

Carlsbad Field Office OCD Artesia

Form 3160-3
(March 2012)

NATIONAL OIL CONSERVATION
ARTESIA DISTRICT

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ARTESIA DISTRICT
MAY 15 2017

APPLICATION FOR PERMIT TO DRILL OR REENTER

RECEIVED

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM-003677
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. STEBBINS 19 FED 124H - 317744
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 360' FSL & 130' FEL 19-20S-29E At proposed prod. zone 330' FSL & 240' FWL 19-20S-29E		9. API Well No. 30-015- 44173
14. Distance in miles and direction from nearest town or post office* 11 MILES NE OF CARLSBAD, NM		10. Field and Pool, or Exploratory RUSSELL; BONE SPRING
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) SHL: 2280' BHL: 240'	16. No. of acres in lease BLM lease = 2150.97 acres	11. Sec., T. R. M. or Blk. and Survey or Area SHL: SESE 19-20S-29E NMPM BHL: Lot 4 19-20S-29E NMPM
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. SHL: 30' Steb. 19 114H BHL: 615' (ditto)	17. Spacing Unit dedicated to this well Lot 4, SESW, & S2SE4 19-20S-29E	12. County or Parish EDDY
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3242' UNGRADED	19. Proposed Depth TVD: 7710' MD: 12191'	13. State NM
22. Approximate date work will start* 01/02/2017		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:

- | | |
|---|---|
| <ol style="list-style-type: none"> 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). | <ol style="list-style-type: none"> 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 08/28/2016
---------------	--	--------------------

Title CONSULTANT (FAX: 505 466-9682)

Approved by (Signature)	Name (Printed/Typed) Cody N. Layton	Date 05/10/17
-------------------------	--	------------------

Title **Asst FIELD MANAGER** Office **CARLSBAD FIELD 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.

APPROVAL FOR TWO YEARS

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)

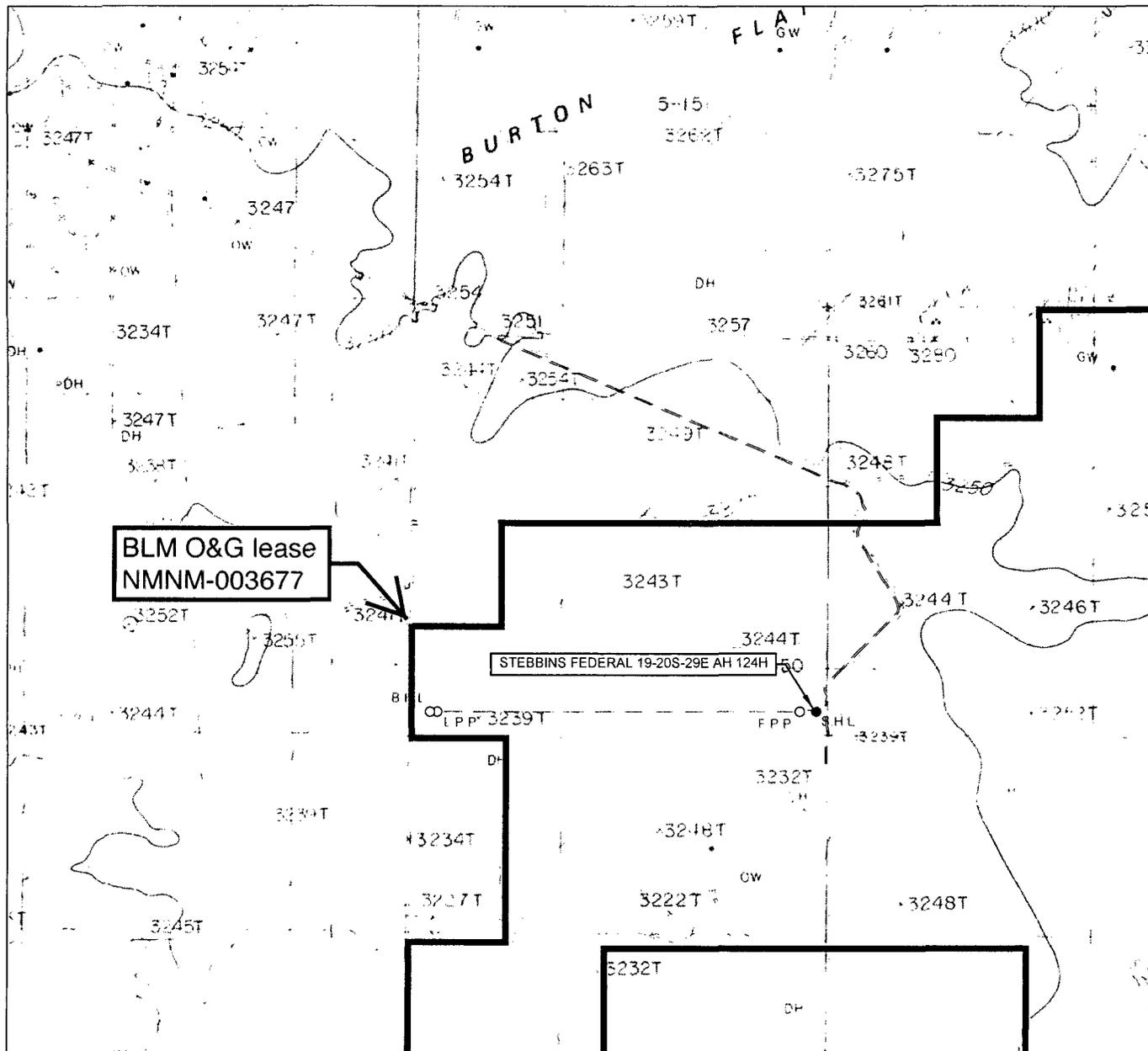
*(Instructions on page 2)

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

MF

5-19-17 RUP

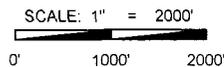
LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: STEBBINS FEDERAL 19-20S-29E AH #124H

SECTION 19 TWP 20-S RGE 29-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM ELEVATION 3242'
 DESCRIPTION 360' FSL & 130' FEL

LATITUDE N 32.5525904 LONGITUDE W 104.10569868



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.

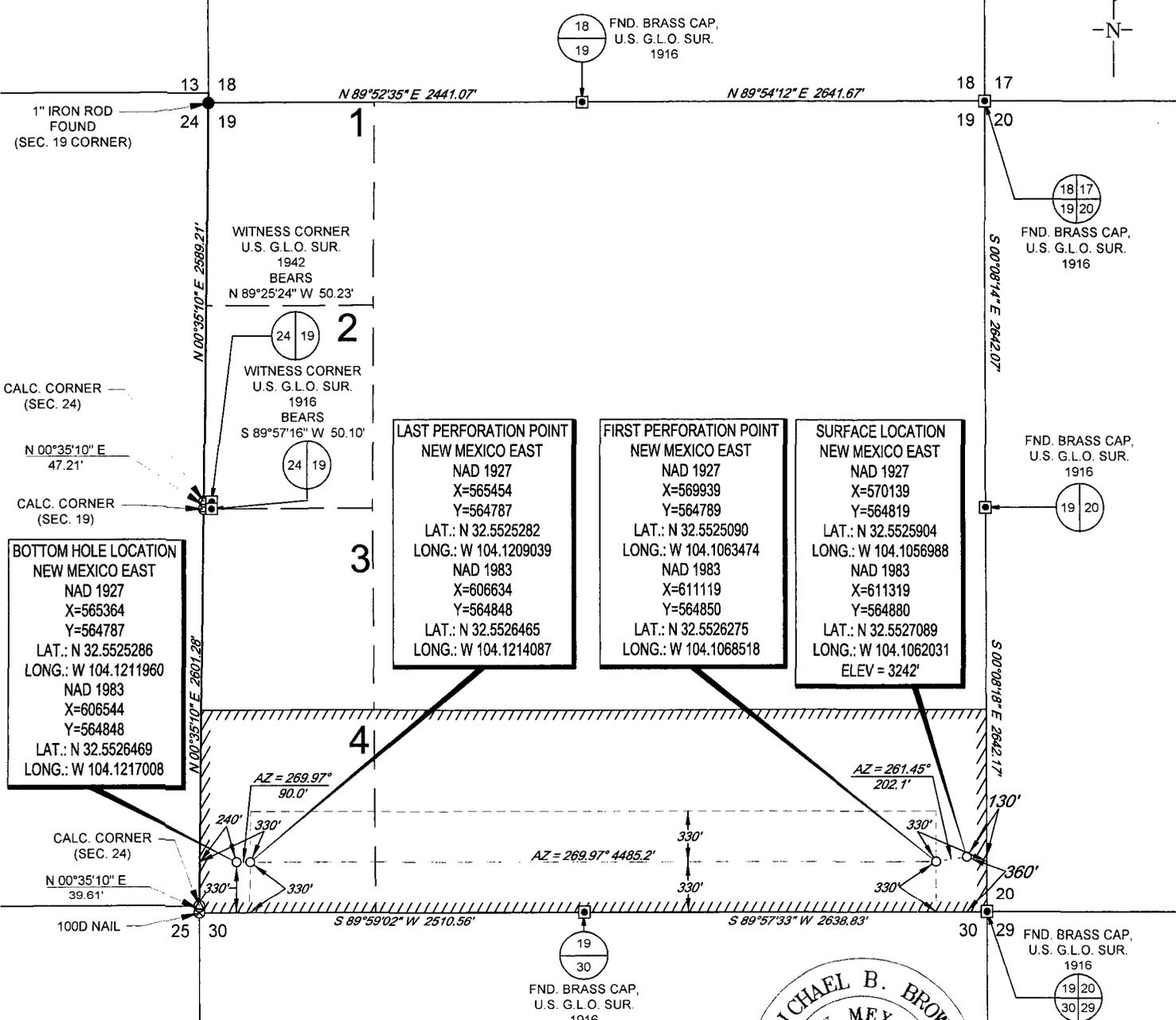


1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM

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



SECTION 19, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO



LAST PERFORATION POINT
 NEW MEXICO EAST
 NAD 1927
 X=565454
 Y=564787
 LAT.: N 32.5525282
 LONG.: W 104.1209039
 NAD 1983
 X=606634
 Y=564848
 LAT.: N 32.5526465
 LONG.: W 104.1214087

FIRST PERFORATION POINT
 NEW MEXICO EAST
 NAD 1927
 X=569939
 Y=564789
 LAT.: N 32.5525090
 LONG.: W 104.1063474
 NAD 1983
 X=611119
 Y=564850
 LAT.: N 32.5526275
 LONG.: W 104.1068518

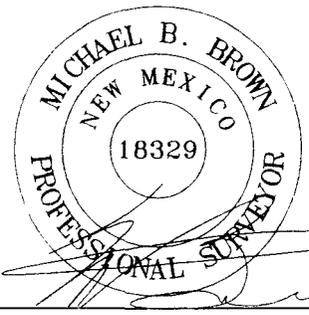
SURFACE LOCATION
 NEW MEXICO EAST
 NAD 1927
 X=570139
 Y=564819
 LAT.: N 32.5525904
 LONG.: W 104.1056988
 NAD 1983
 X=611319
 Y=564880
 LAT.: N 32.5527089
 LONG.: W 104.1062031
 ELEV = 3242'

BOTTOM HOLE LOCATION
 NEW MEXICO EAST
 NAD 1927
 X=565364
 Y=564787
 LAT.: N 32.5525286
 LONG.: W 104.1211960
 NAD 1983
 X=606544
 Y=564848
 LAT.: N 32.5526469
 LONG.: W 104.1217008

LEASE NAME & WELL NO.: STEBBINS FEDERAL 19-20S-29E AH #124H
 SECTION 19 TWP 20-S RGE 29-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM
 DESCRIPTION 360' FSL & 130' FEL

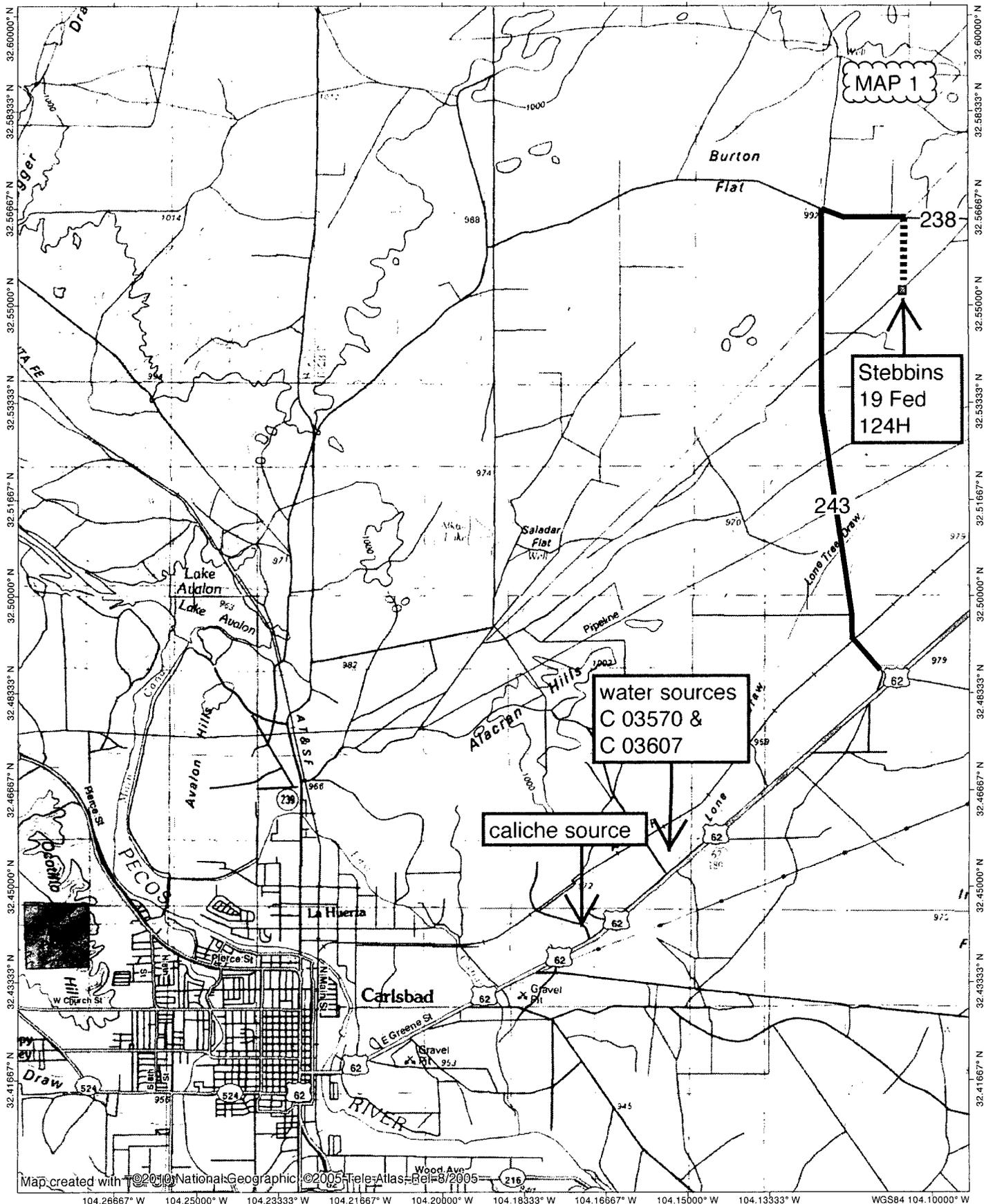
DISTANCE & DIRECTION
 FROM INT. OF US-285 AND US-180/US-62 E/W GREENE ST. GO EAST ON
 US-180 E/US-62 E/W ±8.3 MILES, THENCE NORTH (LEFT) ON MAGNUM RD.
 ±4.2 MILES, THENCE NORTHEAST (RIGHT) ON LEASE RD. ±1.3 MILES TO
 A POINT ± 100 FEET EAST OF THE LOCATION

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.
 AS OF THE DATE OF SURVEY, ALL ABOVE GROUND APPURTENANCES WITHIN 300' OF THE STAKED LOCATION ARE SHOWN HEREON.



Michael Blake Brown, P.S. No. 18329
 APRIL 12, 2016

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 LOYALTY INNOVATION LEGACY
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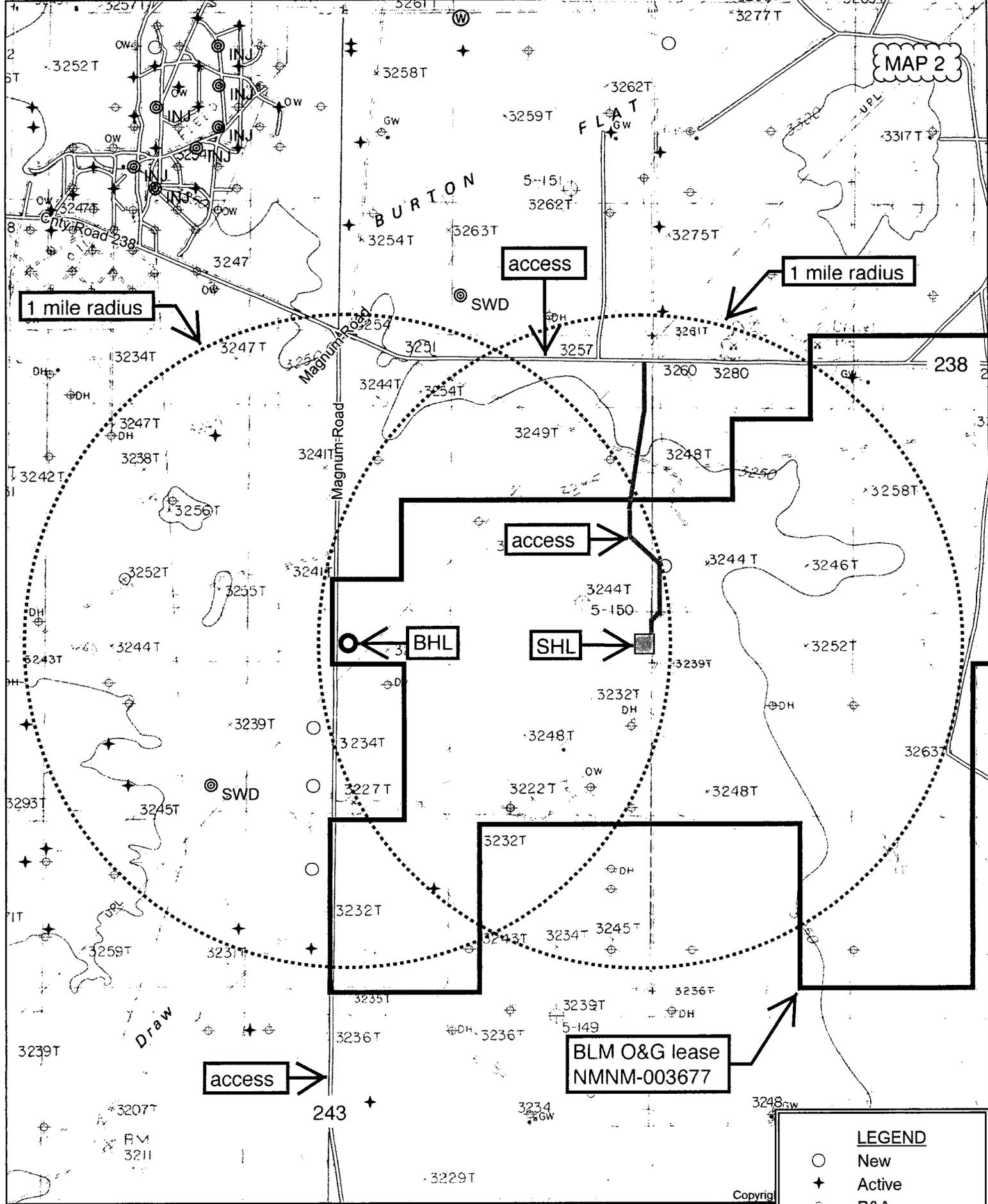
Map created with ©2010 National Geographic ©2005 Tele Atlas, Inc. 8/2005

NATIONAL GEOGRAPHIC



TN+MN 7.5°

MAP 2



1 mile radius

1 mile radius

access

access

BHL

SHL

BLM O&G lease
NMNM-003677

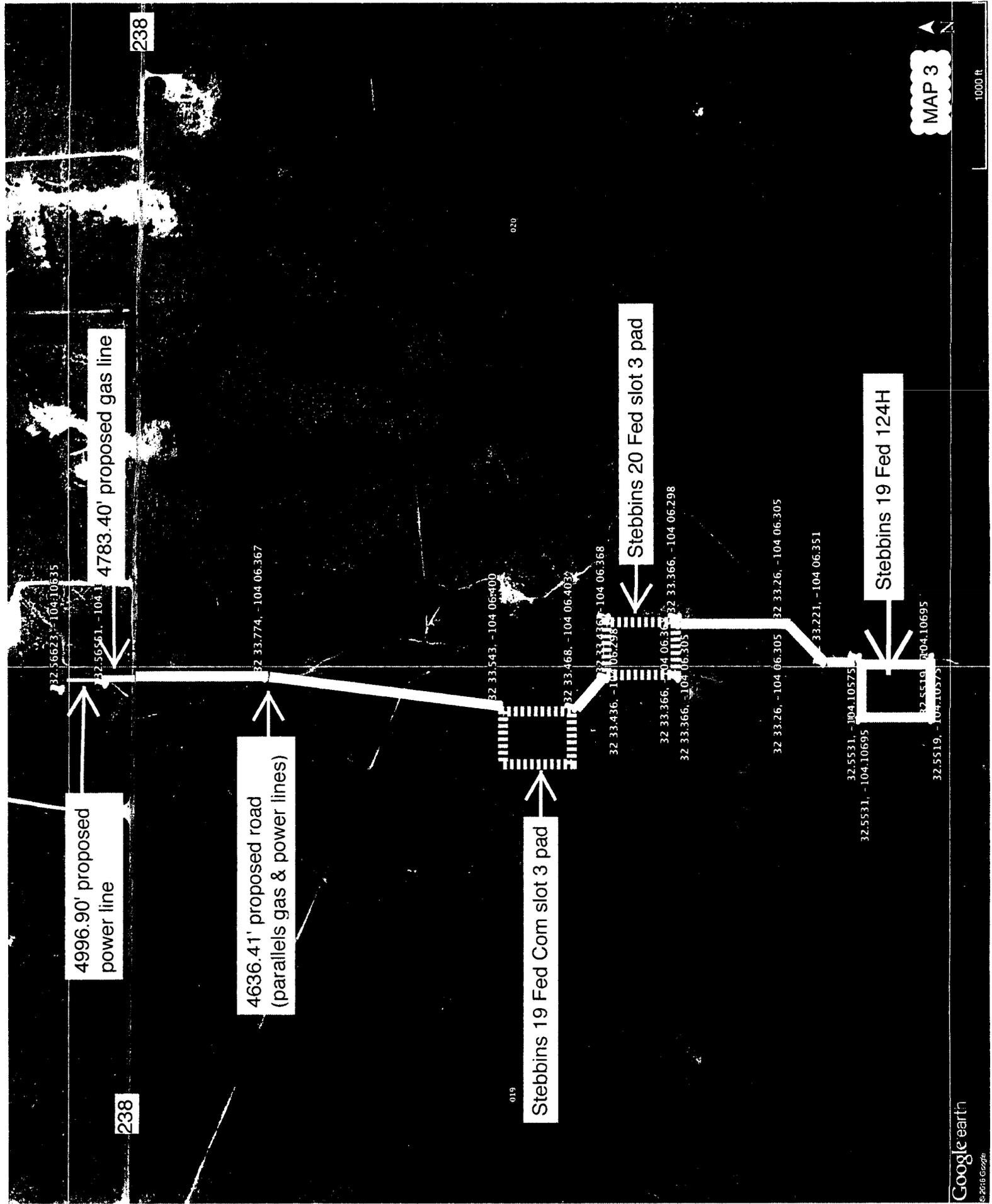
access

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



Quad: ILLINOIS CAMP SE
Scale: 1 inch = 2,000 ft.

Copyright



4996.90' proposed power line

4783.40' proposed gas line

4636.41' proposed road (parallels gas & power lines)

Stebbins 19 Fed Com slot 3 pad

Stebbins 20 Fed slot 3 pad

Stebbins 19 Fed 124H

238

238

019

020

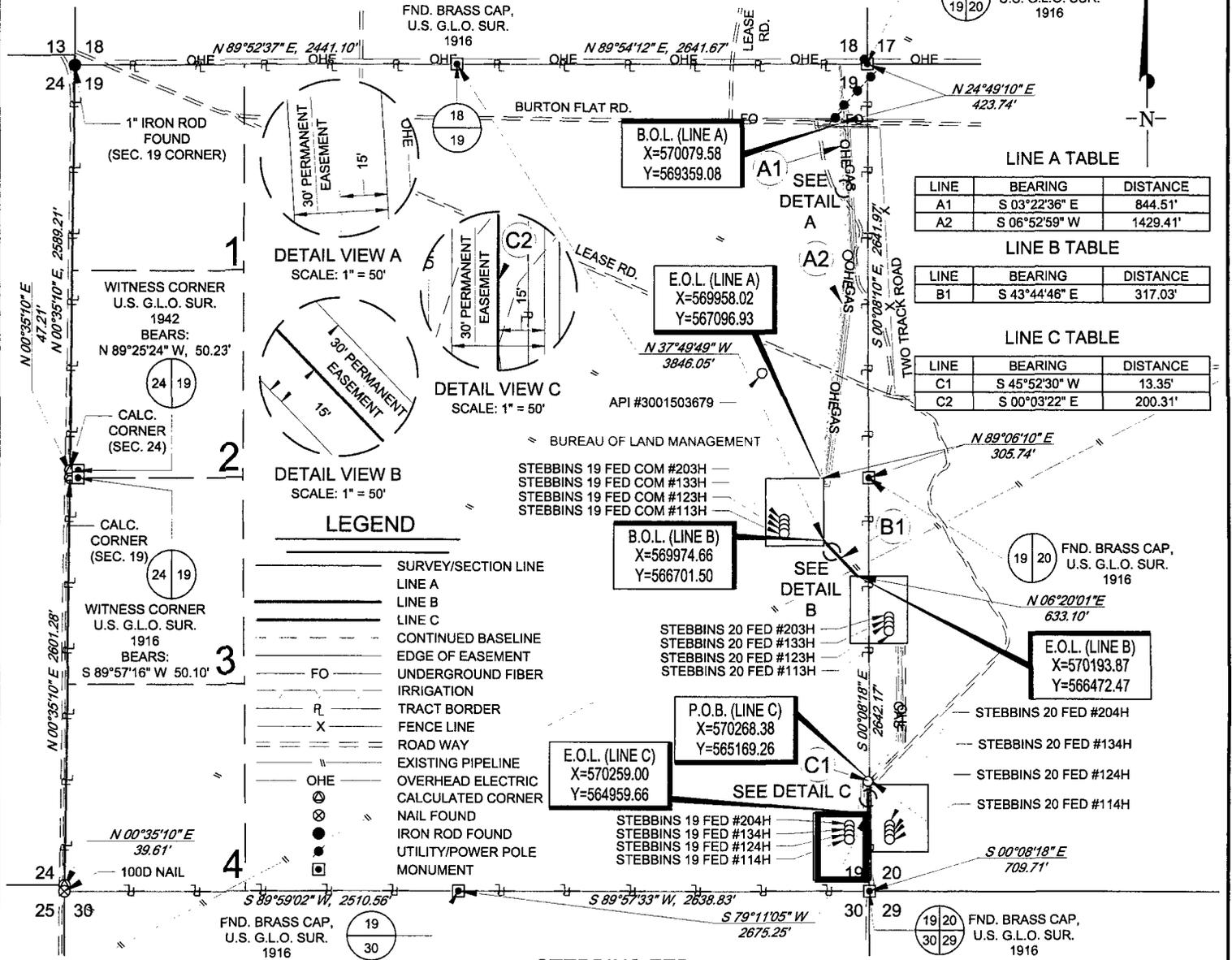
MAP 3

1000 ft

SECTION 19, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

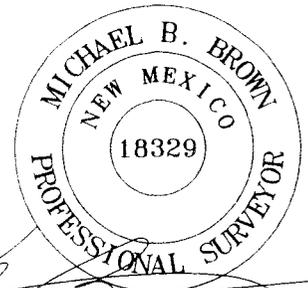
MAP 4

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



STEBBINS FED 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 2804.61 feet or 169.98 rods, containing 1.93 acres more or less.



Michael Blake Brown, P.S. No. 18329
SEPTEMBER 7, 2016

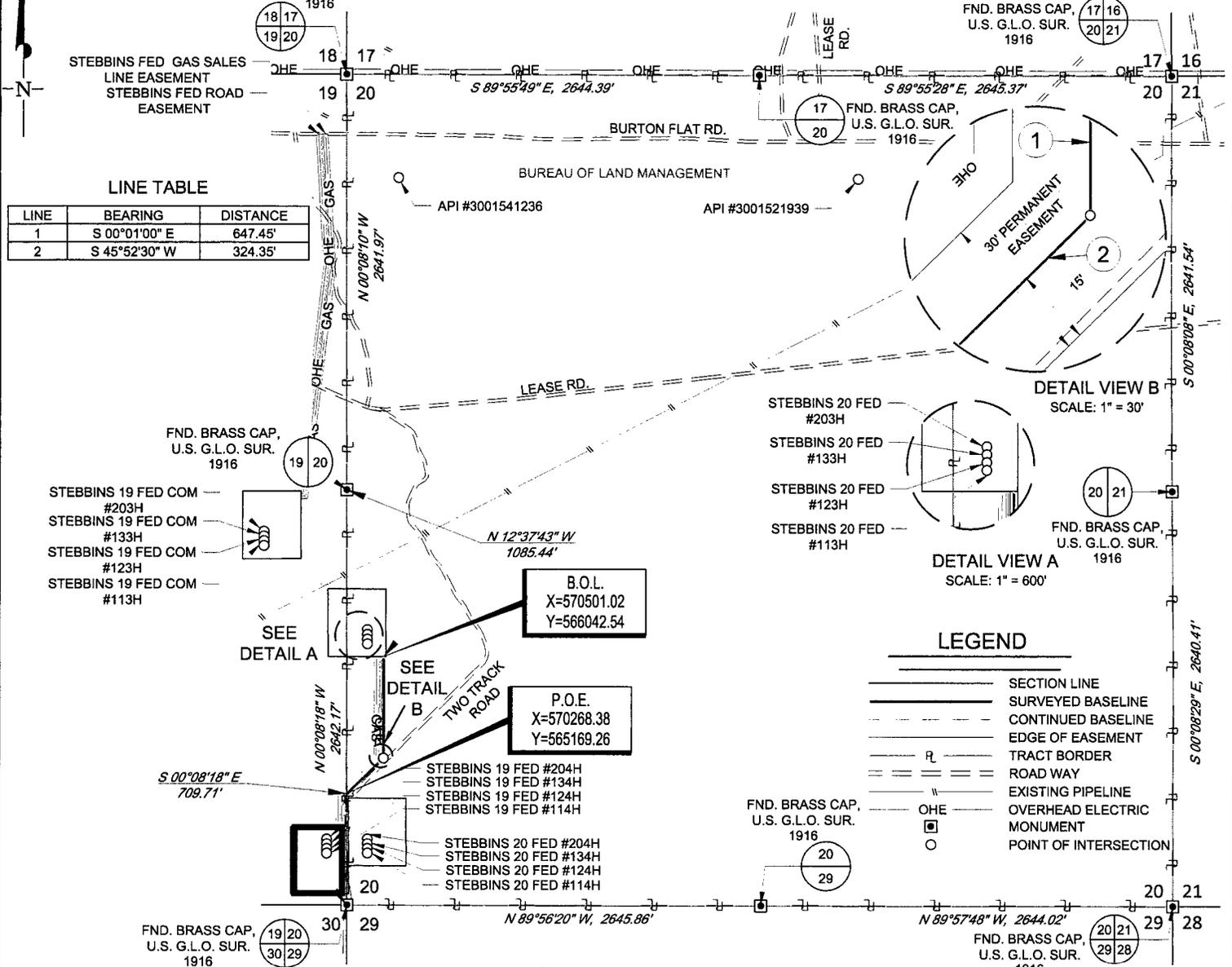


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TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
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STEBBINS FED ROAD EASEMENT	REVISION:		NOTES:
	GJU	08/05/16	
DATE: 06/30/16	A.V.F.	09/07/16	2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927.
FILE: EP_STEBBINS_FED_ROAD_EASEMENT_SEC_19_REV3			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 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.
DRAWN BY: MML			4. B.O.L./P.O.B. = BEGINNING OF LINE/POINT OF BEGINNING
SHEET: 1 OF 1			5. E.O.L. = END OF LINE

SECTION 20, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

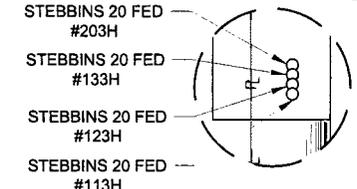
SCALE: 1" = 1000'
0' 500' 1000'



LINE TABLE

LINE	BEARING	DISTANCE
1	S 00°01'00" E	647.45'
2	S 45°52'30" W	324.35'

DETAIL VIEW B
SCALE: 1" = 30'



DETAIL VIEW A
SCALE: 1" = 600'

STEBBINS 20 FED #203H
STEBBINS 20 FED #133H
STEBBINS 20 FED #123H
STEBBINS 20 FED #113H

LEGEND

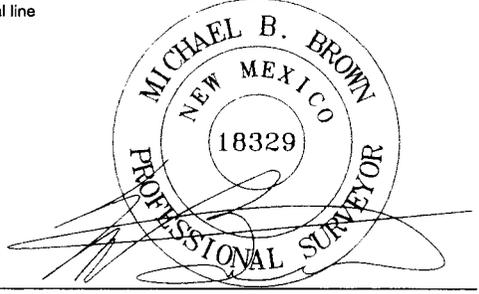
- SECTION LINE
- SURVEYED BASELINE
- CONTINUED BASELINE
- EDGE OF EASEMENT
- TRACT BORDER
- ROAD WAY
- EXISTING PIPELINE
- OVERHEAD ELECTRIC MONUMENT
- POINT OF INTERSECTION

STEBBINS FED 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 971.80 feet or 58.90 rods, containing 0.67 acres more or less.



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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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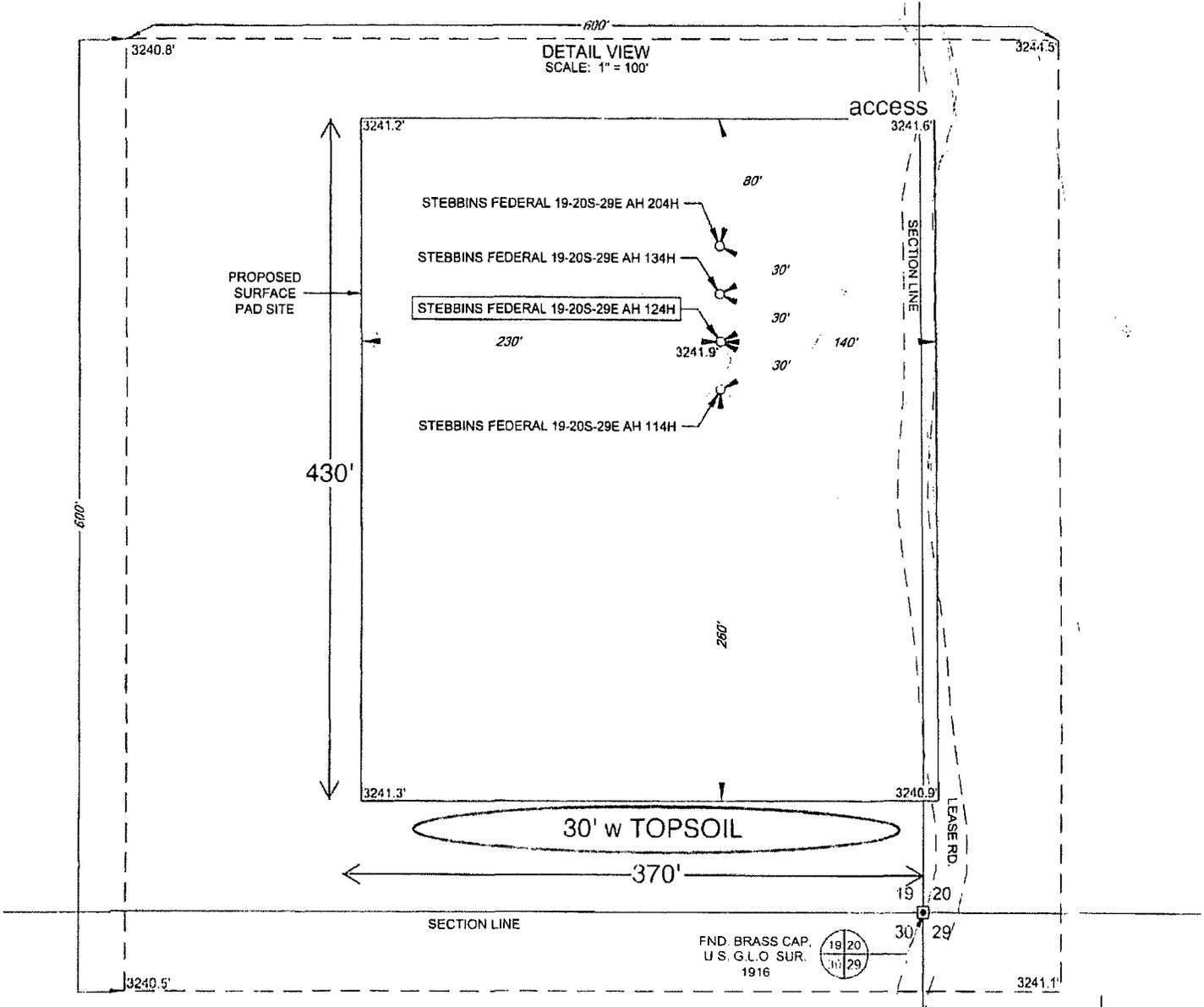


Michael Blake Brown, P.S. No. 18329
AUGUST 23, 2016

STEBBINS FED ROAD EASEMENT	REVISION:		NOTES:
	GJU	08/05/16	
DATE: 06/30/16	R.M.	08/23/16	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.
FILE: EP_STEBBINS_FED_ROAD_EASEMENT_SEC_20_REV2			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 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.
DRAWN BY: MML			4. B.O.L. = BEGINNING OF LINE
SHEET: 1 OF 1			5. P.O.E. = END OF LINE/POINT OF EXIT



SECTION 19, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: STEBBINS FEDERAL 19-20S-29E AH #124H
 #124H LATITUDE N 32.5525904 #124H LONGITUDE W 104.10569868

LEGEND

- SECTION LINE
- - - ROADWAY
- - - ARCH SITE



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.

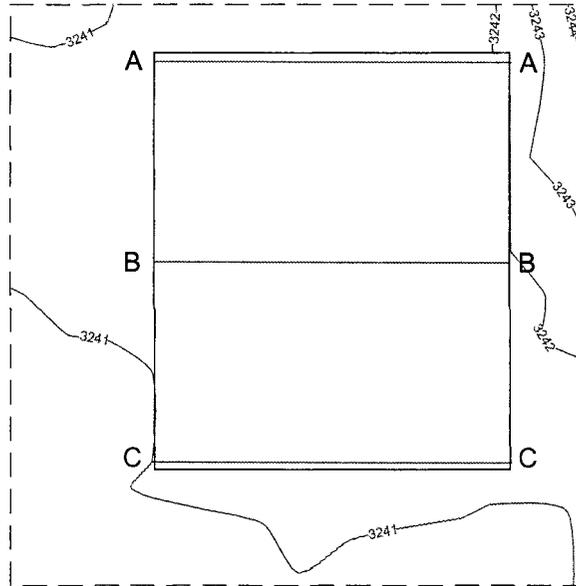


1400 EVERMAN PARKWAY, Ste 197 • FT. WORTH, TEXAS 76140
 TELEPHONE (817) 244-7512 • FAX (817) 744-7515
 2908 WASHINGTON SPRINGS ROAD, FT. WORTH, TEXAS 76175
 TELEPHONE (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM

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

SECTION 19 & 20, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

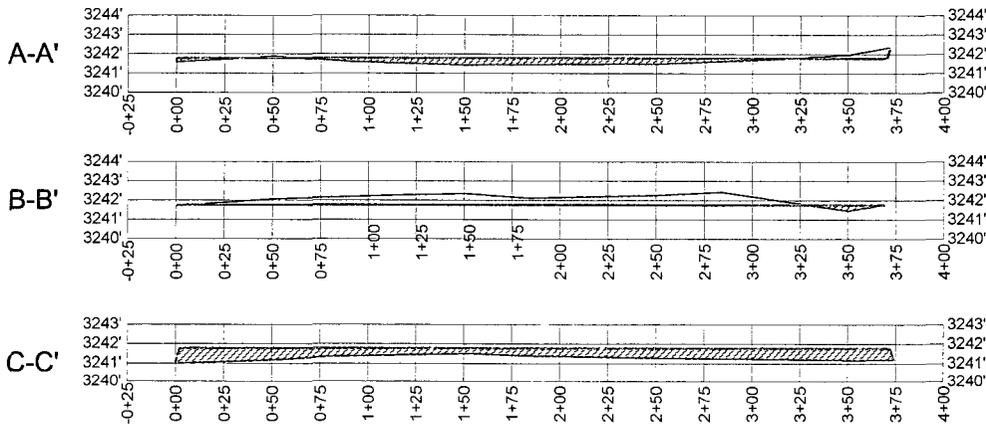
MAP 7



TOP OF PAD ELEVATION:
 3241.8'

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

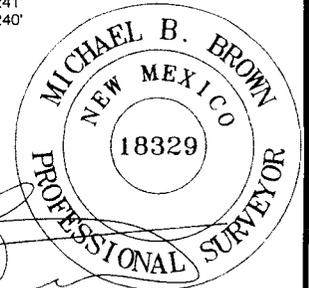
PAD EARTHWORK VOLUMES
 CUT 27,161.3 C.F., 1,005.97 C.Y.
 FILL 27,161.3 C.F., 1,005.97 C.Y.
 BALANCE IMPORT: 0.0 C.F., 0.00 C.Y.
 AREA: 161131.1 SQ.FT., 3.699 ACRES



Horizontal Scale = 1:100
 Vertical Scale = 1:5



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 TEXAS FIRM REGISTRATION NO. 10042504
 WWW.TOPOGRAPHIC.COM



Michael Blake Brown, P.S. No. 18329

JUNE 23, 2016

Field note description of even date accompanies this plat.

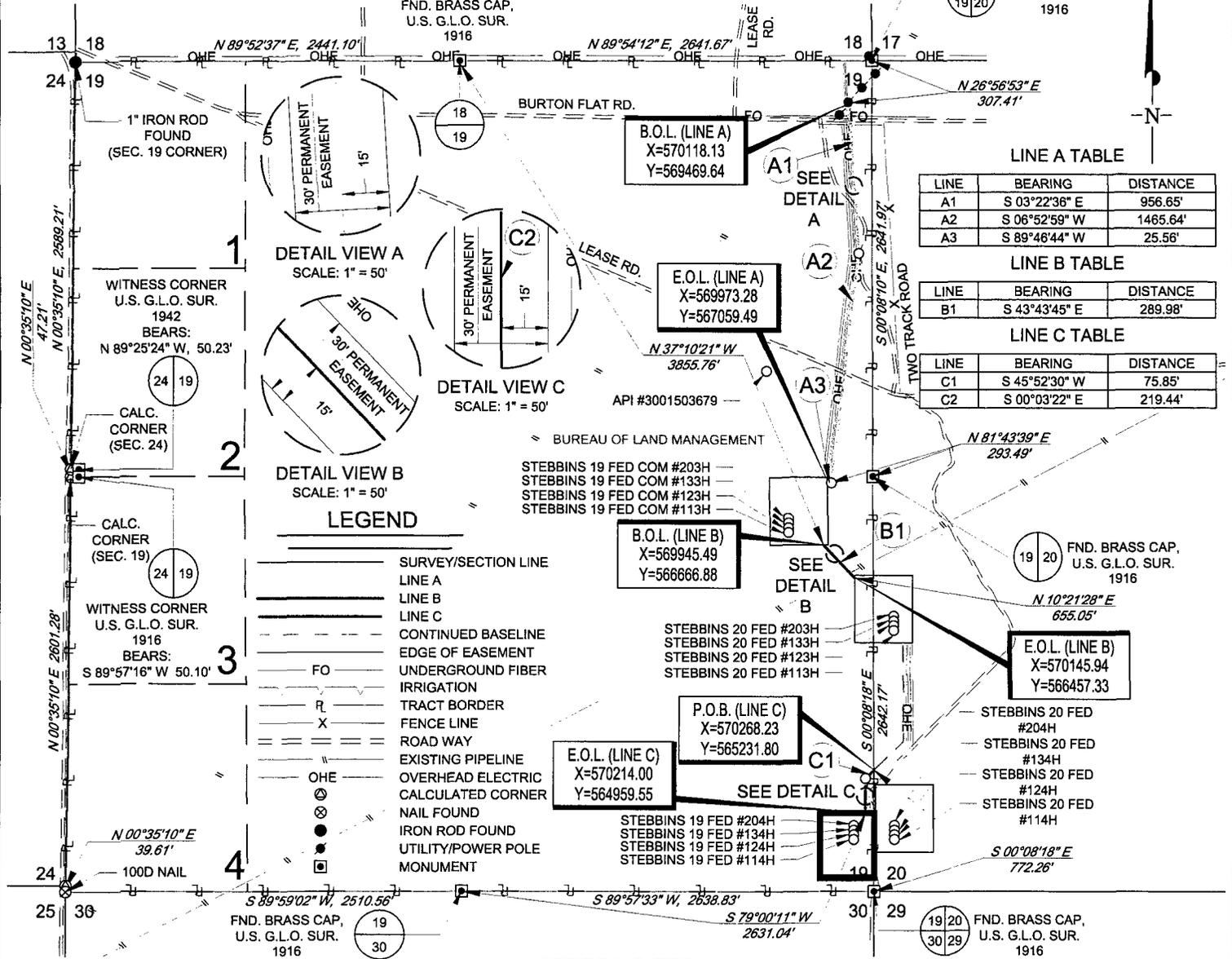
STEBBINS FEDERAL 19-20S-29E AH 114H SURFACE PAD SITE PROFILE	REVISION:		NOTES: 1. ORIGINAL DOCUMENT SIZE: 8.5" X 11" 2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927. 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 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.
	MML	06/23/16	
DATE:	04/15/16		
FILE:	CD:STEBBINS_FEDERAL_19-20S-29E_114H_SURFACE_PAD_SITE_PRO_REV1		
DRAWN BY:	SRJ		
SHEET:	1 OF 1		

SECTION 19, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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

FND. BRASS CAP,
U.S. G.L.O. SUR.
1916

18 17
19 20 FND. BRASS CAP,
U.S. G.L.O. SUR.
1916



LINE A TABLE

LINE	BEARING	DISTANCE
A1	S 03°22'36" E	956.65'
A2	S 06°52'59" W	1465.64'
A3	S 89°46'44" W	25.56'

LINE B TABLE

LINE	BEARING	DISTANCE
B1	S 43°43'45" E	289.98'

LINE C TABLE

LINE	BEARING	DISTANCE
C1	S 45°52'30" W	75.85'
C2	S 00°03'22" E	219.44'

DETAIL VIEW A
SCALE: 1" = 50'

DETAIL VIEW B
SCALE: 1" = 50'

DETAIL VIEW C
SCALE: 1" = 50'

LEGEND

- SURVEY/SECTION LINE
- LINE A
- LINE B
- LINE C
- - - CONTINUED BASELINE
- - - EDGE OF EASEMENT
- - - FO UNDERGROUND FIBER
- - - IRRIGATION
- - - TRACT BORDER
- - - X FENCE LINE
- - - ROAD WAY
- - - EXISTING PIPELINE
- - - OHE OVERHEAD ELECTRIC
- CALCULATED CORNER
- NAIL FOUND
- IRON ROD FOUND
- UTILITY/POWER POLE
- MONUMENT

BUREAU OF LAND MANAGEMENT

STEBBINS 19 FED COM #203H
STEBBINS 19 FED COM #133H
STEBBINS 19 FED COM #123H
STEBBINS 19 FED COM #113H

B.O.L. (LINE B)
X=569945.49
Y=566666.88

P.O.B. (LINE C)
X=570268.23
Y=565231.80

E.O.L. (LINE C)
X=570214.00
Y=564959.55

STEBBINS 19 FED #204H
STEBBINS 19 FED #134H
STEBBINS 19 FED #124H
STEBBINS 19 FED #114H

FND. BRASS CAP,
U.S. G.L.O. SUR.
1916

E.O.L. (LINE B)
X=570145.94
Y=566457.33

STEBBINS 20 FED #204H
STEBBINS 20 FED #134H
STEBBINS 20 FED #124H
STEBBINS 20 FED #114H

S 00°08'18" E
772.26'

19 20 FND. BRASS CAP,
U.S. G.L.O. SUR.
1916

STEBBINS FED
GAS LINE EASEMENT

Being a proposed gas sales easement being 30 feet in width, 15 feet left, and 15 feet right of the above platted centerline total line footage containing 3033.12 feet or 183.83 rods, containing 2.09 acres more or less.



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
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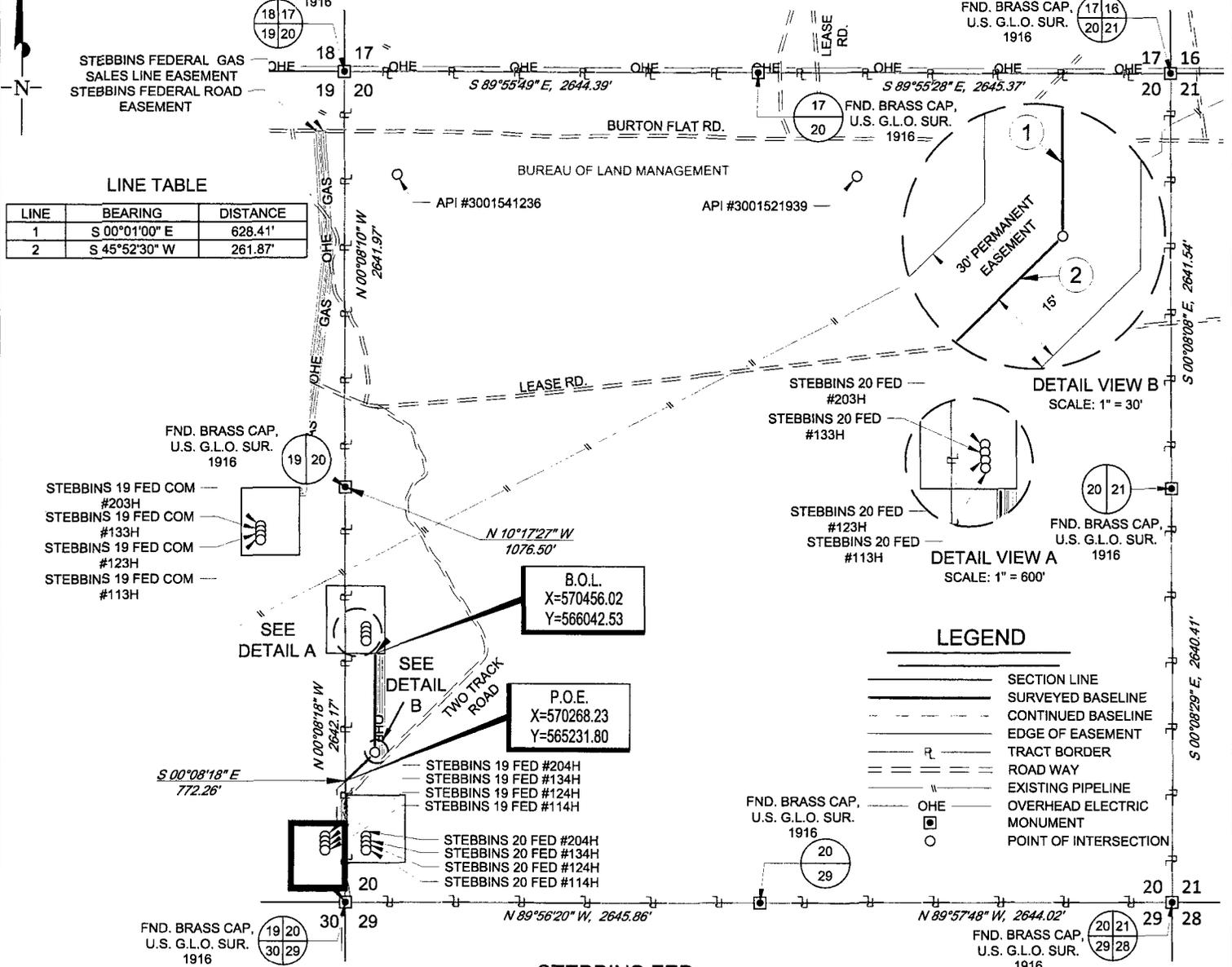


Michael Blake Brown, P.S. No. 18329
SEPTEMBER 7, 2016

STEBBINS FED GAS LINE EASEMENT	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 COMPANY. ONLY UTILITIES/EASEMENTS THAT I 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
	GJU	08/05/16	
R.M.	08/24/16		
DATE: 06/30/16	A.V.F.	09/07/16	
FILE: EP_STEBBINS FED GAS LINE EASEMENT_SEC_19_REV3			
DRAWN BY: MML			
SHEET: 1 OF 1			

SECTION 20, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

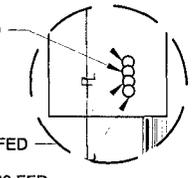
SCALE: 1" = 1000'



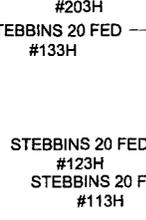
LINE TABLE

LINE	BEARING	DISTANCE
1	S 00°01'00" E	628.41'
2	S 45°52'30" W	261.87'

DETAIL VIEW B
SCALE: 1" = 30'



DETAIL VIEW A
SCALE: 1" = 600'



LEGEND

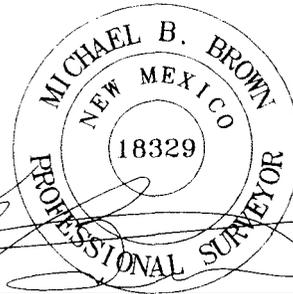
- SECTION LINE
- SURVEYED BASELINE
- - - CONTINUED BASELINE
- EDGE OF EASEMENT
- TRACT BORDER
- ROAD WAY
- EXISTING PIPELINE
- OHE OVERHEAD ELECTRIC
- MONUMENT
- POINT OF INTERSECTION

STEBBINS FED GAS LINE EASEMENT

Being a proposed gas sales easement being 30 feet in width, 15 feet left, and 15 feet right of the above platted centerline total line footage containing 890.28 feet or 53.96 rods, containing 0.61 acres more or less.



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
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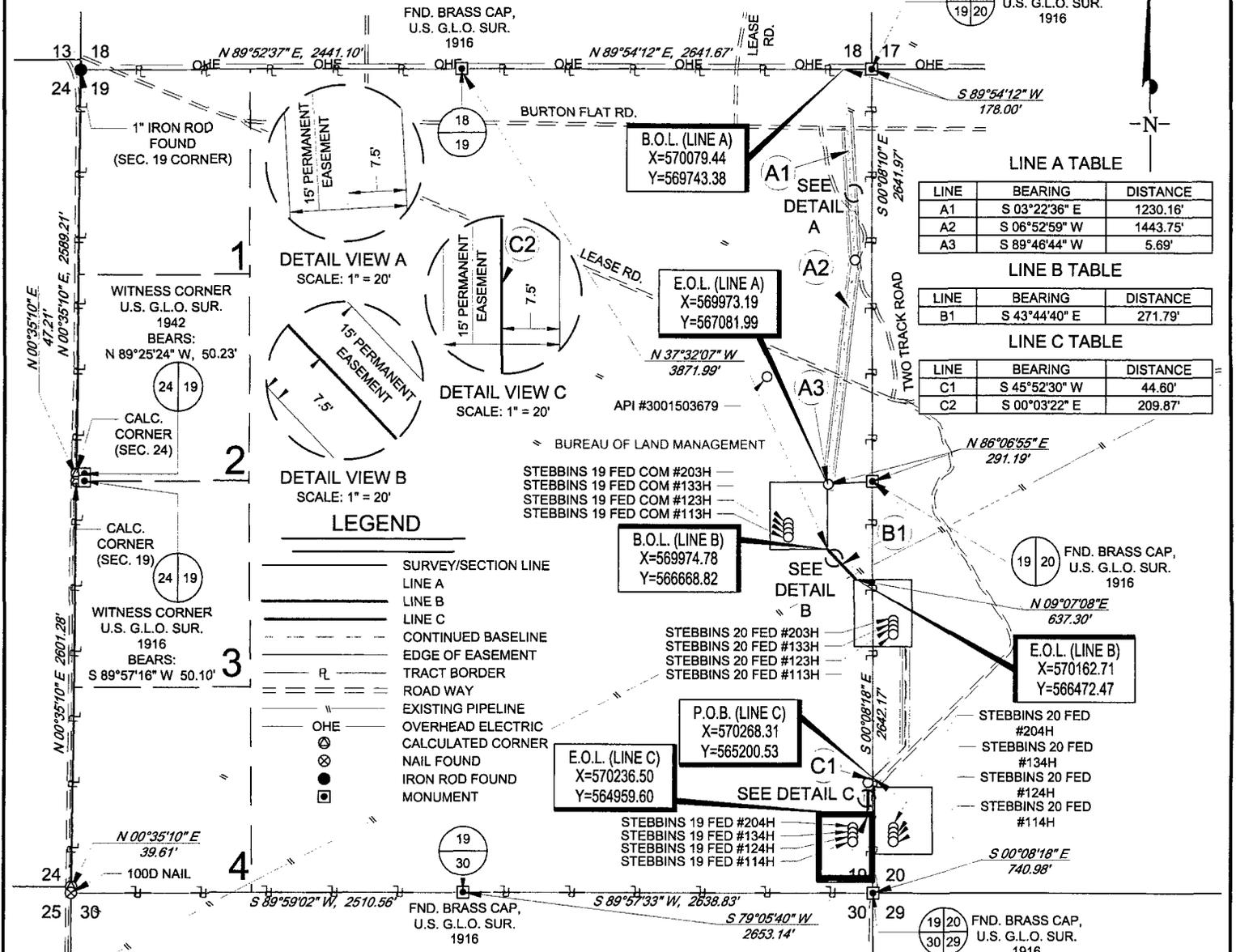
Michael Blake Brown, P.S. No. 18329
AUGUST 24, 2016

STEBBINS FED GAS LINE EASEMENT	
DATE:	06/30/16
FILE:	EP_STEBBINS_FED_GAS_LINE_EASEMENT_SEC_20_REV2
DRAWN BY:	MML
SHEET:	1 OF 1

- NOTES:
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SECTION 19, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SCALE: 1" = 1000'



LINE A TABLE

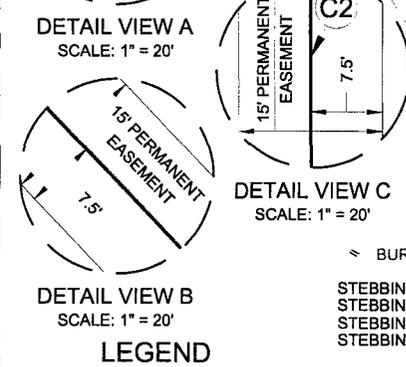
LINE	BEARING	DISTANCE
A1	S 03°22'36" E	1230.16'
A2	S 06°52'59" W	1443.75'
A3	S 89°46'44" W	5.69'

LINE B TABLE

LINE	BEARING	DISTANCE
B1	S 43°44'40" E	271.79'

LINE C TABLE

LINE	BEARING	DISTANCE
C1	S 45°52'30" W	44.60'
C2	S 00°03'22" E	209.87'



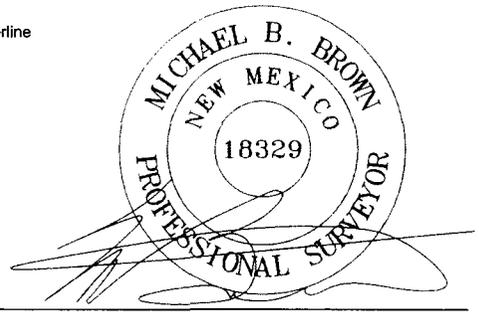
- LEGEND**
- SURVEY/SECTION LINE
 - LINE A
 - LINE B
 - LINE C
 - - - CONTINUED BASELINE
 - - - EDGE OF EASEMENT
 - TRACT BORDER
 - ROAD WAY
 - EXISTING PIPELINE
 - OHE OVERHEAD ELECTRIC
 - ⊙ CALCULATED CORNER
 - ⊗ NAIL FOUND
 - IRON ROD FOUND
 - MONUMENT

STEBBINS FED ELECTRICAL EASEMENT

Being a proposed electrical 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 3205.86 feet or 194.29 rods, containing 1.10 acres more or less.



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TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
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Michael Blake Brown, P.S. No. 18329
SEPTEMBER 6, 2016

STEBBINS FED ELECTRICAL EASEMENT	REVISION:		
	GJU	08/05/16	
	R.M.	08/23/16	
DATE:	06/30/16	GLH	09/06/16
FILE:	EP_STEBBINS_FED_ELECTRICAL_EASEMENT_SEC_19_REV3		
DRAWN BY:	MML		
SHEET:	1 OF 1		

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SECTION 20, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SCALE: 1" = 1000'

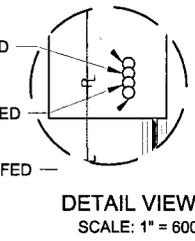
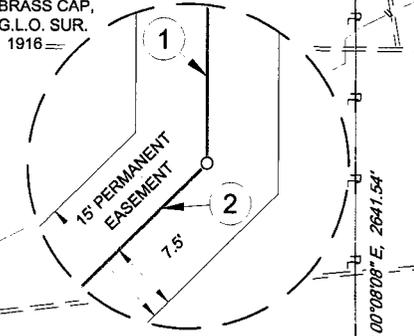
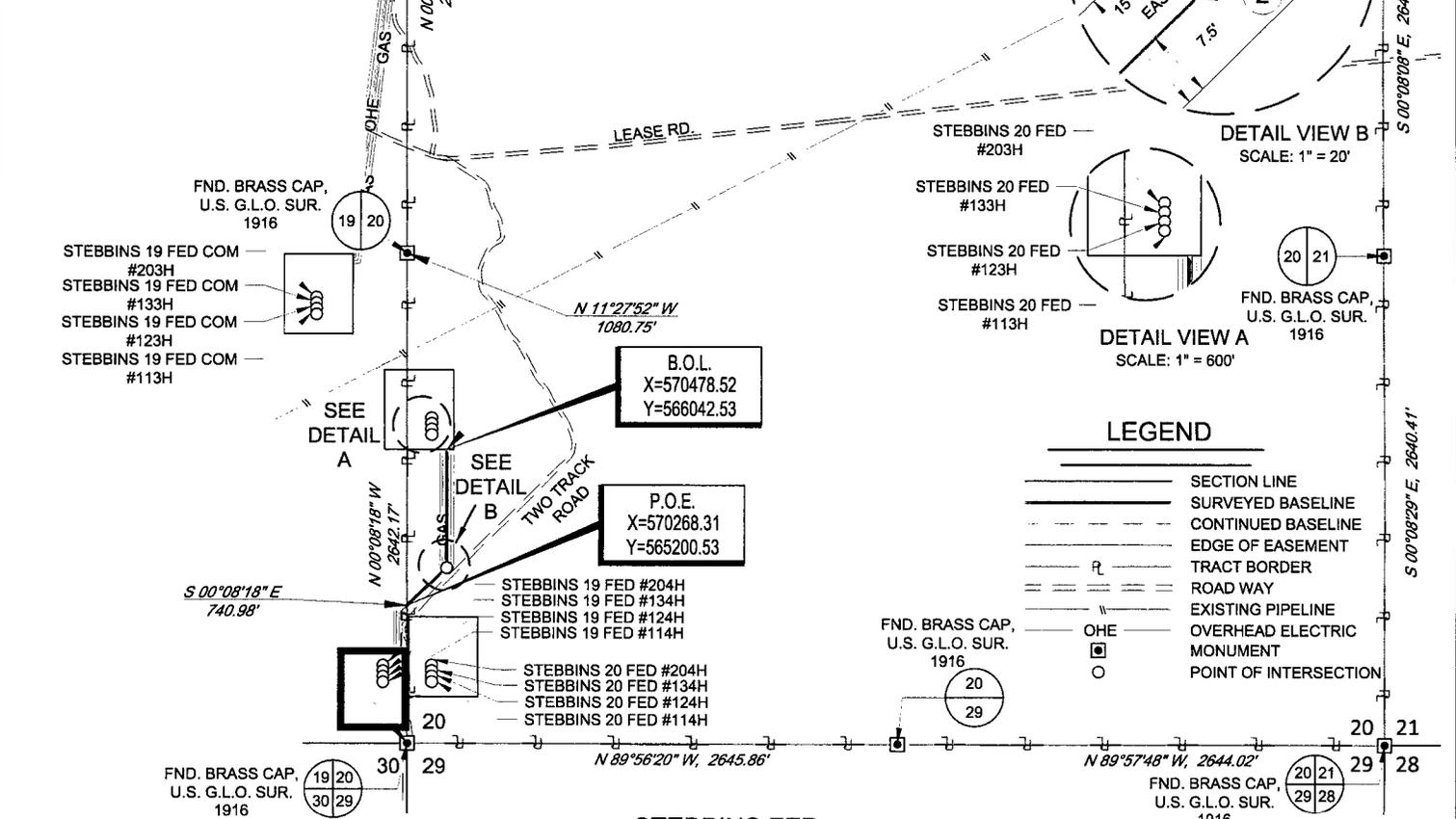
STEBBINS FED GAS SALES
LINE EASEMENT
STEBBINS FED ROAD
EASEMENT

FND. BRASS CAP,
U.S. G.L.O. SUR.
1916

FND. BRASS CAP,
U.S. G.L.O. SUR.
1916

LINE TABLE

LINE	BEARING	DISTANCE
1	S 00°01'00" E	637.93'
2	S 45°52'30" W	293.11'

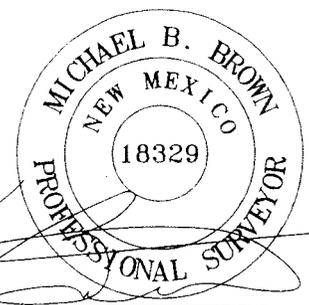


LEGEND

- SECTION LINE
- SURVEYED BASELINE
- CONTINUED BASELINE
- EDGE OF EASEMENT
- TRACT BORDER
- ROAD WAY
- EXISTING PIPELINE
- OHE OVERHEAD ELECTRIC MONUMENT
- POINT OF INTERSECTION

STEBBINS FED
ELECTRICAL EASEMENT

Being a proposed electrical easement being 15 feet in width, 7.5 feet left, and 7.5 feet right of the above platted centerline total line footage containing 931.04 feet or 56.43 rods, containing 0.32 acres more or less.



Michael Blake Brown, P.S. No. 18329
AUGUST 23, 2016



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
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STEBBINS FED ELECTRICAL EASEMENT	REVISION:	
	GJU	08/05/16
	R.M.	08/23/16
DATE:	06/30/16	
FILE:	EP_STEBBINS_FED_ELECTRICAL_EASEMENT_SEC_20_REV2	
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Matador Production Company
 Stebbins 19 Fed 124H
 SHL 360' FSL & 130' FEL Sec. 19
 BHL 330' FSL & 240' FWL Sec. 19
 T. 20 S., R. 29 E., Eddy County, NM

DRILL PLAN PAGE 1

Drilling Program

1. ESTIMATED TOPS

Formation Name	TVD	Bearing
Quaternary	Surface	water
Salado/Salt	440'	salt
Yates	860'	gypsum
Seven Rivers	1160'	dolomite
Capitan Reef	1230'	water
Cherry Canyon	3175'	hydrocarbons
Brushy Canyon	4295'	hydrocarbons
Bone Spring Lime	5775'	hydrocarbons
1 st Bone Spring Carbonate	6460'	hydrocarbons
1 st Bone Spring Sand	6970'	Hydrocarbons
2 nd Bone Spring Carbonate	7155'	hydrocarbons
2 nd Bone Spring Sand	7585'	hydrocarbons & goal
TD (MD = 12191')	7710'	hydrocarbons

2. NOTABLE ZONES

Second Bone Spring sand is the goal for this well. Hole will extend west of the last perforation point to allow for pump installation. All perforations will be $\geq 330'$ from the dedication perimeter. Closest water well (C 03265) is 2000' to the north. Depth to water was 52' in this now dry 89' deep well.

3. PRESSURE CONTROL

Matador requests a variance for a speed head and for a 2000 psi annular to be installed after running 20" surface casing.

Matador Production Company
Stebbins 19 Fed 124H
SHL 360' FSL & 130' FEL Sec. 19
BHL 330' FSL & 240' FWL Sec. 19
T. 20 S., R. 29 E., Eddy County, NM

DRILL PLAN PAGE 2

After 20" surface casing, a BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be installed. The BOP will be used below intermediate casing 1 to TD. See attached BOP and choke manifold diagrams.

An accumulator complying with Onshore Order 2 requirements for the BOP stack pressure rating will be present. Rotating head will be installed as needed.

Pressure tests will be conducted before drilling out from under all casing strings. BOP will be inspected and operated as required in Onshore Order 2. Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position.

A third party company will test the BOPs.

Intermediate 1 casing pressure tests will be made to 250 psi low and 2000 psi high. Intermediate 2 casing pressure tests will be made to 250 psi low and 3000 psi high. Annular preventer will be tested to 250 psi low and 2500 psi high on the intermediate 1 casing and tested to 250 psi low and 2500 psi high on the intermediate 2 casing. In the case of running a speed head with landing mandrel for 9-5/8" casing, initial intermediate 1 casing test pressures will be 250 psi low and 3000 psi high, with wellhead seals tested to 5000 psi once the 9-5/8" casing has been landed and cemented.

Matador requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. Manufacturer does not require the hose to be anchored. If the specific hose is not available, then one of equal or higher rating will be used.

Matador Production Company
 Stebbins 19 Fed 124H
 SHL 360' FSL & 130' FEL Sec. 19
 BHL 330' FSL & 240' FWL Sec. 19
 T. 20 S., R. 29 E., Eddy County, NM

DRILL PLAN PAGE 3

4. CASING & CEMENT

Hole O. D.	Set @ (MD)	Casing O. D.	Age	Weight (lb/ft)	Grade	Thread Collar	Collapse	Burst	Tension
26"	400'	Surface 20"	New	94	K-55	BTC	1.125	1.125	1.8
17.5"	1200'	Inter. 1 13.375"	New	54.5	J-55	BTC	1.125	1.125	1.8
12.25"	3100'	Inter. 2 9.625"	New	40	J-55	BTC	1.125	1.125	1.8
8.75"	11648'	Product. 5.5"	New	20	P-110	DWC/C	1.125	1.125	1.8

Casing Name	Type	Sacks	Yield	Cu. Ft.	Weight	Blend
Surface	Tail	873	1.38	1204	14.8	Class C + 5% NaCl + LCM
TOC = GL		100% Excess			centralizers per Onshore Order 2.III.B.1f	
Intermediate 1	Lead	528	2.09	1103	12.6	Class C + Bentonite + 1% CaCl ₂ + 8% NaCl + LCM
	Tail	302	1.38	416	14.8	Class C + 5% NaCl + LCM
TOC = GL		100% Excess			2 on btm jt, 1 on 2nd jt, 1 every 4th jt to GL	
Intermediate 2	Lead	499	2.48	1237	11.9	Class C + Bentonite + 2% CaCl ₂ + 3% NaCl + LCM
	Tail	308	1.26	388	14.4	Class C + 5% NaCl +
TOC = GL		100% Excess			2 on btm jt, 1 on 2nd jt, 1 every 4th jt to GL	
Production	Lead	576	2.25	1296	11.5	TXI + Fluid Loss + Dispersant + Retarder + LCM
	Tail	1495	1.38	2063	13.2	TXI + Fluid Loss + Dispersant + Retarder + LCM
TOC = 2100'		35% Excess			2 on btm jt, 1 on 2nd jt, 1 every other jt to top of tail cement (1000' above TOC)	

Matador Production Company
Stebbins 19 Fed 124H
SHL 360' FSL & 130' FEL Sec. 19
BHL 330' FSL & 240' FWL Sec. 19
T. 20 S., R. 29 E., Eddy County, NM

DRILL PLAN PAGE 4

5. MUD PROGRAM

An electronic Pason mud monitoring system satisfying the requirements of Onshore Order 1 will be used. All necessary mud products for weight addition and fluid loss control will be on location at all times. Mud program is subject to change due to hole conditions.

Name	Hole Size	Mud Weight	Visc	Fluid Loss	Type Mud
Surface	26"	8.40	28	NC	fresh water spud mud
Intermediate 1	17.5"	10.00	30-32	NC	brine water
Intermediate 2	12.25"	8.4 - 8.6	28-30	NC	fresh water
Production	8.75"	9.00	30-32	NC	fresh water / cut brine

6. CORES, TESTS, & LOGS

No core or drill stem test is planned.

A 2-person mud-logging program will be used from \approx 1200' to TD.

No electric logs are planned at this time. GR will be collected through the MWD tools from intermediate 2 casing to TD. CBL with CCL will be run as far as gravity will let it fall to TOC.

7. DOWN HOLE CONDITIONS

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is \approx 3855 psi. Expected bottom hole temperature is \approx 135° F.

In accordance with Onshore Order 6, Matador does not anticipate that there will be enough H₂S from the surface to the Bone Spring to meet the BLM's minimum requirements for the submission of an "H₂S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since Matador has an H₂S safety package on all wells, an "H₂S Drilling Operations Plan" is attached.

Matador Production Company
Stebbins 19 Fed 124H
SHL 360' FSL & 130' FEL Sec. 19
BHL 330' FSL & 240' FWL Sec. 19
T. 20 S., R. 29 E., Eddy County, NM

DRILL PLAN PAGE 5

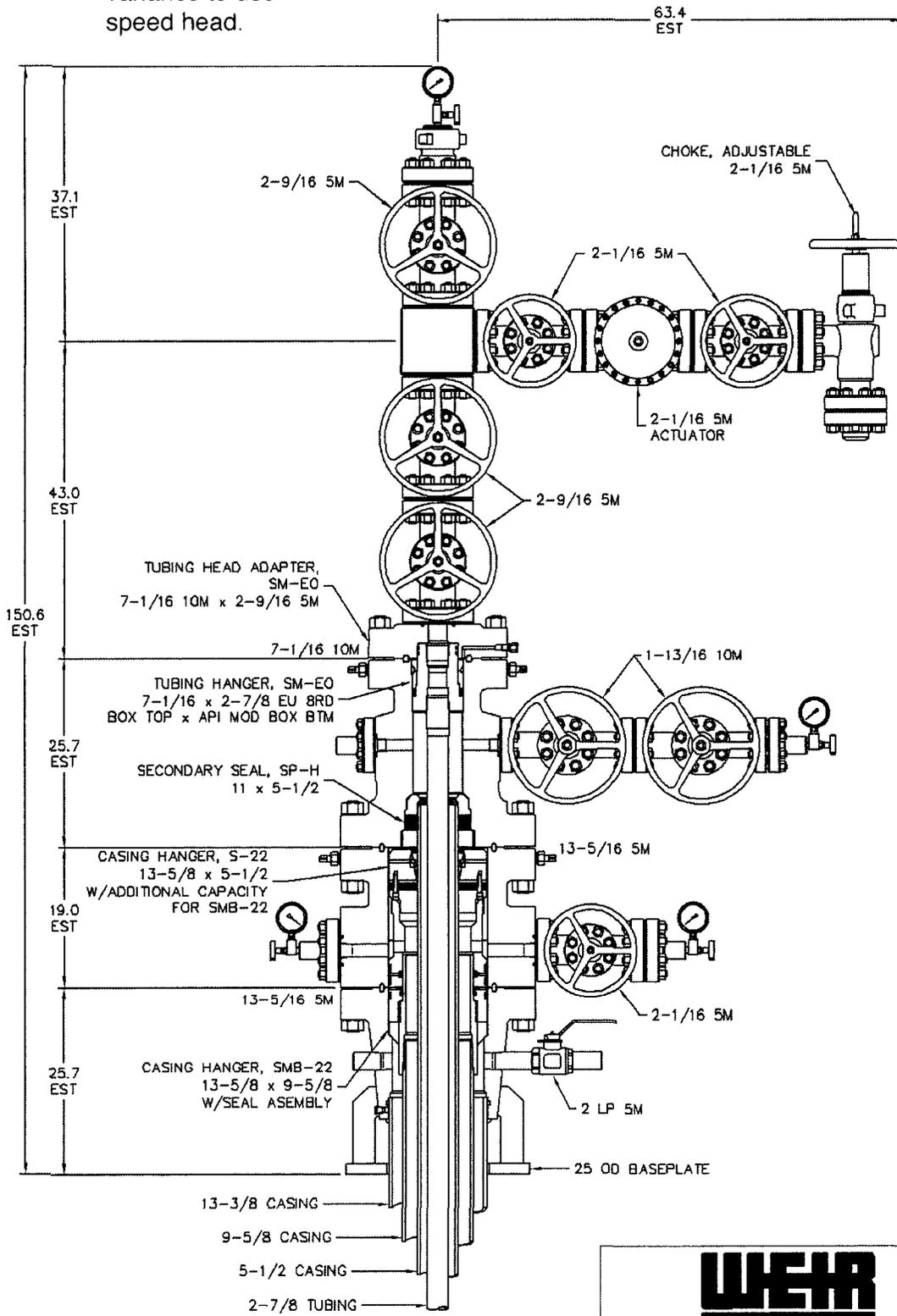
Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

8. OTHER INFORMATION

Anticipated spud date is upon approval. It is expected it will take \approx 3 months to drill and complete the well.

Matador Production Company owns the majority working interest in this well. Per its discussions with its potential partners, Matador will be named operator upon execution of the final Operating Agreements signed by the partners or the issuance of a pooling order by the State.

Matador requesting
variance to use
speed head.



NOTE:
DIMENSIONS SHOWN ON THIS DRAWING ARE ESTIMATES ONLY AND CAN VARY SIGNIFICANTLY DEPENDING ON RAW MATERIAL LENGTHS. NO GUARANTEE OF STACKUP HEIGHT IS IMPLIED. DIMENSIONS SHOWN SHOULD BE CONSIDERED FOR REFERENCE PURPOSES ONLY.

RESTRICTED CONFIDENTIAL DOCUMENT

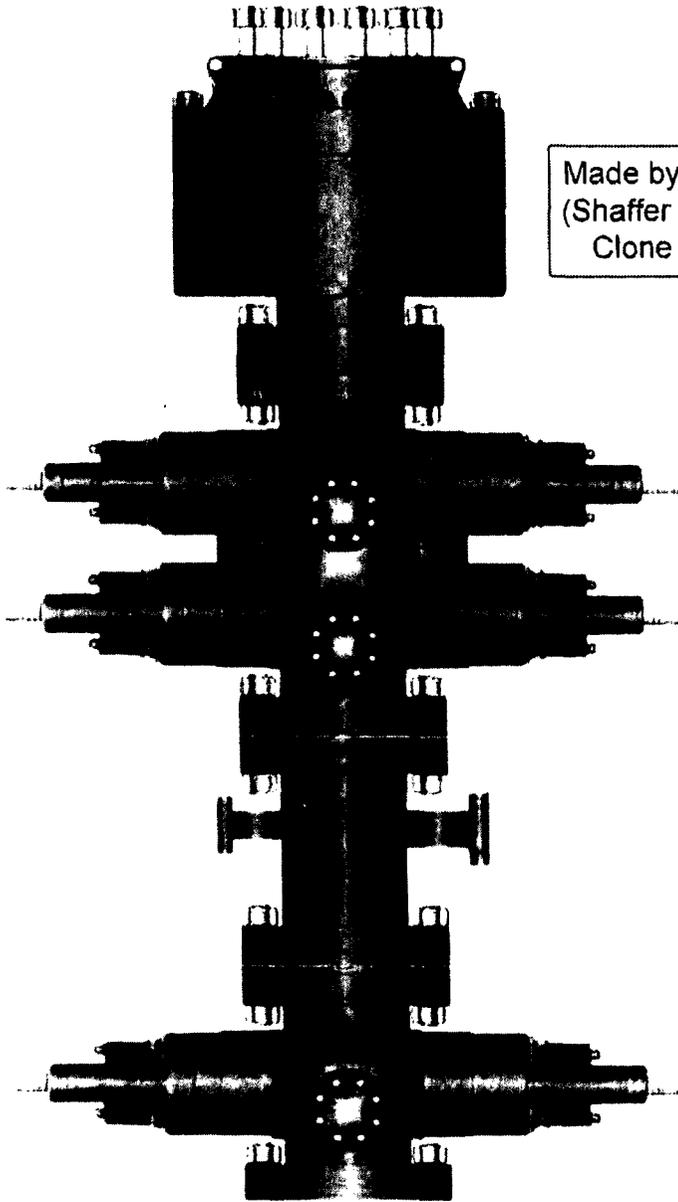
THIS DRAWING AND ALL INFORMATION SHOWN HEREON ARE THE EXCLUSIVE PROPERTY OF SEABOARD INTERNATIONAL INC AND ARE SUBMITTED ON A CONFIDENTIAL BASIS ONLY. THE REQUESTER AGREES NOT TO REPRODUCE THE DRAWING OR THE INFORMATION SHOWN HEREON IN ANY MANNER WITHOUT PRIOR WRITTEN CONSENT OF SEABOARD INTERNATIONAL INC.

WEIR OIL & GAS			
5,000 PSI WELLHEAD ASSEMBLY 13-3/8 x 9-5/8 x 5-1/2 x 2-7/8			
DRAWN BY:	RPL	SCALE 1:13	DATE 17APR15
CHECKED BY:		DRAWING NO.	
APPROVED BY:		QD-000475	REV



PATTERSON-UTI

Well Control



Made by Cameron
(Shaffer Spherical)
Clone Annular

PATTERSON-UTI # PS2-628

STYLE: New Shaffer Spherical

BORE 13 5/8" PRESSURE 5,000

HEIGHT: 48 1/2" WEIGHT: 13,800 lbs

PATTERSON-UTI # PC2-128

STYLE: New Cameron Type U

BORE 13 5/8" PRESSURE 10,000

RAMS: TOP 5" Pipe BTM Blinds

HEIGHT: 66 5/8" WEIGHT: 24,000 lbs

Length 40" Outlets 4" 10M

DSA 4" 10M x 2" 10M

PATTERSON-UTI # PC2-228

STYLE: New Cameron Type U

BORE 13 5/8" PRESSURE 10,000

RAMS: 5" Pipe

HEIGHT: 41 5/8" WEIGHT: 13,000 lbs

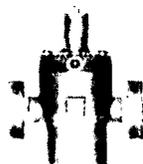
2" Minimum Kill Line

WING VALVES

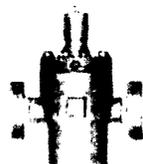
3" Minimum Choke Line



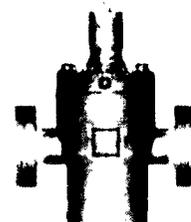
2" Check Valve



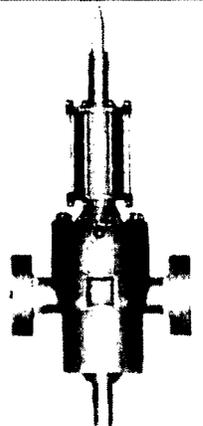
2" Manual Valve



2" Manual Valve



4" Manual Valve



4" Hydraulic Valve



Midwest Hose & Specialty, Inc.

Internal Hydrostatic Test Graph

March 10, 2015

Customer: Patterson B&E

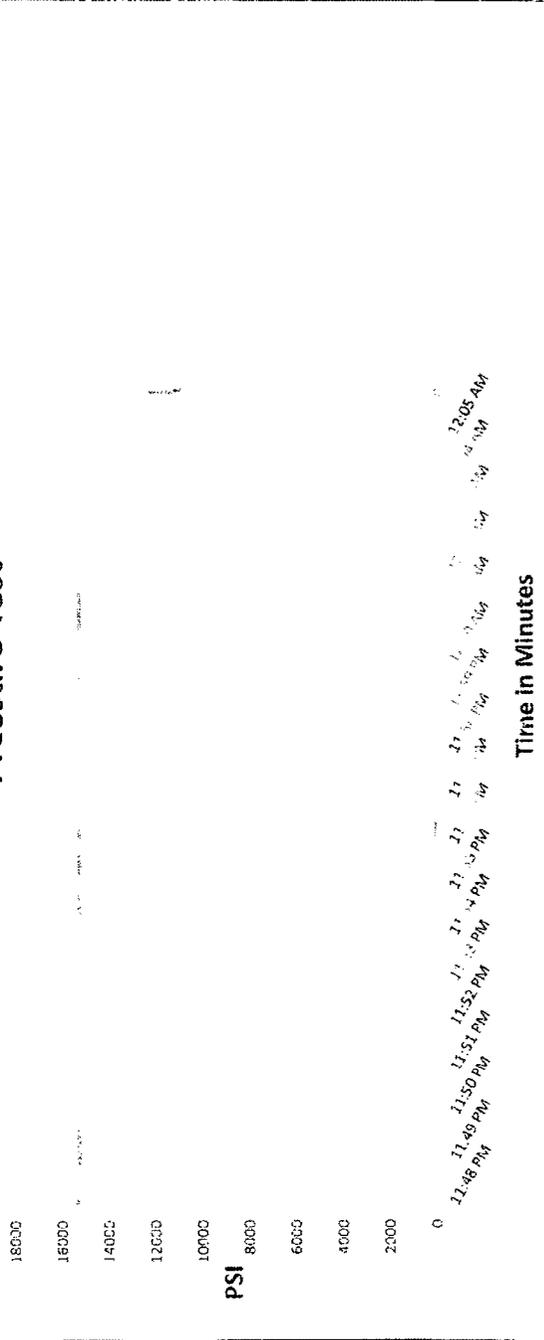
Pick Ticket #: 296283

Hose Specifications

Verification

Hose Type Mud	Length 50'	Type of Fitting 2" 1502	Coupling Method Swage
I.D. 7"	O.D. 3.47"	Die Size 97MM	Final O.D. 4.03"
Working Pressure 10000 PSI	Burst Pressure Standard 50' x 100' Hydraulic Approval	Hose Serial # 11839	Hose Assembly Serial # 296283

Pressure Test



Test Pressure 15000 PSI Time Held at Test Pressure 17 3/4 Minutes Actual Burst Pressure Peak Pressure 15361 PSI

Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: Richard Davis

Richard Davis

Approved By: Ryan Adams

Ryan Adams



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Certificate

General Information		Hose Specifications	
Customer	PATTERSON B&E	Hose Assembly Type	Choke & Kill
MWH Sales Representative	AMY WHITE	Certification	API 7K/FSL Level 2
Date Assembled	3/10/2015	Hose Grade	MUD
Location Assembled	OKC	Hose Working Pressure	10000
Sales Order #	245805	Hose Lot # and Date Code	11839-11/14
Customer Purchase Order #	270590	Hose I.D. (Inches)	2"
Assembly Serial # (Pick Ticket #)	296283	Hose O.D. (Inches)	3.99"
Hose Assembly Length	50'	Armor (yes/no)	YES
Fittings			
End A		End B	
Stem (Part and Revision #)	R2.0X32M1502	Stem (Part and Revision #)	RF2.0 32F1502
Stem (Heat #)	14104546	Stem (Heat #)	A144853
Ferrule (Part and Revision #)	RF2.0 10K	Ferrule (Part and Revision #)	RF2.0 10K
Ferrule (Heat #)	41044	Ferrule (Heat #)	41044
Connection (Flange Hammer Union Part)		Connection (Part #)	
Connection (Heat #)		Connection (Heat #)	
Nut (Part #)	2" 1502 H2S	Nut (Part #)	
Nut (Heat #)		Nut (Heat #)	
Dies Used	97MM	Dies Used	97MM
Hydrostatic Test Requirements			
Test Pressure (psi)	15,000	Hose assembly was tested with ambient water temperature.	
Test Pressure Hold Time (minutes)	17 3/4		
Date Tested	Tested By	Approved By	
3/10/2015			



Midwest Hose
& Specialty, Inc.

Certificate of Conformity

Customer: **PATTERSON B&E**

Customer P.O.# **270590**

Sales Order # **245805**

Date Assembled: **3/10/2015**

Specifications

Hose Assembly Type: **Choke & Kill**

Assembly Serial # **295283**

Hose Lot # and Date Code **11839-11/14**

Hose Working Pressure (psi) **10000**

Test Pressure (psi) **15000**

We hereby certify that the above material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards.

Supplier:

Midwest Hose & Specialty, Inc.

3312 S I-35 Service Rd

Oklahoma City, OK 73129

Comments:

Approved By

Date

3/19/2015



Midwest Hose & Specialty, Inc.

Internal Hydrostatic Test Graph

Customer: Patterson

Pick Ticket #: 286159

Hose Specifications

Hose Type

Ck

Length

50'

O.D.

3.55"

Working Pressure

10000 PSI

Standard Safety Factor: 4.0

Verification

Type of Fitting

2" 1502

Die Size

97MM

Hose Serial #

11784

Coupling Method

Swage

Final O.D.

3.98"

Hose Assembly Serial #

286159

Pressure Test

18000
16000
14000
12000
10000
8000
6000
4000
2000
0

PSI

2:46 AM 2:49 AM 2:50 AM 2:51 AM 2:52 AM 2:53 AM 2:54 AM 2:55 AM 2:56 AM 2:57 AM 2:58 AM 2:59 AM 3:00 AM 3:01 AM 3:02 AM 3:03 AM 3:04 AM 3:05 AM 3:06 AM 3:07 AM 3:08 AM 3:09 AM 3:10 AM 3:11 AM 3:12 AM 3:13 AM 3:14 AM 3:15 AM 3:16 AM 3:17 AM 3:18 AM 3:19 AM 3:20 AM 3:21 AM 3:22 AM 3:23 AM 3:24 AM 3:25 AM 3:26 AM 3:27 AM 3:28 AM 3:29 AM 3:30 AM 3:31 AM 3:32 AM 3:33 AM 3:34 AM 3:35 AM 3:36 AM 3:37 AM 3:38 AM 3:39 AM 3:40 AM 3:41 AM 3:42 AM 3:43 AM 3:44 AM 3:45 AM 3:46 AM 3:47 AM 3:48 AM 3:49 AM 3:50 AM 3:51 AM 3:52 AM 3:53 AM 3:54 AM 3:55 AM 3:56 AM 3:57 AM 3:58 AM 3:59 AM 4:00 AM

Time in Minutes

Test Pressure
15000 PSI

Time Held at Test Pressure
15 1/4 Minutes

Actual Burst Pressure

Peak Pressure
15410 PSI

Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: Tyler Hill

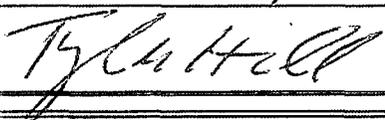
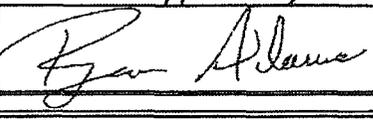
Approved By: Ryan Adams

R 809. Check in Wells
Hosco
December 24, 2017



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Certificate

General Information		Hose Specifications	
Customer	PATTERSON B&E	Hose Assembly Type	Choke & Kill
MWH Sales Representative	AMY WHITE	Certification	API 7K/FSL Level 2
Date Assembled	12/23/2014	Hose Grade	MUD
Location Assembled	OKC	Hose Working Pressure	10000
Sales Order #	237566	Hose Lot # and Date Code	11784-10/14
Customer Purchase Order #	261581	Hose I.D. (Inches)	2"
Assembly Serial # (Pick Ticket #)	286159	Hose O.D. (Inches)	4.00"
Hose Assembly Length	50'	Armor (yes/no)	YES
Fittings			
End A		End B	
Stem (Part and Revision #)	R2.0X32M1502	Stem (Part and Revision #)	R2.0X32M1502
Stem (Heat #)	M14104546	Stem (Heat #)	M14101226
Ferrule (Part and Revision #)	RF2.0 10K	Ferrule (Part and Revision #)	RF2.0 10K
Ferrule (Heat #)	41044	Ferrule (Heat #)	41044
Connection (Flange Hammer Union Part)	2"1502	Connection (Part #)	
Connection (Heat #)	2866	Connection (Heat #)	
Nut (Part #)		Nut (Part #)	
Nut (Heat #)		Nut (Heat #)	
Dies Used	97MM	Dies Used	97MM
Hydrostatic Test Requirements			
Test Pressure (psi)	15,000	Hose assembly was tested with ambient water temperature.	
Test Pressure Hold Time (minutes)	15 1/4		
Date Tested	Tested By		Approved By
12/24/2014			



Midwest Hose
& Specialty, Inc.

Certificate of Conformity

Customer: **PATTERSON B&E**

Customer P.O.# **261581**

Sales Order # **237566**

Date Assembled: **12/23/2014**

Specifications

Hose Assembly Type: **Choke & Kill**

Assembly Serial # **286159**

Hose Lot # and Date Code **11784-10/14**

Hose Working Pressure (psi) **10000**

Test Pressure (psi) **15000**

We hereby certify that the above material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards.

Supplier:

Midwest Hose & Specialty, Inc.

3312 S I-35 Service Rd

Oklahoma City, OK 73129

Comments:

Approved By

Date

12/29/2014

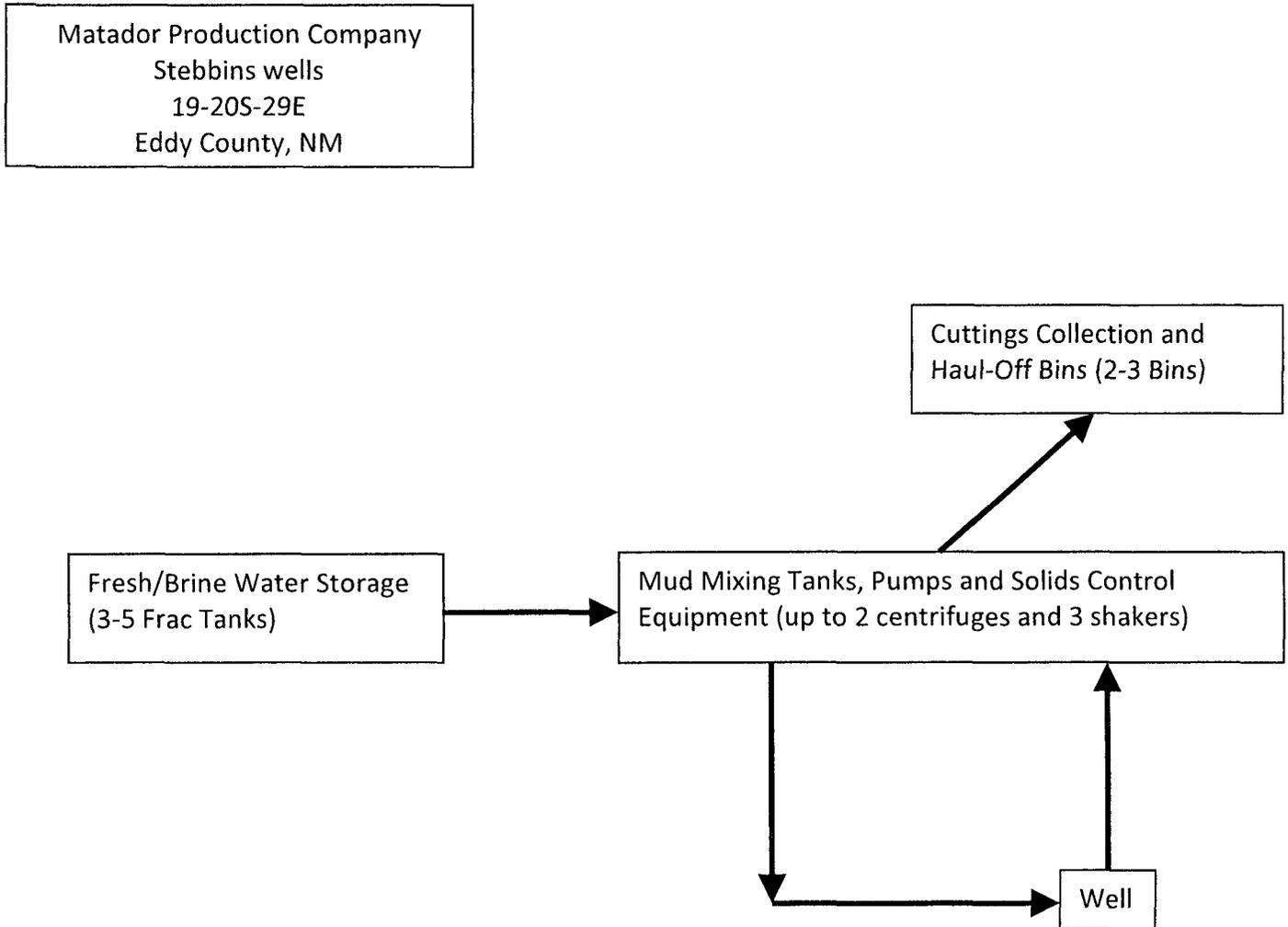


Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Certificate

General Information		Hose Specifications	
Customer	PATTERSON B&E	Hose Assembly Type	Choke & Kill
MWH Sales Representative	AMY WHITE	Certification	API 7K/FSL Level 2
Date Assembled	3/10/2015	Hose Grade	MUD
Location Assembled	OKC	Hose Working Pressure	10000
Sales Order #	245805	Hose Lot # and Date Code	11839-11/14
Customer Purchase Order #	270590	Hose I.D. (Inches)	2"
Assembly Serial # (Pick Ticket #)	296283	Hose O.D. (Inches)	3.99"
Hose Assembly Length	50'	Aarmor (yes/no)	YES
Fittings			
End A		End B	
Stem (Part and Revision #)	R2.0X32M1502	Stem (Part and Revision #)	RF2.0 32F1502
Stem (Heat #)	14104546	Stem (Heat #)	A144853
Ferrule (Part and Revision #)	RF2.0 10K	Ferrule (Part and Revision #)	RF2.0 10K
Ferrule (Heat #)	41044	Ferrule (Heat #)	41044
Connection, Flange Hammer Union Part		Connection (Part #)	
Connection (Heat #)		Connection (Heat #)	
Nut (Part #)	2" 1502 H2S	Nut (Part #)	
Nut (Heat #)		Nut (Heat #)	
Dies Used	97MM	Dies Used	97MM
Hydrostatic Test Requirements			
Test Pressure (psi)	15,000	Hose assembly was tested with ambient water temperature.	
Test Pressure Hold Time (minutes)	17 3/4		
Date Tested	Tested By	Approved By	
3/10/2015			

Closed-Loop System

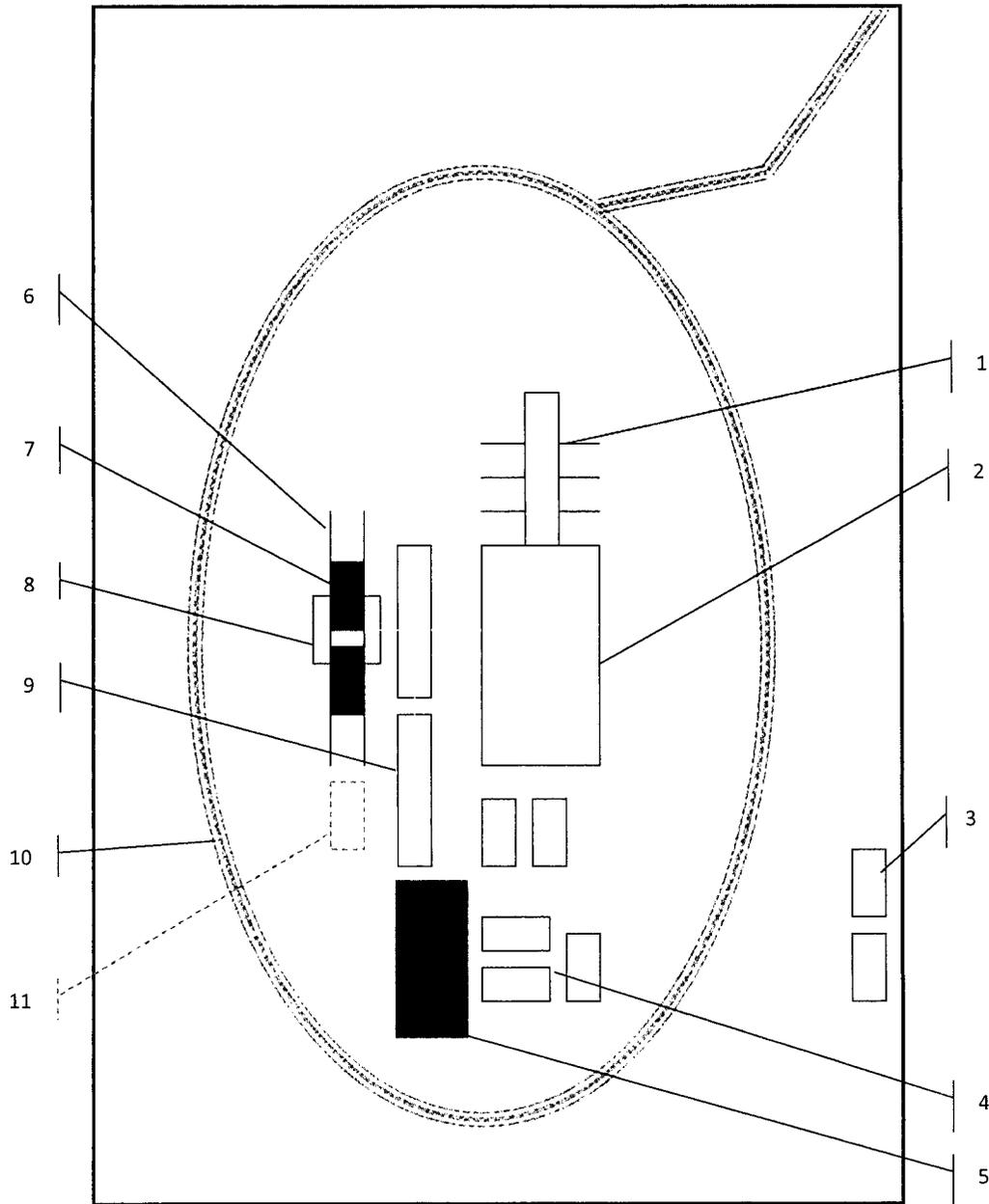


Operating and Maintenance Plan:

During drilling operations, third party service companies will use solids control equipment to remove cuttings from the drilling fluids and collect it in haul-off bins. Equipment will be closely monitored at all times while drilling by the derrick man and the service company employees.

Closure Plan:

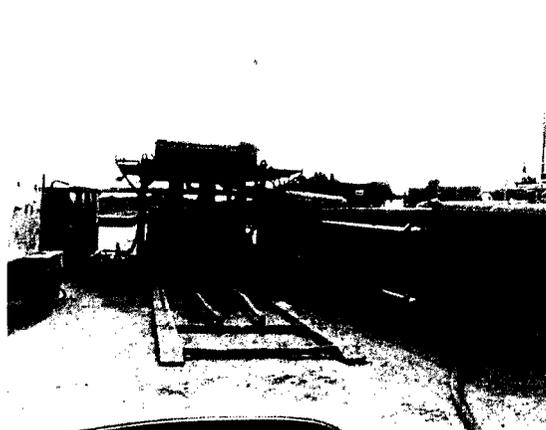
During drilling operations, third party service companies will haul off drill solids and fluids to an approved disposal facility. At the end of the well, all closed loop equipment will be removed from the location.



Schematic Closed Loop Drilling Rig*

1. Pipe Rack
2. Drill Rig
3. House Trailers/ Offices
4. Generator/Fuel/Storage
5. Overflow-Frac Tank
6. Skids
7. Roll Offs
8. Hopper or Centrifuge
9. Mud Tanks
10. Loop Drive
11. Generator (only for use with centrifuge)

*Not drawn to scale: Closed loop system requires at least 30 feet beyond mud tanks. Ideally 60 feet would be available



Above: Centrifugal Closed Loop System

PERMITS WEST, INC.

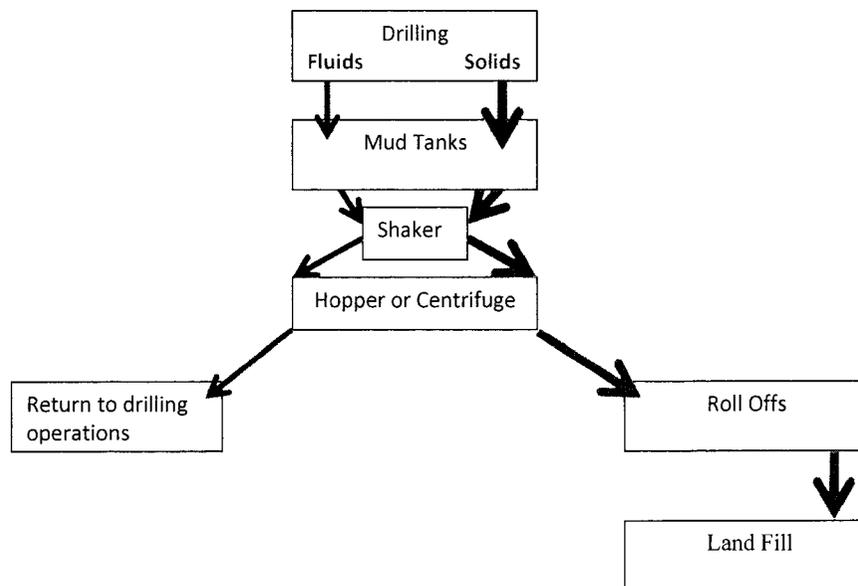
PROVIDING PERMITS for LAND USERS

17Verano Loop, Santa Fe, New Mexico 87508 Phone: 505-466-8120



Closed Loop Drilling System: Mud tanks to right (1)
 Hopper in air to settle out solids (2)
 Water return pipe (3)
 Shaker between hopper and mud tanks (4)
 Roll offs on skids (5)

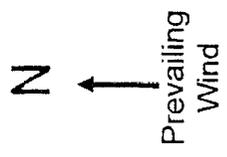
Flow Chart for Drilling Fluids and Solids



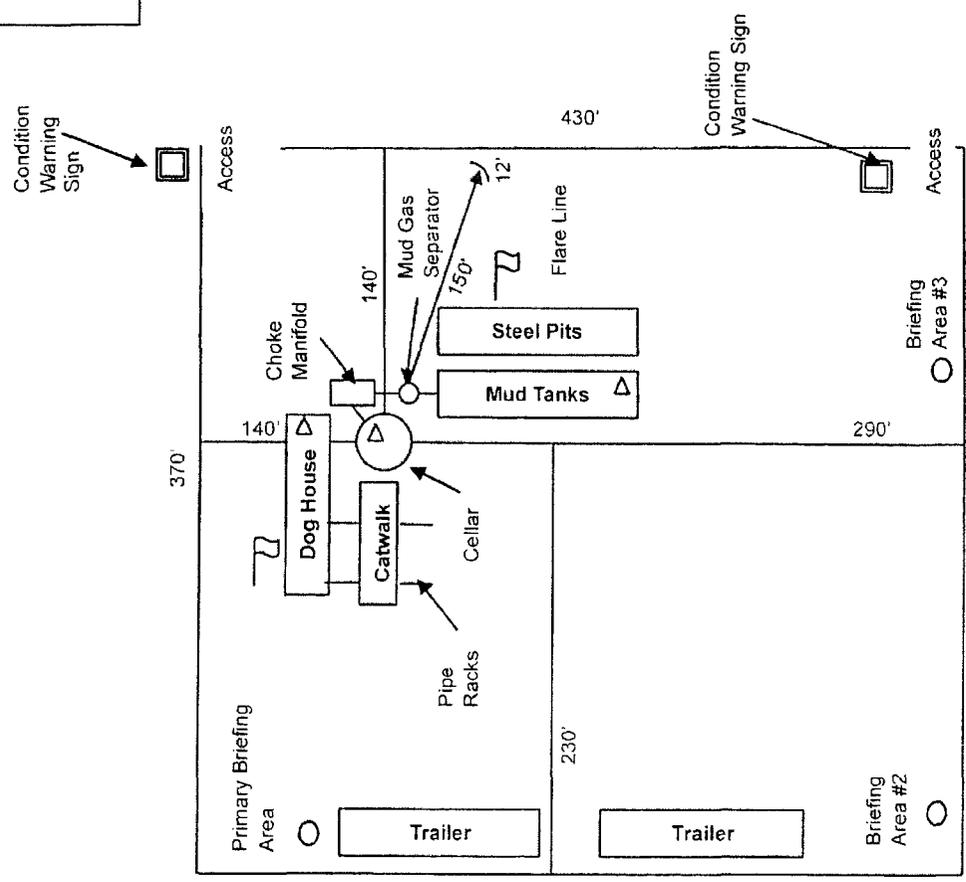
Photos Courtesy of Gandy Corporation Oil Field Service

Rig Layout Diagram

Stebbins 19 Fed 124H
 SHL 360 FSL & 130 FEL Sec. 19
 BHL 330 FSL & 240 FWL Sec. 19
 19-20S-29E Eddy County, NM



-  Wind Direction Indicator
-  H2S Monitors
-  Briefing Areas



30' wide topsoil pile

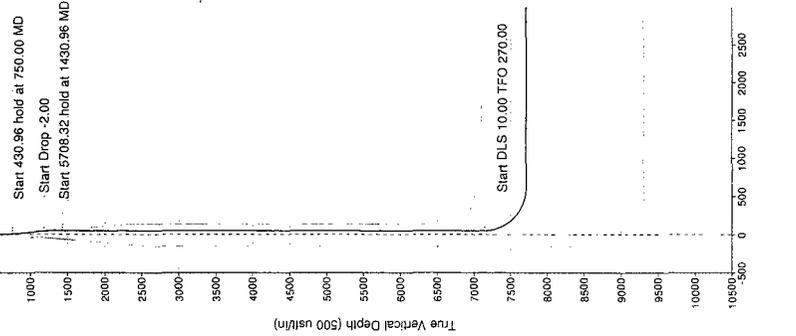




Matador Resources
 Eddy County, NM
 Stebbins Federal 19 (114-124-134-204)
 No. 124H
 Prelim Plan A
 GL: 3242 + KB: 28.5 (Patt809)



Vertical Section at 269.62° (500 usf/in)
 Start 430.96 hold at 750.00 MD
 Start Drop -2.00
 Start 5708.32 hold at 1430.96 MD

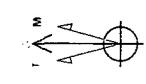


US State Plane 1627 (East solution)
 NAD 83 (NAD83 CONUS)
 Clarke 1866
 Mean Sea Level

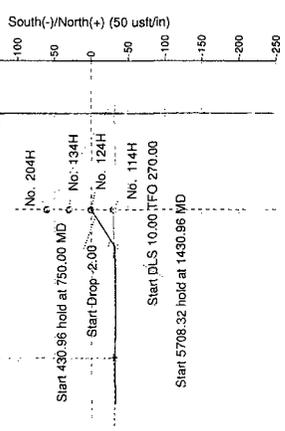
RKB Elevation: Well @ 3270.50usft (GL 3242 + KB: 28.5 (Patt809))
 Easting 570139.00
 Northing 564619.00
 Latitude 32° 33' 9.321" N
 Longitude 104° 6' 20.517" W
 Slot

SECTION DETAILS: Lateral

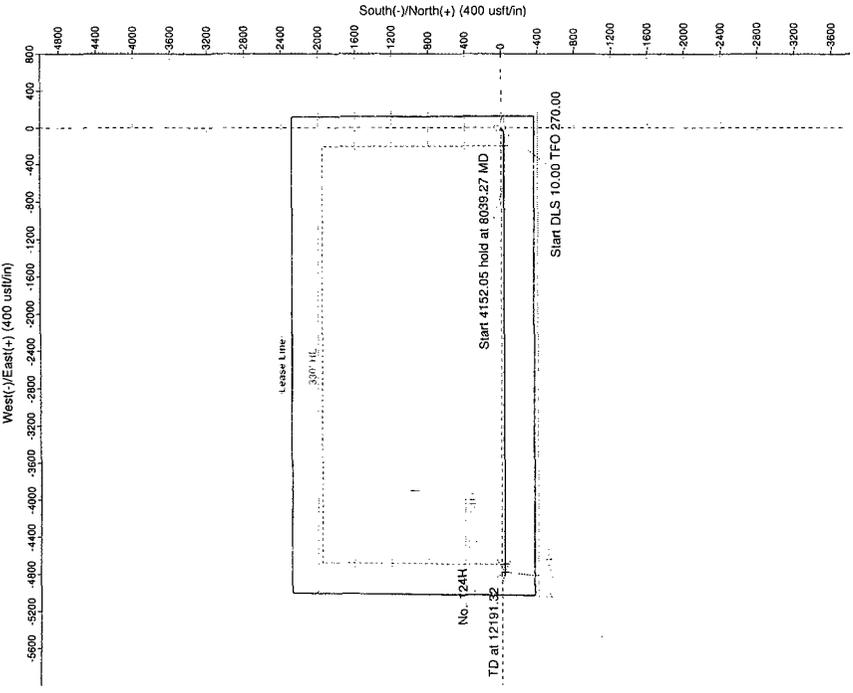
Sec	MD	+E/W	Northing	Easting	Latitude	Longitude	Slot
1	0.00	0.00	564619.00	570139.00	32° 33' 9.321" N	104° 6' 20.517" W	
2	500.00	0.00	564619.00	570139.00			
3	750.00	5.00	237.38	749.68			
4	1180.96	5.00	237.38	1175.00			
5	1430.96	0.00	0.00	1430.96			
6	1430.96	0.00	0.00	1430.96			
7	8039.27	90.00	270.00	7709.96			
8	12191.32	90.00	270.00	7710.00			



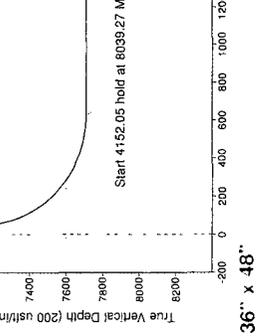
Adjustment to Grid North
 Magnetic North: 7.34°
 Magnetic Declination: 7.34°
 Strength: 42988.000
 Dip Angle: 90.42°
 Model: IIGM



Adjustment to Grid North
 Magnetic North: 7.34°
 Magnetic Declination: 7.34°
 Strength: 42988.000
 Dip Angle: 90.42°
 Model: IIGM



Vertical Section at 269.62° (200 usf/in)



36" x 48"



Pro Directional
Survey Report



Company: Matador Resources	Local Co-ordinate Reference: Well No. 124H
Project: Eddy County, NM	TVD Reference: Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Site: Stebbins Federal 19 (114-124-134-204)	MD Reference: Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Well: No. 124H	North Reference: Grid
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: Prelim Plan A	Database: Well_Planner1

Project	Eddy County, NM	
Map System:	US State Plane 1927 (Exact solution)	System Datum: Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)	
Map Zone:	New Mexico East 3001	

Site	Stebbins Federal 19 (114-124-134-204)		
Site Position:	Northing: 564,789.00 usft	Latitude: 32° 33' 9.024 N	
From: Map	Easting: 570,139.00 usft	Longitude: 104° 6' 20.518 W	
Position Uncertainty: 3.30 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.12 °	

Well	No. 124H		
Well Position	+N/-S 0.00 usft	Northing: 564,819.00 usft	Latitude: 32° 33' 9.321 N
	+E/-W 0.00 usft	Easting: 570,139.00 usft	Longitude: 104° 6' 20.517 W
Position Uncertainty	1.10 usft	Wellhead Elevation: 0.00 usft	Ground Level: 3,242.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	8/4/2016	7.47	60.42	48,288

Design	Prelim Plan A			
Audit Notes:				
Version:	Phase: PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	269.62

Survey Tool Program	Date 8/4/2016			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	12,191.32	Prelim Plan A (OH)	MWD - OWSG	MWD - OWSG

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	2.00	237.38	599.98	-0.94	-1.47	1.48	2.00	2.00	0.00
700.00	4.00	237.38	699.84	-3.76	-5.88	5.90	2.00	2.00	0.00
750.00	5.00	237.38	749.68	-5.88	-9.18	9.22	2.00	2.00	0.00



Pro Directional
Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Stebbins Federal 19 (114-124-134-204)
Well: No. 124H
Wellbore: OH
Design: Prelim Plan A

Local Co-ordinate Reference: Well No. 124H
TVD Reference: Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
MD Reference: Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Well_Planner1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
800.00	5.00	237.38	799.49	-8.23	-12.85	12.91	0.00	0.00	0.00
900.00	5.00	237.38	899.11	-12.92	-20.19	20.28	0.00	0.00	0.00
1,000.00	5.00	237.38	998.73	-17.62	-27.53	27.65	0.00	0.00	0.00
1,100.00	5.00	237.38	1,098.35	-22.32	-34.88	35.02	0.00	0.00	0.00
1,180.96	5.00	237.38	1,179.00	-26.12	-40.82	40.99	0.00	0.00	0.00
1,200.00	4.62	237.38	1,197.98	-26.98	-42.16	42.34	2.00	-2.00	0.00
1,300.00	2.62	237.38	1,297.77	-30.39	-47.48	47.68	2.00	-2.00	0.00
1,400.00	0.62	237.38	1,397.73	-31.91	-49.86	50.07	2.00	-2.00	0.00
1,430.96	0.00	0.00	1,428.68	-32.00	-50.00	50.21	2.00	-2.00	0.00
1,500.00	0.00	0.00	1,497.73	-32.00	-50.00	50.21	0.00	0.00	0.00
1,600.00	0.00	0.00	1,597.73	-32.00	-50.00	50.21	0.00	0.00	0.00
1,700.00	0.00	0.00	1,697.73	-32.00	-50.00	50.21	0.00	0.00	0.00
1,800.00	0.00	0.00	1,797.73	-32.00	-50.00	50.21	0.00	0.00	0.00
1,900.00	0.00	0.00	1,897.73	-32.00	-50.00	50.21	0.00	0.00	0.00
2,000.00	0.00	0.00	1,997.73	-32.00	-50.00	50.21	0.00	0.00	0.00
2,100.00	0.00	0.00	2,097.73	-32.00	-50.00	50.21	0.00	0.00	0.00
2,200.00	0.00	0.00	2,197.73	-32.00	-50.00	50.21	0.00	0.00	0.00
2,300.00	0.00	0.00	2,297.73	-32.00	-50.00	50.21	0.00	0.00	0.00
2,400.00	0.00	0.00	2,397.73	-32.00	-50.00	50.21	0.00	0.00	0.00
2,500.00	0.00	0.00	2,497.73	-32.00	-50.00	50.21	0.00	0.00	0.00
2,600.00	0.00	0.00	2,597.73	-32.00	-50.00	50.21	0.00	0.00	0.00
2,700.00	0.00	0.00	2,697.73	-32.00	-50.00	50.21	0.00	0.00	0.00
2,800.00	0.00	0.00	2,797.73	-32.00	-50.00	50.21	0.00	0.00	0.00
2,900.00	0.00	0.00	2,897.73	-32.00	-50.00	50.21	0.00	0.00	0.00
3,000.00	0.00	0.00	2,997.73	-32.00	-50.00	50.21	0.00	0.00	0.00
3,100.00	0.00	0.00	3,097.73	-32.00	-50.00	50.21	0.00	0.00	0.00
3,200.00	0.00	0.00	3,197.73	-32.00	-50.00	50.21	0.00	0.00	0.00
3,300.00	0.00	0.00	3,297.73	-32.00	-50.00	50.21	0.00	0.00	0.00
3,400.00	0.00	0.00	3,397.73	-32.00	-50.00	50.21	0.00	0.00	0.00
3,500.00	0.00	0.00	3,497.73	-32.00	-50.00	50.21	0.00	0.00	0.00
3,600.00	0.00	0.00	3,597.73	-32.00	-50.00	50.21	0.00	0.00	0.00
3,700.00	0.00	0.00	3,697.73	-32.00	-50.00	50.21	0.00	0.00	0.00
3,800.00	0.00	0.00	3,797.73	-32.00	-50.00	50.21	0.00	0.00	0.00
3,900.00	0.00	0.00	3,897.73	-32.00	-50.00	50.21	0.00	0.00	0.00
4,000.00	0.00	0.00	3,997.73	-32.00	-50.00	50.21	0.00	0.00	0.00
4,100.00	0.00	0.00	4,097.73	-32.00	-50.00	50.21	0.00	0.00	0.00
4,200.00	0.00	0.00	4,197.73	-32.00	-50.00	50.21	0.00	0.00	0.00
4,300.00	0.00	0.00	4,297.73	-32.00	-50.00	50.21	0.00	0.00	0.00
4,400.00	0.00	0.00	4,397.73	-32.00	-50.00	50.21	0.00	0.00	0.00
4,500.00	0.00	0.00	4,497.73	-32.00	-50.00	50.21	0.00	0.00	0.00
4,600.00	0.00	0.00	4,597.73	-32.00	-50.00	50.21	0.00	0.00	0.00
4,700.00	0.00	0.00	4,697.73	-32.00	-50.00	50.21	0.00	0.00	0.00



Pro Directional
Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Stebbins Federal 19 (114-124-134-204)
Well: No. 124H
Wellbore: OH
Design: Prelim Plan A

Local Co-ordinate Reference: Well No. 124H
TVD Reference: Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
MD Reference: Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Well_Planner1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,800.00	0.00	0.00	4,797.73	-32.00	-50.00	50.21	0.00	0.00	0.00
4,900.00	0.00	0.00	4,897.73	-32.00	-50.00	50.21	0.00	0.00	0.00
5,000.00	0.00	0.00	4,997.73	-32.00	-50.00	50.21	0.00	0.00	0.00
5,100.00	0.00	0.00	5,097.73	-32.00	-50.00	50.21	0.00	0.00	0.00
5,200.00	0.00	0.00	5,197.73	-32.00	-50.00	50.21	0.00	0.00	0.00
5,300.00	0.00	0.00	5,297.73	-32.00	-50.00	50.21	0.00	0.00	0.00
5,400.00	0.00	0.00	5,397.73	-32.00	-50.00	50.21	0.00	0.00	0.00
5,500.00	0.00	0.00	5,497.73	-32.00	-50.00	50.21	0.00	0.00	0.00
5,600.00	0.00	0.00	5,597.73	-32.00	-50.00	50.21	0.00	0.00	0.00
5,700.00	0.00	0.00	5,697.73	-32.00	-50.00	50.21	0.00	0.00	0.00
5,800.00	0.00	0.00	5,797.73	-32.00	-50.00	50.21	0.00	0.00	0.00
5,900.00	0.00	0.00	5,897.73	-32.00	-50.00	50.21	0.00	0.00	0.00
6,000.00	0.00	0.00	5,997.73	-32.00	-50.00	50.21	0.00	0.00	0.00
6,100.00	0.00	0.00	6,097.73	-32.00	-50.00	50.21	0.00	0.00	0.00
6,200.00	0.00	0.00	6,197.73	-32.00	-50.00	50.21	0.00	0.00	0.00
6,300.00	0.00	0.00	6,297.73	-32.00	-50.00	50.21	0.00	0.00	0.00
6,400.00	0.00	0.00	6,397.73	-32.00	-50.00	50.21	0.00	0.00	0.00
6,500.00	0.00	0.00	6,497.73	-32.00	-50.00	50.21	0.00	0.00	0.00
6,600.00	0.00	0.00	6,597.73	-32.00	-50.00	50.21	0.00	0.00	0.00
6,700.00	0.00	0.00	6,697.73	-32.00	-50.00	50.21	0.00	0.00	0.00
6,800.00	0.00	0.00	6,797.73	-32.00	-50.00	50.21	0.00	0.00	0.00
6,900.00	0.00	0.00	6,897.73	-32.00	-50.00	50.21	0.00	0.00	0.00
7,000.00	0.00	0.00	6,997.73	-32.00	-50.00	50.21	0.00	0.00	0.00
7,100.00	0.00	0.00	7,097.73	-32.00	-50.00	50.21	0.00	0.00	0.00
7,139.27	0.00	0.00	7,137.00	-32.00	-50.00	50.21	0.00	0.00	0.00
7,150.00	1.07	270.00	7,147.73	-32.00	-50.10	50.31	10.00	10.00	0.00
7,200.00	6.07	270.00	7,197.61	-32.00	-53.22	53.43	10.00	10.00	0.00
7,250.00	11.07	270.00	7,247.04	-32.00	-60.67	60.88	10.00	10.00	0.00
7,300.00	16.07	270.00	7,295.63	-32.00	-72.40	72.61	10.00	10.00	0.00
7,350.00	21.07	270.00	7,343.01	-32.00	-88.32	88.53	10.00	10.00	0.00
7,400.00	26.07	270.00	7,388.82	-32.00	-108.31	108.52	10.00	10.00	0.00
7,450.00	31.07	270.00	7,432.72	-32.00	-132.21	132.42	10.00	10.00	0.00
7,500.00	36.07	270.00	7,474.36	-32.00	-159.85	160.06	10.00	10.00	0.00
7,550.00	41.07	270.00	7,513.44	-32.00	-191.02	191.23	10.00	10.00	0.00
7,600.00	46.07	270.00	7,549.66	-32.00	-225.47	225.68	10.00	10.00	0.00
7,650.00	51.07	270.00	7,582.73	-32.00	-262.95	263.16	10.00	10.00	0.00
7,700.00	56.07	270.00	7,612.41	-32.00	-303.17	303.37	10.00	10.00	0.00
7,750.00	61.07	270.00	7,638.47	-32.00	-345.82	346.02	10.00	10.00	0.00
7,800.00	66.07	270.00	7,660.72	-32.00	-390.58	390.78	10.00	10.00	0.00
7,850.00	71.07	270.00	7,678.98	-32.00	-437.11	437.31	10.00	10.00	0.00
7,900.00	76.07	270.00	7,693.11	-32.00	-485.05	485.25	10.00	10.00	0.00
7,950.00	81.07	270.00	7,703.02	-32.00	-534.04	534.25	10.00	10.00	0.00



Pro Directional
Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Stebbins Federal 19 (114-124-134-204)
Well: No. 124H
Wellbore: OH
Design: Prelim Plan A

Local Co-ordinate Reference: Well No. 124H
TVD Reference: Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
MD Reference: Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Well_Planner1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,000.00	86.07	270.00	7,708.61	-32.00	-583.71	583.92	10.00	10.00	0.00
8,039.27	90.00	270.00	7,709.96	-32.00	-622.95	623.15	10.00	10.00	0.00
8,100.00	90.00	270.00	7,709.96	-32.00	-683.68	683.88	0.00	0.00	0.00
8,200.00	90.00	270.00	7,709.96	-32.00	-783.68	783.88	0.00	0.00	0.00
8,300.00	90.00	270.00	7,709.96	-32.00	-883.68	883.88	0.00	0.00	0.00
8,400.00	90.00	270.00	7,709.96	-32.00	-983.68	983.88	0.00	0.00	0.00
8,500.00	90.00	270.00	7,709.96	-32.00	-1,083.68	1,083.87	0.00	0.00	0.00
8,600.00	90.00	270.00	7,709.96	-32.00	-1,183.68	1,183.87	0.00	0.00	0.00
8,700.00	90.00	270.00	7,709.96	-32.00	-1,283.68	1,283.87	0.00	0.00	0.00
8,800.00	90.00	270.00	7,709.97	-32.00	-1,383.68	1,383.87	0.00	0.00	0.00
8,900.00	90.00	270.00	7,709.97	-32.00	-1,483.68	1,483.86	0.00	0.00	0.00
9,000.00	90.00	270.00	7,709.97	-32.00	-1,583.68	1,583.86	0.00	0.00	0.00
9,100.00	90.00	270.00	7,709.97	-32.00	-1,683.68	1,683.86	0.00	0.00	0.00
9,200.00	90.00	270.00	7,709.97	-32.00	-1,783.68	1,783.86	0.00	0.00	0.00
9,300.00	90.00	270.00	7,709.97	-32.00	-1,883.68	1,883.86	0.00	0.00	0.00
9,400.00	90.00	270.00	7,709.97	-32.00	-1,983.68	1,983.85	0.00	0.00	0.00
9,500.00	90.00	270.00	7,709.97	-32.00	-2,083.68	2,083.85	0.00	0.00	0.00
9,600.00	90.00	270.00	7,709.97	-32.00	-2,183.68	2,183.85	0.00	0.00	0.00
9,700.00	90.00	270.00	7,709.97	-32.00	-2,283.68	2,283.85	0.00	0.00	0.00
9,800.00	90.00	270.00	7,709.98	-32.00	-2,383.68	2,383.84	0.00	0.00	0.00
9,900.00	90.00	270.00	7,709.98	-32.00	-2,483.68	2,483.84	0.00	0.00	0.00
10,000.00	90.00	270.00	7,709.98	-32.00	-2,583.68	2,583.84	0.00	0.00	0.00
10,100.00	90.00	270.00	7,709.98	-32.00	-2,683.68	2,683.84	0.00	0.00	0.00
10,200.00	90.00	270.00	7,709.98	-32.00	-2,783.68	2,783.84	0.00	0.00	0.00
10,300.00	90.00	270.00	7,709.98	-32.00	-2,883.68	2,883.83	0.00	0.00	0.00
10,400.00	90.00	270.00	7,709.98	-32.00	-2,983.68	2,983.83	0.00	0.00	0.00
10,500.00	90.00	270.00	7,709.98	-32.00	-3,083.68	3,083.83	0.00	0.00	0.00
10,600.00	90.00	270.00	7,709.98	-32.00	-3,183.68	3,183.83	0.00	0.00	0.00
10,700.00	90.00	270.00	7,709.99	-32.00	-3,283.68	3,283.82	0.00	0.00	0.00
10,800.00	90.00	270.00	7,709.99	-32.00	-3,383.68	3,383.82	0.00	0.00	0.00
10,900.00	90.00	270.00	7,709.99	-32.00	-3,483.68	3,483.82	0.00	0.00	0.00
11,000.00	90.00	270.00	7,709.99	-32.00	-3,583.68	3,583.82	0.00	0.00	0.00
11,100.00	90.00	270.00	7,709.99	-32.00	-3,683.68	3,683.82	0.00	0.00	0.00
11,200.00	90.00	270.00	7,709.99	-32.00	-3,783.68	3,783.81	0.00	0.00	0.00
11,300.00	90.00	270.00	7,709.99	-32.00	-3,883.68	3,883.81	0.00	0.00	0.00
11,400.00	90.00	270.00	7,709.99	-32.00	-3,983.68	3,983.81	0.00	0.00	0.00
11,500.00	90.00	270.00	7,709.99	-32.00	-4,083.68	4,083.81	0.00	0.00	0.00
11,600.00	90.00	270.00	7,709.99	-32.00	-4,183.68	4,183.80	0.00	0.00	0.00
11,700.00	90.00	270.00	7,710.00	-32.00	-4,283.68	4,283.80	0.00	0.00	0.00
11,800.00	90.00	270.00	7,710.00	-32.00	-4,383.68	4,383.80	0.00	0.00	0.00
11,900.00	90.00	270.00	7,710.00	-32.00	-4,483.68	4,483.80	0.00	0.00	0.00
12,000.00	90.00	270.00	7,710.00	-32.00	-4,583.68	4,583.80	0.00	0.00	0.00



Pro Directional
Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Stebbins Federal 19 (114-124-134-204)
Well: No. 124H
Wellbore: OH
Design: Prelim Plan A

Local Co-ordinate Reference: Well No. 124H
TVD Reference: Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
MD Reference: Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Well_Planner1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,100.00	90.00	270.00	7,710.00	-32.00	-4,683.68	4,683.79	0.00	0.00	0.00
12,191.32	90.00	270.00	7,710.00	-32.00	-4,775.00	4,775.11	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
[StebFed19#124H]FPP - plan misses target center by 202.24usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	-30.00	-200.00	564,789.00	569,939.00	32° 33' 9.029 N	104° 6' 22.854 W
[StebFed19#124H]LPP - plan misses target center by 4685.11usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	-32.00	-4,685.00	564,787.00	565,454.00	32° 33' 9.100 N	104° 7' 15.255 W
[StebFed19#124H]BHL - plan hits target center - Point	0.00	0.00	7,710.00	-32.00	-4,775.00	564,787.00	565,364.00	32° 33' 9.102 N	104° 7' 16.307 W

Checked By: _____ Approved By: _____ Date: _____



Pro Directional
Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 124H
Project:	Eddy County, NM	TVD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Reference Site:	Stebbins Federal 19 (114-124-134-204)	MD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.10 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Well_Planner1
Reference Design:	Prelim Plan A	Offset TVD Reference:	Offset Datum

Reference	Prelim Plan A		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,875.15 usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	8/4/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	12,191.32	Prelim Plan A (OH)	MWD - OWSG	MWD - OWSG

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
	Offset Well - Wellbore - Design					
Stebbins Federal 19 (114-124-134-204)						
No. 114H - OH - Prelim Plan A	1,200.53	1,199.84	8.74	0.39	1.047	Level 2, CC, ES, SF
No. 134H - OH - Prelim Plan A	637.01	637.96	29.59	24.97	6.395	CC, ES
No. 134H - OH - Prelim Plan A	7,100.00	7,100.89	100.00	50.04	2.001	SF
No. 204H - OH - Prelim Plan A	500.00	500.00	60.00	56.18	15.703	CC
No. 204H - OH - Prelim Plan A	600.00	601.02	60.09	55.68	13.630	ES
No. 204H - OH - Prelim Plan A	7,100.00	7,105.10	200.00	150.12	4.009	SF

Offset Design Stebbins Federal 19 (114-124-134-204) - No. 114H - OH - Prelim Plan A													Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG													Offset Well Error:	1.10 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis			Distance						Warning	
				Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	1.10	1.10	180.00	-30.00	0.00	30.00					
100.00	100.00	100.00	100.00	1.11	1.11	180.00	-30.00	0.00	30.00	27.79	2.21	13.545		
200.00	200.00	200.00	200.00	1.20	1.20	180.00	-30.00	0.00	30.00	27.59	2.41	12.471		
300.00	300.00	300.00	300.00	1.39	1.39	180.00	-30.00	0.00	30.00	27.23	2.77	10.814		
400.00	400.00	400.00	400.00	1.63	1.63	180.00	-30.00	0.00	30.00	26.74	3.26	9.200		
500.00	500.00	500.00	500.00	1.91	1.91	180.00	-30.00	0.00	30.00	26.18	3.82	7.851		
600.00	599.98	599.98	599.96	2.20	2.21	-56.86	-30.02	-1.74	29.08	24.68	4.41	6.597		
700.00	699.84	699.90	699.74	2.51	2.51	-55.06	-30.09	-6.97	26.35	21.34	5.02	5.251		
800.00	799.49	799.76	799.26	2.83	2.84	-51.25	-30.20	-15.24	22.11	16.44	5.66	3.903		
900.00	899.11	899.65	898.76	3.16	3.18	-45.26	-30.32	-23.94	17.80	11.47	6.33	2.811		
1,000.00	998.73	999.54	998.27	3.51	3.53	-35.63	-30.44	-32.65	13.80	6.79	7.01	1.969		
1,100.00	1,098.35	1,099.42	1,097.77	3.86	3.88	-19.16	-30.55	-41.35	10.49	2.81	7.68	1.366	Level 3	
1,200.00	1,197.98	1,199.31	1,197.28	4.22	4.25	7.58	-30.67	-50.06	8.74	0.40	8.34	1.048	Level 2	
1,200.53	1,198.50	1,199.84	1,197.81	4.22	4.25	7.74	-30.67	-50.10	8.74	0.39	8.34	1.047	Level 2, CC, ES, SF	
1,300.00	1,297.77	1,299.19	1,296.78	4.58	4.61	30.52	-30.78	-58.76	11.33	2.29	9.04	1.253	Level 3	
1,400.00	1,397.73	1,398.97	1,396.19	4.92	4.98	35.88	-30.90	-67.46	17.69	7.95	9.75	1.816		
1,500.00	1,497.73	1,498.61	1,495.44	5.26	5.35	-87.84	-31.02	-76.14	26.26	15.83	10.43	2.518		
1,600.00	1,597.73	1,598.23	1,594.68	5.59	5.72	-88.57	-31.13	-84.82	34.97	23.85	11.12	3.146		
1,700.00	1,697.73	1,697.84	1,693.92	5.93	6.09	-89.01	-31.25	-93.50	43.68	31.87	11.81	3.699		
1,800.00	1,797.73	1,797.46	1,793.16	6.27	6.46	-89.30	-31.36	-102.18	52.39	39.89	12.50	4.191		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Pro Directional

Anticollision Report



Company: Matador Resources
Project: Eddy County, NM
Reference Site: Stebbins Federal 19 (114-124-134-204)
Site Error: 3.30 usft
Reference Well: No. 124H
Well Error: 1.10 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well No. 124H
TVD Reference: Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
MD Reference: Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: Well_Planner1
Offset TVD Reference: Offset Datum

Offset Design Stebbins Federal 19 (114-124-134-204) - No. 114H - OH - Prelim Plan A													Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG													Offset Well Error:	1.10 usft
Reference		Offset		Semi Major Axis			Distance				Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
1,900.00	1,897.73	1,897.08	1,892.40	6.61	6.84	-89.51	-31.48	-110.87	61.10	47.90	13.20	4.630		
2,000.00	1,997.73	1,996.70	1,991.64	6.96	7.21	-89.67	-31.59	-119.55	69.81	55.92	13.90	5.024		
2,100.00	2,097.73	2,096.32	2,090.88	7.30	7.59	-89.79	-31.71	-128.23	78.53	63.93	14.60	5.380		
2,200.00	2,197.73	2,195.94	2,190.12	7.65	7.97	-89.88	-31.83	-136.91	87.24	71.94	15.30	5.702		
2,300.00	2,297.73	2,298.13	2,292.00	8.00	8.35	-89.96	-31.93	-144.78	94.96	78.93	16.02	5.926		
2,400.00	2,397.73	2,401.55	2,395.32	8.35	8.72	-89.99	-31.99	-149.16	99.19	82.45	16.74	5.926		
2,500.00	2,497.73	2,503.96	2,497.73	8.70	9.07	-90.00	-32.00	-150.00	100.00	82.57	17.43	5.738		
2,600.00	2,597.73	2,603.96	2,597.73	9.05	9.40	-90.00	-32.00	-150.00	100.00	81.88	18.12	5.519		
2,700.00	2,697.73	2,703.96	2,697.73	9.40	9.74	-90.00	-32.00	-150.00	100.00	81.19	18.81	5.315		
2,800.00	2,797.73	2,803.96	2,797.73	9.75	10.07	-90.00	-32.00	-150.00	100.00	80.49	19.51	5.125		
2,900.00	2,897.73	2,903.96	2,897.73	10.10	10.41	-90.00	-32.00	-150.00	100.00	79.79	20.21	4.949		
3,000.00	2,997.73	3,003.96	2,997.73	10.45	10.75	-90.00	-32.00	-150.00	100.00	79.09	20.91	4.783		
3,100.00	3,097.73	3,103.96	3,097.73	10.80	11.09	-90.00	-32.00	-150.00	100.00	78.39	21.61	4.628		
3,200.00	3,197.73	3,203.96	3,197.73	11.16	11.44	-90.00	-32.00	-150.00	100.00	77.69	22.31	4.483		
3,300.00	3,297.73	3,303.96	3,297.73	11.51	11.78	-90.00	-32.00	-150.00	100.00	76.99	23.01	4.346		
3,400.00	3,397.73	3,403.96	3,397.73	11.86	12.12	-90.00	-32.00	-150.00	100.00	76.29	23.71	4.217		
3,500.00	3,497.73	3,503.96	3,497.73	12.22	12.47	-90.00	-32.00	-150.00	100.00	75.58	24.42	4.096		
3,600.00	3,597.73	3,603.96	3,597.73	12.57	12.81	-90.00	-32.00	-150.00	100.00	74.88	25.12	3.981		
3,700.00	3,697.73	3,703.96	3,697.73	12.93	13.16	-90.00	-32.00	-150.00	100.00	74.17	25.83	3.872		
3,800.00	3,797.73	3,803.96	3,797.73	13.28	13.51	-90.00	-32.00	-150.00	100.00	73.47	26.53	3.769		
3,900.00	3,897.73	3,903.96	3,897.73	13.64	13.85	-90.00	-32.00	-150.00	100.00	72.76	27.24	3.671		
4,000.00	3,997.73	4,003.96	3,997.73	13.99	14.20	-90.00	-32.00	-150.00	100.00	72.05	27.95	3.578		
4,100.00	4,097.73	4,103.96	4,097.73	14.35	14.55	-90.00	-32.00	-150.00	100.00	71.35	28.65	3.490		
4,200.00	4,197.73	4,203.96	4,197.73	14.70	14.90	-90.00	-32.00	-150.00	100.00	70.64	29.36	3.406		
4,300.00	4,297.73	4,303.96	4,297.73	15.06	15.25	-90.00	-32.00	-150.00	100.00	69.93	30.07	3.326		
4,400.00	4,397.73	4,403.96	4,397.73	15.41	15.60	-90.00	-32.00	-150.00	100.00	69.22	30.78	3.249		
4,500.00	4,497.73	4,503.96	4,497.73	15.77	15.95	-90.00	-32.00	-150.00	100.00	68.51	31.49	3.176		
4,600.00	4,597.73	4,603.96	4,597.73	16.13	16.30	-90.00	-32.00	-150.00	100.00	67.80	32.20	3.106		
4,700.00	4,697.73	4,703.96	4,697.73	16.48	16.65	-90.00	-32.00	-150.00	100.00	67.09	32.91	3.039		
4,800.00	4,797.73	4,803.96	4,797.73	16.84	17.00	-90.00	-32.00	-150.00	100.00	66.38	33.62	2.975		
4,900.00	4,897.73	4,903.96	4,897.73	17.19	17.35	-90.00	-32.00	-150.00	100.00	65.67	34.33	2.913		
5,000.00	4,997.73	5,003.96	4,997.73	17.55	17.70	-90.00	-32.00	-150.00	100.00	64.96	35.04	2.854		
5,100.00	5,097.73	5,103.96	5,097.73	17.91	18.06	-90.00	-32.00	-150.00	100.00	64.25	35.75	2.797		
5,200.00	5,197.73	5,203.96	5,197.73	18.26	18.41	-90.00	-32.00	-150.00	100.00	63.54	36.46	2.743		
5,300.00	5,297.73	5,303.96	5,297.73	18.62	18.76	-90.00	-32.00	-150.00	100.00	62.83	37.17	2.690		
5,400.00	5,397.73	5,403.96	5,397.73	18.98	19.11	-90.00	-32.00	-150.00	100.00	62.12	37.88	2.640		
5,500.00	5,497.73	5,503.96	5,497.73	19.33	19.47	-90.00	-32.00	-150.00	100.00	61.41	38.59	2.591		
5,600.00	5,597.73	5,603.96	5,597.73	19.69	19.82	-90.00	-32.00	-150.00	100.00	60.69	39.31	2.544		
5,700.00	5,697.73	5,703.96	5,697.73	20.05	20.17	-90.00	-32.00	-150.00	100.00	59.98	40.02	2.499		
5,800.00	5,797.73	5,803.96	5,797.73	20.40	20.53	-90.00	-32.00	-150.00	100.00	59.27	40.73	2.455		
5,900.00	5,897.73	5,903.96	5,897.73	20.76	20.88	-90.00	-32.00	-150.00	100.00	58.56	41.44	2.413		
6,000.00	5,997.73	6,003.96	5,997.73	21.12	21.23	-90.00	-32.00	-150.00	100.00	57.84	42.16	2.372		
6,100.00	6,097.73	6,103.96	6,097.73	21.47	21.59	-90.00	-32.00	-150.00	100.00	57.13	42.87	2.333		
6,200.00	6,197.73	6,203.96	6,197.73	21.83	21.94	-90.00	-32.00	-150.00	100.00	56.42	43.58	2.295		
6,300.00	6,297.73	6,303.96	6,297.73	22.19	22.30	-90.00	-32.00	-150.00	100.00	55.71	44.29	2.258		
6,400.00	6,397.73	6,403.96	6,397.73	22.55	22.65	-90.00	-32.00	-150.00	100.00	54.99	45.01	2.222		
6,500.00	6,497.73	6,503.96	6,497.73	22.90	23.00	-90.00	-32.00	-150.00	100.00	54.28	45.72	2.187		
6,600.00	6,597.73	6,592.44	6,586.07	23.26	23.32	-90.00	-32.00	-153.59	104.25	58.06	46.19	2.257		
6,700.00	6,697.73	6,674.58	6,666.76	23.62	23.63	-90.00	-32.00	-168.59	122.56	76.79	45.77	2.678		
6,800.00	6,797.73	6,750.00	6,738.27	23.97	23.94	-90.00	-32.00	-192.39	154.30	109.83	44.47	3.469		
6,900.00	6,897.73	6,819.99	6,801.31	24.33	24.24	-90.00	-32.00	-222.69	197.78	154.89	42.89	4.612		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Pro Directional Anticollision Report



Company: Matador Resources
Project: Eddy County, NM

Local Co-ordinate Reference: Well No. 124H
TVD Reference: Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))

Reference Site: Stebbins Federal 19 (114-124-134-204)

MD Reference: Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))

Site Error: 3.30 usft

North Reference: Grid

Reference Well: No. 124H

Survey Calculation Method: Minimum Curvature

Well Error: 1.10 usft

Output errors are at 2.00 sigma

Reference Wellbore OH

Database: Well_Planner1

Reference Design: Prelim Plan A

Offset TVD Reference: Offset Datum

Offset Design Stebbins Federal 19 (114-124-134-204) - No. 114H - OH - Prelim Plan A													Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG													Offset Well Error:	1.10 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,000.00	6,997.73	6,880.80	6,852.74	24.69	24.53	-90.00	-32.00	-255.10	251.17	210.24	40.93	6.137		
7,100.00	7,097.73	6,933.71	6,894.47	25.05	24.81	-90.00	-32.00	-287.59	312.67	273.77	38.89	8.039		
7,200.00	7,197.61	6,980.73	6,928.91	25.40	25.08	0.00	-32.00	-319.59	378.36	341.51	36.85	10.269		
7,300.00	7,295.63	7,027.62	6,960.52	25.75	25.38	0.00	-32.00	-354.20	437.85	403.26	34.59	12.660		
7,400.00	7,388.82	7,074.83	6,989.38	26.12	25.73	0.00	-32.00	-391.54	489.67	457.54	32.13	15.240		
7,500.00	7,474.36	7,122.29	7,015.20	26.52	26.12	0.00	-32.00	-431.34	533.43	503.91	29.52	18.072		
7,600.00	7,549.66	7,169.92	7,037.71	26.98	26.56	0.00	-32.00	-473.30	568.78	541.99	26.79	21.229		
7,700.00	7,612.41	7,217.67	7,056.70	27.57	27.06	0.00	-32.00	-517.11	595.47	571.43	24.04	24.775		
7,800.00	7,660.72	7,265.51	7,072.01	28.35	27.62	0.00	-32.00	-562.42	613.28	591.92	21.36	28.717		
7,900.00	7,693.11	7,313.40	7,083.49	29.36	28.23	0.00	-32.00	-608.89	622.08	603.16	18.92	32.877		
8,000.00	7,708.61	7,350.00	7,089.63	30.60	28.73	0.00	-32.00	-644.97	622.01	605.53	16.48	37.735		
8,100.00	7,709.96	7,409.30	7,094.65	32.03	29.61	0.00	-32.00	-704.03	615.65	599.86	15.79	38.997		
8,154.88	7,709.96	7,443.85	7,094.96	32.93	30.15	0.00	-32.00	-738.57	615.00	599.26	15.74	39.080		
8,200.00	7,709.96	7,488.96	7,094.96	33.66	30.89	0.00	-32.00	-783.69	615.00	598.89	16.11	38.172		
8,300.00	7,709.96	7,588.96	7,094.96	35.47	32.67	0.00	-32.00	-883.69	615.00	597.97	17.03	36.106		
8,400.00	7,709.96	7,688.96	7,094.96	37.42	34.61	0.00	-32.00	-983.69	615.00	596.96	18.04	34.083		
8,500.00	7,709.96	7,788.96	7,094.96	39.51	36.69	0.00	-32.00	-1,083.69	615.00	595.87	19.13	32.147		
8,600.00	7,709.96	7,888.96	7,094.96	41.70	38.88	0.00	-32.00	-1,183.69	615.00	594.72	20.28	30.324		
8,700.00	7,709.96	7,988.96	7,094.96	43.98	41.18	0.00	-32.00	-1,283.69	615.00	593.52	21.48	28.625		
8,800.00	7,709.97	8,088.96	7,094.96	46.34	43.55	0.00	-32.00	-1,383.69	615.00	592.27	22.73	27.053		
8,900.00	7,709.97	8,188.96	7,094.97	48.77	46.00	0.00	-32.00	-1,483.69	615.00	590.98	24.02	25.605		
9,000.00	7,709.97	8,288.96	7,094.97	51.25	48.50	0.00	-32.00	-1,583.69	615.00	589.66	25.34	24.273		
9,100.00	7,709.97	8,388.96	7,094.97	53.79	51.06	0.00	-32.00	-1,683.69	615.00	588.32	26.68	23.049		
9,200.00	7,709.97	8,488.96	7,094.97	56.37	53.65	0.00	-32.00	-1,783.69	615.00	586.95	28.05	21.925		
9,300.00	7,709.97	8,588.96	7,094.97	58.98	56.29	0.00	-32.00	-1,883.69	615.00	585.56	29.44	20.891		
9,400.00	7,709.97	8,688.96	7,094.97	61.63	58.95	0.00	-32.00	-1,983.69	615.00	584.16	30.84	19.939		
9,500.00	7,709.97	8,788.96	7,094.97	64.30	61.65	0.00	-32.00	-2,083.69	615.00	582.74	32.27	19.061		
9,600.00	7,709.97	8,888.96	7,094.97	67.00	64.37	0.00	-32.00	-2,183.69	615.00	581.30	33.70	18.250		
9,700.00	7,709.97	8,988.96	7,094.97	69.73	67.11	0.00	-32.00	-2,283.69	615.00	579.86	35.15	17.499		
9,800.00	7,709.98	9,088.96	7,094.98	72.47	69.87	0.00	-32.00	-2,383.69	615.00	578.40	36.60	16.803		
9,900.00	7,709.98	9,188.96	7,094.98	75.23	72.65	0.00	-32.00	-2,483.69	615.00	576.93	38.07	16.156		
10,000.00	7,709.98	9,288.96	7,094.98	78.01	75.44	0.00	-32.00	-2,583.69	615.00	575.46	39.54	15.554		
10,100.00	7,709.98	9,388.96	7,094.98	80.80	78.24	0.00	-32.00	-2,683.69	615.00	573.98	41.02	14.993		
10,200.00	7,709.98	9,488.96	7,094.98	83.60	81.06	0.00	-32.00	-2,783.69	615.00	572.50	42.51	14.469		
10,300.00	7,709.98	9,588.96	7,094.98	86.41	83.89	0.00	-32.00	-2,883.69	615.00	571.00	44.00	13.978		
10,400.00	7,709.98	9,688.96	7,094.98	89.24	86.72	0.00	-32.00	-2,983.69	615.00	569.51	45.49	13.518		
10,500.00	7,709.98	9,788.96	7,094.98	92.07	89.57	0.00	-32.00	-3,083.69	615.00	568.00	47.00	13.086		
10,600.00	7,709.98	9,888.96	7,094.98	94.91	92.42	0.00	-32.00	-3,183.69	615.00	566.50	48.50	12.680		
10,700.00	7,709.99	9,988.96	7,094.98	97.76	95.29	0.00	-32.00	-3,283.69	615.00	564.99	50.01	12.297		
10,800.00	7,709.99	10,088.96	7,094.99	100.62	98.15	0.00	-32.00	-3,383.69	615.00	563.47	51.53	11.936		
10,900.00	7,709.99	10,188.96	7,094.99	103.48	101.03	0.00	-32.00	-3,483.69	615.00	561.96	53.04	11.594		
11,000.00	7,709.99	10,288.96	7,094.99	106.35	103.91	0.00	-32.00	-3,583.69	615.00	560.44	54.56	11.271		
11,100.00	7,709.99	10,388.96	7,094.99	109.23	106.79	0.00	-32.00	-3,683.69	615.00	558.91	56.09	10.965		
11,200.00	7,709.99	10,488.96	7,094.99	112.11	109.68	0.00	-32.00	-3,783.69	615.00	557.39	57.61	10.675		
11,300.00	7,709.99	10,588.96	7,094.99	114.99	112.58	0.00	-32.00	-3,883.69	615.00	555.86	59.14	10.399		
11,400.00	7,709.99	10,688.96	7,094.99	117.88	115.47	0.00	-32.00	-3,983.69	615.00	554.33	60.67	10.137		
11,500.00	7,709.99	10,788.96	7,094.99	120.77	118.38	0.00	-32.00	-4,083.69	615.00	552.80	62.20	9.887		
11,600.00	7,709.99	10,888.96	7,094.99	123.67	121.28	0.00	-32.00	-4,183.69	615.00	551.27	63.73	9.649		
11,700.00	7,710.00	10,988.96	7,095.00	126.57	124.19	0.00	-32.00	-4,283.69	615.00	549.73	65.27	9.423		
11,800.00	7,710.00	11,088.96	7,095.00	129.47	127.10	0.00	-32.00	-4,383.69	615.00	548.19	66.81	9.206		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Pro Directional
Anticollision Report



Company: Matador Resources
Project: Eddy County, NM
Reference Site: Stebbins Federal 19 (114-124-134-204)
Site Error: 3.30 usft
Reference Well: No. 124H
Well Error: 1.10 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well No. 124H
TVD Reference: Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
MD Reference: Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: Well_Planner1
Offset TVD Reference: Offset Datum

Offset Design												Stebbins Federal 19 (114-124-134-204) - No. 114H - OH - Prelim Plan A	Offset Site Error:	0.00 usft
Survey Program:												0-MWD - OWSG	Offset Well Error:	1.10 usft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor	
11,900.00	7,710.00	11,188.96	7,095.00	132.38	130.01	0.00	-32.00	-4,483.69	615.00	546.66	68.34	8.999		
12,000.00	7,710.00	11,288.96	7,095.00	135.29	132.93	0.00	-32.00	-4,583.69	615.00	545.12	69.88	8.800		
12,100.00	7,710.00	11,388.96	7,095.00	138.20	135.85	0.00	-32.00	-4,683.69	615.00	543.58	71.42	8.610		
12,161.96	7,710.00	11,450.92	7,095.00	140.01	137.66	0.00	-32.00	-4,745.65	615.00	542.62	72.38	8.497		
12,191.32	7,710.00	11,480.27	7,095.00	140.86	138.52	0.00	-32.00	-4,775.00	615.00	542.17	72.83	8.444		



Pro Directional Anticollision Report



Company: Matador Resources
Project: Eddy County, NM
Reference Site: Stebbins Federal 19 (114-124-134-204)
Site Error: 3.30 usft
Reference Well: No. 124H
Well Error: 1.10 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well No. 124H
TVD Reference: Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
MD Reference: Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: Well_Planner1
Offset TVD Reference: Offset Datum

Offset Design Stebbins Federal 19 (114-124-134-204) - No. 134H - OH - Prelim Plan A													Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG													Offset Well Error:	1.10 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	1.10	1.10	0.00	30.00	0.00	30.00					
100.00	100.00	100.00	100.00	1.11	1.11	0.00	30.00	0.00	30.00	27.79	2.21	13.545		
200.00	200.00	200.00	200.00	1.20	1.20	0.00	30.00	0.00	30.00	27.59	2.41	12.471		
300.00	300.00	300.00	300.00	1.39	1.39	0.00	30.00	0.00	30.00	27.23	2.77	10.814		
400.00	400.00	400.00	400.00	1.63	1.63	0.00	30.00	0.00	30.00	26.74	3.26	9.200		
500.00	500.00	500.00	500.00	1.91	1.91	0.00	30.00	0.00	30.00	26.18	3.82	7.851		
600.00	599.98	600.75	600.73	2.20	2.20	127.63	28.62	1.11	29.68	25.28	4.41	6.735		
637.01	636.96	637.96	637.91	2.31	2.31	132.08	27.41	2.09	29.59	24.97	4.63	6.395 CC, ES		
700.00	699.84	701.10	700.93	2.51	2.50	142.67	24.51	4.43	30.11	25.10	5.01	6.012		
800.00	799.49	800.56	800.05	2.83	2.82	163.07	18.08	9.61	34.60	28.96	5.64	6.134		
900.00	899.11	899.72	898.83	3.16	3.15	178.03	11.36	15.03	42.79	36.49	6.29	6.797		
1,000.00	998.73	998.88	997.61	3.51	3.49	-172.21	4.63	20.46	52.91	45.95	6.96	7.597		
1,100.00	1,098.35	1,098.03	1,096.39	3.86	3.84	-165.70	-2.10	25.89	64.07	56.42	7.65	8.378		
1,200.00	1,197.98	1,197.20	1,195.18	4.22	4.20	-161.15	-8.82	31.31	75.74	67.40	8.34	9.082		
1,300.00	1,297.77	1,296.55	1,294.15	4.58	4.56	-157.30	-15.57	36.75	85.60	76.56	9.04	9.472		
1,400.00	1,397.73	1,396.10	1,393.32	4.92	4.92	-153.31	-22.32	42.19	92.65	82.92	9.74	9.517		
1,500.00	1,497.73	1,497.42	1,494.36	5.26	5.29	87.78	-28.24	46.97	97.10	86.66	10.44	9.302		
1,600.00	1,597.73	1,599.49	1,596.33	5.59	5.65	89.68	-31.44	49.55	99.56	88.42	11.14	8.938		
1,700.00	1,697.73	1,700.89	1,697.73	5.93	5.99	90.00	-32.00	50.00	100.00	88.18	11.82	8.460		
1,800.00	1,797.73	1,800.89	1,797.73	6.27	6.32	90.00	-32.00	50.00	100.00	87.51	12.49	8.003		
1,900.00	1,897.73	1,900.89	1,897.73	6.61	6.66	90.00	-32.00	50.00	100.00	86.83	13.17	7.591		
2,000.00	1,997.73	2,000.89	1,997.73	6.96	6.99	90.00	-32.00	50.00	100.00	86.14	13.86	7.217		
2,100.00	2,097.73	2,100.89	2,097.73	7.30	7.33	90.00	-32.00	50.00	100.00	85.46	14.54	6.876		
2,200.00	2,197.73	2,200.89	2,197.73	7.65	7.67	90.00	-32.00	50.00	100.00	84.77	15.23	6.565		
2,300.00	2,297.73	2,300.89	2,297.73	8.00	8.01	90.00	-32.00	50.00	100.00	84.08	15.92	6.280		
2,400.00	2,397.73	2,400.89	2,397.73	8.35	8.35	90.00	-32.00	50.00	100.00	83.38	16.62	6.018		
2,500.00	2,497.73	2,500.89	2,497.73	8.70	8.70	90.00	-32.00	50.00	100.00	82.69	17.31	5.776		
2,600.00	2,597.73	2,600.89	2,597.73	9.05	9.04	90.00	-32.00	50.00	100.00	81.99	18.01	5.553		
2,700.00	2,697.73	2,700.89	2,697.73	9.40	9.39	90.00	-32.00	50.00	100.00	81.29	18.71	5.345		
2,800.00	2,797.73	2,800.89	2,797.73	9.75	9.74	90.00	-32.00	50.00	100.00	80.59	19.41	5.153		
2,900.00	2,897.73	2,900.89	2,897.73	10.10	10.08	90.00	-32.00	50.00	100.00	79.89	20.11	4.973		
3,000.00	2,997.73	3,000.89	2,997.73	10.45	10.43	90.00	-32.00	50.00	100.00	79.19	20.81	4.805		
3,100.00	3,097.73	3,100.89	3,097.73	10.80	10.78	90.00	-32.00	50.00	100.00	78.49	21.51	4.648		
3,200.00	3,197.73	3,200.89	3,197.73	11.16	11.13	90.00	-32.00	50.00	100.00	77.78	22.22	4.501		
3,300.00	3,297.73	3,300.89	3,297.73	11.51	11.48	90.00	-32.00	50.00	100.00	77.08	22.92	4.362		
3,400.00	3,397.73	3,400.89	3,397.73	11.86	11.83	90.00	-32.00	50.00	100.00	76.37	23.63	4.232		
3,500.00	3,497.73	3,500.89	3,497.73	12.22	12.19	90.00	-32.00	50.00	100.00	75.67	24.33	4.109		
3,600.00	3,597.73	3,600.89	3,597.73	12.57	12.54	90.00	-32.00	50.00	100.00	74.96	25.04	3.993		
3,700.00	3,697.73	3,700.89	3,697.73	12.93	12.89	90.00	-32.00	50.00	100.00	74.25	25.75	3.884		
3,800.00	3,797.73	3,800.89	3,797.73	13.28	13.24	90.00	-32.00	50.00	100.00	73.54	26.46	3.780		
3,900.00	3,897.73	3,900.89	3,897.73	13.64	13.59	90.00	-32.00	50.00	100.00	72.83	27.17	3.681		
4,000.00	3,997.73	4,000.89	3,997.73	13.99	13.95	90.00	-32.00	50.00	100.00	72.13	27.87	3.588		
4,100.00	4,097.73	4,100.89	4,097.73	14.35	14.30	90.00	-32.00	50.00	100.00	71.42	28.58	3.499		
4,200.00	4,197.73	4,200.89	4,197.73	14.70	14.65	90.00	-32.00	50.00	100.00	70.71	29.29	3.414		
4,300.00	4,297.73	4,300.89	4,297.73	15.06	15.01	90.00	-32.00	50.00	100.00	70.00	30.00	3.333		
4,400.00	4,397.73	4,400.89	4,397.73	15.41	15.36	90.00	-32.00	50.00	100.00	69.29	30.71	3.256		
4,500.00	4,497.73	4,500.89	4,497.73	15.77	15.72	90.00	-32.00	50.00	100.00	68.58	31.42	3.182		
4,600.00	4,597.73	4,600.89	4,597.73	16.13	16.07	90.00	-32.00	50.00	100.00	67.87	32.13	3.112		
4,700.00	4,697.73	4,700.89	4,697.73	16.48	16.43	90.00	-32.00	50.00	100.00	67.15	32.85	3.045		
4,800.00	4,797.73	4,800.89	4,797.73	16.84	16.78	90.00	-32.00	50.00	100.00	66.44	33.56	2.980		
4,900.00	4,897.73	4,900.89	4,897.73	17.19	17.14	90.00	-32.00	50.00	100.00	65.73	34.27	2.918		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Pro Directional

Anticollision Report



Company: Matador Resources
Project: Eddy County, NM

Reference Site: Stebbins Federal 19 (114-124-134-204)

Site Error: 3.30 usft

Reference Well: No. 124H

Well Error: 1.10 usft

Reference Wellbore: OH

Reference Design: Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at

Database:

Offset TVD Reference:

Well No. 124H

Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))

Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))

Grid

Minimum Curvature

2.00 sigma

Well_Planner1

Offset Datum

Offset Design Stebbins Federal 19 (114-124-134-204) - No. 134H - OH - Prelim Plan A														Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG														Offset Well Error:	1.10 usft
Reference		Offset		Semi Major Axis			Distance				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,000.00	4,997.73	5,000.89	4,997.73	17.55	17.49	90.00	-32.00	50.00	100.00	65.02	34.98	2.859			
5,100.00	5,097.73	5,100.89	5,097.73	17.91	17.85	90.00	-32.00	50.00	100.00	64.31	35.69	2.802			
5,200.00	5,197.73	5,200.89	5,197.73	18.26	18.20	90.00	-32.00	50.00	100.00	63.60	36.40	2.747			
5,300.00	5,297.73	5,300.89	5,297.73	18.62	18.56	90.00	-32.00	50.00	100.00	62.88	37.12	2.694			
5,400.00	5,397.73	5,400.89	5,397.73	18.98	18.91	90.00	-32.00	50.00	100.00	62.17	37.83	2.643			
5,500.00	5,497.73	5,500.89	5,497.73	19.33	19.27	90.00	-32.00	50.00	100.00	61.46	38.54	2.595			
5,600.00	5,597.73	5,600.89	5,597.73	19.69	19.62	90.00	-32.00	50.00	100.00	60.74	39.26	2.547			
5,700.00	5,697.73	5,700.89	5,697.73	20.05	19.98	90.00	-32.00	50.00	100.00	60.03	39.97	2.502			
5,800.00	5,797.73	5,800.89	5,797.73	20.40	20.34	90.00	-32.00	50.00	100.00	59.32	40.68	2.458			
5,900.00	5,897.73	5,900.89	5,897.73	20.76	20.69	90.00	-32.00	50.00	100.00	58.60	41.40	2.416			
6,000.00	5,997.73	6,000.89	5,997.73	21.12	21.05	90.00	-32.00	50.00	100.00	57.89	42.11	2.375			
6,100.00	6,097.73	6,100.89	6,097.73	21.47	21.40	90.00	-32.00	50.00	100.00	57.18	42.82	2.335			
6,200.00	6,197.73	6,200.89	6,197.73	21.83	21.76	90.00	-32.00	50.00	100.00	56.46	43.54	2.297			
6,300.00	6,297.73	6,300.89	6,297.73	22.19	22.12	90.00	-32.00	50.00	100.00	55.75	44.25	2.260			
6,400.00	6,397.73	6,400.89	6,397.73	22.55	22.47	90.00	-32.00	50.00	100.00	55.04	44.96	2.224			
6,500.00	6,497.73	6,500.89	6,497.73	22.90	22.83	90.00	-32.00	50.00	100.00	54.32	45.68	2.189			
6,600.00	6,597.73	6,600.89	6,597.73	23.26	23.19	90.00	-32.00	50.00	100.00	53.61	46.39	2.156			
6,700.00	6,697.73	6,700.89	6,697.73	23.62	23.54	90.00	-32.00	50.00	100.00	52.89	47.11	2.123			
6,800.00	6,797.73	6,800.89	6,797.73	23.97	23.90	90.00	-32.00	50.00	100.00	52.18	47.82	2.091			
6,900.00	6,897.73	6,900.89	6,897.73	24.33	24.26	90.00	-32.00	50.00	100.00	51.47	48.53	2.060			
7,000.00	6,997.73	7,000.89	6,997.73	24.69	24.61	90.00	-32.00	50.00	100.00	50.75	49.25	2.031			
7,100.00	7,097.73	7,100.89	7,097.73	25.05	24.97	90.00	-32.00	50.00	100.00	50.04	49.96	2.001			
7,100.00	7,097.73	7,100.89	7,097.73	25.05	24.97	90.00	-32.00	50.00	100.00	50.04	49.96	2.001	SF		
7,200.00	7,197.61	7,200.77	7,197.61	25.40	25.33	180.00	-32.00	50.00	103.22	52.55	50.67	2.037			
7,300.00	7,295.63	7,298.79	7,295.63	25.75	25.68	180.00	-32.00	50.00	122.40	71.04	51.36	2.383			
7,400.00	7,388.82	7,391.98	7,388.82	26.12	26.01	180.00	-32.00	50.00	158.31	106.29	52.01	3.044			
7,500.00	7,474.36	7,477.52	7,474.36	26.52	26.32	180.00	-32.00	50.00	209.85	157.25	52.60	3.990			
7,600.00	7,549.66	7,552.82	7,549.66	26.98	26.58	180.00	-32.00	50.00	275.47	222.37	53.10	5.187			
7,700.00	7,612.41	7,615.57	7,612.41	27.57	26.81	180.00	-32.00	50.00	353.17	299.66	53.51	6.600			
7,800.00	7,660.72	7,663.88	7,660.72	28.35	26.98	180.00	-32.00	50.00	440.58	386.77	53.81	8.188			
7,900.00	7,693.11	7,696.27	7,693.11	29.36	27.10	180.00	-32.00	50.00	535.05	481.05	54.00	9.908			
8,000.00	7,708.61	7,711.77	7,708.61	30.60	27.15	180.00	-32.00	50.00	633.71	579.63	54.09	11.716			
8,100.00	7,709.96	7,713.12	7,709.96	32.03	27.16	180.00	-32.00	50.00	733.68	679.58	54.10	13.561			
8,200.00	7,709.96	7,713.12	7,709.96	33.66	27.16	180.00	-32.00	50.00	833.68	779.57	54.11	15.407			
8,300.00	7,709.96	7,713.12	7,709.96	35.47	27.16	180.00	-32.00	50.00	933.68	879.56	54.12	17.252			
8,400.00	7,709.96	7,713.12	7,709.96	37.42	27.16	180.00	-32.00	50.00	1,033.68	979.55	54.13	19.097			
8,500.00	7,709.96	7,713.12	7,709.96	39.51	27.16	180.00	-32.00	50.00	1,133.68	1,079.54	54.14	20.940			
8,600.00	7,709.96	7,713.12	7,709.96	41.70	27.16	180.00	-32.00	50.00	1,233.68	1,179.53	54.15	22.782			
8,700.00	7,709.96	7,713.12	7,709.96	43.98	27.16	180.00	-32.00	50.00	1,333.68	1,279.52	54.16	24.623			
8,800.00	7,709.97	10,240.87	9,049.97	46.34	50.89	180.00	-32.00	-1,383.67	1,340.00	1,313.46	26.54	50.495			
8,900.00	7,709.97	10,340.87	9,049.97	48.77	53.24	180.00	-32.00	-1,483.67	1,340.00	1,312.26	27.74	48.309			
9,000.00	7,709.97	10,440.87	9,049.97	51.25	55.64	180.00	-32.00	-1,583.67	1,340.00	1,311.03	28.97	46.249			
9,100.00	7,709.97	10,540.87	9,049.97	53.79	58.09	180.00	-32.00	-1,683.67	1,340.00	1,309.76	30.24	44.312			
9,200.00	7,709.97	10,640.87	9,049.97	56.37	60.60	180.00	-32.00	-1,783.67	1,340.00	1,308.47	31.53	42.494			
9,300.00	7,709.97	10,740.87	9,049.97	58.98	63.14	180.00	-32.00	-1,883.67	1,340.00	1,307.15	32.85	40.791			
9,400.00	7,709.97	10,840.87	9,049.97	61.63	65.72	180.00	-32.00	-1,983.67	1,340.00	1,305.81	34.19	39.194			
9,500.00	7,709.97	10,940.87	9,049.97	64.30	68.33	180.00	-32.00	-2,083.67	1,340.00	1,304.45	35.55	37.698			
9,600.00	7,709.97	11,040.87	9,049.97	67.00	70.97	180.00	-32.00	-2,183.67	1,340.00	1,303.08	36.92	36.295			
9,700.00	7,709.97	11,140.87	9,049.97	69.73	73.63	180.00	-32.00	-2,283.67	1,340.00	1,301.69	38.31	34.980			
9,800.00	7,709.98	11,240.87	9,049.98	72.47	76.32	180.00	-32.00	-2,383.67	1,340.00	1,300.29	39.71	33.745			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Pro Directional Anticollision Report



Company: Matador Resources
Project: Eddy County, NM
Reference Site: Stebbins Federal 19 (114-124-134-204)
Site Error: 3.30 usft
Reference Well: No. 124H
Well Error: 1.10 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well No. 124H
TVD Reference: Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
MD Reference: Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: Well_Planner1
Offset TVD Reference: Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Stebbins Federal 19 (114-124-134-204) - No. 134H - OH - Prelim Plan A													Offset Well Error:	1.10 usft
Survey Program: 0-MWD - OWSG														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,900.00	7,709.98	11,340.87	9,049.98	75.23	79.03	180.00	-32.00	-2,483.67	1,340.00	1,298.88	41.12	32.585		
10,000.00	7,709.98	11,440.87	9,049.98	78.01	81.76	180.00	-32.00	-2,583.67	1,340.00	1,297.45	42.55	31.494		
10,100.00	7,709.98	11,540.87	9,049.98	80.80	84.50	180.00	-32.00	-2,683.67	1,340.00	1,296.02	43.98	30.467		
10,200.00	7,709.98	11,640.87	9,049.98	83.60	87.26	180.00	-32.00	-2,783.67	1,340.00	1,294.58	45.43	29.499		
10,300.00	7,709.98	11,740.87	9,049.98	86.41	90.03	180.00	-32.00	-2,883.67	1,340.00	1,293.12	46.88	28.586		
10,400.00	7,709.98	11,840.87	9,049.98	89.24	92.81	180.00	-32.00	-2,983.67	1,340.00	1,291.67	48.33	27.723		
10,500.00	7,709.98	11,940.87	9,049.98	92.07	95.61	180.00	-32.00	-3,083.67	1,340.00	1,290.20	49.80	26.908		
10,600.00	7,709.98	12,040.87	9,049.98	94.91	98.41	180.00	-32.00	-3,183.67	1,340.00	1,288.73	51.27	26.135		
10,700.00	7,709.99	12,140.87	9,049.99	97.76	101.23	180.00	-32.00	-3,283.67	1,340.00	1,287.25	52.75	25.404		
10,800.00	7,709.99	12,240.87	9,049.99	100.62	104.05	180.00	-32.00	-3,383.67	1,340.00	1,285.77	54.23	24.709		
10,900.00	7,709.99	12,340.87	9,049.99	103.48	106.89	180.00	-32.00	-3,483.67	1,340.00	1,284.28	55.72	24.050		
11,000.00	7,709.99	12,440.87	9,049.99	106.35	109.73	180.00	-32.00	-3,583.67	1,340.00	1,282.79	57.21	23.423		
11,100.00	7,709.99	12,540.87	9,049.99	109.23	112.57	180.00	-32.00	-3,683.67	1,340.00	1,281.30	58.70	22.827		
11,200.00	7,709.99	12,640.87	9,049.99	112.11	115.43	180.00	-32.00	-3,783.67	1,340.00	1,279.80	60.20	22.258		
11,300.00	7,709.99	12,740.87	9,049.99	114.99	118.29	180.00	-32.00	-3,883.67	1,340.00	1,278.30	61.71	21.716		
11,400.00	7,709.99	12,840.87	9,049.99	117.88	121.15	180.00	-32.00	-3,983.67	1,340.00	1,276.79	63.21	21.199		
11,500.00	7,709.99	12,940.87	9,049.99	120.77	124.02	180.00	-32.00	-4,083.67	1,340.00	1,275.28	64.72	20.705		
11,600.00	7,709.99	13,040.87	9,049.99	123.67	126.89	180.00	-32.00	-4,183.67	1,340.00	1,273.77	66.23	20.232		
11,700.00	7,710.00	13,140.87	9,050.00	126.57	129.77	180.00	-32.00	-4,283.67	1,340.00	1,272.25	67.75	19.780		
11,800.00	7,710.00	13,240.87	9,050.00	129.47	132.66	180.00	-32.00	-4,383.67	1,340.00	1,270.74	69.26	19.347		
11,900.00	7,710.00	13,340.87	9,050.00	132.38	135.54	180.00	-32.00	-4,483.67	1,340.00	1,269.22	70.78	18.932		
12,000.00	7,710.00	13,440.87	9,050.00	135.29	138.43	180.00	-32.00	-4,583.67	1,340.00	1,267.70	72.30	18.533		
12,100.00	7,710.00	13,540.87	9,050.00	138.20	141.33	180.00	-32.00	-4,683.67	1,340.00	1,266.18	73.82	18.151		
12,191.32	7,710.00	13,632.19	9,050.00	140.86	143.97	180.00	-32.00	-4,774.99	1,340.00	1,264.78	75.22	17.815		



Pro Directional

Anticollision Report



Company: Matador Resources
Project: Eddy County, NM

Local Co-ordinate Reference: Well No. 124H
TVD Reference: Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))

Reference Site: Stebbins Federal 19 (114-124-134-204)

MD Reference: Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))

Site Error: 3.30 usft

North Reference: Grid

Reference Well: No. 124H

Survey Calculation Method: Minimum Curvature

Well Error: 1.10 usft

Output errors are at 2.00 sigma

Reference Wellbore OH

Database: Well_Planner1

Reference Design: Prelim Plan A

Offset TVD Reference: Offset Datum

Offset Design Stebbins Federal 19 (114-124-134-204) - No. 204H - OH - Prelim Plan A													Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG													Offset Well Error:	1.10 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	1.10	1.10	0.00	60.00	0.00	60.00					
100.00	100.00	100.00	100.00	1.11	1.11	0.00	60.00	0.00	60.00	57.79	2.21	27.090		
200.00	200.00	200.00	200.00	1.20	1.20	0.00	60.00	0.00	60.00	57.59	2.41	24.941		
300.00	300.00	300.00	300.00	1.39	1.39	0.00	60.00	0.00	60.00	57.23	2.77	21.627		
400.00	400.00	400.00	400.00	1.63	1.63	0.00	60.00	0.00	60.00	56.74	3.26	18.399		
500.00	500.00	500.00	500.00	1.91	1.91	0.00	60.00	0.00	60.00	56.18	3.82	15.703 CC		
500.01	500.01	500.01	500.01	1.91	1.91	0.00	60.00	0.00	60.00	56.18	3.82	15.703		
600.00	599.98	601.02	601.00	2.20	2.21	125.48	59.07	1.52	60.09	55.68	4.41	13.630 ES		
700.00	699.84	701.50	701.33	2.51	2.51	133.84	56.30	6.04	61.25	56.23	5.01	12.215		
800.00	799.49	800.82	800.31	2.83	2.83	145.85	51.98	13.07	65.56	59.91	5.65	11.599		
900.00	899.11	899.73	898.85	3.16	3.16	156.45	47.48	20.42	72.78	66.48	6.31	11.536		
1,000.00	998.73	998.64	997.38	3.51	3.50	164.93	42.97	27.77	82.04	75.06	6.98	11.754		
1,100.00	1,098.35	1,097.55	1,095.91	3.86	3.85	171.60	38.46	35.11	92.73	85.07	7.66	12.105		
1,200.00	1,197.98	1,196.47	1,194.45	4.22	4.21	176.84	33.96	42.46	104.34	96.00	8.35	12.500		
1,300.00	1,297.77	1,295.64	1,293.25	4.58	4.57	-178.96	29.44	49.83	114.32	105.28	9.04	12.647		
1,400.00	1,397.73	1,395.11	1,392.34	4.92	4.93	-175.33	24.90	57.22	121.34	111.60	9.74	12.463		
1,500.00	1,497.73	1,494.72	1,491.57	5.26	5.30	65.45	20.37	64.62	126.17	115.74	10.43	12.098		
1,600.00	1,597.73	1,594.34	1,590.81	5.59	5.67	68.60	15.83	72.02	131.24	120.12	11.13	11.797		
1,700.00	1,697.73	1,693.96	1,690.05	5.93	6.04	71.51	11.29	79.42	136.89	124.86	11.82	11.560		
1,800.00	1,797.73	1,793.58	1,789.29	6.27	6.42	74.19	6.75	86.83	142.46	129.93	12.53	11.374		
1,900.00	1,897.73	1,893.20	1,888.53	6.61	6.79	76.66	2.21	94.23	148.51	135.29	13.23	11.228		
2,000.00	1,997.73	1,992.82	1,987.77	6.96	7.17	78.93	-2.33	101.63	154.82	140.89	13.93	11.114		
2,100.00	2,097.73	2,092.44	2,087.01	7.30	7.54	81.02	-6.87	109.03	161.36	146.72	14.63	11.026		
2,200.00	2,197.73	2,192.06	2,186.26	7.65	7.92	82.95	-11.41	116.43	168.09	152.75	15.34	10.958		
2,300.00	2,297.73	2,291.68	2,285.50	8.00	8.30	84.72	-15.95	123.83	175.00	158.95	16.05	10.906		
2,400.00	2,397.73	2,391.30	2,384.74	8.35	8.68	86.37	-20.49	131.23	182.06	165.31	16.75	10.868		
2,500.00	2,497.73	2,490.92	2,483.98	8.70	9.06	87.88	-25.03	138.63	189.26	171.80	17.46	10.840		
2,600.00	2,597.73	2,594.94	2,587.69	9.05	9.45	89.19	-29.24	145.50	195.78	177.58	18.20	10.758		
2,700.00	2,697.73	2,701.07	2,693.71	9.40	9.83	89.88	-31.58	149.32	199.36	180.42	18.93	10.529		
2,800.00	2,797.73	2,805.09	2,797.73	9.75	10.18	90.00	-32.00	150.00	200.00	180.37	19.63	10.186		
2,900.00	2,897.73	2,905.09	2,897.73	10.10	10.50	90.00	-32.00	150.00	200.00	179.68	20.32	9.844		
3,000.00	2,997.73	3,005.09	2,997.73	10.45	10.83	90.00	-32.00	150.00	200.00	179.00	21.00	9.522		
3,100.00	3,097.73	3,105.09	3,097.73	10.80	11.16	90.00	-32.00	150.00	200.00	178.31	21.69	9.220		
3,200.00	3,197.73	3,205.09	3,197.73	11.16	11.49	90.00	-32.00	150.00	200.00	177.62	22.38	8.936		
3,300.00	3,297.73	3,305.09	3,297.73	11.51	11.82	90.00	-32.00	150.00	200.00	176.93	23.07	8.668		
3,400.00	3,397.73	3,405.09	3,397.73	11.86	12.16	90.00	-32.00	150.00	200.00	176.23	23.77	8.415		
3,500.00	3,497.73	3,505.09	3,497.73	12.22	12.49	90.00	-32.00	150.00	200.00	175.54	24.46	8.176		
3,600.00	3,597.73	3,605.09	3,597.73	12.57	12.83	90.00	-32.00	150.00	200.00	174.84	25.16	7.950		
3,700.00	3,697.73	3,705.09	3,697.73	12.93	13.17	90.00	-32.00	150.00	200.00	174.15	25.85	7.736		
3,800.00	3,797.73	3,805.09	3,797.73	13.28	13.51	90.00	-32.00	150.00	200.00	173.45	26.55	7.533		
3,900.00	3,897.73	3,905.09	3,897.73	13.64	13.85	90.00	-32.00	150.00	200.00	172.75	27.25	7.339		
4,000.00	3,997.73	4,005.09	3,997.73	13.99	14.19	90.00	-32.00	150.00	200.00	172.05	27.95	7.156		
4,100.00	4,097.73	4,105.09	4,097.73	14.35	14.53	90.00	-32.00	150.00	200.00	171.35	28.65	6.981		
4,200.00	4,197.73	4,205.09	4,197.73	14.70	14.87	90.00	-32.00	150.00	200.00	170.65	29.35	6.814		
4,300.00	4,297.73	4,305.09	4,297.73	15.06	15.22	90.00	-32.00	150.00	200.00	169.95	30.05	6.655		
4,400.00	4,397.73	4,405.09	4,397.73	15.41	15.56	90.00	-32.00	150.00	200.00	169.24	30.76	6.503		
4,500.00	4,497.73	4,505.09	4,497.73	15.77	15.91	90.00	-32.00	150.00	200.00	168.54	31.46	6.357		
4,600.00	4,597.73	4,505.09	4,597.73	16.13	16.25	90.00	-32.00	150.00	200.00	167.84	32.16	6.218		
4,700.00	4,697.73	4,705.09	4,697.73	16.48	16.60	90.00	-32.00	150.00	200.00	167.13	32.87	6.085		
4,800.00	4,797.73	4,805.09	4,797.73	16.84	16.94	90.00	-32.00	150.00	200.00	166.43	33.57	5.957		
4,900.00	4,897.73	4,905.09	4,897.73	17.19	17.29	90.00	-32.00	150.00	200.00	165.72	34.28	5.834		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Pro Directional

Anticollision Report



Company: Matador Resources
Project: Eddy County, NM

Reference Site: Stebbins Federal 19 (114-124-134-204)

Site Error: 3.30 usft

Reference Well: No. 124H

Well Error: 1.10 usft

Reference Wellbore: OH

Reference Design: Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at

Database:

Offset TVD Reference:

Well No. 124H

Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))

Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))

Grid

Minimum Curvature

2.00 sigma

Well_Planner1

Offset Datum

Offset Design Stebbins Federal 19 (114-124-134-204) - No. 204H - OH - Prelim Plan A														Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG														Offset Well Error:	1.10 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,000.00	4,997.73	5,005.09	4,997.73	17.55	17.64	90.00	-32.00	150.00	200.00	165.01	34.99	5.717			
5,100.00	5,097.73	5,105.09	5,097.73	17.91	17.99	90.00	-32.00	150.00	200.00	164.31	35.69	5.604			
5,200.00	5,197.73	5,205.09	5,197.73	18.26	18.33	90.00	-32.00	150.00	200.00	163.60	36.40	5.495			
5,300.00	5,297.73	5,305.09	5,297.73	18.62	18.68	90.00	-32.00	150.00	200.00	162.89	37.11	5.390			
5,400.00	5,397.73	5,405.09	5,397.73	18.98	19.03	90.00	-32.00	150.00	200.00	162.19	37.81	5.289			
5,500.00	5,497.73	5,505.09	5,497.73	19.33	19.38	90.00	-32.00	150.00	200.00	161.48	38.52	5.192			
5,600.00	5,597.73	5,605.09	5,597.73	19.69	19.73	90.00	-32.00	150.00	200.00	160.77	39.23	5.098			
5,700.00	5,697.73	5,705.09	5,697.73	20.05	20.08	90.00	-32.00	150.00	200.00	160.06	39.94	5.008			
5,800.00	5,797.73	5,805.09	5,797.73	20.40	20.43	90.00	-32.00	150.00	200.00	159.35	40.65	4.920			
5,900.00	5,897.73	5,905.09	5,897.73	20.76	20.78	90.00	-32.00	150.00	200.00	158.64	41.36	4.836			
6,000.00	5,997.73	6,005.09	5,997.73	21.12	21.13	90.00	-32.00	150.00	200.00	157.93	42.07	4.754			
6,100.00	6,097.73	6,105.09	6,097.73	21.47	21.48	90.00	-32.00	150.00	200.00	157.22	42.78	4.676			
6,200.00	6,197.73	6,205.09	6,197.73	21.83	21.83	90.00	-32.00	150.00	200.00	156.51	43.49	4.599			
6,300.00	6,297.73	6,305.09	6,297.73	22.19	22.19	90.00	-32.00	150.00	200.00	155.80	44.20	4.525			
6,400.00	6,397.73	6,405.09	6,397.73	22.55	22.54	90.00	-32.00	150.00	200.00	155.09	44.91	4.454			
6,500.00	6,497.73	6,505.09	6,497.73	22.90	22.89	90.00	-32.00	150.00	200.00	154.38	45.62	4.384			
6,600.00	6,597.73	6,605.09	6,597.73	23.26	23.24	90.00	-32.00	150.00	200.00	153.67	46.33	4.317			
6,700.00	6,697.73	6,705.09	6,697.73	23.62	23.59	90.00	-32.00	150.00	200.00	152.96	47.04	4.252			
6,800.00	6,797.73	6,805.09	6,797.73	23.97	23.95	90.00	-32.00	150.00	200.00	152.25	47.75	4.189			
6,900.00	6,897.73	6,905.09	6,897.73	24.33	24.30	90.00	-32.00	150.00	200.00	151.54	48.46	4.127			
7,000.00	6,997.73	7,005.09	6,997.73	24.69	24.65	90.00	-32.00	150.00	200.00	150.83	49.17	4.067			
7,100.00	7,097.73	7,105.09	7,097.73	25.05	25.01	90.00	-32.00	150.00	200.00	150.12	49.88	4.009			
7,100.00	7,097.73	7,105.10	7,097.73	25.05	25.01	90.00	-32.00	150.00	200.00	150.12	49.88	4.009 SF			
7,200.00	7,197.61	7,204.98	7,197.61	25.40	25.36	180.00	-32.00	150.00	203.22	152.63	50.59	4.017			
7,300.00	7,295.63	7,302.99	7,295.63	25.75	25.70	180.00	-32.00	150.00	222.40	171.12	51.28	4.337			
7,400.00	7,388.82	7,396.19	7,388.82	26.12	26.03	180.00	-32.00	150.00	258.31	206.38	51.93	4.975			
7,500.00	7,474.36	7,481.73	7,474.36	26.52	26.34	180.00	-32.00	150.00	309.85	257.34	52.51	5.901			
7,600.00	7,549.66	7,557.02	7,549.66	26.98	26.60	180.00	-32.00	150.00	375.47	322.46	53.01	7.083			
7,700.00	7,612.41	7,619.77	7,612.41	27.57	26.82	180.00	-32.00	150.00	453.17	399.75	53.42	8.483			
7,800.00	7,660.72	7,668.08	7,660.72	28.35	27.00	180.00	-32.00	150.00	540.58	486.86	53.72	10.064			
7,900.00	7,693.11	7,700.48	7,693.11	29.36	27.11	180.00	-32.00	150.00	635.05	581.14	53.91	11.781			
8,000.00	7,708.61	7,715.98	7,708.61	30.60	27.17	180.00	-32.00	150.00	733.71	679.72	53.99	13.589			
8,100.00	7,709.96	7,717.32	7,709.96	32.03	27.17	180.00	-32.00	150.00	833.68	779.67	54.01	15.436			
8,200.00	7,709.96	7,717.32	7,709.96	33.66	27.17	180.00	-32.00	150.00	933.68	879.67	54.02	17.285			
8,300.00	7,709.96	7,717.33	7,709.96	35.47	27.17	180.00	-32.00	150.00	1,033.68	979.66	54.02	19.133			
8,400.00	7,709.96	7,717.33	7,709.96	37.42	27.17	180.00	-32.00	150.00	1,133.68	1,079.65	54.03	20.981			
8,500.00	7,709.96	7,717.33	7,709.96	39.51	27.17	180.00	-32.00	150.00	1,233.68	1,179.64	54.04	22.827			
8,600.00	7,709.96	7,717.33	7,709.96	41.70	27.17	180.00	-32.00	150.00	1,333.68	1,279.63	54.06	24.672			
8,700.00	7,709.96	7,717.33	7,709.96	43.98	27.17	180.00	-32.00	150.00	1,433.68	1,379.61	54.07	26.516			
8,800.00	7,709.97	7,717.33	7,709.97	46.34	27.17	180.00	-32.00	150.00	1,533.68	1,479.60	54.08	28.358			
8,900.00	7,709.97	10,700.08	9,304.97	48.77	55.63	180.00	-32.00	-1,483.67	1,595.00	1,566.22	28.78	55.422			
9,000.00	7,709.97	10,800.08	9,304.97	51.25	58.06	180.00	-32.00	-1,583.67	1,595.00	1,564.98	30.02	53.134			
9,100.00	7,709.97	10,900.08	9,304.97	53.79	60.54	180.00	-32.00	-1,683.67	1,595.00	1,563.71	31.29	50.979			
9,200.00	7,709.97	11,000.08	9,304.97	56.37	63.06	180.00	-32.00	-1,783.67	1,595.00	1,562.42	32.58	48.954			
9,300.00	7,709.97	11,100.08	9,304.97	58.98	65.61	180.00	-32.00	-1,883.67	1,595.00	1,561.10	33.90	47.051			
9,400.00	7,709.97	11,200.08	9,304.97	61.63	68.20	180.00	-32.00	-1,983.67	1,595.00	1,559.76	35.24	45.265			
9,500.00	7,709.97	11,300.08	9,304.97	64.30	70.82	180.00	-32.00	-2,083.67	1,595.00	1,558.41	36.59	43.587			
9,600.00	7,709.97	11,400.08	9,304.98	67.00	73.47	180.00	-32.00	-2,183.67	1,595.00	1,557.04	37.97	42.012			
9,700.00	7,709.97	11,500.08	9,304.98	69.73	76.14	180.00	-32.00	-2,283.67	1,595.00	1,555.65	39.35	40.531			
9,800.00	7,709.98	11,600.08	9,304.98	72.47	78.84	180.00	-32.00	-2,383.67	1,595.00	1,554.25	40.75	39.139			

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Pro Directional Anticollision Report



Company: Matador Resources
Project: Eddy County, NM

Local Co-ordinate Reference: Well No. 124H
TVD Reference: Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
MD Reference: Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))

Reference Site: Stebbins Federal 19 (114-124-134-204)

North Reference: Grid
Survey Calculation Method: Minimum Curvature

Site Error: 3.30 usft
Reference Well: No. 124H

Output errors are at 2.00 sigma

Well Error: 1.10 usft

Database: Well_Planner1

Reference Wellbore OH
Reference Design: Prelim Plan A

Offset TVD Reference: Offset Datum

Offset Design Stebbins Federal 19 (114-124-134-204) - No. 204H - OH - Prelim Plan A													Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG													Offset Well Error:	1.10 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,900.00	7,709.98	11,700.08	9,304.98	75.23	81.55	180.00	-32.00	-2,483.67	1,595.00	1,552.84	42.16	37.829		
10,000.00	7,709.98	11,800.08	9,304.98	78.01	84.28	180.00	-32.00	-2,583.67	1,595.00	1,551.42	43.59	36.594		
10,100.00	7,709.98	11,900.08	9,304.98	80.80	87.02	180.00	-32.00	-2,683.67	1,595.00	1,549.98	45.02	35.430		
10,200.00	7,709.98	12,000.08	9,304.98	83.60	89.78	180.00	-32.00	-2,783.67	1,595.00	1,548.54	46.46	34.332		
10,300.00	7,709.98	12,100.08	9,304.98	86.41	92.56	180.00	-32.00	-2,883.67	1,595.00	1,547.09	47.91	33.294		
10,400.00	7,709.98	12,200.08	9,304.98	89.24	95.34	180.00	-32.00	-2,983.67	1,595.00	1,545.64	49.36	32.312		
10,500.00	7,709.98	12,300.08	9,304.98	92.07	98.14	180.00	-32.00	-3,083.67	1,595.00	1,544.18	50.83	31.382		
10,600.00	7,709.98	12,400.08	9,304.98	94.91	100.95	180.00	-32.00	-3,183.67	1,595.00	1,542.71	52.29	30.500		
10,700.00	7,709.99	12,500.08	9,304.99	97.76	103.76	180.00	-32.00	-3,283.67	1,595.00	1,541.23	53.77	29.664		
10,800.00	7,709.99	12,600.08	9,304.99	100.62	106.59	180.00	-32.00	-3,383.67	1,595.00	1,539.75	55.25	28.870		
10,900.00	7,709.99	12,700.08	9,304.99	103.48	109.42	180.00	-32.00	-3,483.67	1,595.00	1,538.27	56.73	28.115		
11,000.00	7,709.99	12,800.08	9,304.99	106.35	112.26	180.00	-32.00	-3,583.67	1,595.00	1,536.78	58.22	27.396		
11,100.00	7,709.99	12,900.08	9,304.99	109.23	115.10	180.00	-32.00	-3,683.67	1,595.00	1,535.29	59.71	26.711		
11,200.00	7,709.99	13,000.08	9,304.99	112.11	117.96	180.00	-32.00	-3,783.67	1,595.00	1,533.79	61.21	26.058		
11,300.00	7,709.99	13,100.08	9,304.99	114.99	120.82	180.00	-32.00	-3,883.67	1,595.00	1,532.29	62.71	25.434		
11,400.00	7,709.99	13,200.08	9,304.99	117.88	123.68	180.00	-32.00	-3,983.67	1,595.00	1,530.79	64.21	24.839		
11,500.00	7,709.99	13,300.08	9,304.99	120.77	126.55	180.00	-32.00	-4,083.67	1,595.00	1,529.28	65.72	24.270		
11,600.00	7,709.99	13,400.08	9,304.99	123.67	129.42	180.00	-32.00	-4,183.67	1,595.00	1,527.77	67.23	23.725		
11,700.00	7,710.00	13,500.08	9,305.00	126.57	132.30	180.00	-32.00	-4,283.67	1,595.00	1,526.26	68.74	23.203		
11,800.00	7,710.00	13,600.08	9,305.00	129.47	135.18	180.00	-32.00	-4,383.67	1,595.00	1,524.74	70.26	22.703		
11,900.00	7,710.00	13,700.08	9,305.00	132.38	138.07	180.00	-32.00	-4,483.67	1,595.00	1,523.23	71.77	22.223		
12,000.00	7,710.00	13,800.08	9,305.00	135.29	140.96	180.00	-32.00	-4,583.67	1,595.00	1,521.71	73.29	21.762		
12,100.00	7,710.00	13,900.08	9,305.00	138.20	143.85	180.00	-32.00	-4,683.67	1,595.00	1,520.19	74.81	21.320		
12,191.32	7,710.00	13,991.39	9,305.00	140.86	146.49	180.00	-32.00	-4,774.98	1,595.00	1,518.80	76.20	20.931		



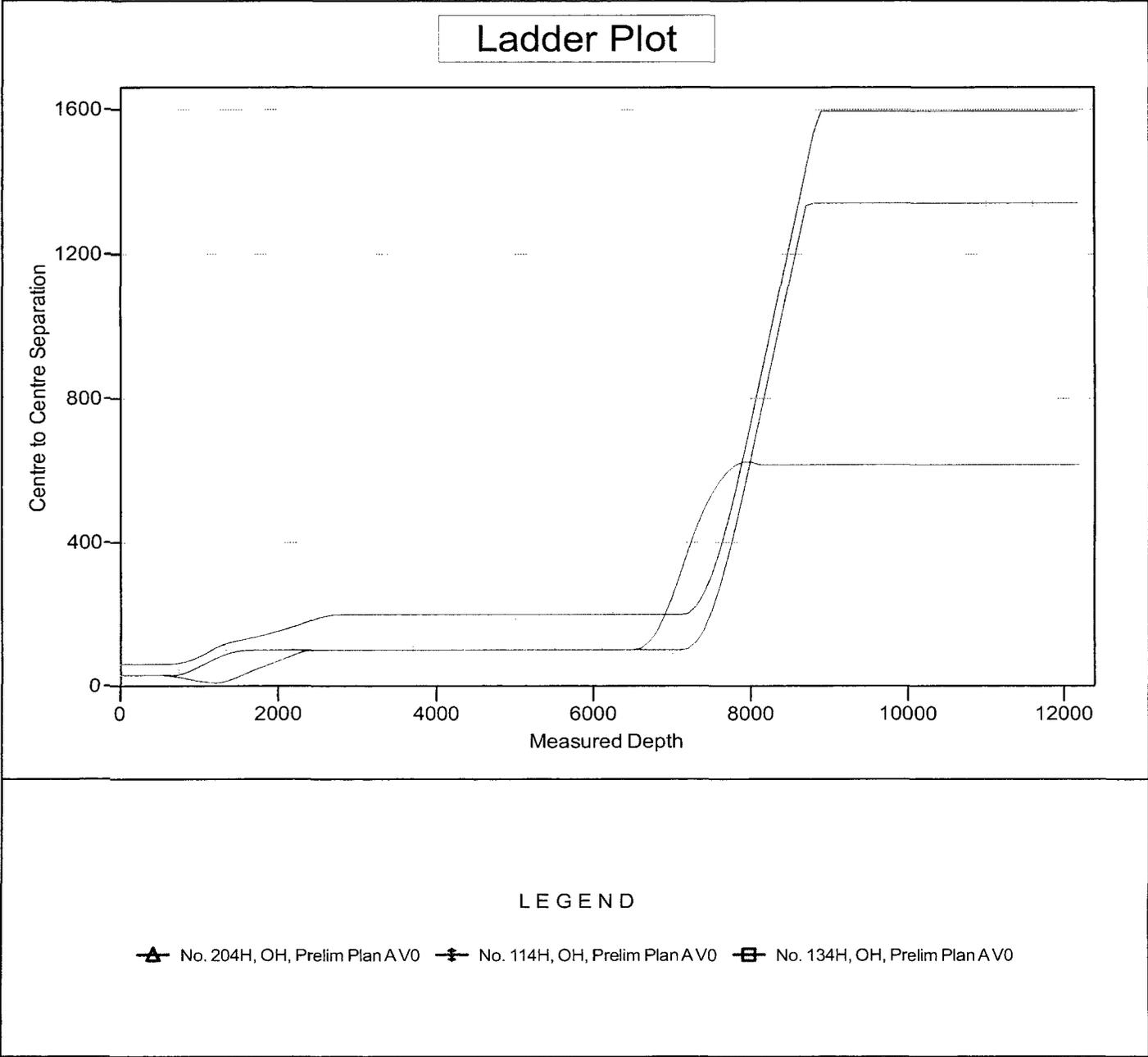
Pro Directional
Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 124H
Project:	Eddy County, NM	TVD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Reference Site:	Stebbins Federal 19 (114-124-134-204)	MD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.10 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Well_Planner1
Reference Design:	Prelim Plan A	Offset TVD Reference:	Offset Datum

Reference Depths are relative to Well @ 3270.50usft (GL: 3242' + KB: 28.5')
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: No. 124H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.12°





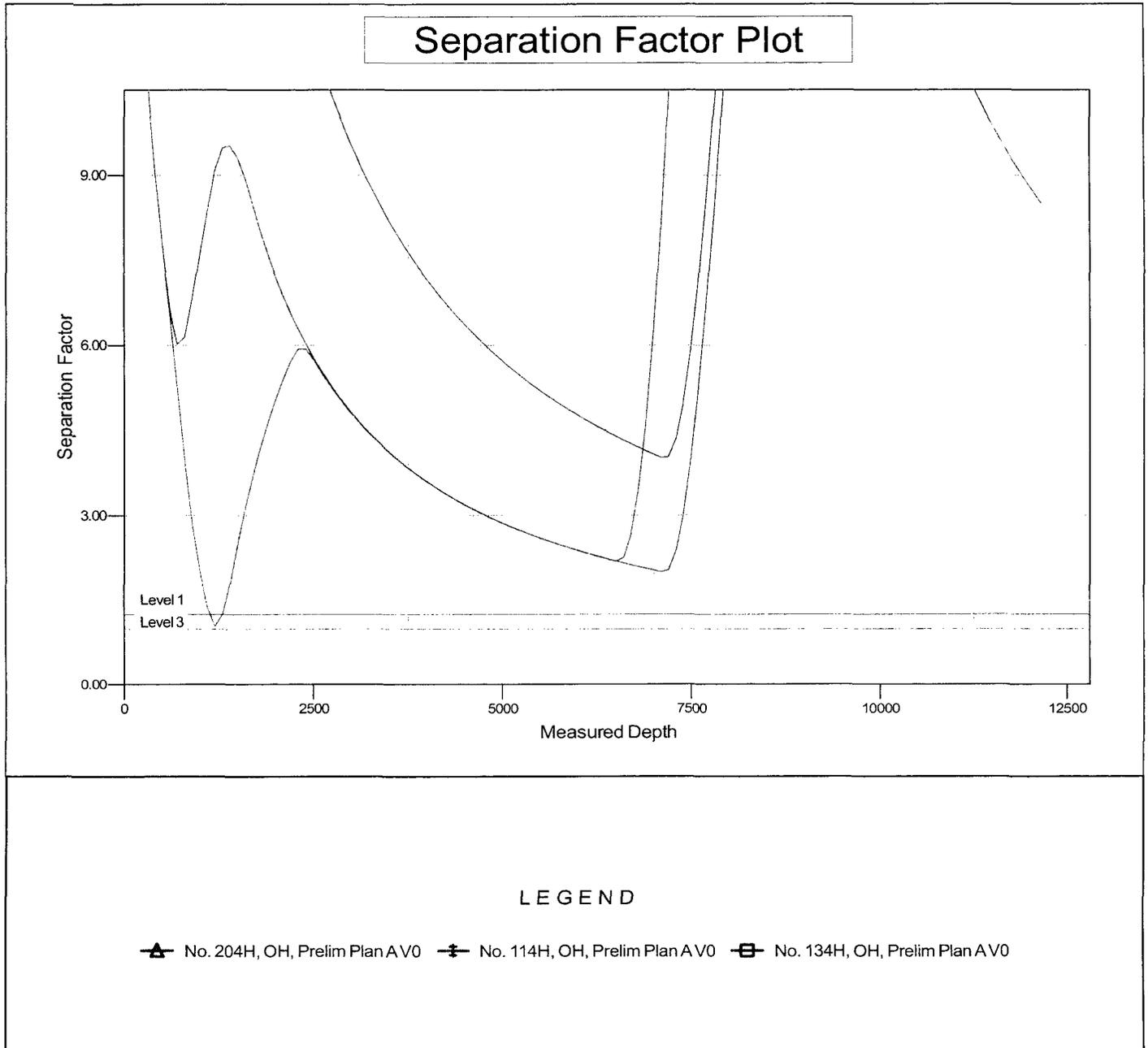
Pro Directional Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 124H
Project:	Eddy County, NM	TVD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
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Reference Depths are relative to Well @ 3270.50usft (GL: 3242' + KB: 3270.50usft)
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 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: No. 124H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.12°





Hydrogen Sulfide Drilling

Operations Plan

Matador Resources

1 H2S safety instructions to the following:

- Characteristics of H2S
- Physical effects and hazards
- Principal and operation of H2S detectors, warning system, and briefing areas
- Evacuation procedures, routes, and first aid
- Proper use of safety equipment & life support systems
- Essential personnel meeting medical evaluation criteria will receive additional training on the proper use of 30-minute pressure demand air packs.

2 H2S Detection and Alarm Systems:

- H2S sensor/detectors will be located on the drilling rig floor, in the base of the sub structure / cellar area, and on the mud pits in the shale shaker area. Additional H2S detectors may be placed as deemed necessary.
- An audio alarm system will be installed on the derrick floor and in the doghouse.

3 Windsocks and / Wind Streamers:

- Windsocks at mud pit area should be high enough to be visible.
- Windsock on the rig floor and / top of doghouse should be high enough to be visible.

4 Condition Flags and Signs:

- Warning sign on access road to location
- Flags to be displayed on sign at entrance to location
 - Green Flag – Normal Safe Operation Condition
 - Yellow Flag – Potential Pressure and Danger
 - Red Flag – Danger (H2S present in dangerous concentrations) Only H2S trained personnel admitted on location

5 Well Control Equipment:

- See APD

6 Communication:

- While working under masks, chalkboards will be used for communications.
- Hand signals will be used where chalkboard is inappropriate.
- Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.



7 Drill Stem Testing:

- No DST or cores are planned at this time.

8 Drilling contractor supervisor will be required to be familiar with the effects H₂S has on tubulars good and other mechanical equipment.

9 If H₂S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H₂S scavengers if necessary.

11 Emergency Contacts

- See APD

H2S Contingency Plan Emergency Contacts
 Matador Production Company
 Sec. 19, T20S, R29E, Eddy County, NM

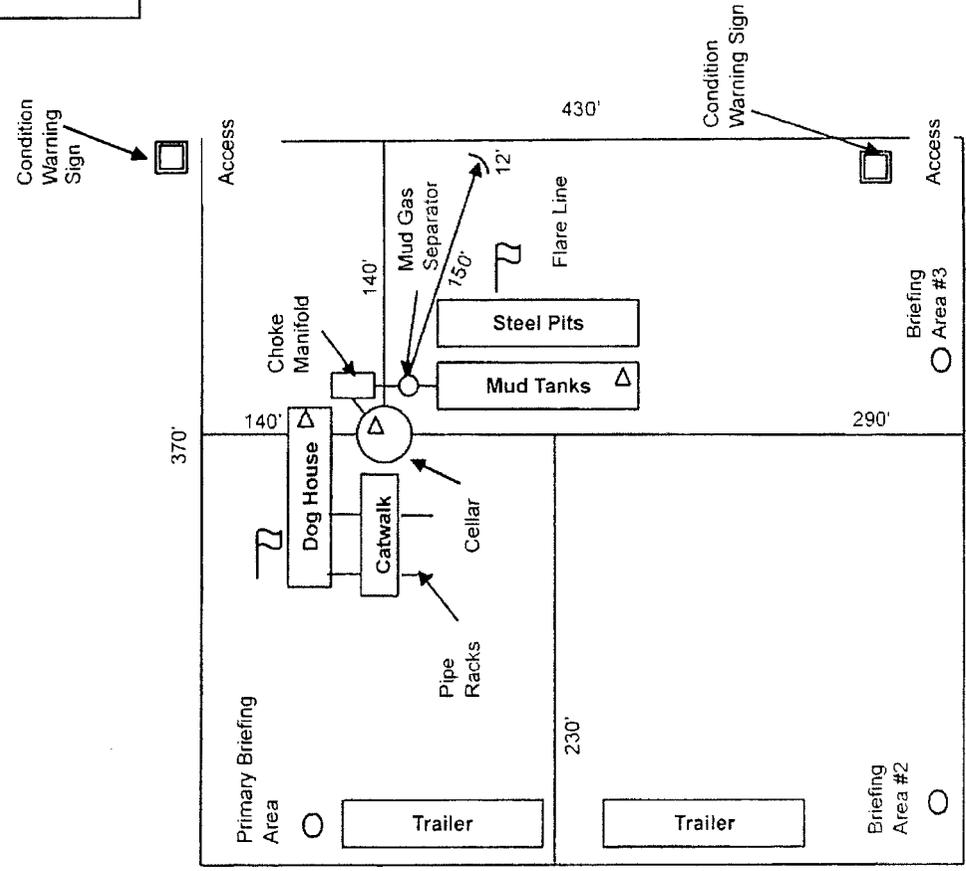
<u>Company Office</u>			
Matador Production Company		(972)-371-5200	
<u>Key Personnel</u>			
Name	Title	Office	Mobile
Billy Goodwin	Vice President Drilling	972-371-5210	817-522-2928
Gary Martin	Drilling Superintendent		601-669-1774
Dee Smith	Drilling Superintendent	972-371-5447	972-822-1010
Aaron Byrd	Drilling Engineer	972-371-5267	214-507-2333
	Construction Superintendent		
	Construction Superintendent		
<u>Artesia</u>			
Ambulance			911
State Police		575-746-2703	
City Police		575-746-2703	
Sheriff's Office		575-746-9888	
Fire Department		575-746-2701	
Local Emergency Planning Committee		575-746-2122	
New Mexico Oil Conservation Division		575-748-1283	
<u>Carlsbad</u>			
Ambulance			911
State Police		575-885-3137	
City Police		575-885-2111	
Sheriff's Office		575-887-7551	
Fire Department		575-887-3798	
Local Emergency Planning Committee		575-885-3581	
<u>Santa Fe</u>			
New Mexico Emergency Response Commission (Santa Fe)		505-476-9600	
New Mexico Emergency Response Commission (Santa Fe) 24 hrs		505-827-9126	
New Mexico State Emergency Operations Center		505-476-9635	
<u>National</u>			
Carlsbad BLM		575-234-5972	
National Emergency Response Center (Washington, D.C.)		800-424-8802	
<u>Medical</u>			
Flight for Life- 4000 24th St.; Lubbock, TX		806-743-9911	
Aerocare- R3, Box 49F; Lubbock, TX		806-747-8923	
Med Flight Air Amb- 2301 Yale Blvd S.E., D3; Albuquerque, NM		505-842-4433	
SB Air Med Service- 2505 Clark Carr Loop S.E.; Albuquerque, NM		505-842-4949	
<u>Other</u>			
Boots & Coots IWC		800-256-9688	or 281-931-8884
Cudd Pressure Control		432-699-0139	or 432-563-3356
Haliburton		575-746-2757	
B.J. Services		575-746-3569	

H2S Rig Layout Diagram

Stebbins 19 Fed 124H
 SHL 360 FSL & 130 FEL Sec. 19
 BHL 330 FSL & 240 FWL Sec. 19
 19-20S-29E Eddy County, NM

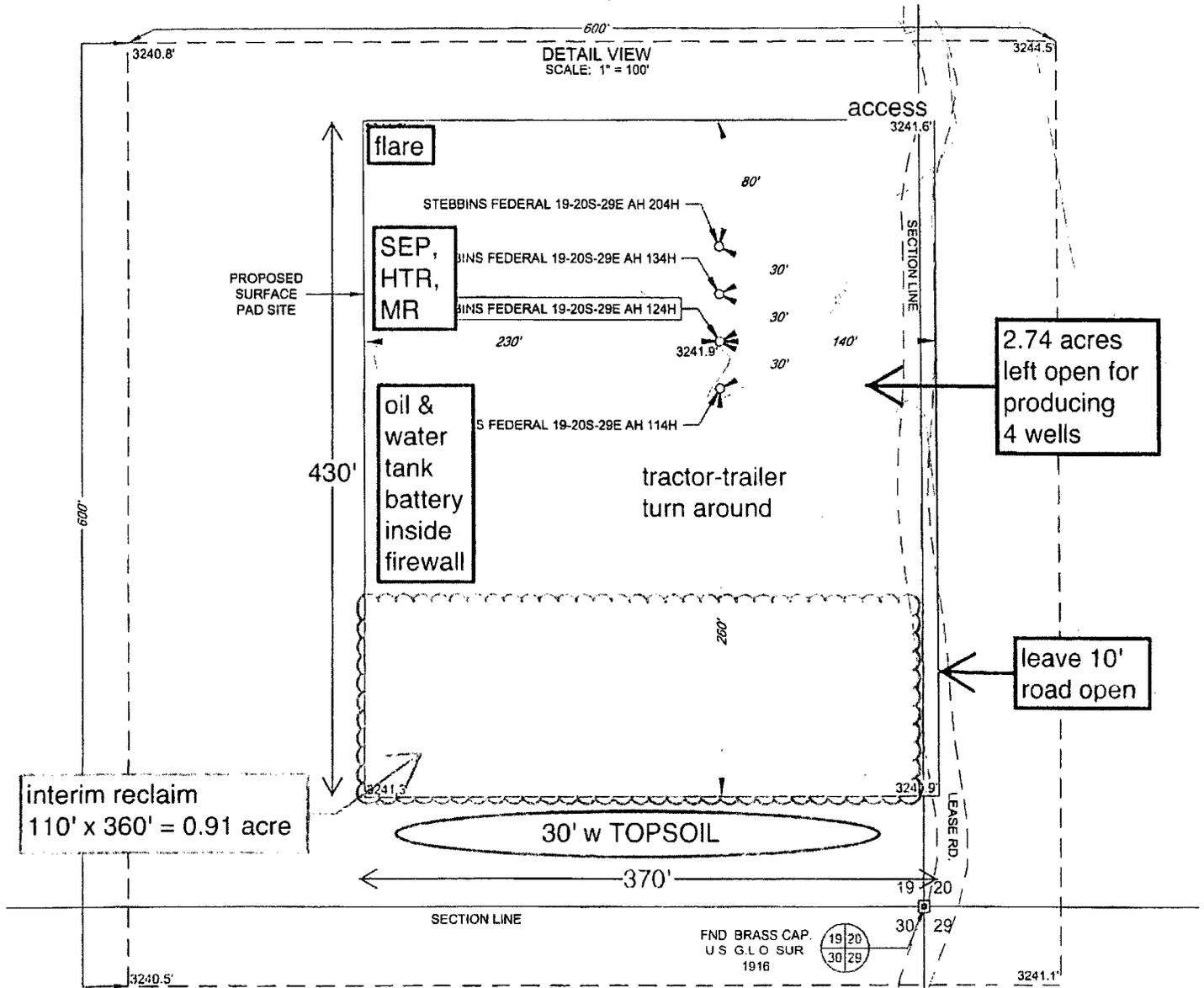
-  Wind Direction Indicator
-  H2S Monitors
-  Briefing Areas

N
 ↑
 Prevailing Wind





SECTION 19, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

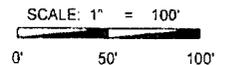


LEASE NAME & WELL NO.: STEBBINS FEDERAL 19-20S-29E AH #124H
#124H LATITUDE N 32.5525904 #124H LONGITUDE W 104.10569868

LEGEND

- SECTION LINE
- == == == == ROADWAY
- - - - - ARCH SITE

INTERIM RECLAMATION & PRODUCTION DIAGRAM



1400 EVERMAN PARKWAY, Ste 197 • FT. WORTH, TEXAS 76140
TELEPHONE (817) 744-7512 • FAX (817) 744-7540
2903 NORTH HICKORY SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

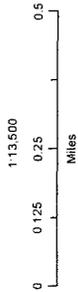
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET
THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED 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"

Matador Production Company

Stebbins Fed 19 #124H
H2S Contingency Plan:
1 Mile Radius Map

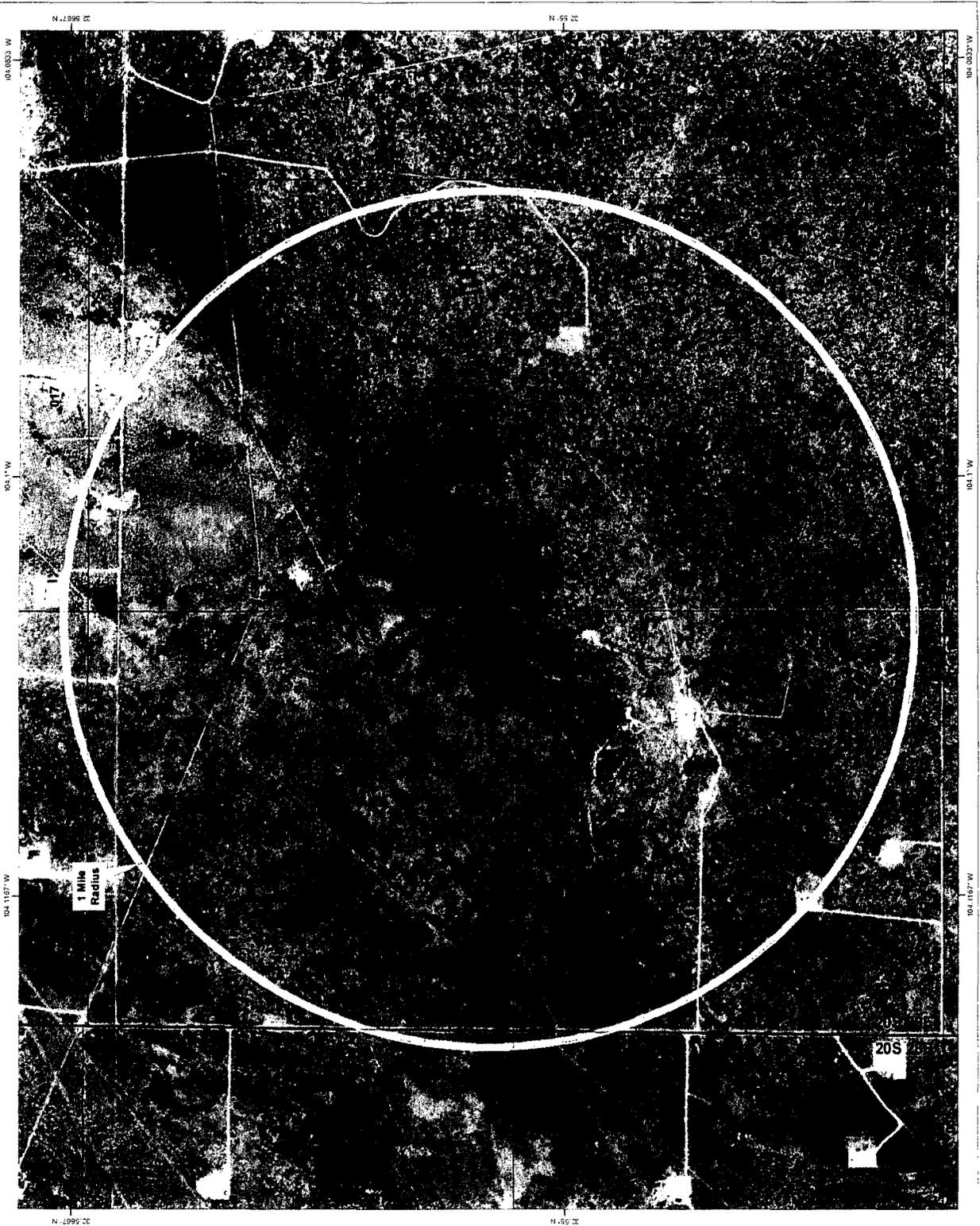
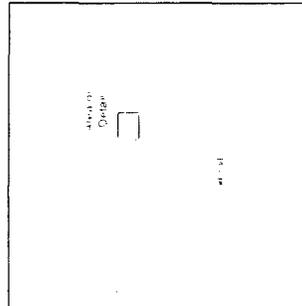
Section 19, Township 20S, Range 29E
Eddy County, New Mexico



NAD 1927 New Mexico State Plane East
FIPS 3001 Feet



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



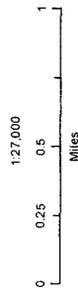
Matador Production Company

Stebbins Fed 19 #124H
H+S Contingency Plan:
2 Mile Radius Map

Section 19, Township 20S, Range 29E
Eddy County, New Mexico



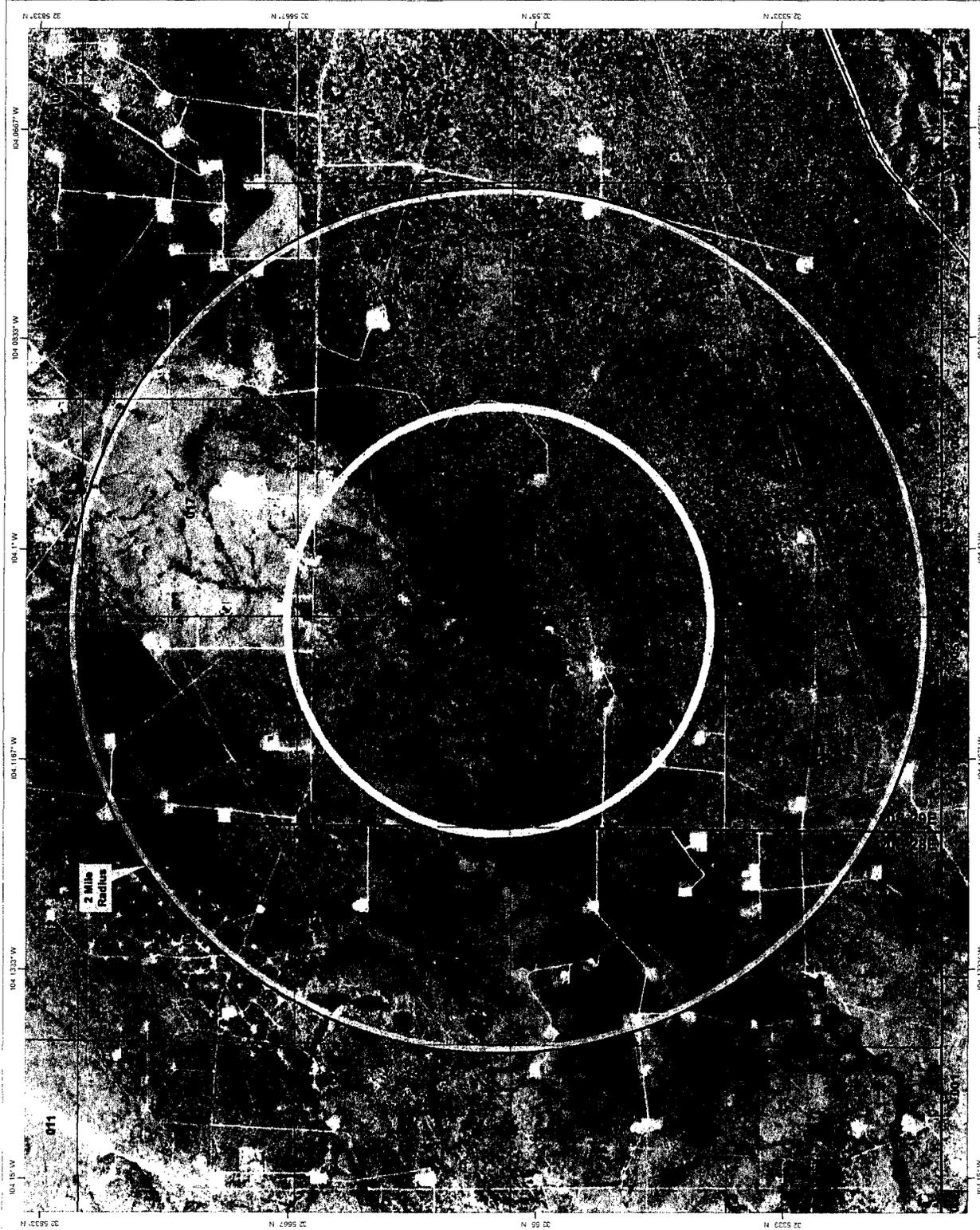
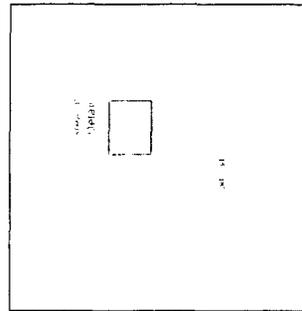
Surface Hole Location



NAD 1927 New Mexico State Plane East
PIPS 3001 Feet

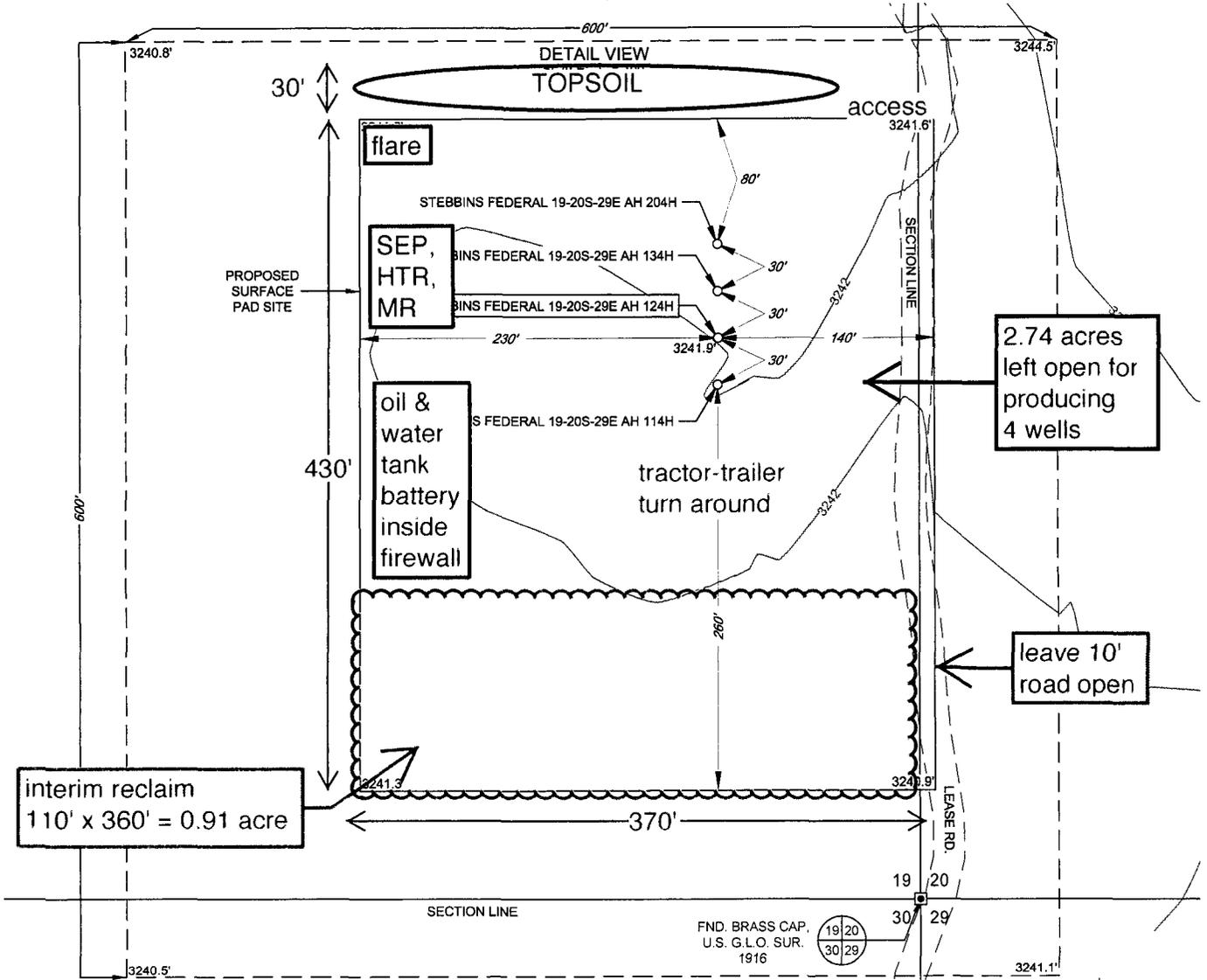
PERMITS

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





SECTION 19, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: STEBBINS FEDERAL 19-20S-29E AH #124H
 #124H LATITUDE N 32.5525904 #124H LONGITUDE W 104.10569868

LEGEND

- SECTION LINE
- == == == == ROADWAY
- ARCH SITE

INTERIM RECLAMATION & PRODUCTION DIAGRAM

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.



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
 WWW.TOPOGRAPHIC.COM

ORIGINAL DOCUMENT SIZE: 8.5" X 11"

Matador Production Company
Stebbins 19 Fed 124H
SHL 360' FSL & 130' FEL Sec. 19
BHL 330' FSL & 240' FWL Sec. 19
T. 20 S., R. 29 E., Eddy County, NM

SURFACE PLAN PAGE 1

Surface Use Plan

1. ROAD DIRECTIONS & DESCRIPTIONS (See MAPS 1-5)

From the junction of US 285 and Us 62/180 in Carlsbad...
Go East 9.1 miles on paved US 62/180 to the equivalent of Mile Post 44.15
Then turn left and go North 5.8 miles on paved County Road 243
Then turn sharply right and go East 1 mile on paved County Road 238
Then turn right and go South 4636.41' cross-country to the proposed pad
(length includes crossing 2 proposed Matador Stebbins well pads for 430' each)

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 Constructors, Inc. existing pit on private land in NWNE 34-21s-27e.

2. ROAD TO BE BUILT OR UPGRADED (See MAPS 2-5)

A BLM approved archaeologist will fence a cultural resource site along the road and monitor initial construction. The 4636.41' of new road to the well will be crowned and ditched, have a 14' wide driving surface, and be surfaced with caliche. Maximum disturbed width = 30'. Maximum grade = 1%. Maximum cut or fill = 2'. An 18" x 50' culvert will be installed in the south borrow ditch of County Road 238. No upgrade, cattle guard, or vehicle turn out is needed.

Existing jeep trails will be blocked at 3 intersections:
north and south of 32.56315° & -104.10602°
west of 32.56075° & -104.10635°

Matador Production Company
Stebbins 19 Fed 124H
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T. 20 S., R. 29 E., Eddy County, NM

SURFACE PLAN PAGE 2

3. EXISTING WELLS (See MAP 2)

Existing oil, gas, water, disposal, and P & A wells are within a mile. No injection well is within a mile.

4. PROPOSED PRODUCTION FACILITIES (See MAPS 3 & 8-11)

A tank battery will be built on the west side of the pad. A ≈ 6 " O. D. steel gas line will be buried 4783.40' north parallel to the new road to NM Gas Company's 10" line (NMNM-112801). County road will be bored. Construction corridor will be 30' wide.

A 4996.90' long overhead raptor safe 3-phase power line will be built north parallel to the gas line to Southwest Public Service's line (NMNM-120415). Construction corridor will be 15' wide.

5. WATER SUPPLY (See MAPS 1-5)

Water will be trucked from existing water wells (C 0370 & C 03607) on private land in NENE 24-21s-27e.

6. CONSTRUCTION MATERIALS & METHODS (See MAP 6)

NM One Call (811) will be notified before construction starts. Top ≈ 6 " of soil and brush will be stockpiled south of the pad. Pipe racks will be to the west. A closed loop drilling system will be used. Caliche will be hauled from Constructors, Inc. existing pit on private land in NWNE 34-21s-27e.

Matador Production Company
Stebbins 19 Fed 124H
SHL 360' FSL & 130' FEL Sec. 19
BHL 330' FSL & 240' FWL Sec. 19
T. 20 S., R. 29 E., Eddy County, NM

SURFACE PLAN PAGE 3

7. WASTE DISPOSAL

All trash will be placed in a portable trash cage. It will be hauled to the Eddy County landfill. There will be no trash burning. Contents (drill cuttings, mud, salts, and other chemicals) of the mud tanks will be hauled to CRI's state approved (NM-01-0006) disposal site. Human waste will be disposed of in chemical toilets and hauled to the Carlsbad wastewater treatment plant.

8. ANCILLARY FACILITIES

There will be no airstrip or camp. Camper trailers will be on location for the company man, tool pusher, or mud logger.

9. WELL SITE LAYOUT

See Rig Diagram for depictions of the well pad, trash cage, access onto the location, parking, living facilities, and rig orientation.

10. RECLAMATION

Interim reclamation will consist of shrinking the pad \approx 25% by removing caliche and reclaiming the south side (110' x 360'), leaving 2.74 acres around the production equipment. Disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas. Disturbed areas will be seeded in accordance with BLM's requirements. Enough stockpiled topsoil will be retained to cover the remainder of the pad when the wells are plugged. Once the last well is plugged, then the remainder of the pad and new road will be similarly reclaimed. Noxious weeds will be controlled.

Matador Production Company
Stebbins 19 Fed 124H
SHL 360' FSL & 130' FEL Sec. 19
BHL 330' FSL & 240' FWL Sec. 19
T. 20 S., R. 29 E., Eddy County, NM

SURFACE PLAN PAGE 4

11. SURFACE OWNER

All construction will be on BLM

12. OTHER INFORMATION

On site inspection was held with Vance Wolf and Stan Allison (both BLM) on June 16, 2016.

These Lone Mountain archaeology reports cover the project from north to south:

NMCRIS 136767 (October 21, 2016)
NMCRIS 136774 (October 21, 2016)
NMCRIS 136745 (September 23, 2016)

Matador Production Company
Stebbins 19 Fed 124H
SHL 360' FSL & 130' FEL Sec. 19
BHL 330' FSL & 240' FWL Sec. 19
T. 20 S., R. 29 E., Eddy County, NM

SURFACE PLAN PAGE 5

CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U. S. C. 1001 for the filing of false statements. Executed this 1st day of November, 2016.



Brian Wood, Consultant
Permits West, Inc.
37 Verano Loop, Santa Fe, NM 87508
(505) 466-8120 FAX: (505) 466-9682 Cellular: (505) 699-2276

Field representative will be:
Sam Pryor, Senior Staff Landman
Matador Production Company
5400 LBJ Freeway, Suite 1500
Dallas TX 75240
Phone: (972) 371-5241
FAX: (214) 866-4841

PECOS DISTRICT DRILLING OPERATIONS CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Matador Production Company
LEASE NO.:	NMNM03677
WELL NAME & NO.:	124H-Stebbins 19 Fed
SURFACE HOLE FOOTAGE:	360'/S & 130'/E
BOTTOM HOLE FOOTAGE:	330'/S & 240'/W
LOCATION:	Section 19, T.20 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

1. **Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. It is recommended that monitoring equipment be onsite for potential Hydrogen Sulfide. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, report measured amounts and formations to the BLM.**
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
4. **The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM**

office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

High Cave/Karst

Capitan Reef

Possible water flows in the Artesia Group and Salado.

Possibility of lost circulation in the Artesia Group, Rustler, Capitan Reef, and Delaware.

A MINIMUM OF TWO CASING STRINGS CEMENTED TO SURFACE IS REQUIRED IN HIGH CAVE/KARST AREAS. THE CEMENT MUST BE IN A SOLID SHEATH. THEREFORE, ONE INCH OPERATIONS ARE NOT SUFFICIENT TO PROTECT CAVE KARST RESOURCES. A CASING DESIGN THAT HAS A ONE INCH JOB PERFORMED DOES NOT COUNT AS A SOLID SHEATH.

1. The **20** inch surface casing shall be set at approximately **400** feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 feet above the salt.**

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **13-3/8** inch 1st intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**
 3. The minimum required fill of cement behind the **9-5/8** inch 2nd intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan Reef.**
 4. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least **50 feet above the Capitan Reef which will be 1180 feet (Top of Capitan Reef at 1230 feet)**. Operator shall provide method of verification.
 5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.

2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **20** inch surface casing shoe shall be **2000 (2M) annular**.

Option 1:

- i. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **13-3/8** inch first intermediate casing shoe shall be **2000 (2M)** psi.
- ii. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9-5/8** inch second intermediate casing shoe shall be **3000 (3M)** psi.

Option 2:

- i. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the first intermediate casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **13-3/8** inch first intermediate casing shoe shall be **3000 (3M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.

- e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

- 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
 - f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test

plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

MHH 05052017

**PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	Matador Production Company
LEASE NO.:	NMNM03677
WELL NAME & NO.:	124H-Stebbins 19 Fed
SURFACE HOLE FOOTAGE:	360'S & 130'E
BOTTOM HOLE FOOTAGE:	330'S & 240'W
LOCATION:	Section 19, T.20 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

- General Provisions**
- Permit Expiration**
- Archaeology, Paleontology, and Historical Sites**
- Noxious Weeds**
- Special Requirements**
 - Cave/Karst
 - Range Waterline
 - Two track road reclamation requirements
- Construction**
 - Notification
 - Topsoil
 - Closed Loop System
 - Federal Mineral Material Pits
 - Well Pads
 - Roads
- Road Section Diagram**
- Production (Post Drilling)**
 - Well Structures & Facilities
 - Pipelines
 - Electric Lines
- Interim Reclamation**
- Final Abandonment & Reclamation**

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production.

Construction:

In the advent that any underground voids are opened up during construction activities, construction activities will be halted and the BLM will be notified immediately.

No Blasting:

No blasting will be utilized for pad construction. The pad will be constructed and leveled by adding the necessary fill and caliche.

Pad Berming:

The pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the pad.

Closed Mud System Using Steel Tanks with All Fluids and Cuttings Hauled Off.

A closed mud system using steel tanks for all cuttings and fluids is required. All fluids and cuttings will be hauled off site for disposal. No pits are allowed.

Tank Battery Liners and Berms:

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.

Leak Detection System:

A method of detecting leaks is required. The method could incorporate gauges to measure loss, siting valves and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present. Leak detection plan will be submitted to BLM for approval.

Automatic Shut-off Systems:

Automatic shut off, check valves, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and ground water concerns:

Rotary Drilling with Fresh Water:

Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Directional Drilling:

Kick off for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

Lost Circulation:

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported in the drilling report.

Regardless of the type of drilling machinery used, if a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cave-bearing zone, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

Upon well abandonment in high cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

Annual pressure monitoring will be performed by the operator on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

Range Waterline

A livestock water line is located near the Stebbins 20 Federal Slot 3 well pad and would be re-routed by the Applicant prior to construction of the pad. Following proper procedures for crossing fence lines including bracing and tying off on both sides of the passageway with H-braces prior to cutting the fence, would mitigate the impacts to the fence. The operator would notify the grazing allotment holders prior to crossing any fences.

Any damage to fences, cattle guards, and pipelines or structures that provide water to livestock during construction, throughout the life of the project, and caused by its operation, must be immediately corrected by the Applicant. The Applicant must notify the grazing allottee or the private surface landowner and the BLM-CFO (575-234-5972) if any damage occurs to pipelines or structures that provide water to livestock.

Two-Track Road Reclamation Requirements

The two track road identified in the "Location Verification Map" in the APD and "Figure 1" in this document must be reclaimed during the same time as the new road construction. Reclamation procedures shall include ripping or disking the two-track road

to break up the soil. The edges of the road and roadbed need to be contoured to match the surrounding terrain. The two ends of the portion of two-track road to be reclaimed must be sufficiently barricaded to prevent vehicle traffic on the reclamation.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS**Road Width**

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

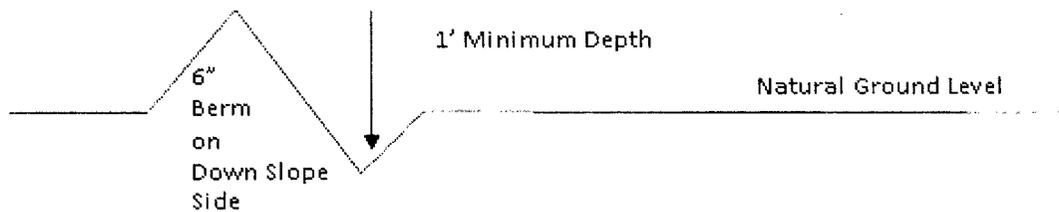
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$400 \text{ foot road with } 4\% \text{ road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

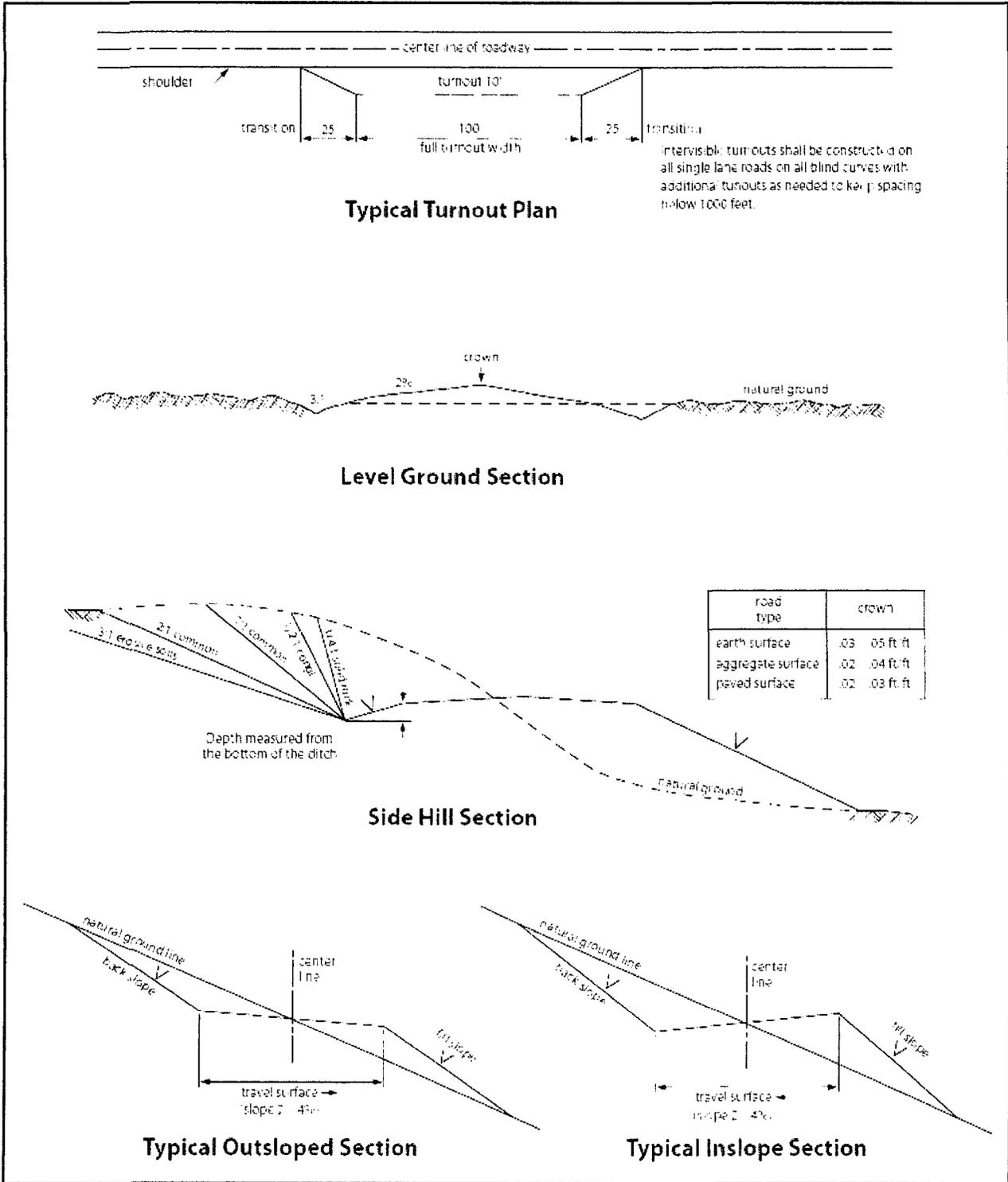


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of

the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.

6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this right-of-way will be 30 feet:

- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 20 feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
- Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

- | | |
|---|--|
| <input type="checkbox"/> seed mixture 1 | <input type="checkbox"/> seed mixture 3 |
| <input type="checkbox"/> seed mixture 2 | <input checked="" type="checkbox"/> seed mixture 4 |
| <input type="checkbox"/> seed mixture 2/LPC | <input type="checkbox"/> Aplomado Falcon Mixture |

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

17. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

18. Escape Ramps - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.
5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006 . The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching

deterrence shall be placed on all vertical poles that extend past the cross arms.

6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce

the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Mixture 4, for Gypsum Sites

The holder shall seed all the disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Alkli Sacaton (<i>Sporobolus airoides</i>)	1.5
DWS~ Four-wing saltbush (<i>Atriplex canescens</i>)	8.0

~DWS: DeWinged Seed

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed