRECTION
 FROM INT. OF US-285 & W CEDAR ST., GO SOUTH ON US-285. ±1.0 MILE
 THENCE WEST (RIGHT) ON HIGBY HOLE RD. ±0.4 MILES, THENCE WEST
 (RIGHT) ON BOUNDS RD. ±1.8 MILES, THENCE SOUTH (LEFT) ON
 PROPOSED RD. ±1.2 MILES TO A POINT ±250 FEET NORTHWEST OF
 THE LOCATION.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID
 BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE
 NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET
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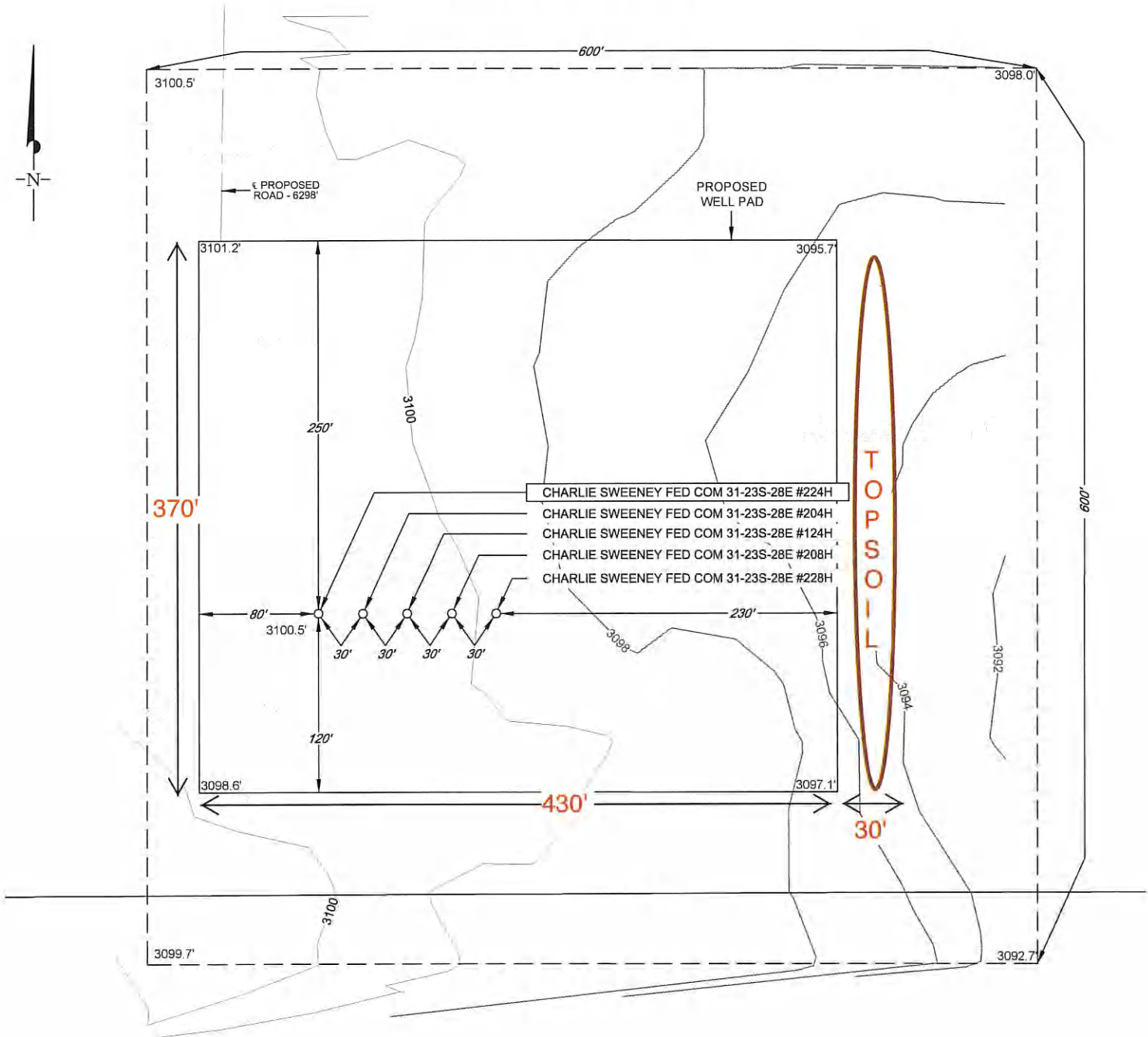
Michael Blake Brown, P.S. No. 18329
 DECEMBER 7, 2015

1400 EVERMAN PARKWAY, Ste 197 - FT WORTH, TEXAS 76110
 TELEPHONE (817) 744-7512 • FAX (817) 744-7548
 3903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
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MAP 5

SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



LEGEND

- SECTION LINE
- - - - - ARCH SITE
- PROPOSED ROAD

LEASE NAME & WELL NO.: CHARLIE SWEENEY FED COM 31-23S-28E #224H

#224H LATITUDE N 32.2546326 #224H LONGITUDE W 104.1199004

SCALE: 1" = 100'



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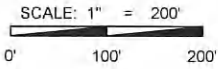
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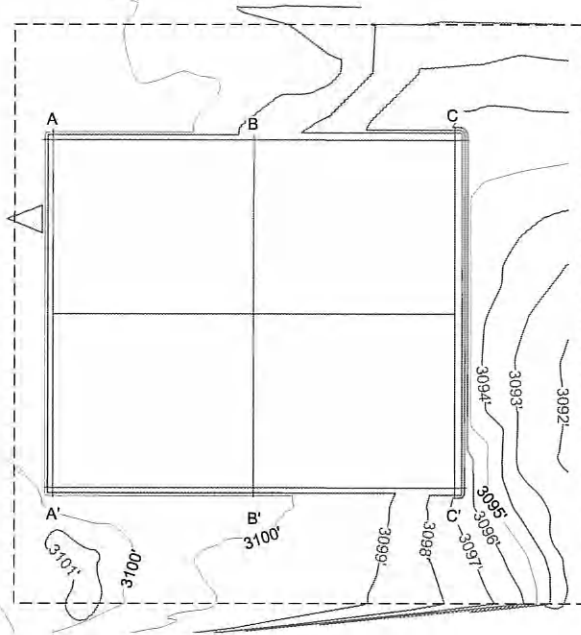
1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
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EXHIBIT "A"

SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

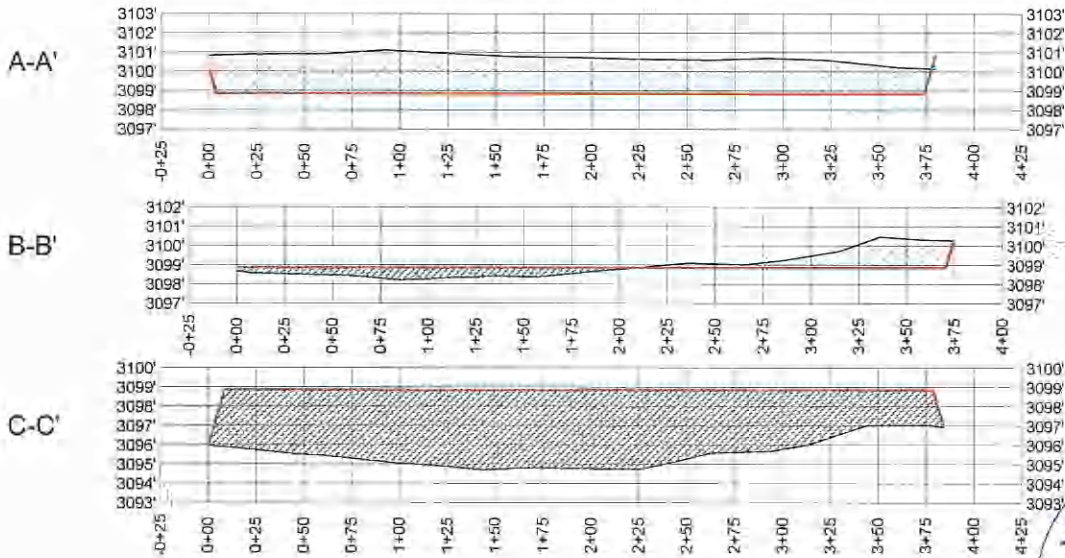


MAP 6



Top of pad elevation: 3098.8544
Cut Slope: 33.33% 3.00:1 18.43°
Fill Slope: 33.33% 3.00:1 18.43°
Balance Tolerance (C.Y.): 0.00
Cut Swell Factor: 1.00
Fill Shrink Factor: 1.00

Pad Earthwork Volumes
Cut : 139,546.2 C.F., 5,168.38 C.Y.
Fill: 139,546.2 C.F., 5,168.38 C.Y.
Balance Export: 0.0 C.F., 0.00 C.Y.
Area: 169247.4 Sq.Ft., 3.885 Acres



Horizontal Scale = 1:50
Vertical Scale = 1:5



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Michael Blake Brown, P.S. No. 18329
JANUARY 27, 2016

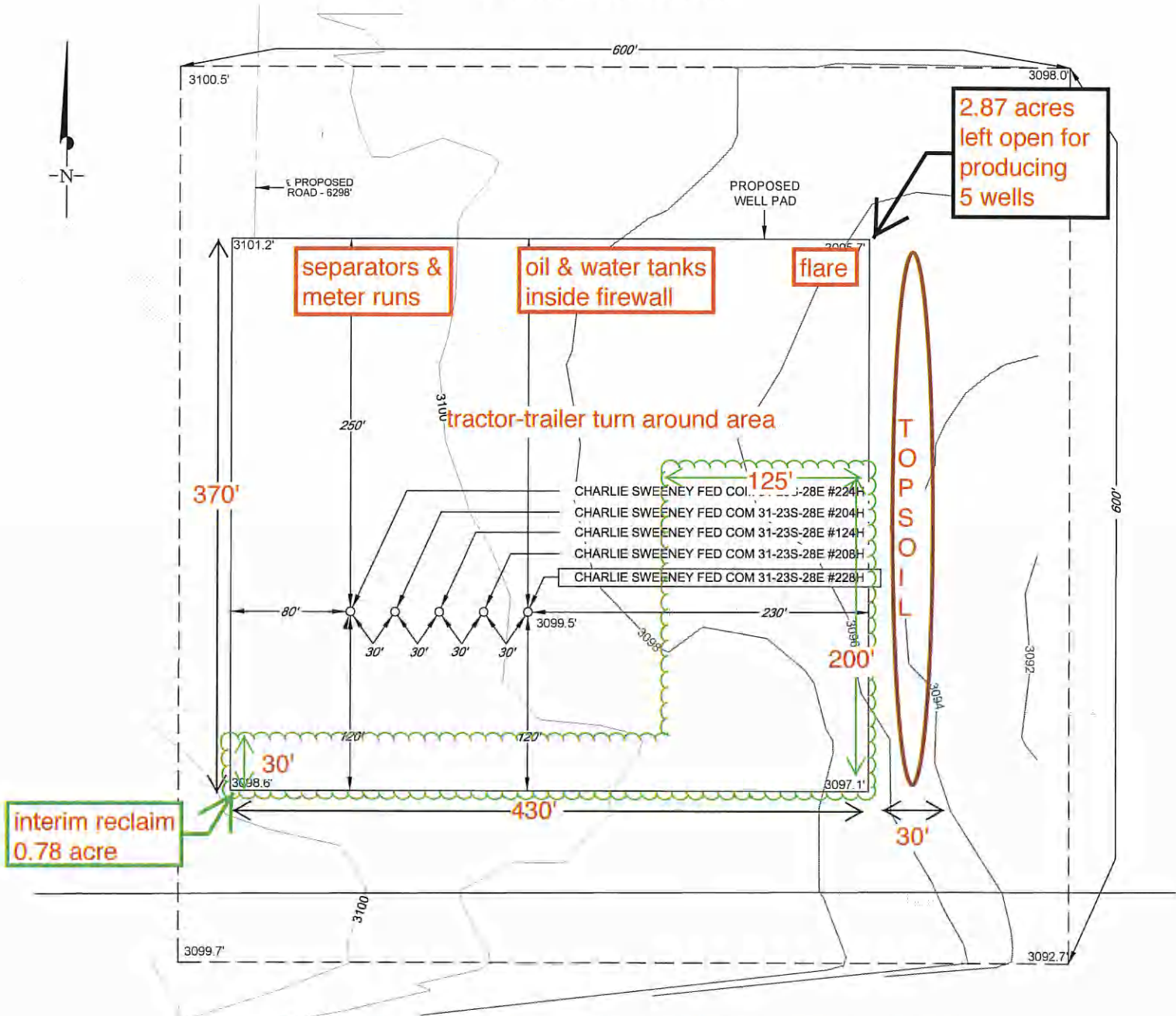
Field note description of even date accompanies this plat.

CHARLIE SWEENEY FED COM 31-23S-28E #224H SURFACE PAD SITE PRO	REVISION:	
	INT	DATE
DATE: 01/27/16		
FILE: \\MATADOR\PRODUCTION\PROJECTS\2016\31-23S-28E\224H\31-23S-28E_224H_SURFACE_PAD_SITE_PRO_REV1.DWG		
DRAWN BY: GLH		
SHEET: 1 OF 1		

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927.
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SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



PRODUCTION FACILITY & INTERIM RECLAMATION DIAGRAM

LEGEND

- SECTION LINE
- - - ARCH SITE
- - - PROPOSED ROAD

LEASE NAME & WELL NO.: CHARLIE SWEENEY FED COM 31-23S-28E #228H

#228H LATITUDE N 32.2546319 #228H LONGITUDE W 104.1195123

SCALE: 1" = 100'

0' 50' 100'

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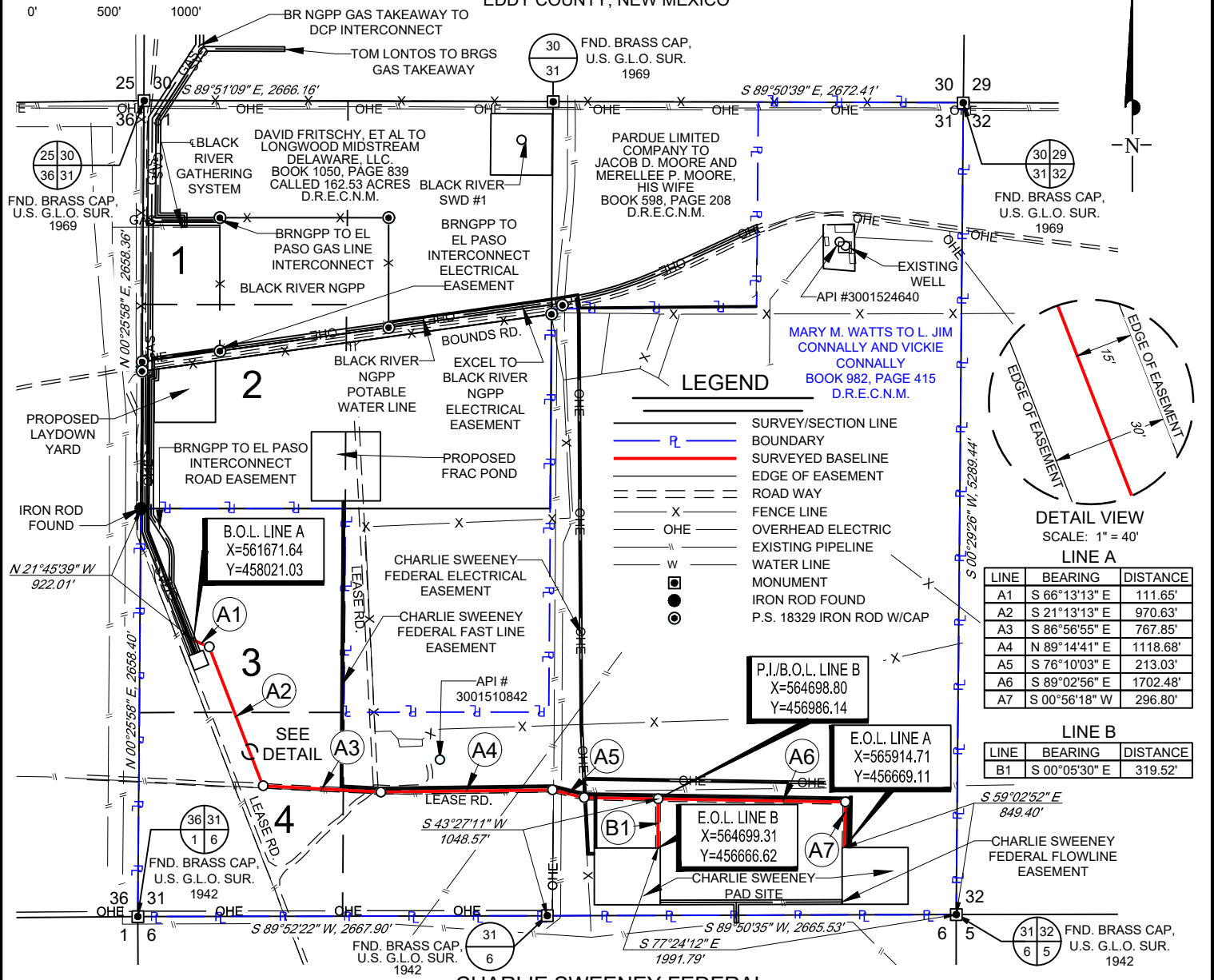


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Well Pad Access Road

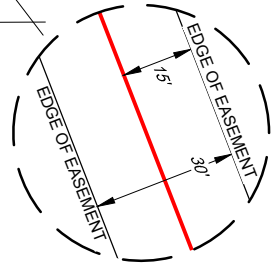
SCALE: 1" = 1000'

SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



LEGEND

- SURVEY/SECTION LINE
- BOUNDARY
- SURVEYED BASELINE
- EDGE OF EASEMENT
- ROAD WAY
- FENCE LINE
- OVERHEAD ELECTRIC
- EXISTING PIPELINE
- WATER LINE
- MONUMENT
- IRON ROD FOUND
- P.S. 18329 IRON ROD W/CAP



DETAIL VIEW
SCALE: 1" = 40'

LINE A

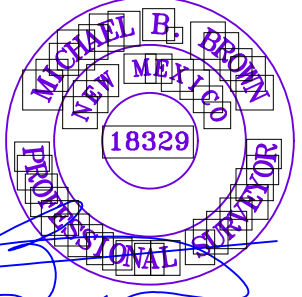
LINE	BEARING	DISTANCE
A1	S 66°13'13" E	111.65'
A2	S 21°13'13" E	970.63'
A3	S 86°56'55" E	767.85'
A4	N 89°14'41" E	1118.68'
A5	S 76°10'03" E	213.03'
A6	S 89°02'56" E	1702.48'
A7	S 00°56'18" W	296.80'

LINE B

LINE	BEARING	DISTANCE
B1	S 00°05'30" E	319.52'

CHARLIE SWEENEY FEDERAL ROAD EASEMENT

Being a proposed road easement being 30 feet in width, 15 feet left, and 15 feet right of the above platted centerline total line footage containing 5500.64 feet or 333.37 rods, containing 3.79 acres more or less.



Michael Blake Brown, P.S. No. 18329
JUNE 20, 2016



1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
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WWW.TOPOGRAPHIC.COM

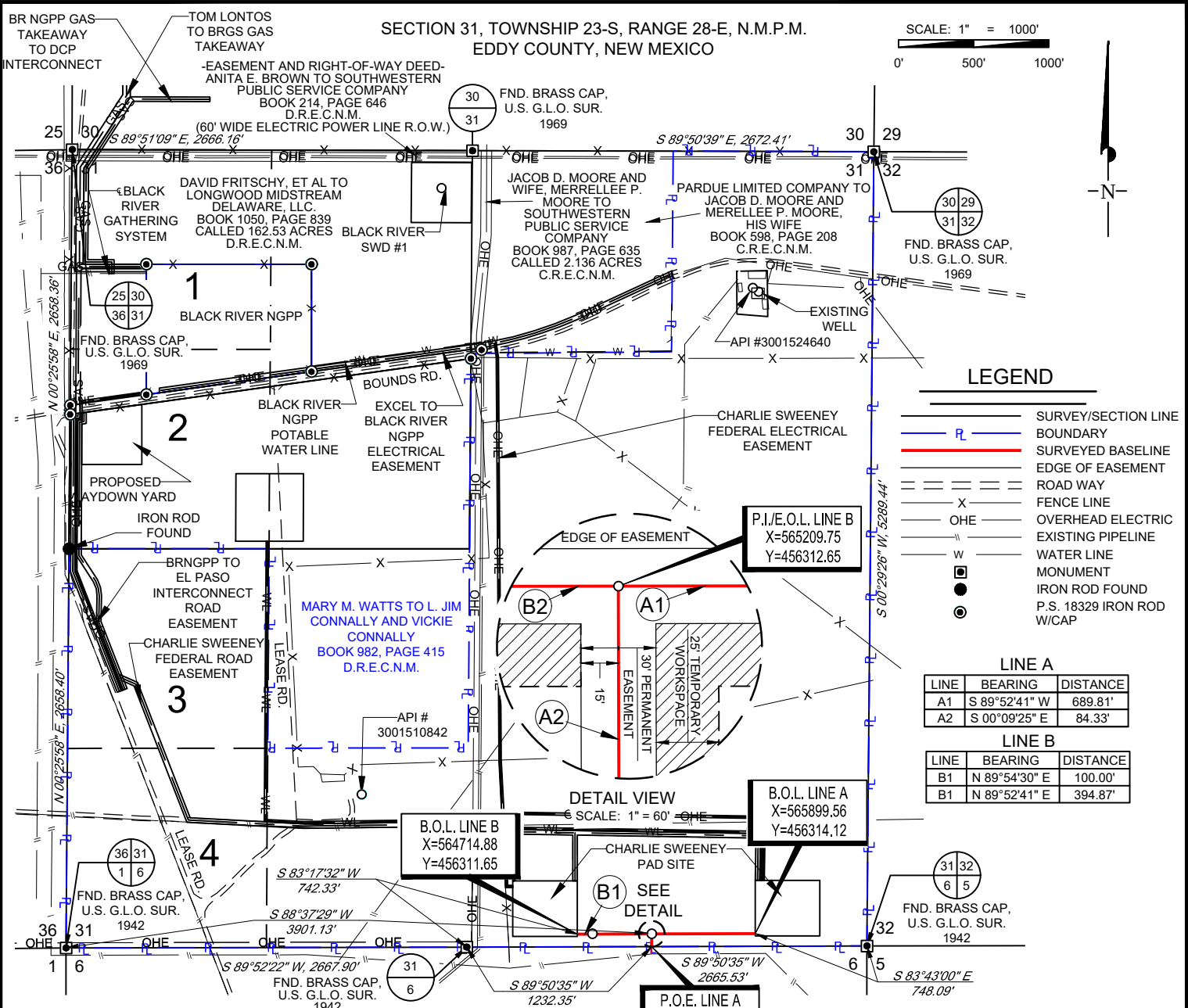
CHARLIE SWEENEY FEDERAL ROAD EASEMENT	REVISION:
DATE: 06/20/16	
FILE: EP_CHARLIE_SWEENEY_FEDERAL_ROAD_EASEMENT	
DRAWN BY: MML	
SHEET: 1 OF 1	

- NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
 2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927.
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 4. B.O.L./P.O.B. = BEGINNING OF LINE/POINT OF BEGINNING
 5. E.O.L. = END OF LINE
 6. P.I. = POINT OF INTERSECTION
 7. D.R.E.C.N.M. = DEED RECORDS EDDY COUNTY NEW MEXICO

Flowlines

SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SCALE: 1" = 1000'
0' 500' 1000'



LEGEND

- SURVEY/SECTION LINE
- BOUNDARY
- SURVEYED BASELINE
- EDGE OF EASEMENT
- ROAD WAY
- FENCE LINE
- OVERHEAD ELECTRIC
- EXISTING PIPELINE
- WATER LINE
- MONUMENT
- IRON ROD FOUND
- P.S. 18329 IRON ROD W/CAP

LINE A

LINE	BEARING	DISTANCE
A1	S 89°52'41" W	689.81'
A2	S 00°09'25" E	84.33'

LINE B

LINE	BEARING	DISTANCE
B1	N 89°54'30" E	100.00'
B1	N 89°52'41" E	394.87'

DETAIL VIEW

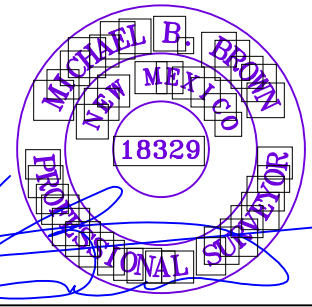
SCALE: 1" = 60'

CHARLIE SWEENEY FEDERAL FLOWLINE EASEMENT

Being a proposed flowline easement being 30 feet in width, 15 feet left, and 15 feet right of the above plotted centerline total line footage containing 1269.01 feet or 76.91 rods, containing 0.87 acres more or less.



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LOYALTY INNOVATION LEGACY
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JUNE 20, 2016

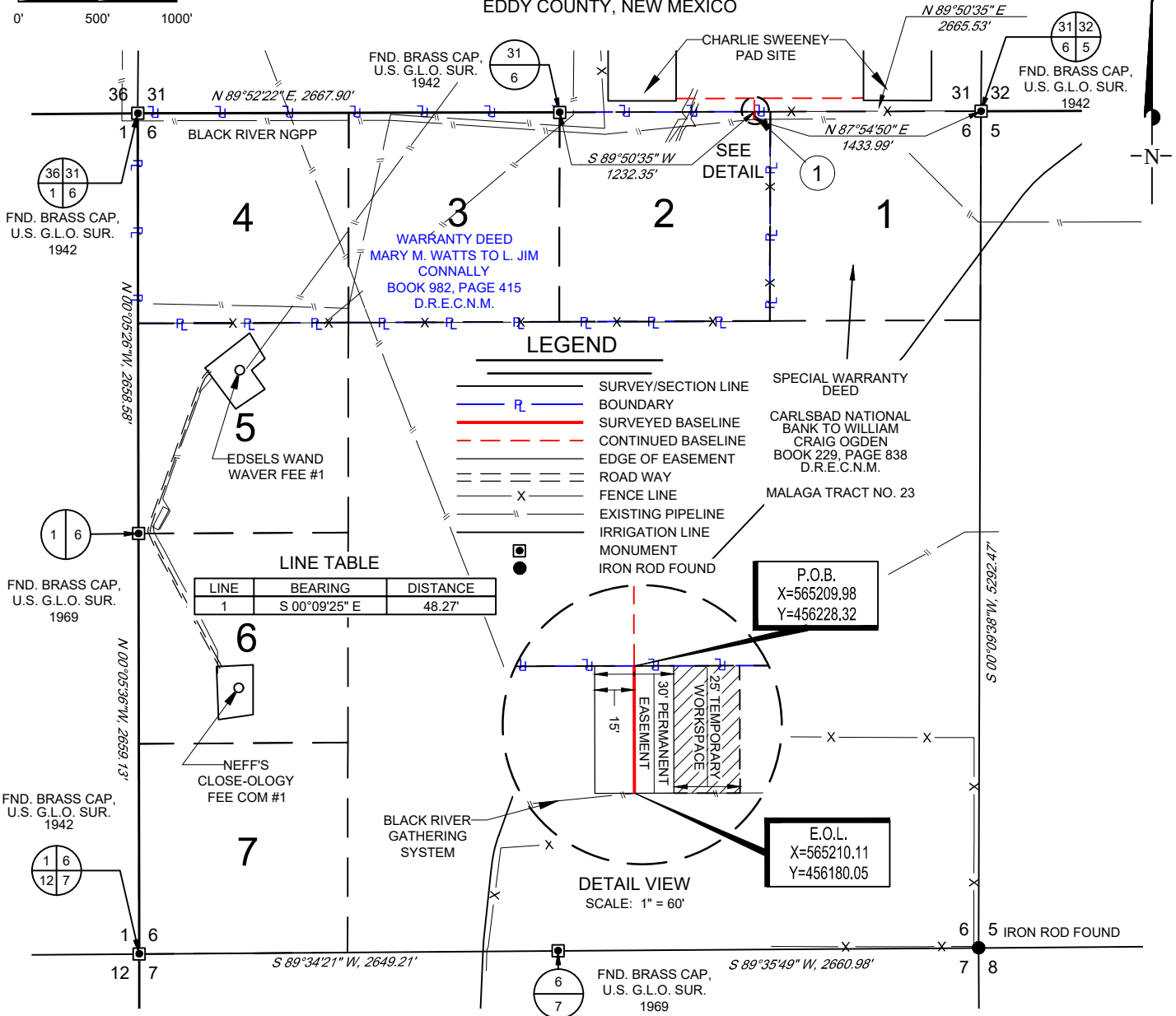
CHARLIE SWEENEY FEDERAL FLOWLINE EASEMENT	REVISION:
	GJU 06/20/16
DATE:	12/15/15
FILE:	EP CHARLIE_SWEENEY_FEDERAL_FLOWLINE_EASEMENT_SEC_31_REV1
DRAWN BY:	GLH
SHEET:	1 OF 1

- NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
 2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927.
 3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR PRODUCTION CO. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.
 4. B.O.L. = BEGINNING OF LINE
 5. E.O.L./P.O.E. = END OF LINE/ POINT OF EXIT
 6. D.R.E.C.N.M. = DEED RECORDS EDDY COUNTY NEW MEXICO
 7. C.R.E.C.N.M. = COUNTY RECORDS EDDY COUNTY NEW MEXICO

SCALE: 1" = 1000'

0' 500' 1000'

SECTION 6, TOWNSHIP 24-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

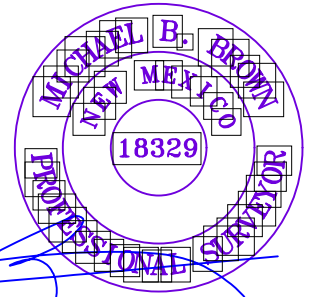


**CHARLIE SWEENEY FEDERAL
FLOWLINE EASEMENT**

Being a proposed flowline easement being 30 feet in width, 15 feet left, and 15 feet right of the above platted centerline total line footage containing 48.27 feet or 2.93 rods, containing 0.03 acres more or less.



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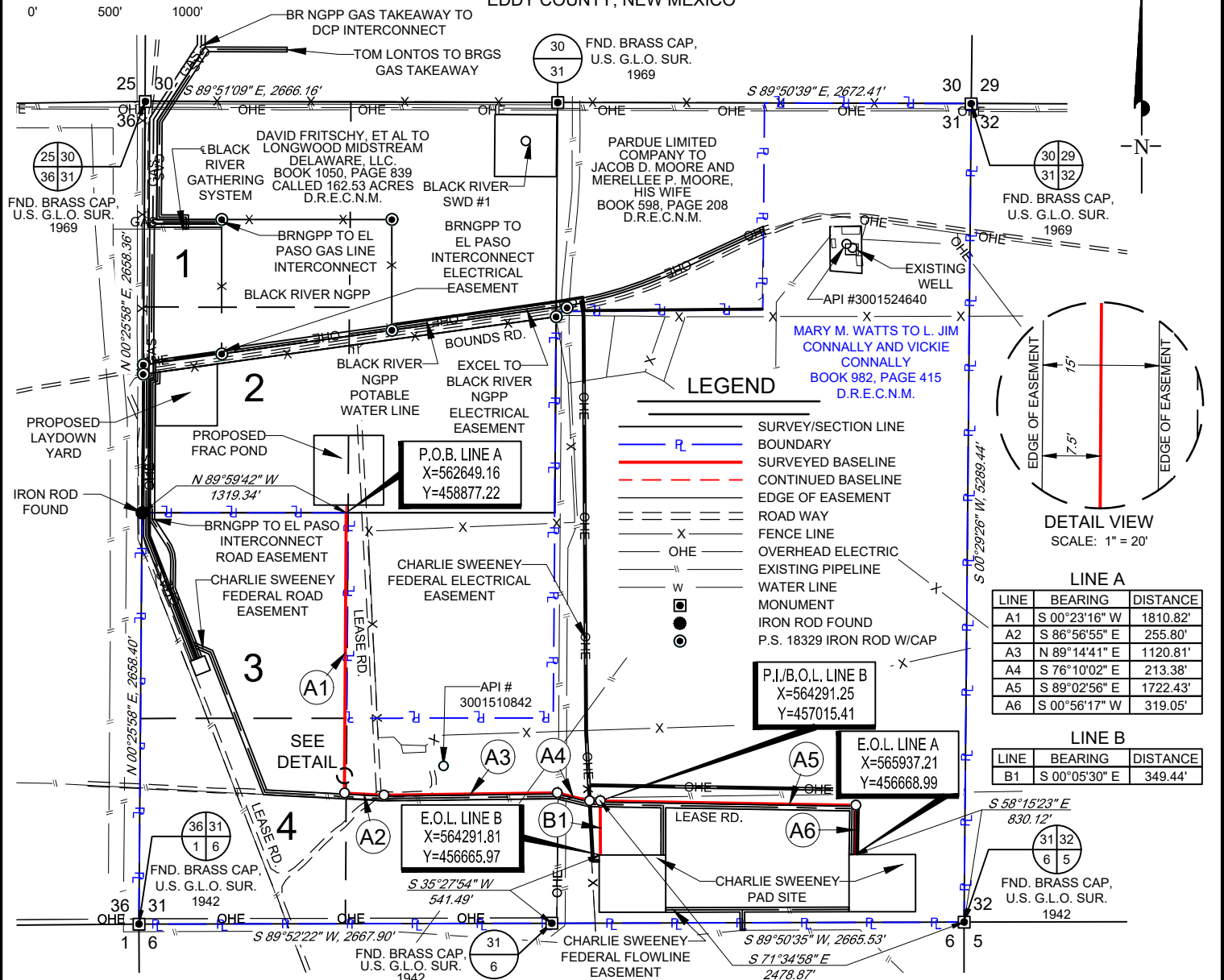
Michael Blake Brown, P.S. No. 18329
JUNE 20, 2016

<p>CHARLIE SWEENEY FEDERAL FLOWLINE EASEMENT</p> <p>DATE: 06/20/16</p> <p>FILE: EP_CHARLIE_SWEENEY_FEDERAL_FLOWLINE_EASEMENT_SEC_6</p> <p>DRAWN BY: GJU</p> <p>SHEET: 1 OF 1</p>	REVISION:	NOTES:
		1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
		2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927.
		3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR PRODUCTION CO. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.
		4. P.O.B. = POINT OF BEGINNING 5. E.O.L. = END OF LINE 6. D.R.E.C.N.M. = DEED RECORDS EDDY COUNTY NEW MEXICO

Water Line (Fast Line)

SCALE: 1" = 1000'

SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

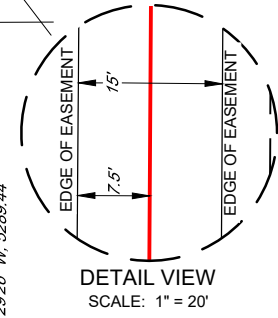


P.O.B. LINE A
X=562649.16
Y=458877.22

P.I./B.O.L. LINE B
X=564291.25
Y=457015.41

E.O.L. LINE A
X=565937.21
Y=456668.99

E.O.L. LINE B
X=564291.81
Y=456665.97



LINE A

LINE	BEARING	DISTANCE
A1	S 00°23'16" W	1810.82'
A2	S 86°56'55" E	255.80'
A3	N 89°14'41" E	1120.81'
A4	S 76°10'02" E	213.38'
A5	S 89°02'56" E	1722.43'
A6	S 00°56'17" W	319.05'

LINE B

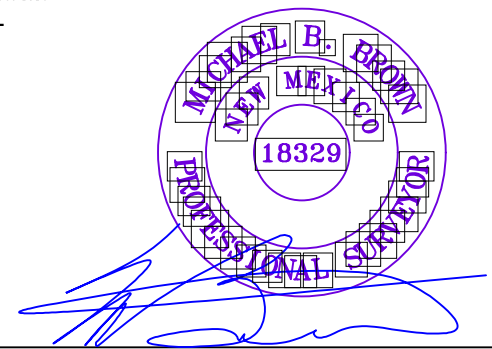
LINE	BEARING	DISTANCE
B1	S 00°05'30" E	349.44'

CHARLIE SWEENEY FEDERAL FAST LINE EASEMENT

Being a proposed fast line easement being 15 feet in width, 7.5 feet left, and 7.5 feet right of the above platted centerline total line footage containing 5791.73 feet or 351.01 rods, containing 1.99 acres more or less.



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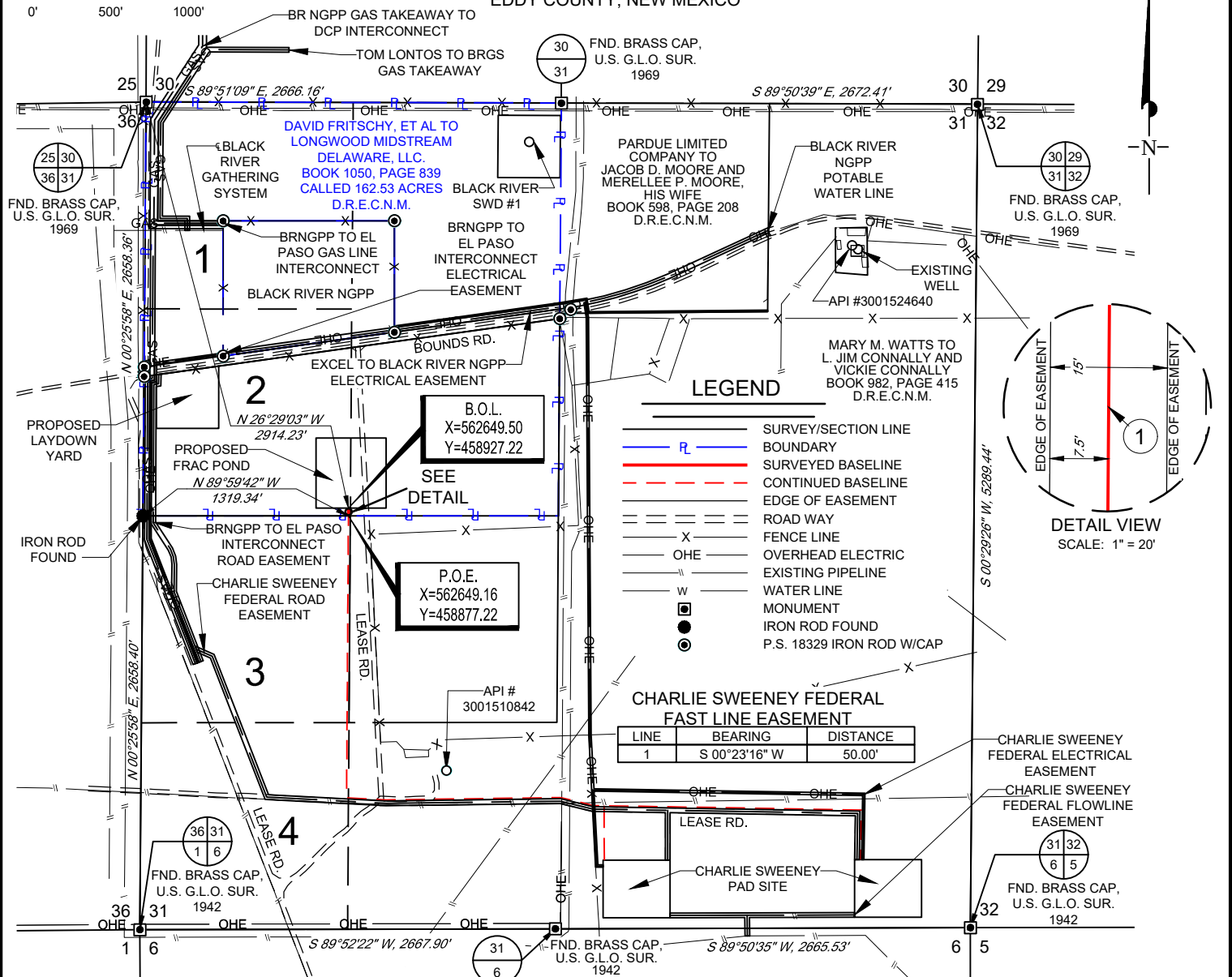


Michael Blake Brown, P.S. No. 18329
JUNE 20, 2016

<p>CHARLIE SWEENEY FEDERAL FAST LINE EASEMENT</p> <p>DATE: 06/20/16</p> <p>FILE: EP_CHARLIE_SWEENEY_FEDERAL_FAST_LINE_EASEMENT_CONNALLY</p> <p>DRAWN BY: MML</p> <p>SHEET: 1 OF 1</p>	<p>REVISION:</p>	<p>NOTES:</p> <ol style="list-style-type: none"> 1. ORIGINAL DOCUMENT SIZE: 8.5" X 11" 2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927. 3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR PRODUCTION CO. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY. 4. B.O.L./P.O.B. = BEGINNING OF LINE/POINT OF BEGINNING 5. E.O.L. = END OF LINE 6. P.I. = POINT OF INTERSECTION 7. D.R.E.C.N.M. = DEED RECORDS EDDY COUNTY NEW MEXICO

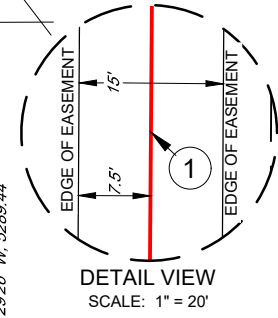
SCALE: 1" = 1000'

SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



LEGEND

- SURVEY/SECTION LINE
- BOUNDARY
- SURVEYED BASELINE
- CONTINUED BASELINE
- EDGE OF EASEMENT
- ROAD WAY
- FENCE LINE
- OVERHEAD ELECTRIC
- EXISTING PIPELINE
- WATER LINE
- MONUMENT
- IRON ROD FOUND
- P.S. 18329 IRON ROD W/CAP



CHARLIE SWEENEY FEDERAL FAST LINE EASEMENT

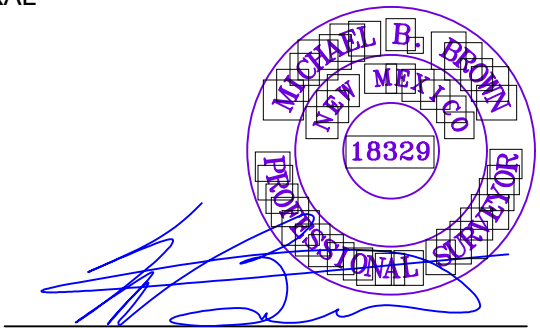
LINE	BEARING	DISTANCE
1	S 00°23'16\" W	50.00'

CHARLIE SWEENEY FEDERAL FAST LINE EASEMENT

Being a proposed fast line easement being 15 feet in width, 7.5 feet left, and 7.5 feet right of the above platted centerline total line footage containing 50.00 feet or 3.03 rods, containing 0.02 acres more or less.



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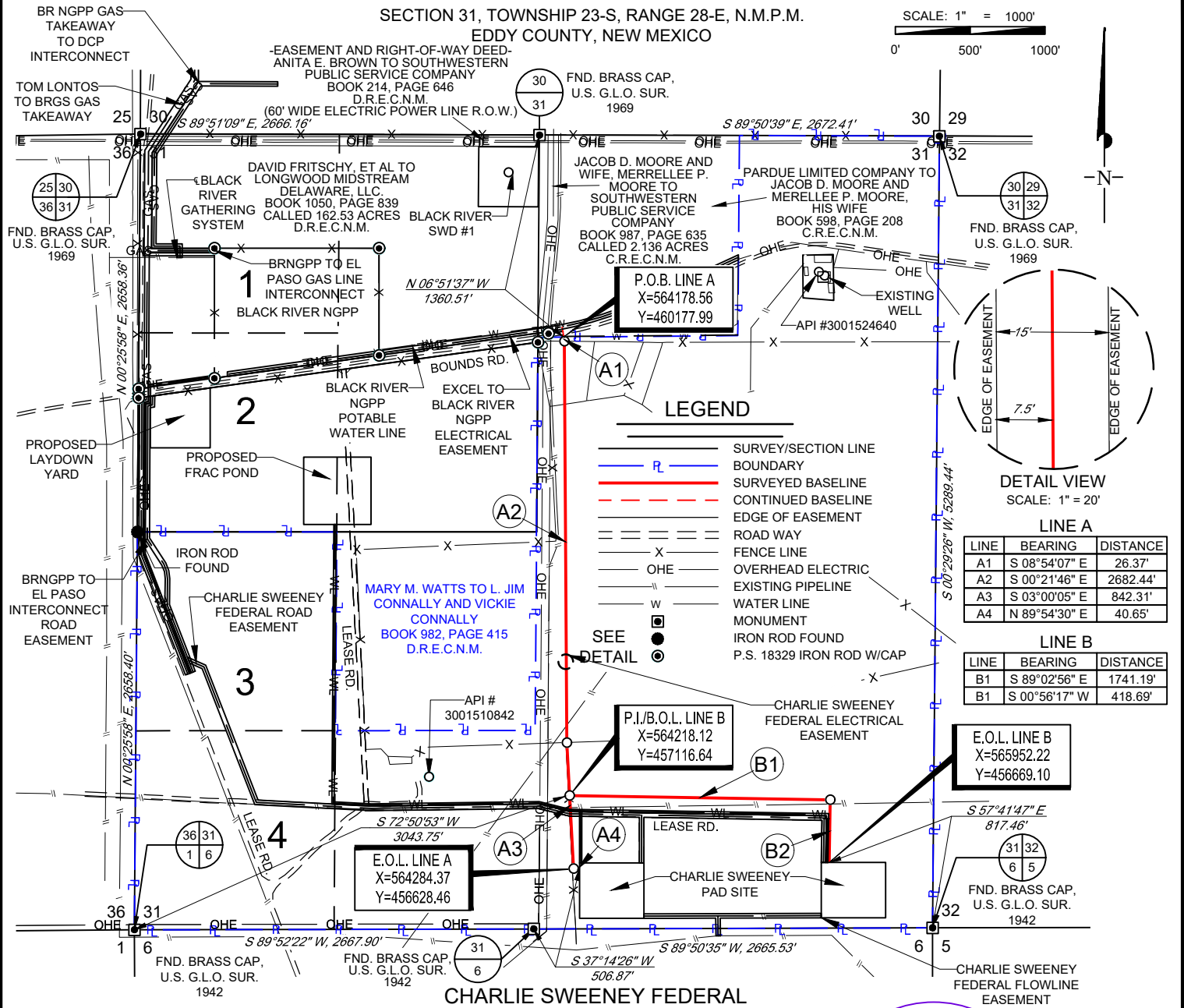
Michael Blake Brown, P.S. No. 18329
JUNE 20, 2016

<p>CHARLIE SWEENEY FEDERAL FAST LINE EASEMENT</p> <p>DATE: 06/20/16</p> <p>FILE: EP_CHARLIE_SWEENEY_FEDERAL_FAST_LINE_EASEMENT_LONGWOOD</p> <p>DRAWN BY: MML</p> <p>SHEET: 1 OF 1</p>	<p>REVISION:</p>	<p>NOTES:</p> <ol style="list-style-type: none"> ORIGINAL DOCUMENT SIZE: 8.5" X 11" ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR PRODUCTION CO. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY. B.O.L. = BEGINNING OF LINE P.O.E. = POINT OF EXIT D.R.E.C.N.M. = DEED RECORDS EDDY COUNTY NEW MEXICO

Overhead Electric Line

SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SCALE: 1" = 1000'
0' 500' 1000'



LEGEND

- SURVEY/SECTION LINE
- BOUNDARY
- SURVEYED BASELINE
- CONTINUED BASELINE
- EDGE OF EASEMENT
- ROAD WAY
- FENCE LINE
- OVERHEAD ELECTRIC
- EXISTING PIPELINE
- WATER LINE
- MONUMENT
- IRON ROD FOUND
- P.S. 18329 IRON ROD W/CAP

SEE DETAIL

LINE A

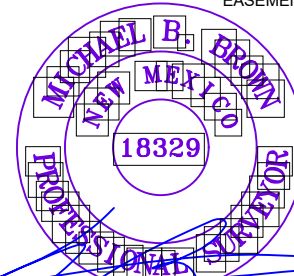
LINE	BEARING	DISTANCE
A1	S 08°54'07" E	26.37'
A2	S 00°21'46" E	2682.44'
A3	S 03°00'05" E	842.31'
A4	N 89°54'30" E	40.65'

LINE B

LINE	BEARING	DISTANCE
B1	S 89°02'56" E	1741.19'
B1	S 00°56'17" W	418.69'

CHARLIE SWEENEY FEDERAL ELECTRIC EASEMENT

Being a proposed electric line easement being 15 feet in width, 7.5 feet left, and 7.5 feet right of the above platted centerline total line footage containing 5751.65 feet or 348.58 rods, containing 1.98 acres more or less.



Michael Blake Brown, P.S. No. 18329
JUNE 20, 2016



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

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CHARLIE SWEENEY FEDERAL ELECTRIC EASEMENT	REVISION:
DATE: 06/20/16	
FILE: EP CHARLIE SWEENEY FEDERAL ELECTRICAL LINE EASEMENT CONNALLY	
DRAWN BY: GJU	
SHEET: 1 OF 1	

- NOTES:**
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
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 6. P.I. = POINT OF INTERSECTION
 7. D.R.E.C.N.M. = DEED RECORDS EDDY COUNTY NEW MEXICO
 8. C.R.E.C.N.M. = COUNTY RECORDS EDDY COUNTY NEW MEXICO

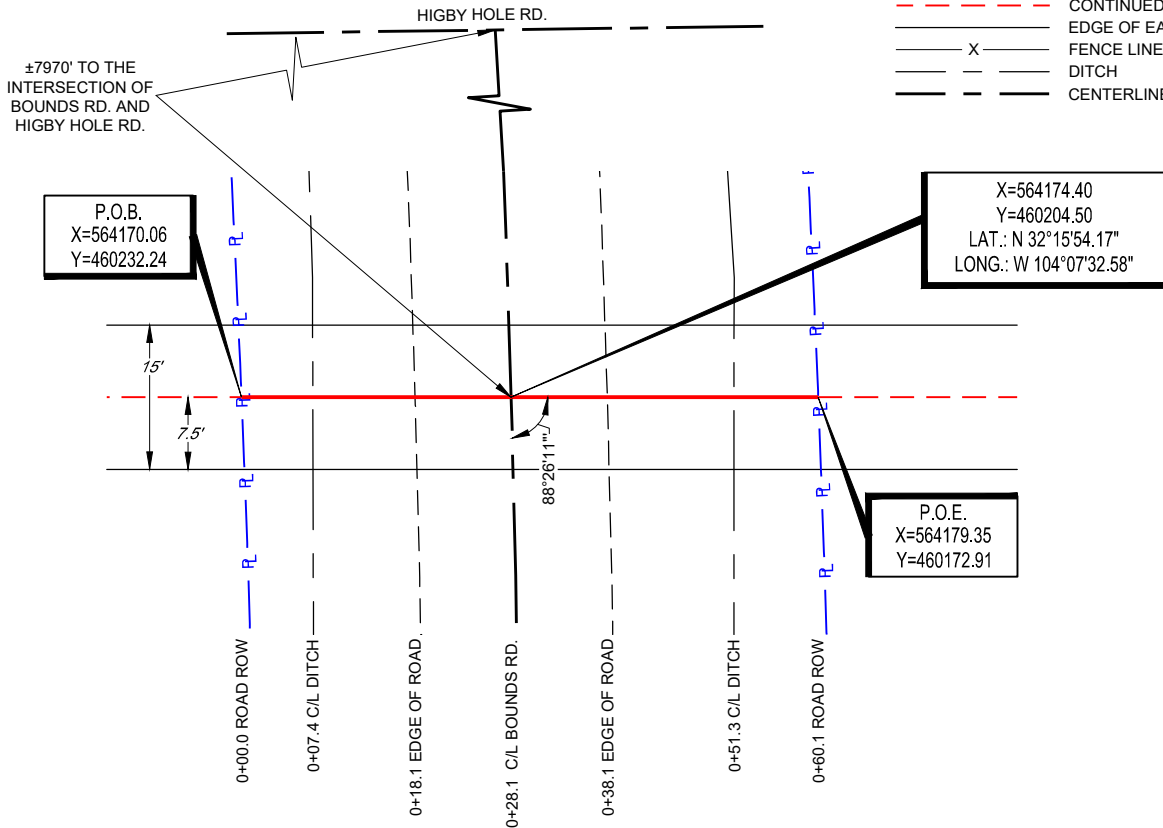
EXHIBIT "A"

SECTION 31, T-23-S, R-28-E
EDDY COUNTY, NEW MEXICO

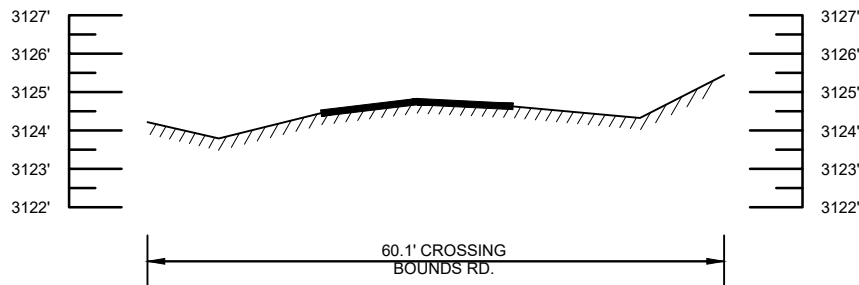


LEGEND

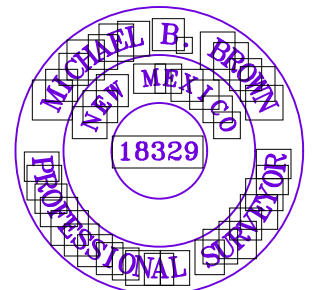
- ==== ROAD WAY
- R — ROAD RIGHT OF WAY
- SURVEYED BASELINE
- - - CONTINUED BASELINE
- EDGE OF EASEMENT
- X - FENCE LINE
- - - DITCH
- - - CENTERLINE OF ROAD



HORIZONTAL SCALE: 20'
VERTICAL SCALE: 5'



PLAN AND PROFILE OF A PROPOSED OVERHEAD
ELECTRIC LINE CROSSING BOUNDS ROAD
SECTION 31, TOWNSHIP 23-S, RANGE 28-E
EDDY COUNTY, NEW MEXICO



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TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
TEXAS FIRM REGISTRATION NO. 10042504
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Michael Blake Brown

Michael Blake Brown, R.P.L.S. No. 18329
JUNE 20, 2016

CHARLIE SWEENEY FEDERAL ELECTRICAL LINE -BOUNDS ROAD-	REVISION:	
DATE:	06/20/16	
FILE:	RP CHARLIE_SWEENEY_FEDERAL_ELECTRICAL_LINE_EASEMENT_BOUNDS	
DRAWN BY:	MML	
SHEET:	1 OF 1	

- NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 14"
 2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927.
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Appendix C – Plant Survey Report



Matador Production Company

**Proposed Charley Sweeney Federal 31-23S-28E RB, #123H, 203H, 207H, 223H, 227H (West Pad) and Charley Federal 31-23S-28E RB #124, 204H, 208H, 224H, 228H (East Pad)
Section 31, Township 23 South, Range 28 East, Eddy County, New Mexico**

Plant Survey Report

Prepared by Robyn W. Tierney, Permits West, Inc., Santa Fe, New Mexico

December 30, 2015

Revised August 5, 2016

Matador Production Company (Matador) proposes to drill five oil and gas wells (Charlie Sweeney Federal 01-24S-28E RB 123H, 203H, 207H, 223H, 227H) on one well pad (West pad), drill five additional oil and gas wells (Charlie Sweeney Federal 01-24S-28E RB 124H, 204H, 208H, 224H, 228H) on a second (East) well pad; install an access road to the well pads; install 1317.28 feet of new surface and buried flowlines; install 5791.73 feet of surface water line and construct 5751.65 feet of overhead electric line to the two proposed well pads. The proposed project is located on private land is located in the Culebra Bluff Field approximately 2.8 miles southwest of Loving, New Mexico.

This botanical survey report discusses the potential for disturbance to federal and state listed plant species and designated critical habitats protected under the Endangered Species Act (ESA, 16 USC 1531 et seq.) and the corresponding New Mexico State Endangered Plant Species List (EMNRD 2015) that have the potential to occur within Eddy County and the proposed (Charley Sweeney Federal 31-23S-28E RB #123) project area.

An endangered plant species is one that is considered in danger of becoming extinct throughout all or a significant portion of its range. A threatened species is one that is likely to become endangered within the foreseeable future. The federal Endangered Species Act (ESA) protects these listed species from harm or “take” which is broadly defined as to “harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or attempt to engage in any such conduct.” Any such activity includes destruction of habitat and can be defined as a “take” even if it is unintentional or accidental. The U.S. Fish and Wildlife Service (USFWS) has jurisdiction over federally listed threatened and endangered plant species.

In addition to federally listed endangered and threatened species, which are legally protected under the ESA, the USFWS has developed a list of proposed and candidate species, species of concern, and experimental populations. Proposed species are those for which a proposed rule to list them as

endangered or threatened has been published in the Federal Register; a designation that offers limited protection under the ESA. A candidate species is one for which the USFWS currently has enough information to support a proposal to list it as a threatened or endangered species under the Endangered Species Act (ESA), but for which development of a proposed listing regulation is precluded by other higher priority listing activities. A species of concern refers to a species that may be in decline or may require specific conservation actions. An experimental population is a reintroduced population established outside of its current range, but within its historical range and is treated as a proposed species. Candidate species, species of concern, and experimental populations are not afforded legal protection under the federal ESA or under Section 75-6-1 of the New Mexico Statutes Annotated (NMSA 1978).

The proposed project area was also surveyed for the potential presence of sensitive species identified from the New Mexico State Endangered Plant Species List (Section 75-6-1 NMSA 1978) and the New Mexico Bureau of Land Management State Office's (NMSO BLM) list of sensitive species, in accordance with BLM Manual 6840. Again, these species are not protected under the ESA, but are part of an overall effort by the BLM to focus management efforts toward maintaining habitats under a multiple use mandate.

Project Description

The project includes ten wells, two well pads (*East, West), an access road, new surface and buried flowlines; surface water line and an overhead electric line. Each well pad will measure 370-foot N/S by 430-foot E/W for a total of 3.65 acres on each pad site. Following interim reclamation, the two well pads will be reduced in size.

The proposed project is located on private surface lands in the E/2, Section 31, Township 23 South, Range 28 East, Eddy County, New Mexico (Loving, NM, 7.5 minute USGS quadrangle). The elevation of the project area ranges from 3092.4 feet at the southeast corner of the East well pad to 3106.8 feet at the northeast corner of the West well pad. Disturbances in the project area include: livestock grazing, a three-strand barb-wire fence and a two-track dirt access road that run north-south along the west boundary of the West well pad..

The area is in the Pecos Valley subsection of the Southern Great Plains physiographic province. The project area is located in a flat to gently sloping area containing transitional deposits of alluvial gravels and eolian dunes (NMBGMR 2004) and is dominated by a small outcrop or hill composed of the Virginia Member of Rustler Formation limestone (NMBGMR 2004). A canal, known as the Black River Supply Ditch, is located southeast of the outcrop and the southeast corner of the West well pad. Soils throughout the project area are composed of Reeves-Gypsum land complex, 0 to 3 percent slopes, and are derived from residuum weathered from gypsum (NMBGMR 2003, NRCS 2015). Reeves soils are typically found on back slopes, foot slopes, and shoulders of hills, and are composed of loam (0 to 8 inches), clay loams (8 to 32 inches) and gypsiferous materials (32 to 60 inches). These soils are well drained and have very low to moderately low capacity to transmit water (Ksat- 0.00 to 0.06 in/hr).

Vegetation in the project area is classified as Chihuahuan desert scrub (Brown 1998 2007). Dominant species observed throughout the project area included creosote (*Larrea tridentata*), tarbush (*Flourensia cernua*), whitethorn acacia (*Acacia constricta*), mesquite (*Prosopis glandulosa* var. *torreyana*), range ratany (*Krameria parvifolia*), snakeweed (*Gutierrezia sarothrae*), and a few allthorn shrubs (*Koeberlinia spinosa*) growing at the top of the hill. The area has been extensively grazed and growth of grasses and forbs was very limited across the entire project area. Grasses observed during the botanical survey included burrograss (*Schleropogon brevifolius*), traces of three-awn (*Aristida* sp.), gyp dropseed (*Sporobolus nealleyi*), alkali sacaton (*Sporobolus airoides*), sand bluestem (*Andropogon hallii*), tobosa (*Pleuraphis mutica*), and bush muhly (*Muhlenbergia porteri*). Native forbs included desert holly (*Acourtia nana*), spectaclepod (*Dimorphocarpa* sp) and prickle leaf dogweed (*Thymophyulla acerosa*).

METHODOLOGY

The proposed project area was surveyed on December 10, 2015 by botanist Robyn Tierney and again on July 29, 2016 by biologist, Geoff Carpenter. Weather during the December survey was clear and sunny with temperatures in upper 60s to mid-70s°F. Weather during the July 2016 survey was also clear with temperatures in low 100s°F. Prior to conducting the surveys, databases identifying the Threatened and Endangered plant species and species of concern listed by the U.S. Fish and Wildlife Service's Information, Planning, and Conservation System (IPaC 2016), the State of New Mexico's Endangered Plant Species Program (EMNRD 2015), the New Mexico Rare Plant Technical Committee (NMRPTC 1999, revised 2015), and the New Mexico State Office, Bureau of Land Management (NMSO-BLM) were examined.

The pedestrian surveys were conducted by walking a series of parallel belt transects spaced at 50 to 100-foot intervals, across the proposed well pads, a 50-foot wide area marking the limit of disturbance around the well pads, the proposed access road, the flowline corridors, the water line corridor, and the overhead electric line corridor. The purpose of the surveys was to inspect for and to identify federally listed species and other species of concern. All plants observed in the project area were identified in order to provide a more complete description of the project area's environment. A list of the plants observed in the project area is included at the end of this report in Table 2.

SURVEY RESULTS

Species of Interest to the U.S. Fish and Wildlife Service (USFWS) and the State of New Mexico: This report discusses the potential for disturbance to the plant species of concern identified by the U.S. Fish and Wildlife Service's Information, Planning, and Conservation System (IPaC 2016) the BLM, and the State of New Mexico Endangered Plant Species Program (EMNRD 2015, NMRPTC 1999, revised 2015) that may occur in the project area.

Details of the status, habitat, and the potential to occur in the project area for each of these species are presented in Table 1.

Table 1. Species of interest, status, habitat, and potential to occur in the project area.

SPECIES STATUS	HABITAT	POTENTIAL TO OCCUR IN THE PROJECT AREA*
<p><i>Amsonia tharpii</i> Tharp's blue-star</p> <p>USFWS: SoC</p> <p>State of New Mexico: E</p> <p>BLM: S</p>	<p>Occupies limestone and gypsum hills composed of sedimentary outcrops or alluvium derived from Upper Permian beds of the Rustler, Gatuña, and Castille Formations containing gypsum or Ogallala-like caliche fragments in Chihuahuan desert scrub communities; 3,100-3,500 ft. (NMRPTC 1999, Howard 2007, cited in Roth 2013).</p>	<p>Three known populations of this plant are located north, southwest, and southeast of the project area. While the hill/outcrop in project area is composed of the Virginia Member of the Rustler Formation, the project area has been extensively grazed and the species is not likely to occur within the project area. Habitat is marginally suitable, but species is not suspected to occur within the project area.</p>
<p><i>Anulocaulis leiosolenus</i> var. <i>gypsogenus</i> Pecos gyp ringstem</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: --</p>	<p>Species is confined to open gypsum outcrops and gypsum rich soils; 3,300 – 4,600 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is located in eolian rather than gypsic soils. No appropriate habitat</p>
<p><i>Aquilegia chaplinei</i> Chaplins columbine</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: S</p>	<p>Found near limestone seeps and springs in the montane scrub or riparian canyon bottoms of remote canyons; 4,700 – 5,500 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is over 1,000 feet lower than species elevational range. No appropriate habitat</p>
<p><i>Astragalus gypsodes</i> Gypsum milkvetch</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: S</p>	<p>Endemic to the gypsum flats and low gullied gypsic hills of the Castile Formation in Chihuahuan desert scrub; 3,500 – 4,000 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is located in eolian soils rather than gypsic soils. No appropriate habitat</p>

SPECIES STATUS	HABITAT	POTENTIAL TO OCCUR IN THE PROJECT AREA*
<p><i>Chaetopappa hersheyi</i> Hershey's cliff daisy</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: --</p>	<p>Endemic to steep canyons of the Guadalupe Mountains. Habitat consists of steep limestone cliffs in pinon-juniper woodland and Rocky Mountain montane coniferous forest communities; 5,000 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 2,000 feet lower than species elevational range. No appropriate habitat</p>
<p><i>Cirsium wrightii</i> Wright's marsh thistle</p> <p>USFWS: C</p> <p>State of New Mexico: E</p> <p>BLM: --</p>	<p>Obligate wetland species found in wet, alkaline soils of spring seeps and along the marshy edges of streams and ponds; (3,450 - 8,500 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub with no springs, seeps, or marshes. No appropriate habitat</p>
<p><i>Coryphantha robustispina</i> ssp. <i>scheeri</i> Scheer pincushion</p> <p>USFWS: C</p> <p>State of New Mexico: E</p> <p>BLM: S</p>	<p>Favors nearly level areas in desert grassland Chihuahuan desert scrub, usually found on gravelly or silty soils and occasionally on rocky limestone or gypseous benches or bajadas, 3,300 – 3,600 ft. (NMRPTC 1999).</p>	<p>While the hill/outcrop in project area is located in desert scrub on soils composed of the limestone rich Virginia Member of the Rustler Formation, the area has been extensively grazed and the species is not likely to occur within the project area. Habitat is marginally suitable, but species is not suspected to occur within the project area.</p>
<p><i>Dermatophyllum guadalupense</i> Guadalupe mesquite</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: S</p>	<p>Found in outcrops of pink, limy, fine-grained sandstone that is 1-2 percent gypsum by analysis with a surface pavement of limestone gravel and cobble, in Chihuahuan desert scrub and juniper savanna; 5,260 – 6,650 ft. (NMRPTC 1999).</p>	<p>Project area is nearly 2,000 feet lower than species elevational range. Only known Eddy County location straddles the Otero/Eddy county line and is limited to the Brokeoff Mountains and Upper Dog Canyon area of the Guadalupe Mountains in New Mexico and adjacent Culberson County, Texas (NMRPTC 1999) No appropriate habitat</p>

SPECIES STATUS	HABITAT	POTENTIAL TO OCCUR IN THE PROJECT AREA*
<p><i>Echinocereus fendleri</i> var. <i>kuenzleri</i> Kuenzler's hedgehog cactus</p> <p>USFWS: Endangered</p> <p>State of New Mexico: E</p> <p>BLM: E</p>	<p>Found on gentle, gravelly to rocky slopes and benches on limestone or limy sandstone in Great Plains grassland, oak woodland, or pinon-juniper woodland at the north end of the Guadalupe Mountains; 5,200 – 6,600 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 2,000 feet lower than species elevational range. No appropriate habitat</p>
<p><i>Ericameria nauseosa</i> var. <i>texensis</i> Guadalupe rabbitbrush</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: --</p>	<p>Endemic to the Guadalupe-Brokeoff range of mountains, plant is found in crevices on faces of limestone cliffs and adjacent to boulders of canyon woodlands; less frequently in open gravel alluvium of stream beds in pinon-juniper woodland and Chihuahuan desert scrub; 4,900 – 7,000 ft. (NMRPTC 1999).</p>	<p>Project area is located nearly 2,000 feet lower than species elevational range. No appropriate habitat</p>
<p><i>Eriogonum gypsophilum</i> Gypsum wild buckwheat</p> <p>USFWS: T</p> <p>State of New Mexico: E</p> <p>BLM: T</p>	<p>Plant is restricted to almost pure gypsum that is sparsely vegetated with other gypsophilous plants; 3,280 – 3,600 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is located in eolian soils rather than gypsic soils. No appropriate habitat</p>
<p><i>Escobaria guadalupensis</i> Guadalupe pincushion cactus</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: --</p>	<p>Plant is found in cracks in limestone and rocky soils of broken terrain in open oak and pinon-juniper woodland, also in lower montane coniferous forest and Chihuahuan desert scrub; 5,200 – 7,200 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 2,000 feet lower than species elevational range. No appropriate habitat</p>

SPECIES STATUS	HABITAT	POTENTIAL TO OCCUR IN THE PROJECT AREA*
<p><i>Escobaria sneedii</i> var. <i>leei</i> Lee's pincushion cactus</p> <p>USFWS: T</p> <p>State of New Mexico: E</p> <p>BLM: T</p>	<p>Plant is found in cracks in limestone in areas of broken terrain and steep slopes of Chihuahuan desert scrub of the Guadalupe Mountains; 4,000 – 5,000 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 1,000 feet lower than species elevational range. No appropriate habitat</p>
<p><i>Hedeoma apiculata</i> McKittrick pennyroyal</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: --</p>	<p>Endemic to the Guadalupe Mountains, plant is found in limestone crevices of steep canyon walls; usually on north-facing slopes or in areas that sheltered and relatively moist in the Guadalupe Mountains; 5,400 – 8,400 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 2,500 feet lower than species elevational range. No appropriate habitat</p>
<p><i>Hexalectris nitida</i> Shining crested coralroot</p> <p>USFWS: SoC</p> <p>State of New Mexico: E</p> <p>BLM: --</p>	<p>Plant is found in leaf litter under oaks in the deep canyons of the Guadalupe Mountains; 4,300 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is over 1,000 feet lower than species elevational range. No appropriate habitat</p>
<p><i>Hexalectris revoluta</i> Curly crested coralroot</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: S</p>	<p>Plant is found in heavy leaf litter under oaks or in thin humic soils among rock outcrops; 6,400 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 3,000 feet lower than species elevational range. No appropriate habitat</p>

SPECIES STATUS	HABITAT	POTENTIAL TO OCCUR IN THE PROJECT AREA*
<p><i>Justicia wrightii</i> Wright's justicia</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: --</p>	<p>Found in dry, gravelly clay soils over limestone on flats or on limestone benches on low hills in Chihuahuan desert scrub and shortgrass grasslands ; 3,900 ft. (NMRPTC 1999, Poole et al. 2007).</p>	<p>While the hill/outcrop in project area is located in desert scrub on soils composed of the limestone rich Virginia Member of the Rustler Formation, the project area has been extensively grazed and is nearly 1,000 feet lower than the species elevational range. No appropriate habitat</p>
<p><i>Linum allredii</i> Allred's flax</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: S</p>	<p>Plant is found on scarps and hillsides on exposed pale sandy gypsum of the Castile Formation in Chihuahuan Desert scrub; 3,900 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub on soils composed of the limestone rich Virginia Member of the Rustler Formation. No appropriate habitat</p>
<p><i>Muhlenbergia villiflora</i> var. <i>villosa</i> Hairy muhly</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: --</p>	<p>Found in open desert grassland and desert savanna on alkaline and calcareous soils; 4,800 – 5,200 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is over 1,000 feet lower than species elevational range. No appropriate habitat</p>
<p><i>Nama xylopodum</i> Cliff nama</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: --</p>	<p>Found in partly shaded limestone cliffs and outcrops in montane scrub to pinon-juniper oak woodlands of the Guadalupe Mountains; 4,500 – 6,500 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 1,500 feet lower than species elevational range. No appropriate habitat</p>

SPECIES STATUS	HABITAT	POTENTIAL TO OCCUR IN THE PROJECT AREA*
<p><i>Penstemon cardinalis</i> ssp. <i>regalis</i> Guadalupe penstemon</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: S</p>	<p>Plant is found on limestone slopes and canyon bottoms in montane scrub, pinon-juniper woodlands, and lower montane coniferous forests; 4,500 – 6,000 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 1,500 feet lower than species elevational range. No appropriate habitat</p>
<p><i>Perityle quinqueflora</i> Five-flowered rock daisy</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: --</p>	<p>Plant is found in crevices of limestone bluffs, cliffs in high canyons and caprock; 5,000 – 6,000 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 2,000 feet lower than species elevational range. No appropriate habitat</p>
<p><i>Polygala rimulicola</i> var. <i>rimulicola</i> Guadalupe milkwort</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: --</p>	<p>Plant is found in cool crevices of limestone cliffs in montane coniferous forests; 5,000 – 8,000 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 2,000 feet lower than species elevational range. No appropriate habitat</p>
<p><i>Salvia summa</i> Supreme sage</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: --</p>	<p>Restricted to partly shaded limestone cliffs in the Guadalupe mountains; 5,000 – 7,000 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 2,000 feet lower than species elevational range. No appropriate habitat</p>

SPECIES STATUS	HABITAT	POTENTIAL TO OCCUR IN THE PROJECT AREA*
<i>Solidago wrightii</i> var. <i>guadalupensis</i> Guadalupe Mountains goldenrod USFWS: SoC State of New Mexico: SoC BLM: --	Plant is found on limestone outcrops and substrates and is most commonly associated with acacia-juniperus-dasyliirion-lechuguilla, oak, oak-maple, and yellow pine-maple-hophornbeam-madrone vegetation types of the Guadalupe Mountains; 4,300 – 7,100 ft. (NMRPTC 1999).	Project area is located in desert scrub and is nearly 1,500 feet lower than species elevational range. No appropriate habitat
<i>Streptanthus sparsiflorus</i> Guadalupe jewelflower USFWS: SoC State of New Mexico: SoC BLM: S	Found in rugged limestone canyon bottoms and montane scrub; 5,000 – 7,000 ft. (NMRPTC 1999).	Project area is located in desert scrub and is nearly 2,000 feet lower than species elevational range. No appropriate habitat
<i>Valeriana texana</i> Texas tobacco- root USFWS: SoC State of New Mexico: SoC BLM: --	Plant is found in shaded, moist limestone or igneous cliffs, occasionally in canyon bottoms and in boulder fields in creek bottoms, within pinon-juniper woodland and montane coniferous forest; 5,200 – 8,000 ft. (NMRPTC 1999).	Project area is located in desert scrub and is nearly 2,000 feet lower than species elevational range. No appropriate habitat

Status USFWS – U.S Fish and Wildlife Service (federal) and New Mexico (state) listed species

Endangered (E) – An animal or plant species in danger of extinction throughout all or a significant portion of its range.

Threatened (T) – An animal or plant species likely to become endangered within the foreseeable future throughout all or a significant portion of its range.

Candidate (C) - Candidate species are plants and animals for which the U.S. Fish and Wildlife Service (FWS) has sufficient information on their biological status and threats to propose them as endangered or threatened under the Endangered Species Act (ESA), but for which development of a proposed listing regulation is precluded by other higher priority listing activities.

Sensitive (S) and Species of Concern (SoC)

Marginally suitable habitat for Scheer’s pincushion (*Coryphantha robustispina* ssp. *scheeri*) cactus, a federal Candidate species was observed on the hill/outcrop within the proposed West pad of the project area. However, no cacti were observed within the proposed project area. The project area has been extensively grazed and it is unlikely that the pincushion cactus is able to establish and grow in the area

because of damage from livestock hoof action. Therefore, construction of the proposed project will likely not impact the Scheer’s pincushion cactus or its habitat.

Marginally suitable habitat for Tharp’s blue-star (*Amsonia tharpii*), a USFWS species of concern and a state Endangered species was also observed on the hill/outcrop within the project area. However, no individual plants were observed within the proposed project area. The project area has been extensively grazed and it is unlikely that a population of this plant has persisted because of grazing pressure. Therefore, construction of the proposed project will likely not affect the Tharp’s blue-star its habitat.

No federal or state listed plant species were observed in the project area (IPaC 2014, EMNRD 2015, NMRPTC 1999, revised 2015). No BLM plant species of concern were observed in the project area.

Plant species that were observed during the survey are listed in Table 2 below. Plant identifications are based on a variety of sources including: Poole et al. (2007) *Rare Plants of Texas* and the herbarium holdings and database in the Centennial Museum, University of Texas, El Paso (Centennial Museum, UTEP 2015). Scientific names are from these sources and from the USDA Plants Database (2015).

Table 2. Plants observed in the vicinity of the proposed Charlie Sweeney Federal 31-23S-28E RB project area

Scientific Name	Common Name
Shrubs and Subshrubs	
<i>Atriplex canescens</i>	Four-wing saltbush
<i>Condalia ericoides</i>	Javelina bush
<i>Flourensia cernua</i>	Tarbush
<i>Gutierrezia sarothrae</i>	Snakeweed
<i>Koeberlinia spinosa</i>	Allthorn
<i>Krameria parvifolia</i>	Range ratany
<i>Larrea tridentata</i>	Creosote
<i>Lycium berlandieri</i>	Berlandier wolfberry
<i>Prosopis glandulosa var. torreyana</i>	Torrey mesquite
<i>Acacia constricta</i>	Whitethorn acacia
Grasses and Grass-like Plants	
<i>Andropogon hallii</i>	Sand bluestem
<i>Aristida spp.</i>	Three-awn species
<i>Muhlenbergia porteri</i>	Bush muhly
<i>Pleuraphis mutica</i>	Tobosa
<i>Schleropogon brevifolius</i>	Burrograss
<i>Sporobolus airoides</i>	Alkali sacaton
<i>Sporobolus nealleyi</i>	Gyp dropseed
Forbs	

<i>Acourtia nana</i>	Desert holly
<i>Dimorphocarpa sp.</i>	Spectacle pod
<i>Isocoma tenuisecta</i>	Burroweed
<i>Thymophylla acerosa</i>	Prickleleaf dogweed
<i>Yucca glauca</i>	Soapweed yucca

No perennial streams, alkali seeps or wetlands were recorded in the immediate area of the project line (USFWS 2015, National Wetlands Inventory) and none were observed within the boundaries of the well pad, access road, or buffer zone around these features.

No noxious weed species listed by the New Mexico Department of Agriculture (NMDA, Gonzales 2009), were observed in the proposed project area.

DISCUSSION

The U.S. Fish and Wildlife Service’s Information, Planning, and Conservation System (IPaC 2016) the State of New Mexico (EMNRD 2015)), and the New Mexico Rare Plant Technical Committee (NMRPTC 1999, revised 2014) list 27 Threatened, Endangered or species of concern in the project area or Eddy County, New Mexico. No federal or state listed plant species or suitable habitats for 26 of these species were observed in the project area (IPaC 2014, EMNRD 2015, NMRPTC 1999, revised 2015).

Marginally suitable habitat for Scheer’s pincushion (*Coryphantha robustispina* ssp. *scheeri*) cactus, a federal Candidate species was observed on the hill/outcrop within the project area. However, no cacti were observed within the proposed project area. The project area has been extensively grazed and it is unlikely that the pincushion cactus is able to establish and grow in the area because of damage from livestock hoof action. Therefore, construction of the proposed project will likely not impact the Scheer’s pincushion cactus.

Marginally suitable habitat for Tharp’s blue-star (*Amsonia tharpii*), a USFWS species of concern and a state Endangered species was also observed on the hill/outcrop within the project area. However, no individual plants were observed within the proposed project area. The project area has been extensively grazed and it is unlikely that a population of this plant has persisted because of grazing pressure. Therefore, construction of the proposed project will likely not affect the Tharp’s blue-star its habitat.

The proposed Charlie Sweeney, Federal RB 31-23S-28E project would have no effect on any federally listed threatened or endangered plant species. Furthermore, no critical habitat occurs within or near the proposed project and the proposed project would not modify current or proposed critical habitat. Therefore no USFWS consultation is necessary for this project.

RECOMMENDATIONS

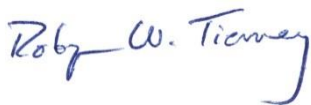
- Earth-moving equipment should be washed prior to being brought onto the site to help prevent the introduction of noxious weeds to the project area.
- Topsoil stockpiles within the project area will be exposed during development and expansion of the well pads and associated reserve pits. The project area will be subject to erosion while soils remain bare. Surface disturbance will exceed one acre and the project will require a Storm Water Pollution Prevention Plan (SWPPP).
- Upon completion of the project, successful reclamation of the project area should include clean-up of all materials and equipment. Revegetation of the project area should include use of certified weed-free native seed mixes approved by the BLM Carlsbad Field Office that are compatible with wildlife habitat requirements and the current land use of rangeland.

CONCLUSIONS

The proposed Charlie Sweeney, Federal RB 31-23S-28E project would have no effect on federal or state listed threatened, endangered, or candidate plant species. Furthermore, no critical habitat occurs within or near the proposed project and the proposed project would not modify existing or proposed critical habitat. Therefore no USFWS consultation is necessary for this project.

Report Preparer and Certification

The results and conclusions contained in this report represent my best professional judgment and are based on actual field examination, field notes from Dr. Geoff Carpenter, information provided by the project proponent, applicable agencies, and other sources.



Signature of Author:
Robyn W. Tierney

December 30, 2015
Revised August 5, 2016
Permits West, Inc.
37 Verano Loop
Santa Fe, NM 87508
(505) 466-8120

REFERENCES

- Bureau of Land Management (BLM). 2008. BLM Manual 6840, Special Status Species Management, December 2008.
- Brown, D.E., F. Reichenbacher, and S.E. Franson. 1998. A Classification of North American Biotic Communities. University of Utah Press, Salt Lake City.
- Brown, D.E., T.C. Brennan, and P.J. Unmack. 2007. A Digitized Biotic Community Map. *Canotia*. 3 (1): 1-12.
- Centennial Museum, University of Texas. 2015. Chihuahuan Desert Plant Database. Available at: <http://museum2.utep.edu/chih/gardens/list/list.htm>, accessed December 14, 2015.
- Environmental Conservation Online Service, U.S. Fish and Wildlife Service (ECOS). 2015. Endangered Species Glossary. Accessed December 5, 2015 and July 28, 2016.
- Gonzales, I.M. 2009. New Mexico Noxious Weed List. New Mexico Dept. of Agriculture (NMDA) memorandum dated April 1, 2009. New Mexico State University, Las Cruces.
- Howard, M. 2007. Inventory of Tharp's bluestar in the Carlsbad Area: Report on 2006 field survey. May 11, 2007 memorandum, report and GIS habitat model to the Bureau of Land Management, Carlsbad Field Office.
- Information, Planning, and Conservation System (IPAC), U.S. Fish and Wildlife Service, U.S. Department of the Interior, Listed and Sensitive Species. 2016. <https://ecos.fws.gov/ipac/wizard/trustResourceList!prepare.action>, accessed December 5, 2015 and July 28, 2016.
- New Mexico Bureau of Geology and Mineral Resources (NMBGMR). 2003. *Geologic Map of New Mexico*. 1:500,000.
2004. Pederson, Joel L.; Dehler, Carol M. *Geologic Map of the Loving Quadrangle, Eddy County, New Mexico*. New Mexico Bureau of Geology and Mineral Resources Open-file Digital Geologic Map OF-GM 077. <http://geoinfo.nmt.edu/publications/maps/geologic/ofgm/downloads/77/LovingReport.pdf>, accessed December 30, 2015.
- New Mexico Endangered Plant Program (Energy, Minerals, and Natural Resources Department, Forestry Division, EMNRD, NMSF). 2015. http://www.emnrd.state.nm.us/SFD/ForestMgt/documents/NMENDANGEREDPLANTList_000.pdf, accessed December 10 and 30, 2015.
- New Mexico Rare Plant Technical Council (NMRPTC). 1999. New Mexico Rare Plants. Albuquerque, NM: New Mexico Rare Plants Home Page. <http://nmrareplants.unm.edu> (Latest update: 20 April 2015), accessed December 5, 2015 and July 29, 2016.

Ken Heil and Joey Herring. 1999. Taxon report for *Amsonia tharpii*, Tharp's blue-star. http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=9

Richard Spellenberg. 1999. Taxon report for *Anulocaulis leiosolenus* var. *gypsogenus*, Pecos gypsum ringstem. http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=11.

Ken Heil and Joey Herring. 1999; last updated 2007. Taxon report for *Aquilegia chaplinei*, Chapline's columbine. http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=13

Ken Heil and Joey Herring. 1999. Taxon report for *Astragalus gypsodes*, Gypsum milkvetch. http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=24

Ken Heil and Joey Herring. 1999. Taxon report for *Chaetopappa hersheyi*, Hershey's cliff daisy. http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=47

Patricia Barlow-Irick 1999; last updated 2009. Taxon report for *Cirsium wrightii*, Wright's marsh thistle. http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=52

David J. Ferguson, 1999; last updated 2014. Taxon report for *Coryphantha robustispina* ssp. *sheeri*, Scheer's pincushion. http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=55

Robert Sivinski, 1999; last updated 2012. Taxon report for *Dermatophyllum guadalupense*, Guadalupe mescal bean. http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=174

David J. Ferguson and Charlie McDonald. 1998; last updated 2006. Taxon report for *Echinocereus fendleri* var. *kuenzleri*, Kuenzler's hedgehog cactus. http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=70

Ken Heil and Joey Herring. 1999. Taxon report for *Ericameria nauseosa* var. *texensis*, Guadalupe rabbitbrush. http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=48

Charlie McDonald. 1999. Taxon report for *Eriogonum gypsophilum*, Gypsum wild buckwheat. http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=82

David J. Ferguson. 1998; last updated 2006. Taxon report for *Escobaria guadalupensis*, Guadalupe pinchusion cactus. http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=84

David J. Ferguson. 1998; last updated 2006. Taxon report for *Escobaria sneedii* var. *leei*, Lee's pinchusion cactus. http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=56

Charlie McDonald. 1999; last updated 2009. Taxon report for *Hedeoma apiculata*, McKittrick pennyroyal. http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=91

Tom Todsen and Richard Spellenberg. 2000; last updated 2000. Taxon report for *Hexalectris nitida*, Shining crested coralroot. http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=99

Charlie McDonald. 1999; last updated 2010. Taxon report for *Hexalectris revoluta*, Curly crested coralroot. http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=224

Ken Heil and Joey Herring. 1999. Taxon report for *Justicia wrightii*, Wright's justicia. http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=106

- Robert Sivinski, 2011. Taxon report for *Linum allredii*, Allred's flax.
http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=231
- Kelly Allred. 1999. Taxon report for *Muhlenbergia villiflora* var. *villosa*, Hairy muhly.
http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=119
- Richard D. Worthington. 1999. Taxon report for *Nama xylopodum*, Cliff nama.
http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=120
- Ken Heil and Joey Herring. 1999. Taxon report for *Penstemon cardinalis* ssp. *regalis*, Guadalupe penstemon. http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=132
- Yvonne Chauvin. 1999. Taxon report for *Perityle quinqueflora*, Five-flowered rock daisy.
http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=141
- Robert Sivinski, 1999. Taxon report for *Polygala rimulicola* var. *rimulicola*, Guadalupe milkwort.
http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=152
- Richard D. Worthington. 1999. Taxon report for *Salvia summa*, Supreme sage.
http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=161
- Donovan Bailey. 2009. Taxon report for *Solidago wrightii* var. *guadalupensis*, Guadalupe Mountain goldenrod. http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=225
- David Bleakly. 1999; last updated 2011. Taxon report for *Streptanthus sparsiflorus*, Guadalupe jewelflower. http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=178
- Denis M. Kearns. 1999. Taxon report for *Valeriana texana*, Texas tobacco-root.
http://nmrareplants.unm.edu/rarelist_single.php?SpeciesID=183
- Poole, J. M., W. R. Carr, D. M. Price, and J. R. Singhurst. 2007. *Rare Plants of Texas*. Texas A & M University Press, College Station.
- Roth, D. 2013. Status Report *Amsonia tharpii* (Tharp's bluestar) on NM State Trust Lands (Section 6, Segment 27). New Mexico Energy, Minerals, and Natural Resources Department, Forestry Division. http://www.emnrd.state.nm.us/SFD/ForestMgt/documents/S6_AMSTHA_27.pdf, accessed December 30, 2015.
- U.S. Department of Agriculture (USDA). 2015. The PLANTS Database <http://plants.usda.gov>, accessed: December 30, 2015. National Plant Data Team, Greensboro, NC 27401-4901 USA.
- U.S. Department of Agriculture (USDA), Natural Resources Conservation Services (NRCS), U.S. Department of Agriculture. 2015. Web Soil Survey. <http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>, accessed December 10 and 30, 2015 and July 28, 2016.
- U.S. Department of the Interior (DOI), Bureau of Land Management, New Mexico State Office. "Sensitive Species List". Accessed December 10 and 30, 2015.

U.S. Department of the Interior (DOI), U.S. Fish and Wildlife Service (USFWS). 2015. National Wetlands Inventory, <http://www.fws.gov/wetlands/Data/Mapper.html>, accessed December 10 and 30, 2015 and July 28, 2016.

Appendix D – Wildlife Survey Report



Matador Production Company

**Proposed Charlie Sweeney Federal 31-23S-28E RB, #123H, 203H, 207H, 223H, 227H (West Pad) and Charlie Federal 31-23S-28E RB #124, 204H, 208H, 224H, 228H (East Pad)
Section 31, Township 23 South, Range 28 East, Eddy County, New Mexico**

**Threatened, Endangered, and Special Status Wildlife Species Report
January 14, 2016, revised August 5, 2016**

Introduction

Matador Production Company (Matador) proposes to drill five oil and gas wells (Charlie Sweeney Federal 01-24S-28E RB 123H, 203H, 207H, 223H, 227H) on one well pad (West pad), drill five additional oil and gas wells (Charlie Sweeney Federal 01-24S-28E RB 124H, 204H, 208H, 224H, 228H) on a second (East) well pad; install an access road to the well pads; and install production flowlines from the two proposed well pads, install a water line to the two wells from an existing frac pond, and install an overhead electric power line.

The proposed project is located on private land is located in the Culebra Bluff Field approximately 2.8 miles southwest of Loving, New Mexico.

Methods

Prior to the field surveys, the following databases were reviewed:

- U.S. Fish and Wildlife Service (USFWS IPaC 2016) *Listed and Sensitive Species in Eddy County* (downloaded and reviewed December 9, 2015 and again on January 14, 2016 and July 28, 2016)
- New Mexico Department of Game and Fish Biota Information System of New Mexico (BISON-M), 2016. *Threatened, Endangered, and Sensitive Wildlife Species for Eddy County, New Mexico* (downloaded and reviewed December 9, 2015 and again on January 14, 2016 and July 28, 2016)

On December 10, 2015, Wildlife Biologist Charles Black conducted a pedestrian survey of the project area to inspect for the potential presence of threatened, endangered, or special status species. Weather during the survey was clear and breezy, with daytime highs around 65 °F.

The surveyed area consisted of the two proposed well sites, and a 50-foot buffer around the two well pads, the proposed flowline corridor and the proposed pipeline corridor.

On July 29, 2016, Charles Black conducted a second pedestrian survey of the project area to inspect for the potential presence of threatened, endangered, or special status species. Weather during the survey was warm and dry with daytime highs around 100 °F. °F. The surveyed area consisted of the two well pads and a 50-foot buffer around the flowline, access road, overhead electric line, and water line easements. Habitat and existing conditions were evaluated in both surveys. The surveyor used 10 x 40 binoculars and surveyed for raptor nests in a half-mile radius around the project area.

Description of Existing Habitat

The project scope consists of developing ten wells, ten horizontal oil and gas wells and constructing the associated infrastructure including: two well pads (East and West pads); 5500.64 feet of access road; construct 1317.28 feet of new surface and buried flowlines; install 5791.73 feet of surface water line and construct 5751.65 feet of overhead electric line. Topography at the site is gently rolling to hilly. The West well pad is built on top of a small hill. The project area is 3105 feet in elevation.

Vegetation is dominated by slightly degraded Chihuahuan desert shrubland. Dominant shrubs included creosote bush (*Larrea spp.*) and honey mesquite (*Prosopis glandulosa*). Grass cover is moderate. Wildlife occurring in the area, include passerines such as Black-throated sparrows (*Amphispiza bileanata*), Brewer's sparrows (*Spizella breweri*), as well as jackrabbits (*Lepus spp.*), and whiptail lizards (*Aspidoscelis spp.*), which are typical of degraded, brush encroached grasslands and scrublands of the Chihuahuan Desert.

Threatened, Endangered, and Special Status Wildlife Species Federal Species

The following table (Table 1) discusses federal endangered and threatened species of Eddy County with the potential to occur at or near the project area.

Table 1. Federal Endangered, Threatened, and Special Status Species, Eddy County, NM

Species	Status	Habitat	Potential to Occur in Project Area*
Northern Aplomado Falcon (<i>Falco femoralis septentrionalis</i>)	Federal Endangered /Experimental Population	Formerly resident in Chihuahuan Desert grassland, now rare. An experimental reintroduction program is being conducted in Sierra County, New Mexico	NP-see discussion
Lesser Prairie- Chicken (<i>Thympanuchus pallidicinctus</i>)	USFWS Threatened	This species is obligate to shiner oak (<i>Quercus harvardii</i>) stands in sand dunes	NP-see discussion
Sprague's pipit (<i>Anthus spragueii</i>)	Federal Candidate (not warranted for listed, see USFWS findings, April 2016, Federal Register	Migrates and occasionally overwinters in grassland areas of southeastern New Mexico	NS-See discussion

***Potential to Occur in Project Area**

- K - Known, documented observation within project area
- S - Habitat suitable and species suspected to occur within the project area
- NS - Habitat suitable but species is not suspected to occur within the project area
- NP - Habitat not present and species unlikely to occur within the project area

State of New Mexico, Threatened and Special Status Species

The following table discusses state threatened and special status species of Eddy County with potential to occur at or near the project area.

Table 2. State of New Mexico Endangered, Threatened, and Special Status Species, Eddy County, NM

Species	Status	Habitat	Potential to Occur in Project Area*
Baird's sparrow (<i>Ammodrammus bairdi</i>)	NM State Threatened	Migrates and occasionally overwinters in grassland areas of southeastern New Mexico	NS-See discussion
Loggerhead shrike (<i>Lanius ludovicianus</i>)	NM State Sensitive taxa	Widespread; occurs within Chihuahuan Desert shrublands	S-See discussion
Dune Sagebrush Lizard (<i>Sceloporus arenicolus</i>)	NM State Threatened	Occurs only the shiner /sand dune habitats, generally requires deep dune fields	NP-See discussion
Swift fox (<i>Vulpes velox</i>)	NM State Sensitive taxa	Occurs in mesa country and grasslands of NE New Mexico	S-See discussion

***Potential to Occur in Project Area**

- K - Known, documented observation within project area

S - Habitat suitable and species suspected to occur within the project area
NS - Habitat suitable but species is not suspected to occur within the project area
NP - Habitat not present and species unlikely to occur within the project area

Migratory Birds

Migratory birds are protected under the Migratory Bird Treaty Act. Birds protected under the Act include all common songbirds, waterfowl, shorebirds, hawks, owls, eagles, ravens, crows, native doves and pigeons, swifts, martins, swallows and others, including their body parts (feathers, plumes etc.), nests, and eggs. The Act protects migratory birds from a “take”. Take is defined as “to pursue, hunt, shoot, wound, kill, trap, capture, or collect, or any attempt to carry out these activities”. A “take” does not include habitat destruction or alteration, as long as there is not a direct taking of birds, nests, eggs, or parts thereof.

Six bird species observed during the wildlife surveys are protected under the Migratory Bird Treaty Act (see the species list below). If measures in the recommendation section of this report are followed, these species should not be adversely impacted by the proposed project.

Harris’ Hawk

This species has no federal, state or BLM protected status, but is afforded protection under the Migratory Bird Treaty Act.

An active Harris’ hawk nest was observed atop a windmill, approximately 40 feet north of the water line/pipeline route during the July 29, 2016 wildlife survey. Two adults were seen near the nest, and one egg was found inside the nest. The adults did not protest the wildlife biologist’s presence near the nest, indicating that they had likely abandoned the nest at some point earlier in the season.

If the measures outlined in the Recommendation section of this report (below) are followed, there should be no adverse impact to individuals or the species.

Discussion

Northern Aplomado Falcon

This raptor was formerly a resident in Chihuahuan Desert grasslands of southern New Mexico. It is currently very rare in terms of its natural occurrence. A reintroduction of this species occurred in Sierra County, New Mexico in 2005. This location is approximately 150 miles to the west of the proposed well site. Historic populations of this species required large spans of continuous desert grasslands with sporadic large, fire-resistant yucca stands for nest sites.

Grassland habitat at the proposed site is far too degraded to be suitable falcon habitat and sufficient yucca stands are entirely lacking.

No suitable habitat is located at or near the proposed site.

Lesser Prairie Chicken

This species requires monotypic stands of shiner oak in sand dune habitat. In recent decades, this vegetation type has receded in southern Lea and Eddy counties due to fragmentation and desertification. Based on wildlife surveys, the habitat present at the site is not suitable for Prairie chickens.

No suitable habitat is located at or near the proposed site.

Sprague's Pipit

This grassland passerine migrates through grassland areas in eastern New Mexico where it occasionally overwinters. It could potentially occur in the project area, although the habitat is marginal. Pipits typically migrate through southeastern New Mexico in March and April (spring), and August-early September (fall). On April 5, 2016, the USFWS determined that Sprague's Pipit is not warranted for listing and proposed to remove the species from candidate status (Federal Register 2016). Given the rarity of the species, and the small size of the proposed disturbance, this species should not be adversely impacted by the proposed project.

Baird's Sparrow

This grassland sparrow migrates through grassland areas on eastern New Mexico. It could potentially occur in the project area, although habitat is marginal. Baird's sparrows are rare, but the scarcity of credible reports may be due to the furtive nature of the species. Baird Sparrows migrate through southeastern New Mexico in March and April (spring), and August-early September (fall). Given the rarity of the species, and the small size of the proposed disturbance, this species should not be adversely impacted by the proposed project.

Loggerhead Shrike

This species is widespread and common throughout the Chihuahuan Desert shrublands of southeastern New Mexico. Given the common occurrence of the species, and the small size of the proposed disturbance, this species should not be adversely impacted by the proposed project.

Dune Sagebrush Lizard

This species generally requires deep sand dunes within the shiner oak community. Based on this wildlife survey, the habitat present at the site is not suitable for lizards, as there are no dunes or stands of oak in the project area. Given the unsuitable habitat and the small size of

the proposed disturbance, this species should not be adversely impacted by the proposed project.

Swift Fox

This species could potentially occur in the project area. No potential fox burrows were observed in the project area. Given the small size of the proposed disturbance, this species should not be adversely impacted by the proposed project.

Harris' Hawk

This species has no federal, state or BLM protected status, but is afforded protection under the Migratory Bird Treaty Act.

An active Harris' hawk nest was observed atop a windmill, approximately 40 feet north of the water line/pipeline route during the July 29, 2016 wildlife survey. Two adults were seen near the nest, and one egg was found inside the nest. The adults did not protest the wildlife biologist's presence near the nest, indicating that they had likely abandoned the nest at some point earlier in the season.

If the measures outlined in the Recommendation section of this report (below) are followed, there should be no adverse impact to individuals or the species.

Wildlife Species Observed on December 10, 2015 and on July 29, 2016

Avian Species

Swainson's hawk (*Buteo swainsoni*)
Harris' hawk (*Parabuteo unicinctus*)
Scaled quail (*Callipepla squamata*)
Chihuahuan raven (*Corvus cryptoleucus*)
Loggerhead shrike (*Lanius ludovicianus*)
Black-throated sparrow (*Amphispiza bileanata*)
Cassin's sparrow (*Aimophila cassinii*)
Sagebrush sparrow (*Amphispiza belli*)
Eastern meadowlark (*Sturnella magna*)

Mammalian species

Coyote (*Canis latrans*)
Woodrat (*Neotoma* spp.)

Mammalian observations were generally made from tracks, scat, and other sign.

Reptile species

Little striped whiptail (*Aspidoscelis inornatus*)

Recommendations

It is recommended that construction of the water line/pipeline portion of the project be conducted outside of the Harris' Hawk nesting and fledging season (February 1-August 31). This is to ensure that the hawks aren't forced to abandon nesting efforts due to noise or harassment.

The nest was located at (UTM, NAD 83): 581975, 356923

There are no other recommendations regarding wildlife in association with this proposed project.

References

Federal Register. April 5, 2016. Endangered and Threatened Wildlife and Plants; 12-Month Findings on Petition to List Island Marble Butterfly, San Bernardino Flying Squirrel, Spotless Crake, and Sprague's Pipit as Endangered or Threatened Species. Proposed rule, 81, FR 19527 pages 19527-19542. <https://federalregister.gov/a/2016/07809>, accessed April 30, 2016.

New Mexico Department of Game and Fish. *Biota Information System of New Mexico* (BISON-M), 2016. *Report County Threatened, Endangered, and Sensitive Table for Eddy County*. <<http://www.bison-m.org/reports.aspx?rtype=9>> Accessed December 9, 2015, January 14, 2016, and July 28, 2016.

U.S. Fish and Wildlife Service (USFWS). *Information, Planning, and Conservation System (IPaC), Listed and Sensitive Species*. 2016. <<https://ecos.fws.gov/ipac/>> Accessed December 9, 2015, January 14, 2016, and July 28, 2016.