

NCCO CONSERVATION DISTRICT  
ARTESIA

DEC 22 2016

RECEIVED

Form 3160-3  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires July 31, 2010

5. Lease Serial No.  
NMLC 068282B; NMLC 068282A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.  
STAMPEDE 34 FEDERAL COM W3 9H

9. API Well No.  
30-028-015-44014

10. Field and Pool, or Exploratory  
Wolfcamp

11. Sec., T. R. M. or Blk. and Survey or Area  
LOT 3 34-26-31E

1a. Type of work:  DRILL  REENTER

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

2. Name of Operator CONOCOPHILLIPS COMPANY

3a. Address P.O. Box 51810  
Midland, TX 79710

3b. Phone No. (include area code)  
432-688-6938

4. Location of Well (Report location clearly and in accordance with any State requirements \*)

At surface 250 FSL & 1470 FWL 34-26S-31E  
At proposed prod. zone 280 FNL & 1700 FWL 27-26S-31E

UNORTHODOX  
LOCATION

14. Distance in miles and direction from nearest town or post office\*  
-49.1 miles south/west of Jal, NM

12. County or Parish  
EDDY

13. State  
NM

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)  
250'

16. No. of acres in lease  
NMLC 068282B: 900.8  
NMLC 068282A: 1221.6

17. Spacing Unit dedicated to this well  
225.20

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft.  
SHL: 33' (S.F. 10H)  
BHL: 2900' (S.F. M 1)

19. Proposed Depth  
TVD: 12,234' MD: 19,170'

20. BLM/BIA Bond No. on file  
ES0085

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
3135.8

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

23. Estimated duration  
30 days

24. Attachments

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

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

25. Signature *Ashley Bergen*

Name (Printed/Typed)  
ASHLEY BERGEN

Date

Title  
REGULATORY ASSOCIATE

Approved by (Signature) */s/Cody Layton*

Name (Printed/Typed)

Date  
DEC 19 2016

Title  
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)

Carlsbad Controlled Water Basin

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

Approval Subject to General Requirements  
& Special Stipulations Attached

NM OIL CONSERVATION  
ARTESIA DISTRICT

DEC 22 2016

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1281 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

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

RECEIVED

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

15 30-025-44014	1 API Number	2 Pool Code 98012	3 Pool Name WC WOLFCAMP
315003	4 Property Code	5 Property Name STAMPEDE 34 FEDERAL COM W3	6 Well Number 09H
217817	7 GRID No.	8 Operator Name ConocoPhillips Company	9 Elevation 3135.8'

10 Surface Location

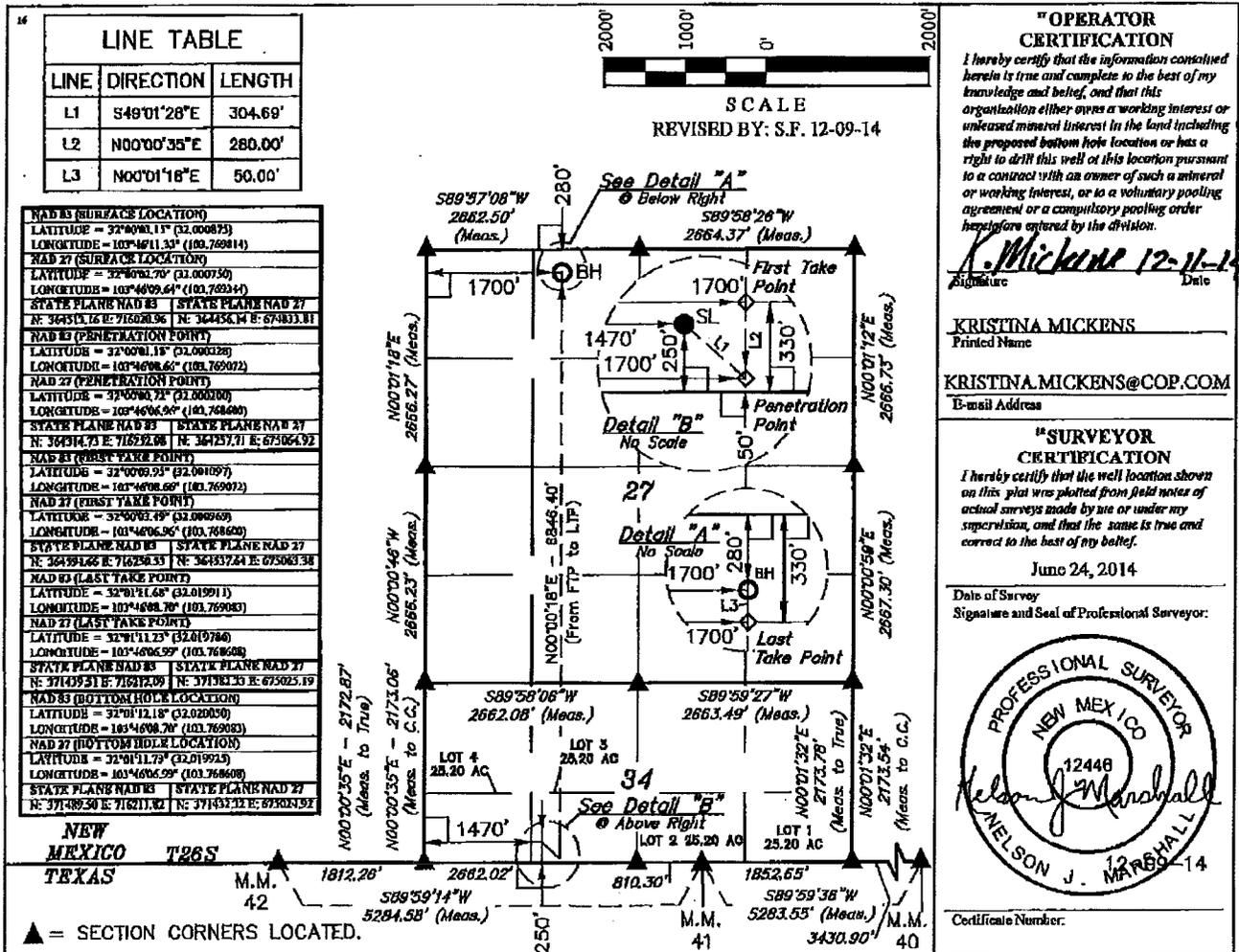
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	34	26 S	31 E		250	SOUTH	1470	WEST	BDY

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	27	26 S	31 E		280	NORTH	1700	WEST	BDY

12 225.20	13 26 S	14 31 E	15 C
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



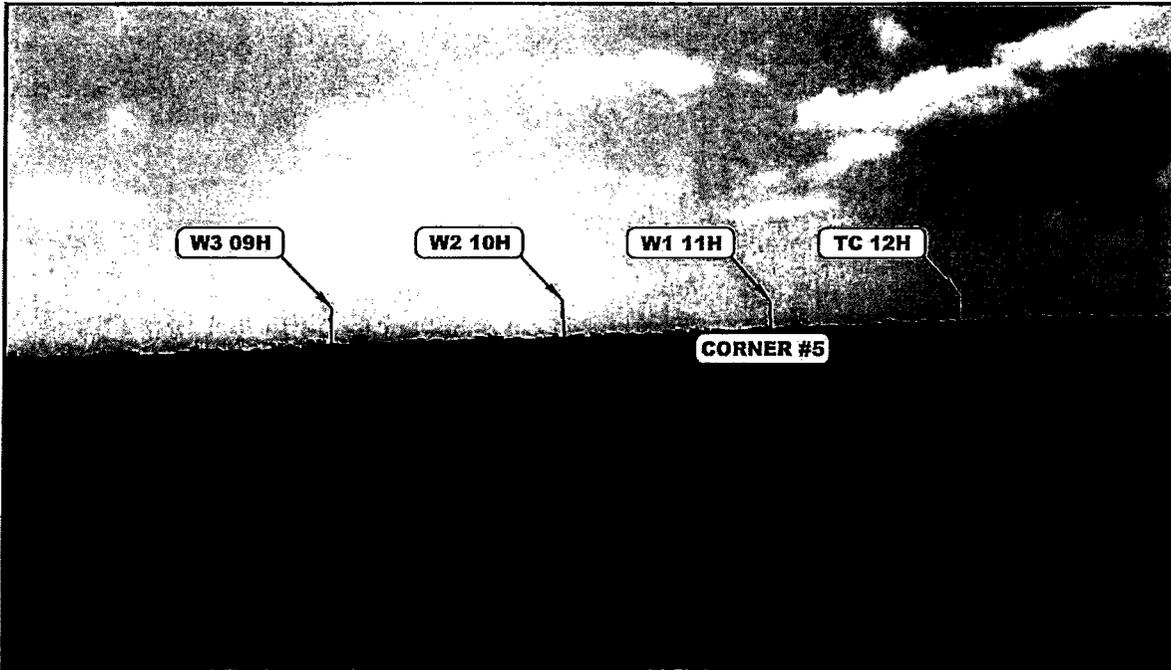


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: WESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: EASTERLY

**ConocoPhillips Company**

STAMPEDE 34 FEDERAL COM W3 09H,  
W2 10H, W1 11H & TC 12H  
SECTION 34, T26S, R31E, N.M.P.M.  
LOT 3

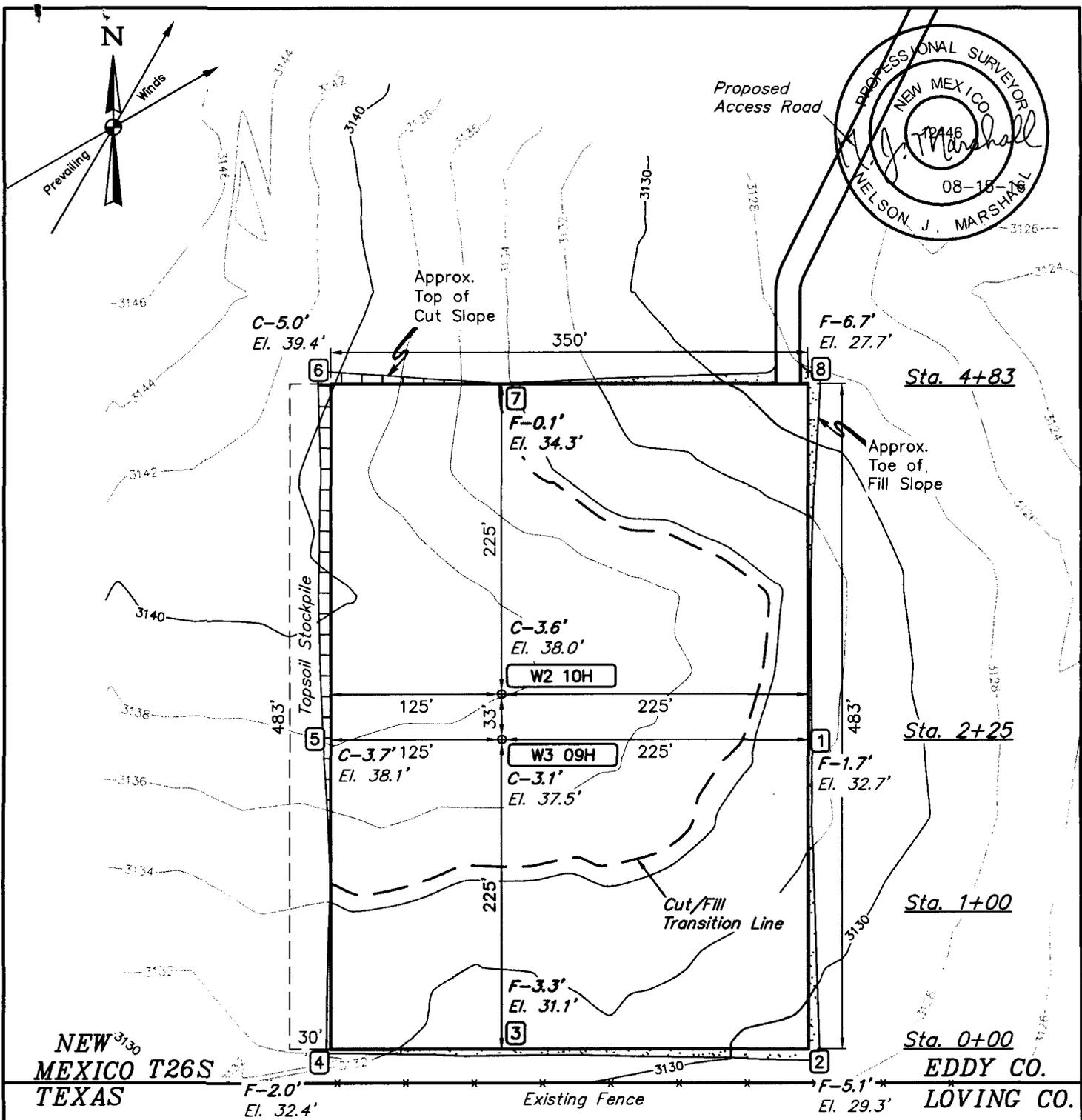


**UELS, LLC**  
Corporate Office \* 85 South 200 East  
Vernal, UT 84078 \* (435) 789-1017

DRAWN BY: M.L.	DATE DRAWN: 06-26-14
TAKEN BY: J.A.V.	REVISED: 00-00-00

**LOCATION PHOTOS**

**PHOTO**



**FINISHED GRADE ELEVATION = 3134.4'**

REV: 1 08-07-16 S.F. (PAD SIZE/ORIENTATION CHANGE)

**NOTES:**

- Flare pit is to be located a min. of 100' from the wellhead.
- Construct diversion ditches as needed.
- Contours shown at 2' intervals.
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.

**ConocoPhillips Company**

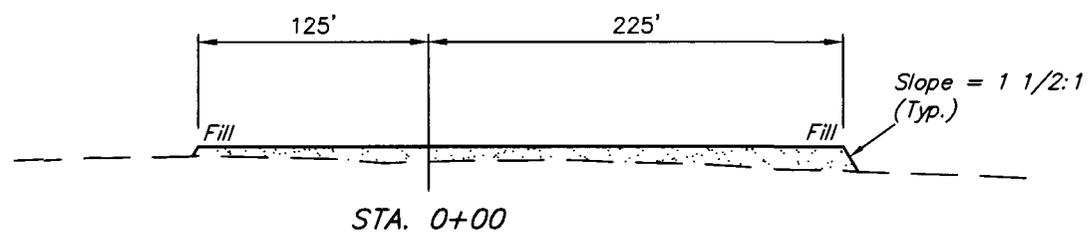
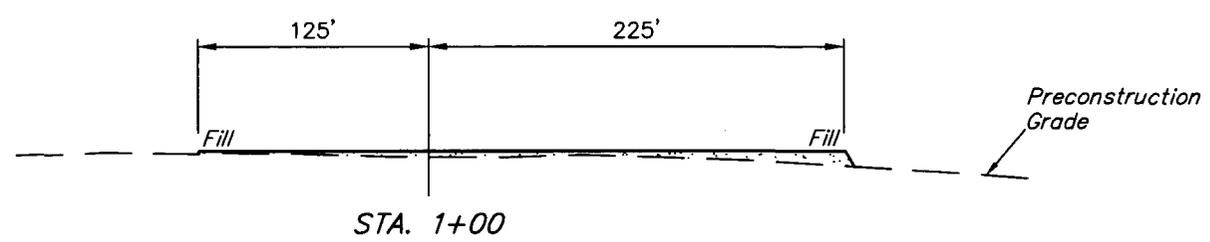
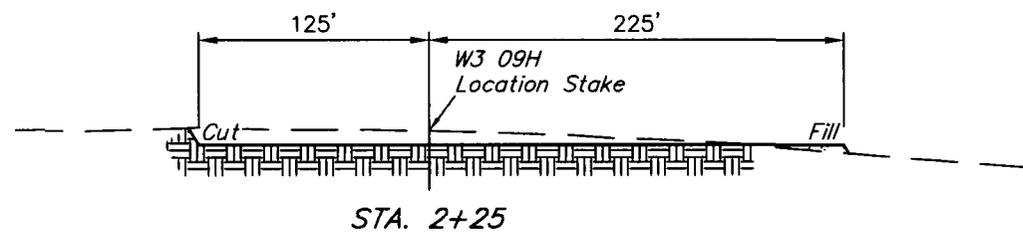
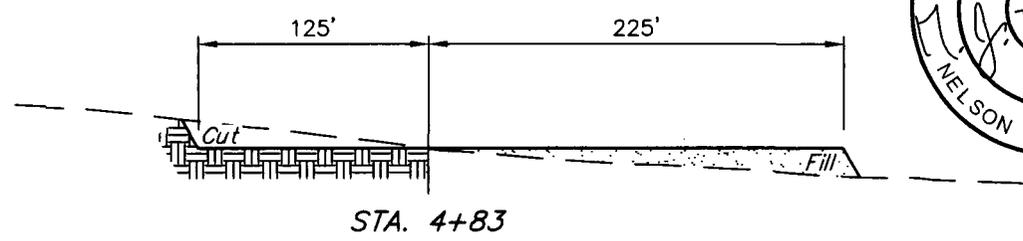
**STAMPEDE 34 FEDERAL COM W3 09H & W2 10H  
LOT 3, SECTION 34, T26S, R31E, N.M.P.M.  
EDDY COUNTY, NEW MEXICO**



**UELS, LLC**  
Corporate Office \* 85 South 200 East  
Vernal, UT 84078 \* (435) 789-1017

<b>SURVEYED BY</b>	J.A.V.	07-14-14	<b>SCALE</b>
<b>DRAWN BY</b>	S.F.	08-05-14	1" = 100'
<b>LOCATION LAYOUT</b>			<b>FIGURE #1</b>

1" = 40'  
 X-Section  
 Scale  
 1" = 100'



APPROXIMATE EARTHWORK QUANTITIES	
(3") TOPSOIL STRIPPING	1,640 Cu. Yds.
REMAINING LOCATION	7,250 Cu. Yds.
<b>TOTAL CUT</b>	<b>8,890 Cu. Yds.</b>
<b>FILL</b>	<b>7,250 Cu. Yds.</b>
EXCESS MATERIAL	1,640 Cu. Yds.
TOPSOIL	1,640 Cu. Yds.
<b>EXCESS UNBALANCE</b> (After Interim Rehabilitation)	<b>0 Cu. Yds.</b>

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	ACRES
WELL SITE DISTURBANCE	NA	±4.348
30' WIDE ACCESS ROAD R-O-W DISTURBANCE	±378.00'	±0.260
FLOW LINE R-O-W DISTURBANCE	±1,173.69'	±0.981
30' WIDE POWER LINE R-O-W DISTURBANCE	±705.04'	±0.486
<b>TOTAL SURFACE USE AREA</b>		<b>±6.075</b>

REV: 1 08-07-16 S.F. (PAD SIZE/ORIENTATION CHANGE)

**NOTES:**  
 • Fill quantity includes 5% for compaction.

**ConocoPhillips Company**

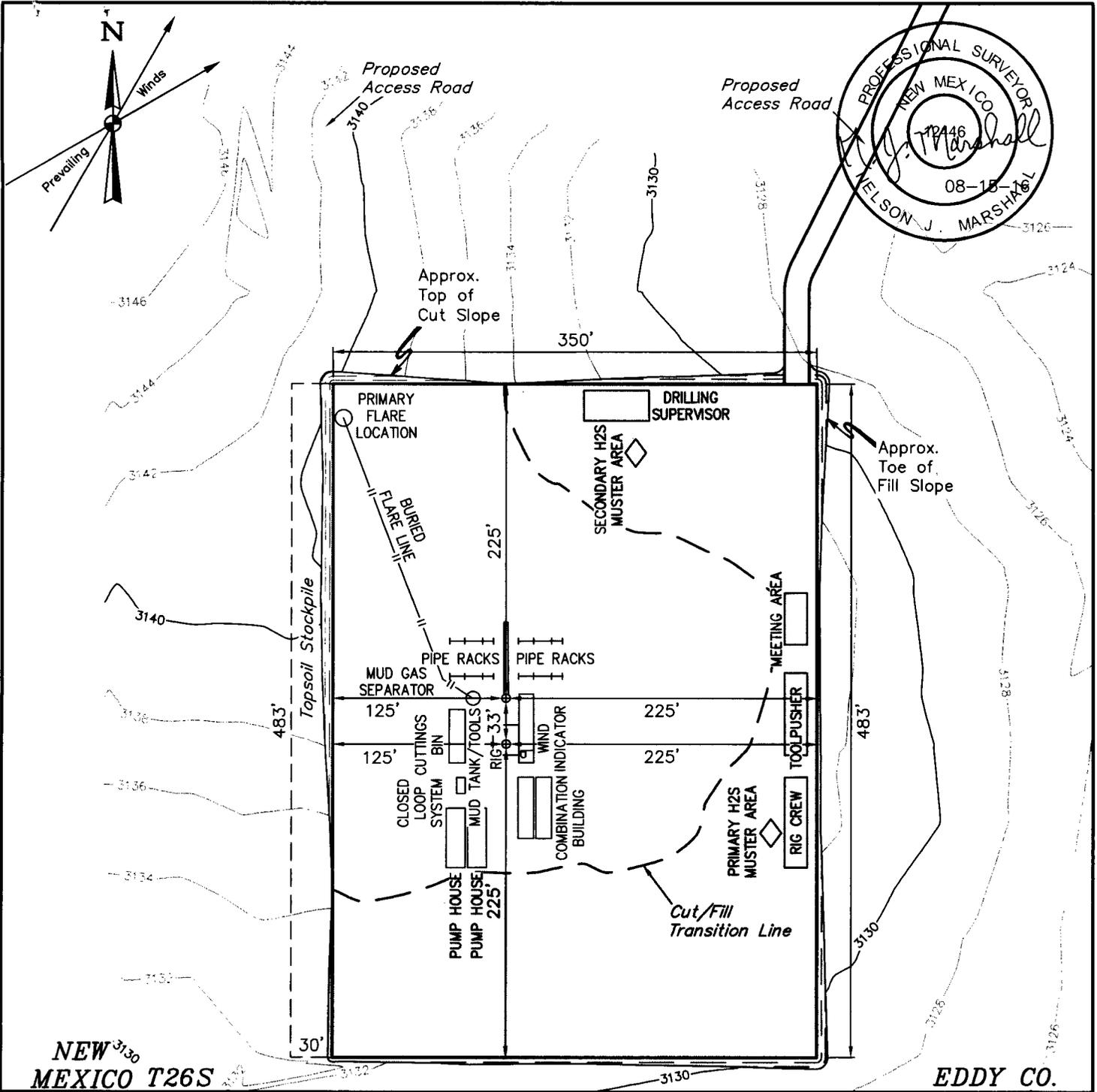
**STAMPEDE 34 FEDERAL COM W3 09H & W2 10H  
 LOT 3, SECTION 34, T26S, R31E, N.M.P.M.  
 EDDY COUNTY, NEW MEXICO**



**UELS, LLC**  
 Corporate Office \* 85 South 200 East  
 Vernal, UT 84078 \* (435) 789-1017

SURVEYED BY	J.A.V.	07-14-14	SCALE
DRAWN BY	S.F.	08-05-14	1" = 100'

**TYPICAL CROSS SECTIONS FIGURE #2**



NEW MEXICO T26S TEXAS

EDDY CO. LOVING CO.

REV: 1 08-07-16 S.F. (PAD SIZE/ORIENTATION CHANGE)

**NOTES:**

- Contours shown at 2' intervals.
- May have different number of Pump Houses and Combination Buildings.
- Flare may not be needed depending on rig used.

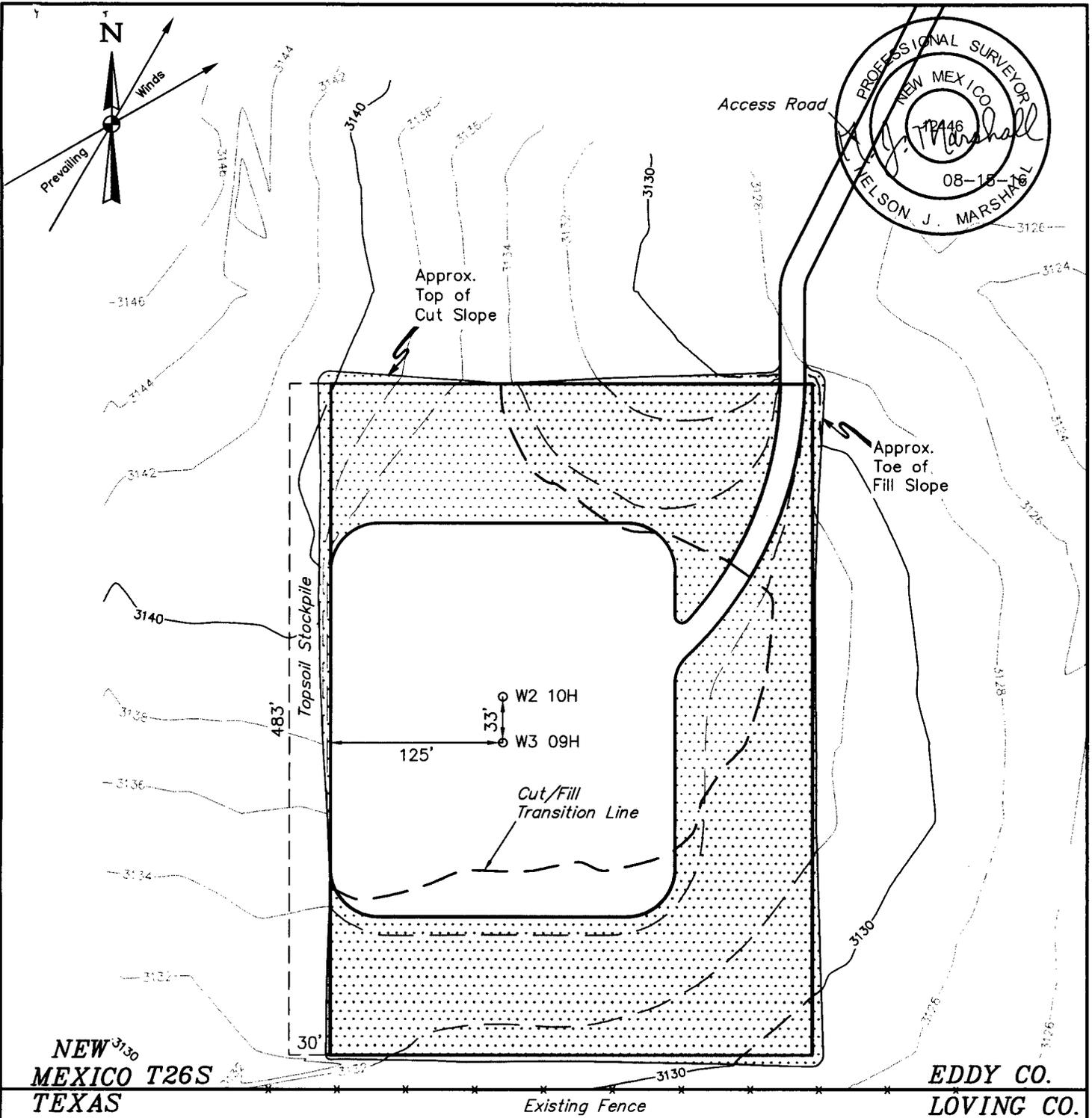
**ConocoPhillips Company**

**STAMPEDE 34 FEDERAL COM W3 09H & W2 10H  
LOT 3, SECTION 34, T26S, R31E, N.M.P.M.  
EDDY COUNTY, NEW MEXICO**



**UELS, LLC**  
Corporate Office \* 85 South 200 East  
Vernal, UT 84078 \* (435) 789-1017

SURVEYED BY	J.A.V.	07-14-14	SCALE
DRAWN BY	S.F.	08-05-14	1" = 100'
<b>TYPICAL RIG LAYOUT</b>			<b>FIGURE #3</b>



**LEGEND:**  
 Reclaimed Area

APPROXIMATE PRODUCTION PAD ACREAGE = ±1.690 ACRES  
 APPROXIMATE RECLAIMED AREA ACREAGE = ±2.658 ACRES  
 TOTAL ACREAGE = ±4.348 ACRES

REV: 1 08-07-16 S.F. (PAD SIZE/ORIENTATION CHANGE)

**NOTES:**  
 • Contours shown at 2' intervals.

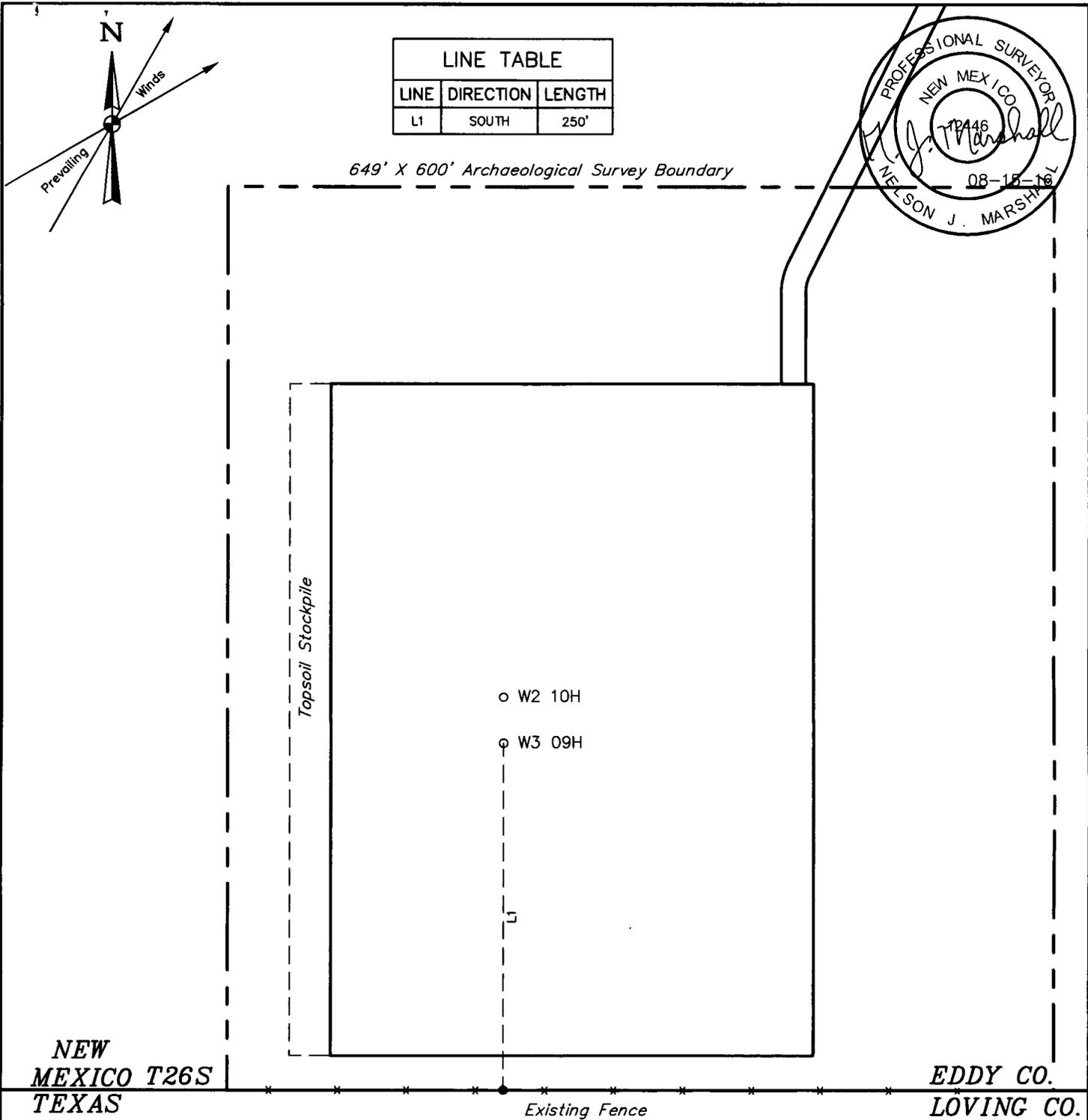
**ConocoPhillips Company**

**STAMPEDE 34 FEDERAL COM W3 09H & W2 10H  
 LOT 3, SECTION 34, T26S, R31E, N.M.P.M.  
 EDDY COUNTY, NEW MEXICO**

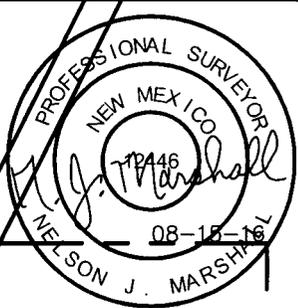


**UELS, LLC**  
 Corporate Office \* 85 South 200 East  
 Vernal, UT 84078 \* (435) 789-1017

<b>SURVEYED BY</b>	J.A.V.	07-14-14	<b>SCALE</b>
<b>DRAWN BY</b>	S.F.	08-05-14	1" = 100'
<b>RECLAMATION DIAGRAM FIGURE #4</b>			



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	SOUTH	250'



649' X 600' Archaeological Survey Boundary

Topsoil Stockpile

o W2 10H

o W3 09H

Existing Fence

NEW MEXICO T26S TEXAS

EDDY CO. LOVING CO.

REV: 1 08-07-16 S.F. (PAD SIZE/ORIENTATION CHANGE)

ConocoPhillips Company

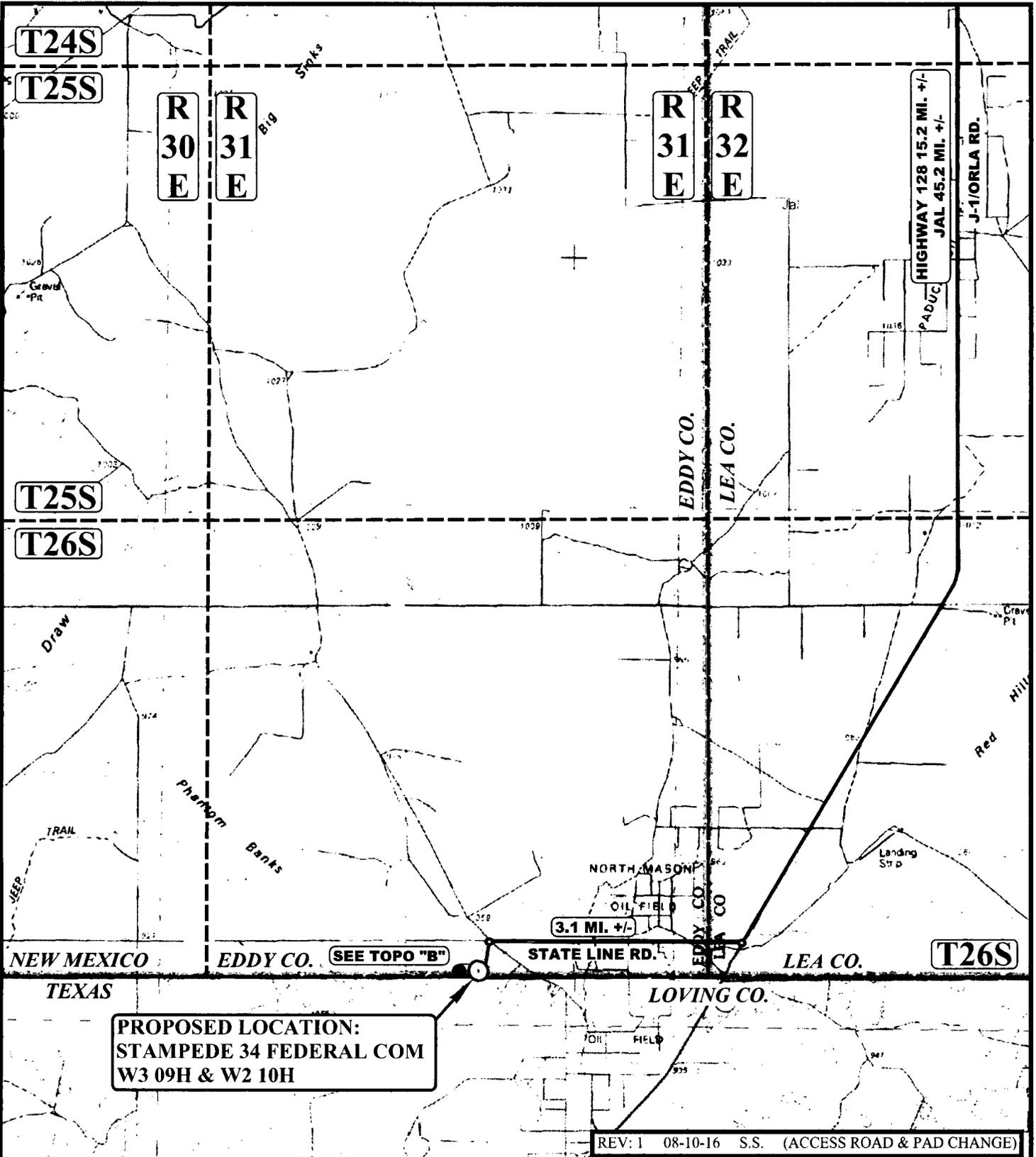
STAMPEDE 34 FEDERAL COM W3 09H & W2 10H  
 LOT 3, SECTION 34, T26S, R31E, N.M.P.M.  
 EDDY COUNTY, NEW MEXICO

SURVEYED BY	J.A.V.	07-14-14	SCALE
DRAWN BY	S.F.	08-05-14	1" = 100'
ARCHAEOLOGICAL SURVEY BOUNDARY			FIGURE #5



UELS, LLC  
 Corporate Office \* 85 South 200 East  
 Vernal, UT 84078 \* (435) 789-1017





**PROPOSED LOCATION:  
STAMPEDE 34 FEDERAL COM  
W3 09H & W2 10H**

REV: 1 08-10-16 S.S. (ACCESS ROAD & PAD CHANGE)

**LEGEND:**  
 PROPOSED LOCATION

**ConocoPhillips Company**

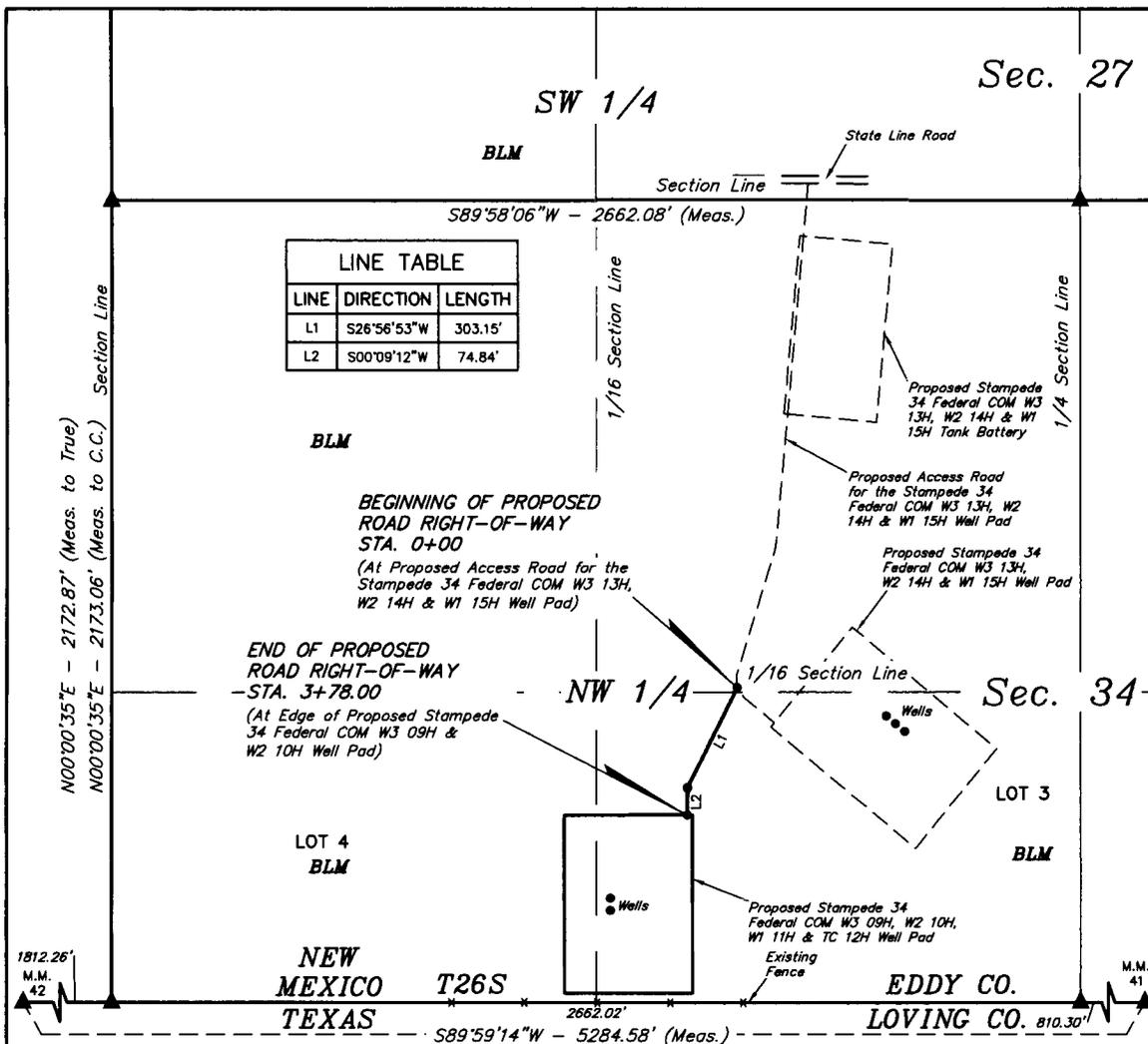
**STAMPEDE 34 FEDERAL COM W3 09H, & W2 10H  
 LOT 3 SECTION 34, T26S, R31E, N.M.P.M.  
 EDDY COUNTY, NEW MEXICO**



**UELS, LLC**  
 Corporate Office \* 85 South 200 East  
 Vernal, UT 84078 \* (435) 789-1017

DRAWN BY: M.L.      DATE DRAWN: 06-26-14  
 SCALE: 1:100,000

**ACCESS ROAD MAP      TOPO A**



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S26°56'53"W	303.15'
L2	S00°09'12"W	74.84'

**BEGINNING OF PROPOSED ROAD RIGHT-OF-WAY STA. 0+00**  
 (At Proposed Access Road for the Stampede 34 Federal COM W3 13H, W2 14H & W1 15H Well Pad)

**END OF PROPOSED ROAD RIGHT-OF-WAY STA. 3+78.00**  
 (At Edge of Proposed Stampede 34 Federal COM W3 09H & W2 10H Well Pad)

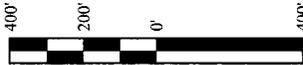
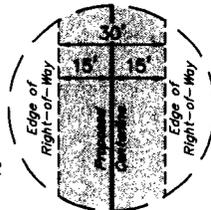
**ROAD RIGHT-OF-WAY DESCRIPTION**

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE NE 1/4 NW 1/4 OF SECTION 34, T26S, R31E, N.M.P.M., WHICH BEARS N63°34'47"E 1918.12' FROM THE SOUTHWEST CLOSING CORNER OF SAID SECTION 34, THENCE S26°56'53"W 303.15'; THENCE S00°09'12"W 74.84' TO A POINT IN LOT 3 OF SAID SECTION 34, WHICH BEARS N72°09'56"E 1659.97' FROM THE SOUTHWEST CLOSING CORNER OF SAID SECTION 34. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.260 ACRES MORE OR LESS.

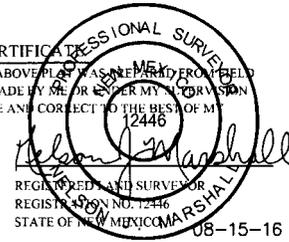
BEGINNING OF ROAD STA. 0+00 BEARS N63°34'47"E 1918.12' FROM THE SOUTHWEST CLOSING CORNER OF SECTION 34, T26S, R31E, N.M.P.M.

END OF ROAD STA. 3+78.00 BEARS N72°09'56"E 1659.97' FROM THE SOUTHWEST CLOSING CORNER OF SECTION 34, T26S, R31E, N.M.P.M.



RIGHT-OF-WAY LENGTHS			
PROPERTY OWNER	FEET	ACRES	RODS
BLM NW 1/4 SEC. 34	378.00	0.260	22.91

CERTIFICATE OF PROFESSIONAL SURVEYOR  
 THIS IS TO CERTIFY THAT THE ABOVE IS A TRUE AND CORRECT COPY OF THE NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



▲ = SECTION CORNERS LOCATED.

REV: 1 08-07-16 S.F. (PAD SIZE/ACCESS ROAD CHANGE)

**NOTES:**



UELS, LLC  
 Corporate Office \* 85 South 200 East  
 Vernal, UT 84078 \* (435) 789-1017



**ConocoPhillips Company**

STAMPEDE 34 FEDERAL COM W3 09H & W2 10H  
 LOT 3, SECTION 34, T26S, R31E, N.M.P.M.  
 EDDY COUNTY, NEW MEXICO

SURVEYED BY	J.A.V.	07-14-14	SCALE
DRAWN BY	S.F.	08-05-14	1" = 400'

**ACCESS ROAD R-O-W**

BEGINNING AT THE INTERSECTION OF HIGHWAY 18 AND HIGHWAY 128 PROCEED IN A WESTERLY DIRECTION FROM JAL, NEW MEXICO ALONG HIGHWAY 128 APPROXIMATELY 30.0 MILES TO THE JUNCTION OF THIS ROAD AND J-1/ORLA ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 15.2 MILES TO THE JUNCTION OF THIS ROAD AND STATE LINE ROAD TO THE WEST; TURN RIGHT AND PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 3.1 MILES TO THE JUNCTION OF THIS ROAD AND THE PROPOSED ACCESS ROAD FOR THE STAMPEDE 34 FEDERAL COM W3 13H, W2 14H & W1 15H TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 1,386 FEET TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 378' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM JAL, NEW MEXICO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 48.6 MILES.

REV: 1 08-10-16 S.S. (ACCESS ROAD & PAD CHANGE)

**ConocoPhillips Company**

STAMPEDE 34 FEDERAL COM W3 09H, &W2 10H  
LOT 3 SECTION 34, T26S, R31E, N.M.P.M.  
EDDY COUNTY, NEW MEXICO

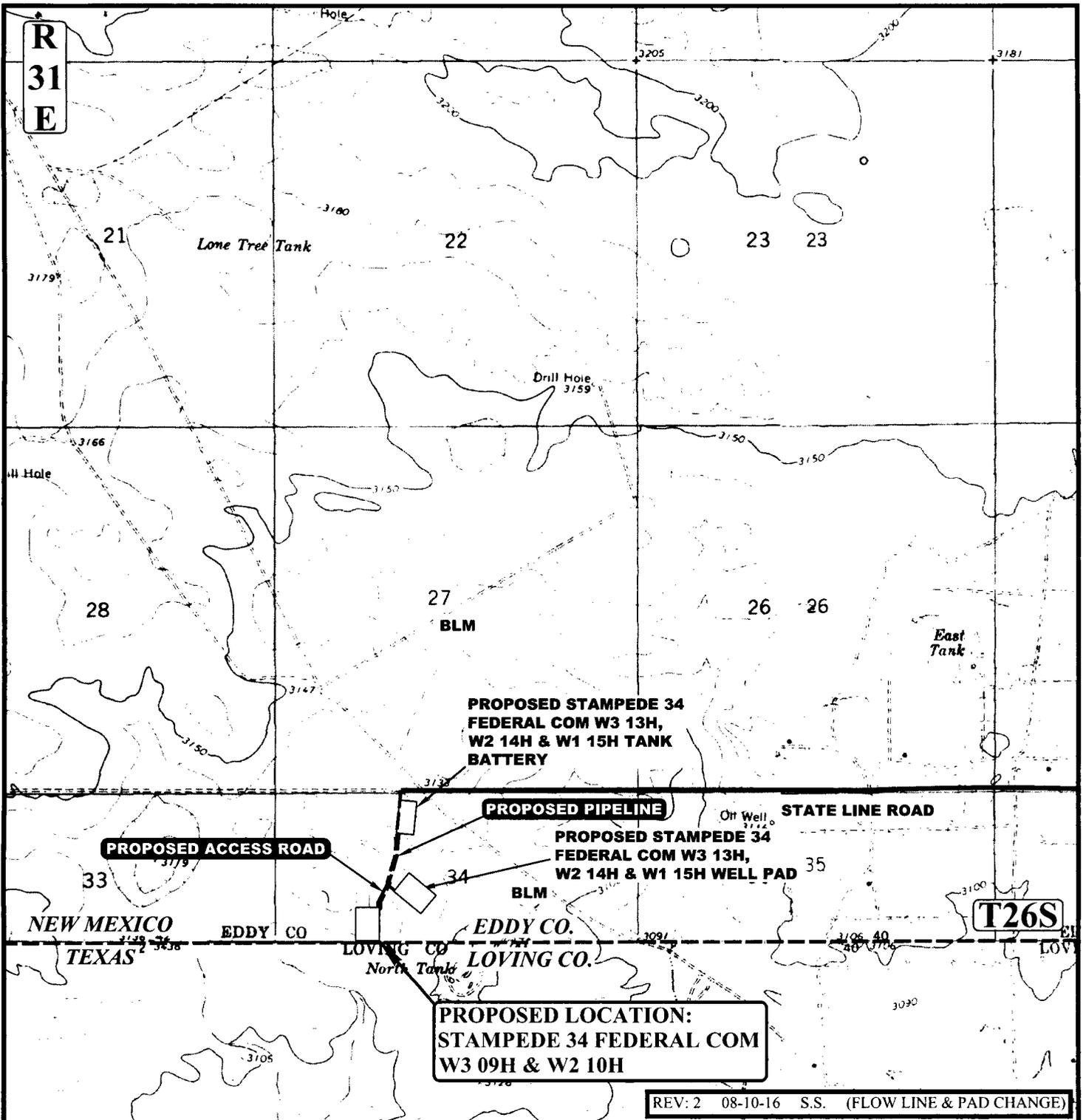
DRAWN BY: M.L.

DATE DRAWN: 06-26-14

**ROAD DESCRIPTION**



UELS, LLC  
Corporate Office \* 85 South 200 East  
Vernal, UT 84078 \* (435) 789-1017



**APPROXIMATE TOTAL FLOW LINE DISTANCE = 1,174' +/-**

NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

**LEGEND:**

- PROPOSED ROAD
- EXISTING FLOW LINE
- PROPOSED FLOW LINE

**ConocoPhillips Company**

**STAMPEDE 34 FEDERAL COM W3 09H, & W2 10H  
LOT 3 SECTION 34, T26S, R31E, N.M.P.M.  
EDDY COUNTY, NEW MEXICO**

DRAWN BY: M.L.

DATE DRAWN: 06-26-14

SCALE: 1 : 24,000

**PIPELINE MAP**

**TOPO D**



**UELS, LLC**  
Corporate Office \* 85 South 200 East  
Vernal, UT 84078 \* (435) 789-1017

Sec. 27

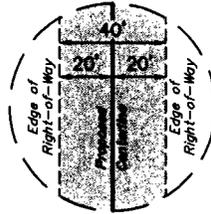
SW 1/4

BLM

State Line Road

Section Line

S89°58'06"W - 2662.08' (Meas.)



**TYPICAL  
RIGHT-OF-WAY  
DETAIL STA. 4+22.90  
TO STA. 11+73.69**  
NO SCALE

Section Line  
N00°00'35"E - 2172.87' (Meas. to True)  
N00°00'35"E - 2173.06' (Meas. to C.C.)

LINE TABLE			LINE TABLE		
LINE	DIRECTION	LENGTH	LINE	DIRECTION	LENGTH
L1	S89°28'28"E	20.36'	L5	N43°48'41"W	17.09'
L2	N00°04'48"E	90.01'	L6	N17°06'04"E	373.95'
L3	N26°47'10"E	149.92'	L7	N05°09'46"E	359.75'
L4	N26°42'36"E	162.61'			

BLM

Proposed Access Road  
for the Stampede 34  
Federal COM W3 13H, W2  
14H & W1 15H Well Pad

Proposed Stampede  
34 Federal COM W3  
13H, W2 14H & W1  
15H Tank Battery

**END OF PROPOSED  
FLOW LINE RIGHT-OF-WAY  
STA. 11+73.69**  
(At Proposed Stampede 34  
Federal COM W3 13H, W2 14H  
& W1 15H Tank Battery)

Right-of-Way  
Width Change  
Sta. 4+22.90

- NW 1/4

**BEGINNING OF PROPOSED  
FLOW LINE RIGHT-OF-WAY  
STA. 0+00**  
(At Edge of Proposed  
Stampede 34 Federal COM  
W3 09H & W2 10H Well Pad)

Proposed Access Road

Sec. 34

LOT 3

LOT 4  
BLM

BLM

Proposed Stampede 34  
Federal COM W3 09H  
& W2 10H Well Pad

Proposed Stampede 34  
Federal COM W3 13H,  
W2 14H & W1 15H Well Pad

1812.26'  
M.M.  
42

NEW  
MEXICO T26S

2662.02'

EDDY CO.

M.M.  
41

TEXAS

LOVING CO. 810.30'

S89°59'14"W - 5284.58' (Meas.)

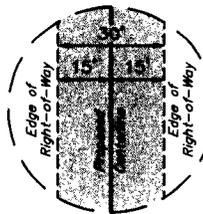
**FLOW LINE RIGHT-OF-WAY DESCRIPTION**

BEGINNING AT A POINT IN LOT 3 OF SECTION 34, T26S, R31E, N.M.P.M., WHICH BEARS N72°48'46"E 1669.45' FROM THE SOUTHWEST CLOSING CORNER OF SAID SECTION 34, THENCE A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE; S89°28'28"E 20.36'; THENCE N00°04'48"E 90.01'; THENCE N26°47'10"E 149.92'; THENCE N26°42'36"E 162.61' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 34, WHICH BEARS N63°51'13"E 1956.22' FROM THE SOUTHWEST CLOSING CORNER OF SAID 34, THENCE A 40' WIDE RIGHT-OF-WAY 20' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE; N43°48'41"W 17.09'; THENCE N17°06'04"E 373.95'; THENCE N05°09'46"E 359.75' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 34, WHICH BEARS S72°49'48"E 1974.16' FROM THE NORTHWEST CORNER OF SAID SECTION 34. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.981 ACRES MORE OR LESS.

BEGINNING OF FLOW LINE STA. 0+00 BEARS N72°48'46"E 1669.45' FROM THE SOUTHWEST CLOSING CORNER OF SECTION 34, T26S, R31E, N.M.P.M.

RIGHT-OF-WAY WIDTH CHANGE STA. 4+22.90 BEARS N63°51'13"E 1956.22' FROM THE SOUTHWEST CLOSING CORNER OF SECTION 34, T26S, R31E, N.M.P.M.

END OF FLOW LINE STA. 11+73.69 BEARS S72°49'48"E 1974.16' FROM THE NORTHWEST CORNER OF SECTION 34, T26S, R31E, N.M.P.M.



**TYPICAL  
RIGHT-OF-WAY  
DETAIL STA. 0+00  
TO STA. 4+22.90**  
NO SCALE



**RIGHT-OF-WAY LENGTHS**

PROPERTY OWNER	FEET	ACRES	RODS
BLM NW 1/4 SEC. 34	1173.69	0.981	71.13

THIS IS TO CERTIFY THAT THE ABOVE PLANS AND MEASUREMENTS FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CERTIFICATE OF PROFESSIONAL SURVEYOR

REGISTRATION NO. 12446  
STATE OF NEW MEXICO  
08-15-16

REV: 1 08-07-16 S.F. (PAD SIZE/FLOW LINE CHANGE)

▲ = SECTION CORNERS LOCATED.

NOTES:



**ConocoPhillips Company**

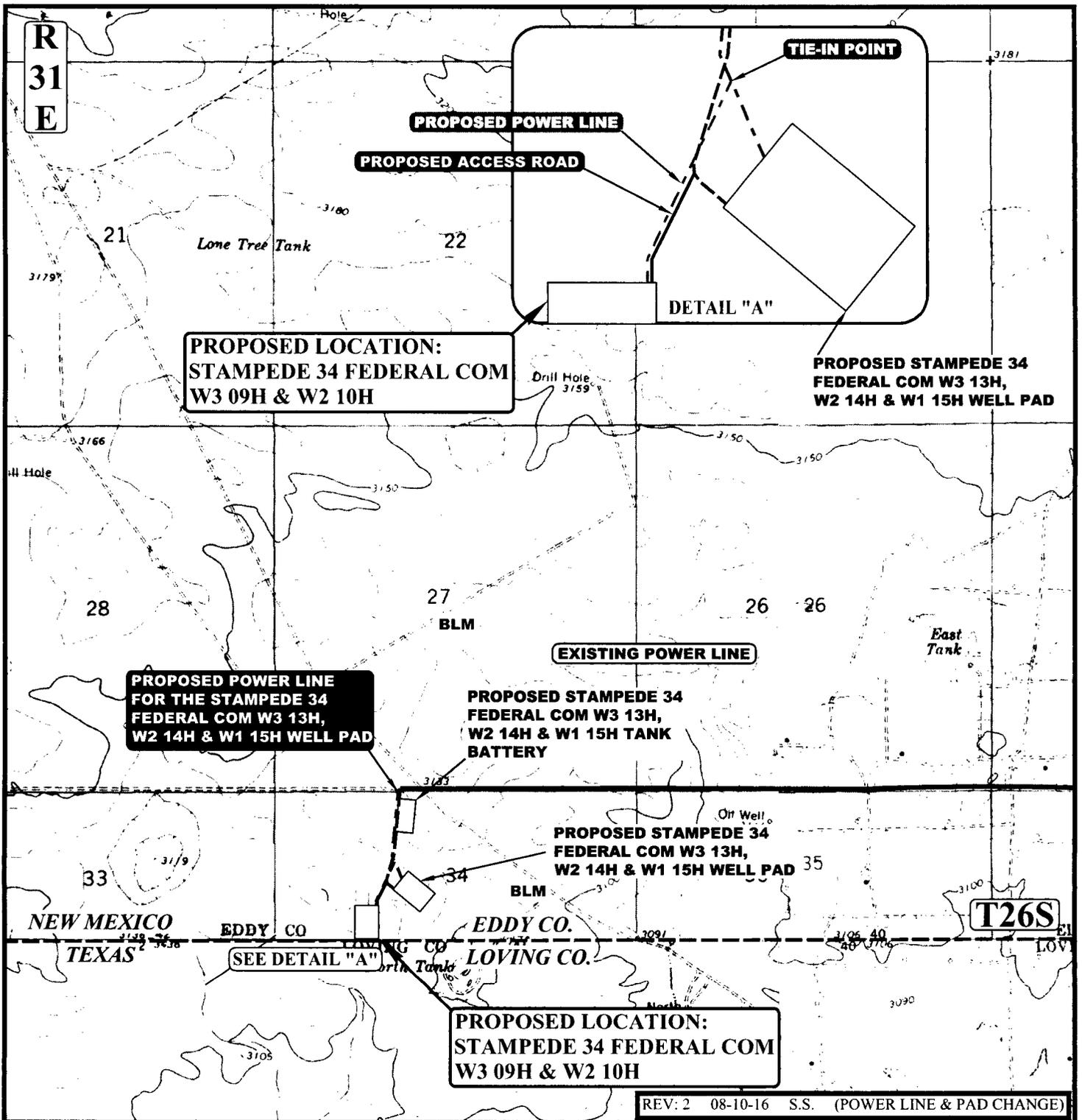
**STAMPEDE 34 FEDERAL COM W3 09H & W2 10H  
LOT 3, SECTION 34, T26S, R31E, N.M.P.M.  
EDDY COUNTY, NEW MEXICO**

SURVEYED BY	J.A.V.	07-14-14	SCALE
DRAWN BY	S.F.	08-05-14	1" = 400'

**FLOW LINE R-O-W**



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Corporate Office \* 85 South 200 East  
Vernal, UT 84078 \* (435) 789-1017



**PROPOSED LOCATION:  
STAMPEDE 34 FEDERAL COM  
W3 09H & W2 10H**

**PROPOSED STAMPEDE 34  
FEDERAL COM W3 13H,  
W2 14H & W1 15H WELL PAD**

**PROPOSED POWER LINE  
FOR THE STAMPEDE 34  
FEDERAL COM W3 13H,  
W2 14H & W1 15H WELL PAD**

**PROPOSED STAMPEDE 34  
FEDERAL COM W3 13H,  
W2 14H & W1 15H TANK  
BATTERY**

**PROPOSED STAMPEDE 34  
FEDERAL COM W3 13H,  
W2 14H & W1 15H WELL PAD**

**PROPOSED LOCATION:  
STAMPEDE 34 FEDERAL COM  
W3 09H & W2 10H**

REV: 2 08-10-16 S.S. (POWER LINE & PAD CHANGE)

**APPROXIMATE TOTAL POWER LINE DISTANCE = 705' +/-**

NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

- LEGEND:**
- PROPOSED ROAD
  - - - PROPOSED POWER LINE
  - - - PROPOSED PIPELINE (SERVICING OTHER WELLS)



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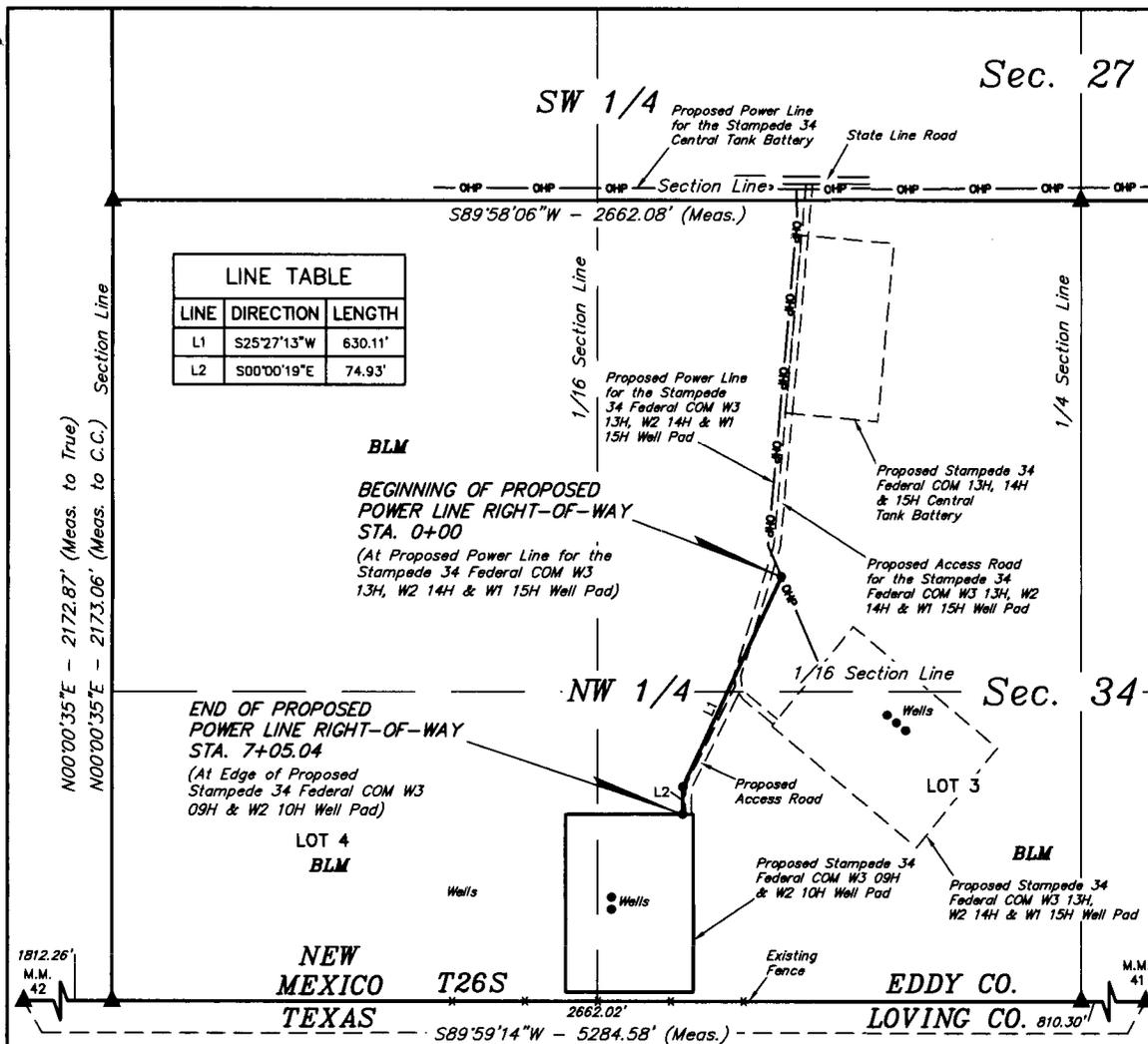


**ConocoPhillips Company**

**STAMPEDE 34 FEDERAL COM W3 09H, & W2 10H  
LOT 3 SECTION 34, T26S, R31E, N.M.P.M.  
EDDY COUNTY, NEW MEXICO**

DRAWN BY: Z.H.F.	DATE DRAWN: 08-19-14
SCALE: 1 : 24,000	

**POWER LINE MAP TOPO E**



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S25°27'13"W	630.11'
L2	S00°00'19"E	74.93'

BLM

**BEGINNING OF PROPOSED POWER LINE RIGHT-OF-WAY STA. 0+00**

(At Proposed Power Line for the Stampede 34 Federal COM W3 13H, W2 14H & W1 15H Well Pad)

**END OF PROPOSED POWER LINE RIGHT-OF-WAY STA. 7+05.04**

(At Edge of Proposed Stampede 34 Federal COM W3 09H & W2 10H Well Pad)

LOT 4  
BLM

NEW MEXICO T26S

EDDY CO.

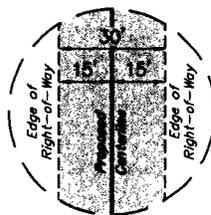
**POWER LINE RIGHT-OF-WAY DESCRIPTION**

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING IN THE NE 1/4 NW 1/4 OF SECTION 34, T26S, R31E, N.M.P.M., WHICH BEARS S60°55'23"E 2100.47' FROM THE NORTHWEST CORNER OF SAID SECTION 34, THENCE S25°27'13"W 630.11'; THENCE S00°00'19"E 74.93' TO A POINT IN LOT 3 OF SAID SECTION 34, WHICH BEARS N72°00'25"E 1645.80' FROM THE SOUTHWEST CLOSING CORNER OF SAID SECTION 34. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.486 ACRES MORE OR LESS.

BEGINNING OF POWER LINE STA. 0+00 BEARS S60°55'23"E 2100.47' FROM THE NORTHWEST CORNER OF SECTION 34, T26S, R31E, N.M.P.M.

END OF POWER LINE STA. 7+05.04 BEARS N72°00'25"E 1645.80' FROM THE SOUTHWEST CLOSING CORNER OF SECTION 34, T26S, R31E, N.M.P.M.



TYPICAL RIGHT-OF-WAY DETAIL NO SCALE



CERTIFICATE OF PROFESSIONAL SURVEYOR

THIS IS TO CERTIFY THAT THE ABOVE PLANS AND MEASUREMENTS FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Nelson Marshall*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 12446  
 STATE OF NEW MEXICO  
 08-15-16

RIGHT-OF-WAY LENGTHS			
PROPERTY OWNER	FEET	ACRES	RODS
BLM NW 1/4 SEC. 34	705.04	0.486	42.73

▲ = SECTION CORNERS LOCATED.

REV: 1 08-07-16 S.F. (PAD SIZE/POWER LINE CHANGE)

NOTES:



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ConocoPhillips Company

STAMPEDE 34 FEDERAL COM W3 09H & W2 10H  
 LOT 3, SECTION 34, T26S, R31E, N.M.P.M.  
 EDDY COUNTY, NEW MEXICO

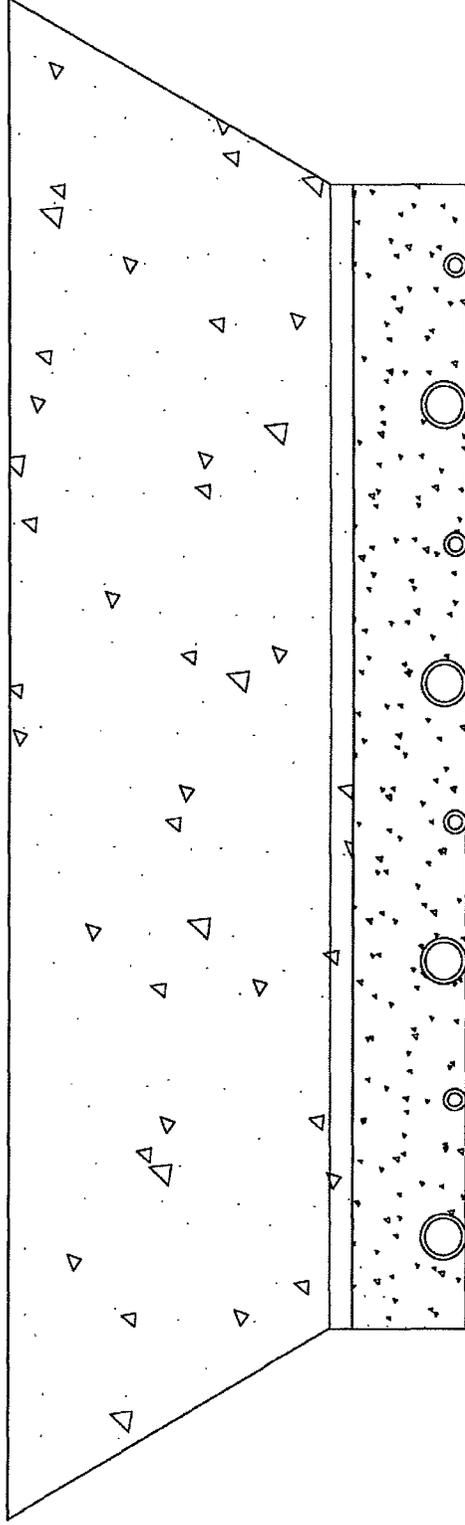
SURVEYED BY	J.A.V.	07-14-14	SCALE
DRAWN BY	S.F.	08-05-14	1" = 400'

POWER LINE R-O-W



# BACKFILL AROUND PIPE

STAMPEDE 34 FEDERAL COM W3 09H, STAMPEDE 34 FEDERAL COM W2  
10H, STAMPEDE 34 FEDERAL COM W1 11H, STAMPEDE 34 FEDERAL COM  
TC 12H



BACKFILL DIRT TO BE AS FREE OF ROCKS AND LARGE PARTICLES AS POSSIBLE

FLOW LINE WILL BE 4" COATED STEEL PIPE W/ AN OPERATING PRESSURE UP TO 1480# PSI.

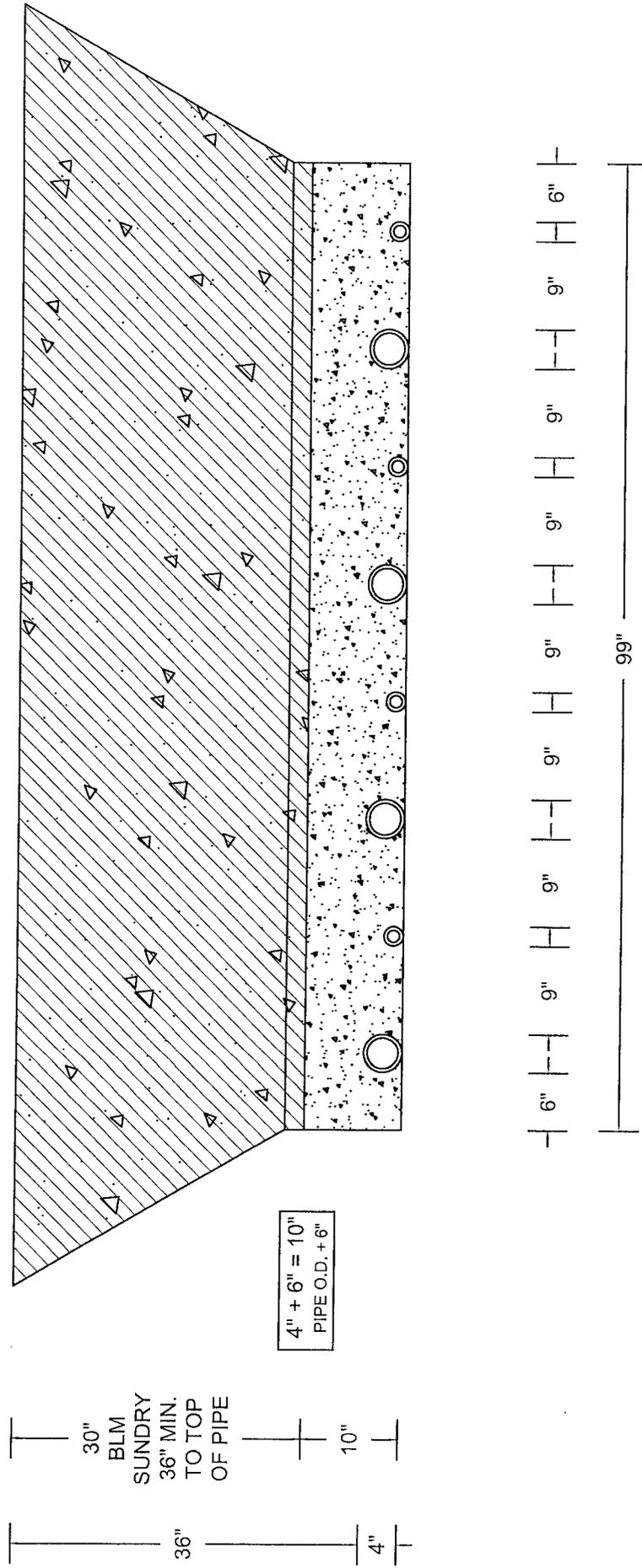
GAS SUPPLY LINE WILL BE 2" STEEL PIPE W/ AN OPERATING PRESSURE UP TO 1100# PSI.

SOFT FILL DIRT OR SAND WITH NO ROCKS OR SOLID PARTICLES GREATER THAN 1" IN CIRCUMFERENCE

# BACKFILL AROUND PIPE

STAMPEDE 34 FEDERAL COM W3 09H, STAMPEDE 34 FEDERAL COM W2 10H, STAMPEDE 34 FEDERAL COM W1 11H, STAMPEDE 34 FEDERAL COM

TC 12H



ALTERNATING 4" PIPE (FLOW LINE) +  
2" PIPE (GAS LIFT)

6" CLEARANCE AT BOTH ENDS

9" CLEARANCE BETWEEN EACH PIPE

TEMPORARY WATER TRANSFER LINE ROUTES

MAP 9



STAMPEDE 34 FEDERAL COM W3 9H-12H

Google earth

© 2014 Google

2 mi

Conoco Phillips

STAMPEDE 34 FEDERAL COM W3 9H

1 Mile Radius Map



POSTED WELL DATA

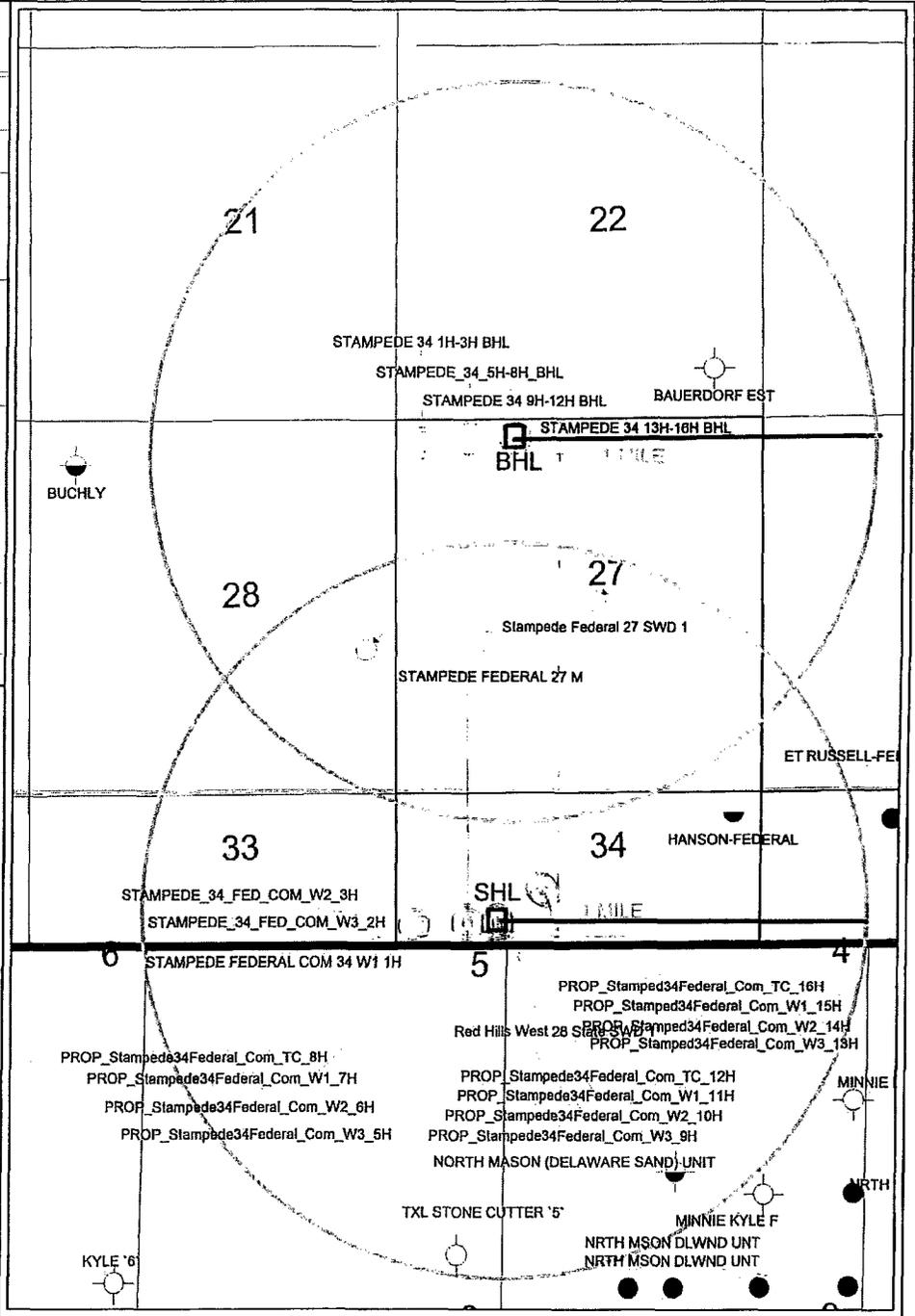
●  
Well Name

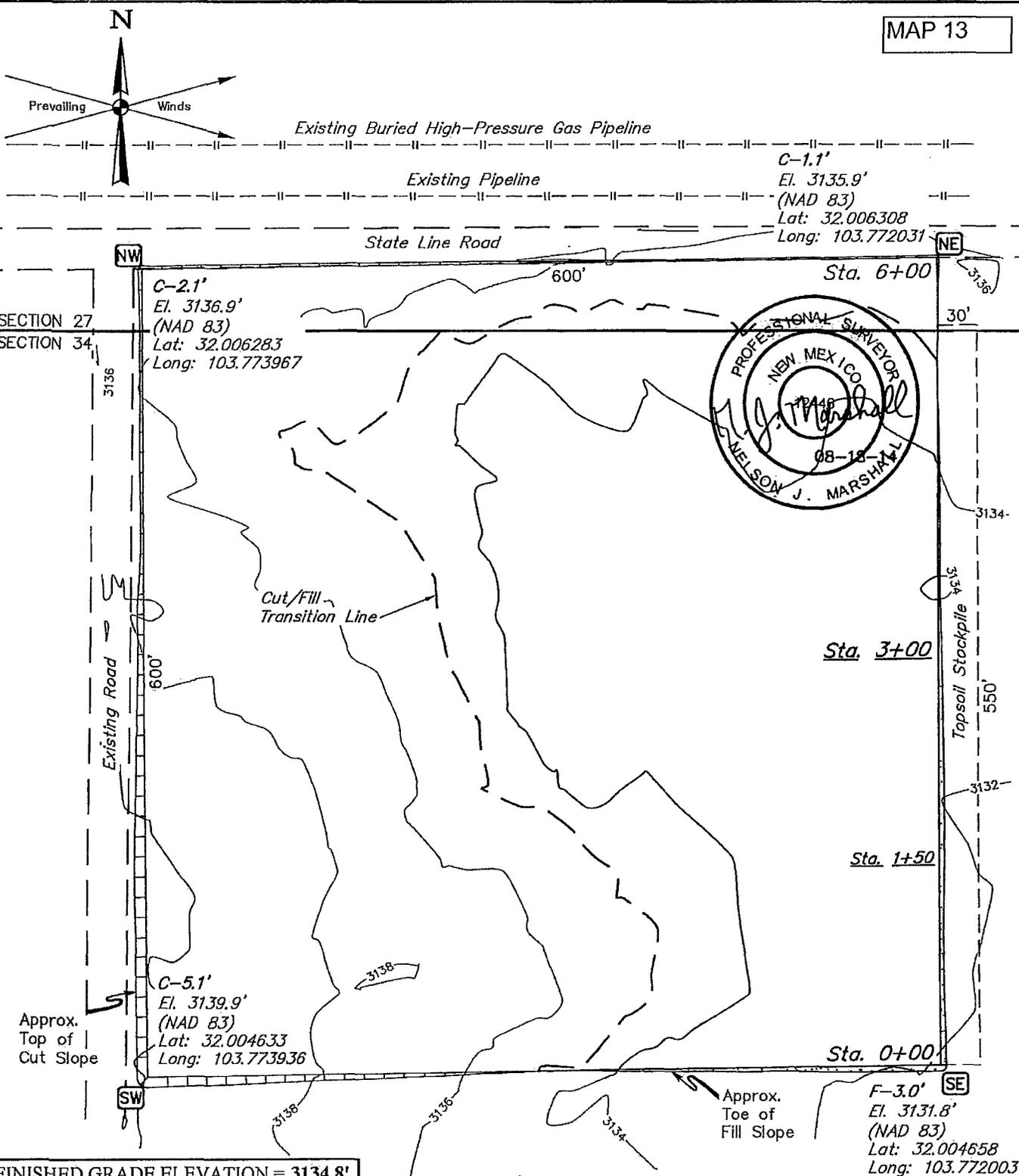
- WELL SYMBOLS
- Location Only
  - Oil Well
  - Dry Hole
  - Temporarily Abandoned
  - Dry Hole, With Show of Oil
  - Injection Well

REMARKS

PROP - signifies the proposed well head location.

October 10, 2014





**FINISHED GRADE ELEVATION = 3134.8'**

**NOTES:**

- Contours shown at 2' intervals.
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.

**ConocoPhillips Company**

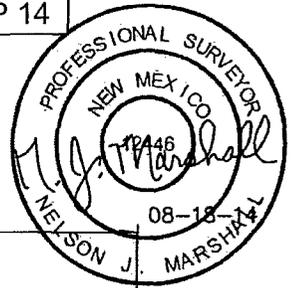
**STAMPEDE CENTRAL TANK BATTERY FACILITY PAD (EXPANSION) SECTIONS 27 & 34, T26S, R31E, N.M.P.M.**



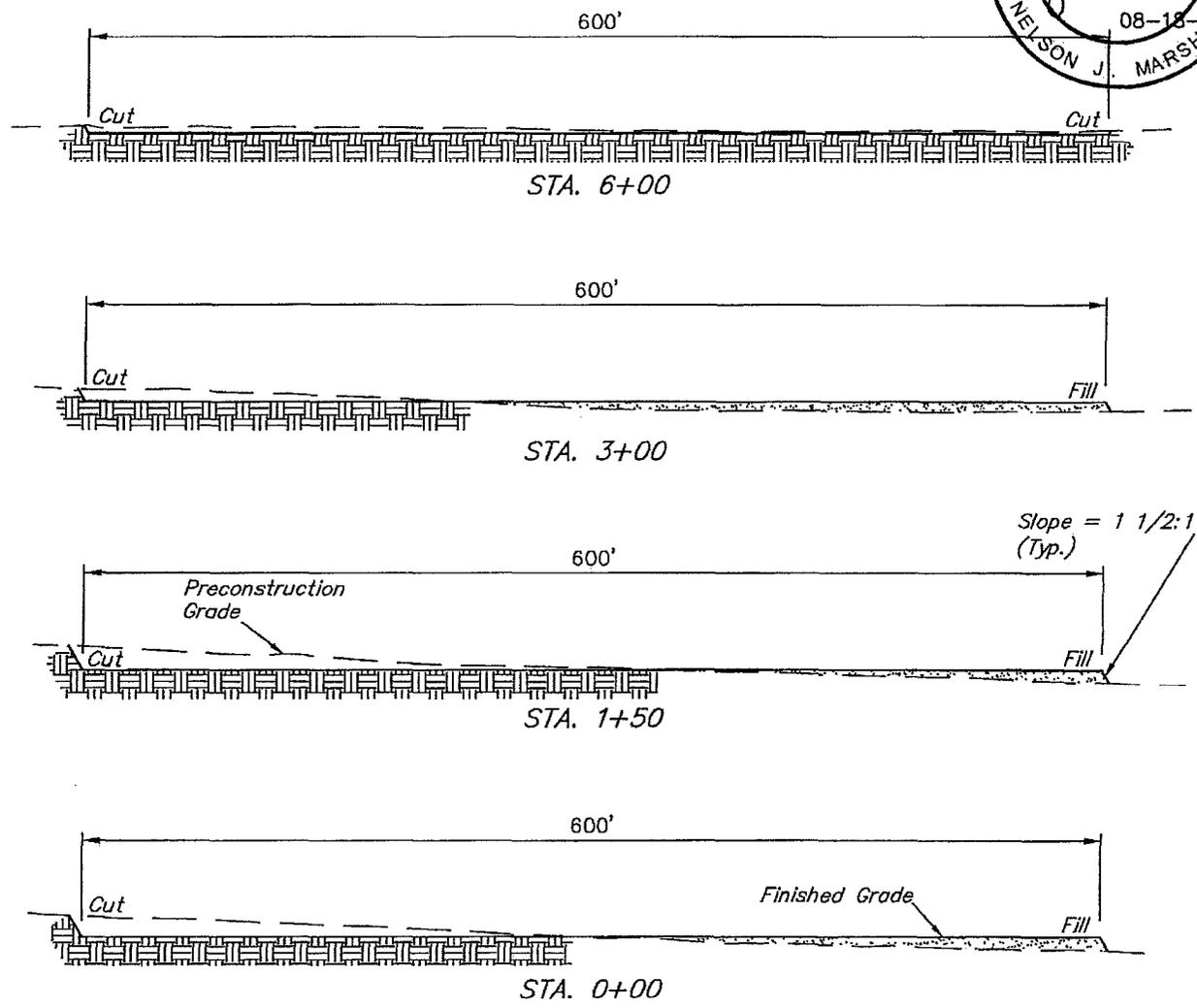
**UELS, LLC**  
 Corporate Office \* 85 South 200 East  
 Vernal, UT 84078 \* (435) 789-1017

DRAWN BY: S.F.	DATE DRAWN: 04-02-14
SCALE: 1" = 100'	REVISED: 08-18-14 S.F.
<b>LOCATION LAYOUT</b>	
<b>FIGURE #1</b>	

MAP 14



1" = 40'  
X-Section  
Scale  
1" = 100'



APPROXIMATE EARTHWORK QUANTITIES	
(3") TOPSOIL STRIPPING	3,410 Cu. Yds.
REMAINING LOCATION	10,540 Cu. Yds.
<b>TOTAL CUT</b>	<b>13,950 Cu. Yds.</b>
<b>FILL</b>	<b>10,540 Cu. Yds.</b>
EXCESS MATERIAL	3,410 Cu. Yds.
TOPSOIL	3,410 Cu. Yds.
<b>EXCESS UNBALANCE</b> (After Interim Rehabilitation)	<b>0 Cu. Yds.</b>

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	ACRES
WELL SITE DISTURBANCE	NA	±8.441
50' WIDE PIPELINE R-O-W DISTURBANCE	±86.93'	±0.100
<b>TOTAL SURFACE USE AREA</b>	<b>±86.93'</b>	<b>±8.541</b>

**NOTES:**

- Fill quantity includes 5% for compaction.

**ConocoPhillips Company**

**STAMPEDE CENTRAL TANK BATTERY  
FACILITY PAD (EXPANSION)  
SECTIONS 27 & 34, T26S, R31E, N.M.P.M.**



**UELS, LLC**  
Corporate Office \* 85 South 200 East  
Vernal, UT 84078 \* (435) 789-1017

DRAWN BY: J.T.	DATE DRAWN: 04-02-14
SCALE: AS SHOWN	REVISED: 08-18-14 S.F.

**TYPICAL CROSS SECTIONS FIGURE #2**

BEGINNING AT THE INTERSECTION OF HIGHWAY 18 AND HIGHWAY 128 PROCEED IN A WESTERLY, THEN NORTHWESTERLY DIRECTION FROM JAL, NEW MEXICO ALONG HIGHWAY 128 APPROXIMATELY 30.0 MILES TO THE JUNCTION OF THIS ROAD AND J-1/ ORLA ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 15.2 MILES TO THE JUNCTION OF THIS ROAD AND AN STATE LINE ROAD TO THE WEST; TURN RIGHT AND PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 3.4 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM JAL, NEW MEXICO TO THE PROPOSED LOCATION IS APPROXIMATELY 48.6 MILES.

**ConocoPhillips Company**

**STAMPEDE 34 CENTRAL TANK BATTERY  
FACILITY PAD (EXPANSION)  
SECTIONS 27 & 34, T26S, R31E, N.M.P.M.**



**UELS, LLC**  
Corporate Office \* 85 South 200 East  
Vernal, UT 84078 \* (435) 789-1017

DRAWN BY: L.S.

DATE DRAWN: 04-02-14

REV: 08-18-14 Z.H.F.

**ROAD DESCRIPTION**

**ConocoPhillips, STAMPEDE 34 FEDERAL COM W3 09H**

**1. Geologic Formations**

TVD of target	12,234	Pilot hole depth	N/A
MD at TD:	19,170	Deepest expected fresh water:	300

**Basin**

<b>Formation</b>	<b>Depth (TVD) from KB</b>	<b>Water/Mineral Bearing/ Target Zone?</b>	<b>Hazards*</b>
Quaternary Fill	Surface	Water	
Base of Fresh Water	300	Water	
Rustler	980	Water	
Top of Salt / Salado	1,457	Salt	
Castile	1,690	Salt	
Delaware Top / Base Salt	3,940	Oil/Gas	Loss of Circulation
Ford Shale	4,090	Oil/Gas	
Cherry Canyon	4,885	Oil/Gas	Loss of Circulation
Brushy Canyon	6,270	Oil/Gas	Loss of Circulation
Bone Springs	7,660	Oil/Gas	
Bone Springs 3 <sup>rd</sup> Carb	9,925	Oil/Gas	
WolfCamp	11,157	Oil/Gas	
WolfCamp 1	11,285	Oil/Gas	
WolfCamp 2	11,690	Oil/Gas	
WolfCamp 3	12,155	Target Zone	

\*H2S, water flows, loss of circulation, abnormal pressures, etc.

**ConocoPhillips, STAMPEDE 34 FEDERAL COM W3 09H**

**2. Casing Program**

See COA

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.50"	0	<del>1,005</del> 955	13.375"	54.5	J55	BTC	2.38	5.74	18.09
12.25"	0	<del>4,114</del> 3930	9.625"	40.0	L80	BTC	1.43	2.67	6.60
8.75"	0	11,357	7.625"	33.7	P110	TenW523	1.43	1.98	3.26
6.625"	0	11,357	5.0"	21.4	P110	TenBLUE	2.05	1.97	3.64
	11,357	19,170	4.5"	15.1	P110	TXPBTC	1.54	1.55	3.35
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	Y
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back 500' into previous casing?	Y
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

**ConocoPhillips, STAMPEDE 34 FEDERAL COM W3 09H**

**3. Cementing Program**

Casing	# Sks	Wt. lb/gal	Yld ft <sup>3</sup> /sack	H <sub>2</sub> O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	590	13.7	1.68	8.684	7	Lead: Class C + 4.0% Bentonite + 0.2% Anti-Foam + 2.0% CaCl <sub>2</sub> + 0.125lb/sk LCM + 0.1% Dispersant.
	310	14.8	1.35	6.349	7	Tail: Class C + 0.2% Anti-Foam + 0.1% Lost Circ Control + 2 lbs/bbl CemNET (losses Control)
Inter. 1	1,010	11.9	2.58	15.392	10	Lead: Class C + 8.0% Bentonite + 0.2% Anti-Foam + 0.125lb/sk LCM + 0.2% Dispersant + 0.2% Retarder + 2 lbs/bbl CemNET (losses Control).
	420	14.8	1.35	6.199	5	Tail: Class C + 0.2% Anti-Foam + 0.3% Retarder + 0.5% Extender + 2 lbs/bbl CemNET (losses Control).
	DV/ECP Tool: NO					
Inter. 2	670	9.7	2.44	9.116	17	Lead: LiteCRETE + 22.0 lb/sk Extender + 0.2% Anti-Foam + 0.3% Retarder + 0.3% Fluid Loss + 0.3% Dispersant + 2 lbs/bbl CemNET (losses Control).
	140	13.2	1.53	7.474	8	Tail: TXI + 0.9% Gas Control + 9.0% Extender + 0.5% Dispersant + 0.5% Retarder + 0.2% Anti-Foam 0.25 lb/sk Lost Circ Control + 3.0% Expanding Agent + 2 lbs/bbl CemNET (losses Control).
	DV/ECP Tool 8,000' (OPTIONAL)					
	420	9.7	2.44	9.116	17	Lead: LiteCRETE + 22.0 lb/sk Extender + 0.2% Anti-Foam + 0.3% Retarder + 0.3% Fluid Loss + 0.3% Dispersant + 2 lbs/bbl CemNET (losses Control).
Prod.	1,530	16.4	1.07	4.464	5	Tail: Class H + 1.800 gal/sk Gas Control Agent + 0.025 gal/sk Dispersant + 0.080 gal/sk Retarder + 0.030 gal/sk Anti-Foam.
	DV/ECP Tool NO'					

*See C&A*

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

**ConocoPhillips, STAMPEDE 34 FEDERAL COM W3 09H**

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate 1	0'	120%
Intermediate 2	<del>3,514'</del> See COA	100%
Production	10,357'	35%

Include Pilot Hole Cementing specs: NO PILOT HOLE.  
**Pilot hole depth N/A**  
**KOP**

Plug top	Plug Bottom	% Excess	No. Sacks	Wt. lb/gal	Yld ft <sup>3</sup> /sack	Water gal/sk	Slurry Description and Cement Type

**4. Pressure Control Equipment**

<b>N</b>	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
----------	--

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12-1/4"	13-5/8"	5M	Annular	x	50% of working pressure
			Blind Ram	x	
			Pipe Ram	x	
			Double Ram	x	
			Other*		
8-3/4"	13-5/8"	5M	Annular	x	50% testing pressure
			Blind Ram	x	
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-5/8"	13-5/8"	10M	Annular	x	50% testing pressure
			Blind Ram	x	
			Pipe Ram	x	
			Double Ram	x	
			Other*		

*See COA*

\*Specify if additional ram is utilized.

**ConocoPhillips, STAMPEDE 34 FEDERAL COM W3 09H**

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

X	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
See COA	X A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
	Y/N Are anchors required by manufacturer?
See COA	X A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.
	<ul style="list-style-type: none"> <li>Provide description here</li> </ul> <p>See attached schematic.</p>

**5. Mud Program**

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	1,005 <del>955'</del>	Spud Mud	8.6-9.3	32-36	N/C
<del>1,005</del>	<del>4,114</del> <del>3930'</del>	Brine	9.3-10.2	28-30	≤5
<del>4,114</del>	11,357	Cut Brine	8.6-9.2	30-40	≤5
11,357	19,170	Oil Base Mud	12.0-15.0	30-40	≤5

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
---	-----------------------------

**6. Logging and Testing Procedures**

<b>Logging, Coring and Testing.</b>	
x	GR from 200' above KOP to TD (GR as part of the BHA while drilling). Not log in the lateral.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain
x	Dry samples taken 30' from intermediate 1 casing point to TD. GC Tracers KOP to TD.

<b>Additional logs planned</b>	<b>Interval</b>
Resistivity	
Density	
CBL	
Mud log	
PEX	

**7. Drilling Conditions**

<b>Condition</b>	<b>Specify what type and where?</b>
BH Pressure at deepest TVD	6,851 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
<input type="checkbox"/>	H2S is present
<input checked="" type="checkbox"/>	H2S Plan attached

## 8. Other facets of operation

Is this a walking operation? If yes, describe. Yes, please see below.

Will be pre-setting casing? If yes, describe. Yes, please see below.

**Spudder Rig and Skid Operations:** Depending on rig availability, ConocoPhillips may pre-set the surface casing. The reasons for using the spudder rig to drill and pre-set surface casing are: Time & Cost Saving.

The "Pinnergy #1" Rig will be used to drill the surface hole and pre-set surface casing on all of the wells in the same pad. Once each surface hole section has been drilled, it will be cased and cemented according to all applicable rules and regulations (Onshore Orders). The wellhead will be nipped up and tested as soon as 13-3/8" surface casing is cut off after the applicable WOC time has been reached. A blind flange of the same pressure rating as the wellhead will be utilized to seal the wellbore on all casing strings. Pressure will be monitored via wing valves on each wellhead section and a means for intervention will be maintained while the drilling rig is not over the well. Spudder rig operation is expected to take 7-10 days for a quad pad and 4-6 days for a dual pad. The BLM will be contacted / notified 24 hours prior to commencing spudder rig operations.

Drilling operation will start with a big Drilling Rig (H&P Flex 3 rig type) and an approved BOP stack will be nipped up and tested on the wellhead before drilling operations resumes on each well. The rig will skid between the wells until each well's section has been drilled as planned (see Attachment #10). The BLM will be contacted / notified 24 hours before the big rig moves back on the location.

Once "Spudder Rig" has left the location, The "big Drilling Rig" will be on location within 90 days to drill each well in the Pad as batch drilling operations.

### Attachments:

- Attachment#1: Directional Plan.
- Attachment#2: Wellbore Casing & Cementing Schematic.
- Attachment#3: WellHead Schematic.
- Attachment #4: BOP Schematic.
- Attachment #5: Choke Schematic.
- Attachment #6: Special (Premium) Connections.
- Attachment #7: Flex Hose Documentation.
- Attachment #8: Spudder Rig Specifications.
- Attachment #9: WellHead Schematic for Pre-set Surface.
- Attachment #10: Skid-Batch Drilling Operations.

See  
COA

# Attachment #1



NM OIL CONSERVATION  
ARTESIA DISTRICT

DEC 22 2016

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## ConocoPhillips

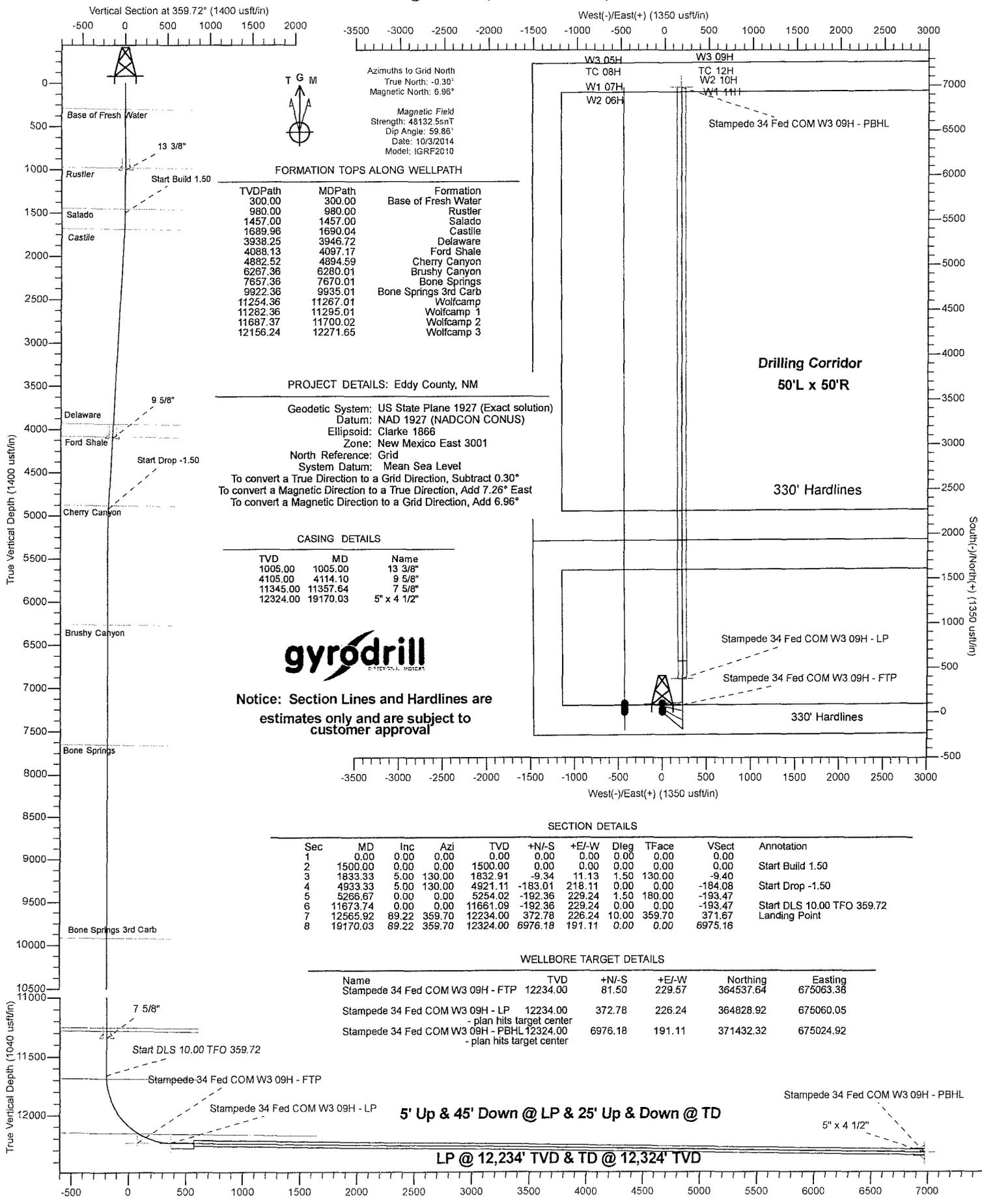
Eddy County, NM  
Stampede 34 Fed COM W3 09H  
W3 09H

Original Hole

Plan: Design #1

## Standard Planning Report

06 October, 2014



Azimuths to Grid North  
 True North: -0.36°  
 Magnetic North: 6.96°

Magnetic Field  
 Strength: 48132.5nT  
 Dip Angle: 59.86°  
 Date: 10/3/2014  
 Model: IGRF2010

**FORMATION TOPS ALONG WELLPATH**

TVDPath	MDPath	Formation
300.00	300.00	Base of Fresh Water
980.00	980.00	Rustler
1457.00	1457.00	Salado
1689.96	1690.04	Castile
3938.25	3946.72	Delaware
4088.13	4097.17	Ford Shale
4882.52	4894.59	Cherry Canyon
6267.36	6280.01	Brushy Canyon
7657.36	7670.01	Bone Springs
9922.36	9935.01	Bone Springs 3rd Carb
11254.36	11267.01	Wolfcamp
11282.36	11295.01	Wolfcamp 1
11687.37	11700.02	Wolfcamp 2
12156.24	12271.65	Wolfcamp 3

**PROJECT DETAILS: Eddy County, NM**

Geodetic System: US State Plane 1927 (Exact solution)  
 Datum: NAD 1927 (NADCON CONUS)  
 Ellipsoid: Clarke 1866  
 Zone: New Mexico East 3001  
 North Reference: Grid  
 System Datum: Mean Sea Level

To convert a True Direction to a Grid Direction, Subtract 0.30°  
 To convert a Magnetic Direction to a True Direction, Add 7.26° East  
 To convert a Magnetic Direction to a Grid Direction, Add 6.96°

**CASING DETAILS**

TVD	MD	Name
1005.00	1005.00	13 3/8"
4105.00	4114.10	9 5/8"
11345.00	11357.64	7 5/8"
12324.00	19170.03	5" x 4 1/2"



**Notice: Section Lines and Hardlines are estimates only and are subject to customer approval**

**SECTION DETAILS**

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
3	1833.33	5.00	130.00	1832.91	-9.34	11.13	1.50	130.00	-9.40	
4	4933.33	5.00	130.00	4921.11	-183.01	218.11	0.00	0.00	-184.08	Start Drop -1.50
5	5266.67	0.00	0.00	5254.02	-192.36	229.24	1.50	180.00	-193.47	
6	11673.74	0.00	0.00	11661.09	-192.36	229.24	0.00	0.00	-193.47	Start DLS 10.00 TFO 359.72
7	12565.92	89.22	359.70	12234.00	372.78	226.24	10.00	359.70	371.67	Landing Point
8	19170.03	89.22	359.70	12324.00	6976.18	191.11	0.00	0.00	6975.16	

**WELLBORE TARGET DETAILS**

Name	TVD	+N/-S	+E/-W	Northing	Easting
Stampede 34 Fed COM W3 09H - FTP	12234.00	81.50	229.57	364537.64	675063.38
Stampede 34 Fed COM W3 09H - LP - plan hits target center	12234.00	372.78	226.24	364828.92	675060.05
Stampede 34 Fed COM W3 09H - PBHL - plan hits target center	12324.00	6976.18	191.11	371432.32	675024.92

**5' Up & 45' Down @ LP & 25' Up & Down @ TD**

**LP @ 12,324' TVD & TD @ 12,324' TVD**

Database: Gyrodata NWDB  
 Company: ConocoPhillips  
 Project: Eddy County, NM  
 Site: Stampede 34 Fed COM W3 09H  
 Well: W3 09H  
 Wellbore: Original Hole  
 Design: Design #1

Local Co-ordinate Reference: Well W3 09H  
 TVD Reference: Well @ 3160.80usft (RKB: 25' + GL: 3135.8')  
 MD Reference: Well @ 3160.80usft (RKB: 25' + GL: 3135.8')  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

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

<b>Site</b>	Stampede 34 Fed COM W3 09H				
<b>Site Position:</b>		<b>Northing:</b>	364,456.14 usft	<b>Latitude:</b>	32° 0' 2.70 N
<b>From:</b>	Map	<b>Easting:</b>	674,833.81 usft	<b>Longitude:</b>	103° 46' 9.63 W
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13.20 in	<b>Grid Convergence:</b>	0.30 °

<b>Well</b>	W3 09H					
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	364,456.14 usft	<b>Latitude:</b>	32° 0' 2.70 N
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	674,833.81 usft	<b>Longitude:</b>	103° 46' 9.63 W
<b>Position Uncertainty</b>		0.00 usft	<b>Wellhead Elevation:</b>	0.00 usft	<b>Ground Level:</b>	3,135.80 usft

<b>Wellbore</b>	Original Hole				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	10/3/2014	7.26	59.86	48,133

<b>Design</b>	Design #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00	
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	359.72	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,833.33	5.00	130.00	1,832.91	-9.34	11.13	1.50	1.50	0.00	130.00	
4,933.33	5.00	130.00	4,921.11	-183.01	218.11	0.00	0.00	0.00	0.00	
5,266.67	0.00	0.00	5,254.02	-192.36	229.24	1.50	-1.50	0.00	180.00	
11,673.74	0.00	0.00	11,661.09	-192.36	229.24	0.00	0.00	0.00	0.00	
12,565.93	89.22	359.70	12,234.00	372.78	226.24	10.00	10.00	-0.03	359.70	
19,170.03	89.22	359.70	12,324.00	6,976.18	191.11	0.00	0.00	0.00	0.00	Stampede 34 Fed CO

Database: Gyrodata NWDB  
 Company: ConocoPhillips  
 Project: Eddy County, NM  
 Site: Stampede 34 Fed COM W3 09H  
 Well: W3 09H  
 Wellbore: Original Hole  
 Design: Design #1

Local Co-ordinate Reference: Well W3 09H  
 TVD Reference: Well @ 3160.80usft (RKB: 25' + GL: 3135.8')  
 MD Reference: Well @ 3160.80usft (RKB: 25' + GL: 3135.8')  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

**Planned Survey**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
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	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	1.50	130.00	1,599.99	-0.84	1.00	-0.85	1.50	1.50	0.00
1,700.00	3.00	130.00	1,699.91	-3.36	4.01	-3.38	1.50	1.50	0.00
1,800.00	4.50	130.00	1,799.69	-7.57	9.02	-7.61	1.50	1.50	0.00
1,833.33	5.00	130.00	1,832.91	-9.34	11.13	-9.40	1.50	1.50	0.00
1,900.00	5.00	130.00	1,899.32	-13.08	15.59	-13.15	0.00	0.00	0.00
2,000.00	5.00	130.00	1,998.94	-18.68	22.26	-18.79	0.00	0.00	0.00
2,100.00	5.00	130.00	2,098.56	-24.28	28.94	-24.42	0.00	0.00	0.00
2,200.00	5.00	130.00	2,198.18	-29.88	35.62	-30.06	0.00	0.00	0.00
2,300.00	5.00	130.00	2,297.80	-35.49	42.29	-35.69	0.00	0.00	0.00
2,400.00	5.00	130.00	2,397.42	-41.09	48.97	-41.33	0.00	0.00	0.00
2,500.00	5.00	130.00	2,497.04	-46.69	55.64	-46.96	0.00	0.00	0.00
2,600.00	5.00	130.00	2,596.66	-52.29	62.32	-52.60	0.00	0.00	0.00
2,700.00	5.00	130.00	2,696.28	-57.90	69.00	-58.23	0.00	0.00	0.00
2,800.00	5.00	130.00	2,795.90	-63.50	75.67	-63.87	0.00	0.00	0.00
2,900.00	5.00	130.00	2,895.52	-69.10	82.35	-69.50	0.00	0.00	0.00
3,000.00	5.00	130.00	2,995.14	-74.70	89.03	-75.14	0.00	0.00	0.00
3,100.00	5.00	130.00	3,094.76	-80.31	95.70	-80.77	0.00	0.00	0.00
3,200.00	5.00	130.00	3,194.38	-85.91	102.38	-86.41	0.00	0.00	0.00
3,300.00	5.00	130.00	3,294.00	-91.51	109.06	-92.04	0.00	0.00	0.00
3,400.00	5.00	130.00	3,393.62	-97.11	115.73	-97.68	0.00	0.00	0.00
3,500.00	5.00	130.00	3,493.23	-102.71	122.41	-103.31	0.00	0.00	0.00
3,600.00	5.00	130.00	3,592.85	-108.32	129.09	-108.95	0.00	0.00	0.00
3,700.00	5.00	130.00	3,692.47	-113.92	135.76	-114.58	0.00	0.00	0.00
3,800.00	5.00	130.00	3,792.09	-119.52	142.44	-120.22	0.00	0.00	0.00
3,900.00	5.00	130.00	3,891.71	-125.12	149.12	-125.85	0.00	0.00	0.00
4,000.00	5.00	130.00	3,991.33	-130.73	155.79	-131.49	0.00	0.00	0.00
4,100.00	5.00	130.00	4,090.95	-136.33	162.47	-137.12	0.00	0.00	0.00
4,200.00	5.00	130.00	4,190.57	-141.93	169.15	-142.75	0.00	0.00	0.00
4,300.00	5.00	130.00	4,290.19	-147.53	175.82	-148.39	0.00	0.00	0.00
4,400.00	5.00	130.00	4,389.81	-153.13	182.50	-154.02	0.00	0.00	0.00
4,500.00	5.00	130.00	4,489.43	-158.74	189.18	-159.66	0.00	0.00	0.00
4,600.00	5.00	130.00	4,589.05	-164.34	195.85	-165.29	0.00	0.00	0.00
4,700.00	5.00	130.00	4,688.67	-169.94	202.53	-170.93	0.00	0.00	0.00
4,800.00	5.00	130.00	4,788.29	-175.54	209.20	-176.56	0.00	0.00	0.00
4,900.00	5.00	130.00	4,887.91	-181.15	215.88	-182.20	0.00	0.00	0.00
4,933.33	5.00	130.00	4,921.11	-183.01	218.11	-184.08	0.00	0.00	0.00
5,000.00	4.00	130.00	4,987.57	-186.38	222.11	-187.46	1.50	-1.50	0.00
5,100.00	2.50	130.00	5,087.41	-190.02	226.46	-191.12	1.50	-1.50	0.00

Database: Gyrodata NWDB  
 Company: ConocoPhillips  
 Project: Eddy County, NM  
 Site: Stampede 34 Fed COM W3 09H  
 Well: W3 09H  
 Wellbore: Original Hole  
 Design: Design #1

Local Co-ordinate Reference: Well W3 09H  
 TVD Reference: Well @ 3160.80usft (RKB: 25' + GL: 3135.8')  
 MD Reference: Well @ 3160.80usft (RKB: 25' + GL: 3135.8')  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

**Planned Survey**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,200.00	1.00	130.00	5,187.36	-191.98	228.80	-193.10	1.50	-1.50	0.00
5,266.67	0.00	0.00	5,254.02	-192.36	229.24	-193.47	1.50	-1.50	0.00
5,300.00	0.00	0.00	5,287.36	-192.36	229.24	-193.47	0.00	0.00	0.00
5,400.00	0.00	0.00	5,387.36	-192.36	229.24	-193.47	0.00	0.00	0.00
5,500.00	0.00	0.00	5,487.36	-192.36	229.24	-193.47	0.00	0.00	0.00
5,600.00	0.00	0.00	5,587.36	-192.36	229.24	-193.47	0.00	0.00	0.00
5,700.00	0.00	0.00	5,687.36	-192.36	229.24	-193.47	0.00	0.00	0.00
5,800.00	0.00	0.00	5,787.36	-192.36	229.24	-193.47	0.00	0.00	0.00
5,900.00	0.00	0.00	5,887.36	-192.36	229.24	-193.47	0.00	0.00	0.00
6,000.00	0.00	0.00	5,987.36	-192.36	229.24	-193.47	0.00	0.00	0.00
6,100.00	0.00	0.00	6,087.36	-192.36	229.24	-193.47	0.00	0.00	0.00
6,200.00	0.00	0.00	6,187.36	-192.36	229.24	-193.47	0.00	0.00	0.00
6,300.00	0.00	0.00	6,287.36	-192.36	229.24	-193.47	0.00	0.00	0.00
6,400.00	0.00	0.00	6,387.36	-192.36	229.24	-193.47	0.00	0.00	0.00
6,500.00	0.00	0.00	6,487.36	-192.36	229.24	-193.47	0.00	0.00	0.00
6,600.00	0.00	0.00	6,587.36	-192.36	229.24	-193.47	0.00	0.00	0.00
6,700.00	0.00	0.00	6,687.36	-192.36	229.24	-193.47	0.00	0.00	0.00
6,800.00	0.00	0.00	6,787.36	-192.36	229.24	-193.47	0.00	0.00	0.00
6,900.00	0.00	0.00	6,887.36	-192.36	229.24	-193.47	0.00	0.00	0.00
7,000.00	0.00	0.00	6,987.36	-192.36	229.24	-193.47	0.00	0.00	0.00
7,100.00	0.00	0.00	7,087.36	-192.36	229.24	-193.47	0.00	0.00	0.00
7,200.00	0.00	0.00	7,187.36	-192.36	229.24	-193.47	0.00	0.00	0.00
7,300.00	0.00	0.00	7,287.36	-192.36	229.24	-193.47	0.00	0.00	0.00
7,400.00	0.00	0.00	7,387.36	-192.36	229.24	-193.47	0.00	0.00	0.00
7,500.00	0.00	0.00	7,487.36	-192.36	229.24	-193.47	0.00	0.00	0.00
7,600.00	0.00	0.00	7,587.36	-192.36	229.24	-193.47	0.00	0.00	0.00
7,700.00	0.00	0.00	7,687.36	-192.36	229.24	-193.47	0.00	0.00	0.00
7,800.00	0.00	0.00	7,787.36	-192.36	229.24	-193.47	0.00	0.00	0.00
7,900.00	0.00	0.00	7,887.36	-192.36	229.24	-193.47	0.00	0.00	0.00
8,000.00	0.00	0.00	7,987.36	-192.36	229.24	-193.47	0.00	0.00	0.00
8,100.00	0.00	0.00	8,087.36	-192.36	229.24	-193.47	0.00	0.00	0.00
8,200.00	0.00	0.00	8,187.36	-192.36	229.24	-193.47	0.00	0.00	0.00
8,300.00	0.00	0.00	8,287.36	-192.36	229.24	-193.47	0.00	0.00	0.00
8,400.00	0.00	0.00	8,387.36	-192.36	229.24	-193.47	0.00	0.00	0.00
8,500.00	0.00	0.00	8,487.36	-192.36	229.24	-193.47	0.00	0.00	0.00
8,600.00	0.00	0.00	8,587.36	-192.36	229.24	-193.47	0.00	0.00	0.00
8,700.00	0.00	0.00	8,687.36	-192.36	229.24	-193.47	0.00	0.00	0.00
8,800.00	0.00	0.00	8,787.36	-192.36	229.24	-193.47	0.00	0.00	0.00
8,900.00	0.00	0.00	8,887.36	-192.36	229.24	-193.47	0.00	0.00	0.00
9,000.00	0.00	0.00	8,987.36	-192.36	229.24	-193.47	0.00	0.00	0.00
9,100.00	0.00	0.00	9,087.36	-192.36	229.24	-193.47	0.00	0.00	0.00
9,200.00	0.00	0.00	9,187.36	-192.36	229.24	-193.47	0.00	0.00	0.00
9,300.00	0.00	0.00	9,287.36	-192.36	229.24	-193.47	0.00	0.00	0.00
9,400.00	0.00	0.00	9,387.36	-192.36	229.24	-193.47	0.00	0.00	0.00
9,500.00	0.00	0.00	9,487.36	-192.36	229.24	-193.47	0.00	0.00	0.00
9,600.00	0.00	0.00	9,587.36	-192.36	229.24	-193.47	0.00	0.00	0.00
9,700.00	0.00	0.00	9,687.36	-192.36	229.24	-193.47	0.00	0.00	0.00
9,800.00	0.00	0.00	9,787.36	-192.36	229.24	-193.47	0.00	0.00	0.00
9,900.00	0.00	0.00	9,887.36	-192.36	229.24	-193.47	0.00	0.00	0.00
10,000.00	0.00	0.00	9,987.36	-192.36	229.24	-193.47	0.00	0.00	0.00
10,100.00	0.00	0.00	10,087.36	-192.36	229.24	-193.47	0.00	0.00	0.00
10,200.00	0.00	0.00	10,187.36	-192.36	229.24	-193.47	0.00	0.00	0.00
10,300.00	0.00	0.00	10,287.36	-192.36	229.24	-193.47	0.00	0.00	0.00
10,400.00	0.00	0.00	10,387.36	-192.36	229.24	-193.47	0.00	0.00	0.00

**Database:** Gyrodata NWDB  
**Company:** ConocoPhillips  
**Project:** Eddy County, NM  
**Site:** Stampede 34 Fed COM W3 09H  
**Well:** W3 09H  
**Wellbore:** Original Hole  
**Design:** Design #1

**Local Co-ordinate Reference:** Well W3 09H  
**TVD Reference:** Well @ 3160.80usft (RKB: 25' + GL: 3135.8')  
**MD Reference:** Well @ 3160.80usft (RKB: 25' + GL: 3135.8')  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

**Planned Survey**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,500.00	0.00	0.00	10,487.36	-192.36	229.24	-193.47	0.00	0.00	0.00
10,600.00	0.00	0.00	10,587.36	-192.36	229.24	-193.47	0.00	0.00	0.00
10,700.00	0.00	0.00	10,687.36	-192.36	229.24	-193.47	0.00	0.00	0.00
10,800.00	0.00	0.00	10,787.36	-192.36	229.24	-193.47	0.00	0.00	0.00
10,900.00	0.00	0.00	10,887.36	-192.36	229.24	-193.47	0.00	0.00	0.00
11,000.00	0.00	0.00	10,987.36	-192.36	229.24	-193.47	0.00	0.00	0.00
11,100.00	0.00	0.00	11,087.36	-192.36	229.24	-193.47	0.00	0.00	0.00
11,200.00	0.00	0.00	11,187.36	-192.36	229.24	-193.47	0.00	0.00	0.00
11,300.00	0.00	0.00	11,287.36	-192.36	229.24	-193.47	0.00	0.00	0.00
11,400.00	0.00	0.00	11,387.36	-192.36	229.24	-193.47	0.00	0.00	0.00
11,500.00	0.00	0.00	11,487.36	-192.36	229.24	-193.47	0.00	0.00	0.00
11,600.00	0.00	0.00	11,587.36	-192.36	229.24	-193.47	0.00	0.00	0.00
11,673.74	0.00	0.00	11,661.09	-192.36	229.24	-193.47	0.00	0.00	0.00
11,700.00	2.63	359.70	11,687.35	-191.75	229.24	-192.87	10.00	10.00	0.00
11,800.00	12.63	359.70	11,786.34	-178.50	229.17	-179.62	10.00	10.00	0.00
11,900.00	22.63	359.70	11,881.52	-148.26	229.01	-149.38	10.00	10.00	0.00
12,000.00	32.63	359.70	11,970.01	-101.95	228.76	-103.06	10.00	10.00	0.00
12,100.00	42.63	359.70	12,049.11	-40.97	228.44	-42.09	10.00	10.00	0.00
12,200.00	52.63	359.70	12,116.42	32.81	228.04	31.69	10.00	10.00	0.00
12,300.00	62.63	359.70	12,169.90	117.16	227.59	116.04	10.00	10.00	0.00
12,400.00	72.63	359.70	12,207.91	209.51	227.10	208.40	10.00	10.00	0.00
12,500.00	82.63	359.70	12,229.31	307.06	226.58	305.95	10.00	10.00	0.00
12,565.93	89.22	359.70	12,234.00	372.78	226.24	371.67	10.00	10.00	0.00
12,600.00	89.22	359.70	12,234.46	406.86	226.05	405.75	0.00	0.00	0.00
12,700.00	89.22	359.70	12,235.82	506.84	225.52	505.74	0.00	0.00	0.00
12,800.00	89.22	359.70	12,237.19	606.83	224.99	605.73	0.00	0.00	0.00
12,900.00	89.22	359.70	12,238.55	706.82	224.46	705.72	0.00	0.00	0.00
13,000.00	89.22	359.70	12,239.91	806.81	223.93	805.71	0.00	0.00	0.00
13,100.00	89.22	359.70	12,241.28	906.80	223.39	905.70	0.00	0.00	0.00
13,200.00	89.22	359.70	12,242.64	1,006.79	222.86	1,005.69	0.00	0.00	0.00
13,300.00	89.22	359.70	12,244.00	1,106.78	222.33	1,105.68	0.00	0.00	0.00
13,400.00	89.22	359.70	12,245.36	1,206.77	221.80	1,205.67	0.00	0.00	0.00
13,500.00	89.22	359.70	12,246.73	1,306.76	221.27	1,305.66	0.00	0.00	0.00
13,600.00	89.22	359.70	12,248.09	1,406.75	220.74	1,405.65	0.00	0.00	0.00
13,700.00	89.22	359.70	12,249.45	1,506.74	220.20	1,505.64	0.00	0.00	0.00
13,800.00	89.22	359.70	12,250.82	1,606.73	219.67	1,605.63	0.00	0.00	0.00
13,900.00	89.22	359.70	12,252.18	1,706.72	219.14	1,705.63	0.00	0.00	0.00
14,000.00	89.22	359.70	12,253.54	1,806.71	218.61	1,805.62	0.00	0.00	0.00
14,100.00	89.22	359.70	12,254.90	1,906.70	218.08	1,905.61	0.00	0.00	0.00
14,200.00	89.22	359.70	12,256.27	2,006.68	217.54	2,005.60	0.00	0.00	0.00
14,300.00	89.22	359.70	12,257.63	2,106.67	217.01	2,105.59	0.00	0.00	0.00
14,400.00	89.22	359.70	12,258.99	2,206.66	216.48	2,205.58	0.00	0.00	0.00
14,500.00	89.22	359.70	12,260.36	2,306.65	215.95	2,305.57	0.00	0.00	0.00
14,600.00	89.22	359.70	12,261.72	2,406.64	215.42	2,405.56	0.00	0.00	0.00
14,700.00	89.22	359.70	12,263.08	2,506.63	214.88	2,505.55	0.00	0.00	0.00
14,800.00	89.22	359.70	12,264.44	2,606.62	214.35	2,605.54	0.00	0.00	0.00
14,900.00	89.22	359.70	12,265.81	2,706.61	213.82	2,705.53	0.00	0.00	0.00
15,000.00	89.22	359.70	12,267.17	2,806.60	213.29	2,805.52	0.00	0.00	0.00
15,100.00	89.22	359.70	12,268.53	2,906.59	212.76	2,905.51	0.00	0.00	0.00
15,200.00	89.22	359.70	12,269.90	3,006.58	212.23	3,005.50	0.00	0.00	0.00
15,300.00	89.22	359.70	12,271.26	3,106.57	211.69	3,105.50	0.00	0.00	0.00
15,400.00	89.22	359.70	12,272.62	3,206.56	211.16	3,205.49	0.00	0.00	0.00
15,500.00	89.22	359.70	12,273.98	3,306.55	210.63	3,305.48	0.00	0.00	0.00
15,600.00	89.22	359.70	12,275.35	3,406.53	210.10	3,405.47	0.00	0.00	0.00

**Database:** Gyrodata NWDB  
**Company:** ConocoPhillips  
**Project:** Eddy County, NM  
**Site:** Stampede 34 Fed COM W3 09H  
**Well:** W3 09H  
**Wellbore:** Original Hole  
**Design:** Design #1

**Local Co-ordinate Reference:** Well W3 09H  
**TVD Reference:** Well @ 3160.80usft (RKB: 25' + GL: 3135.8')  
**MD Reference:** Well @ 3160.80usft (RKB: 25' + GL: 3135.8')  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,700.00	89.22	359.70	12,276.71	3,506.52	209.57	3,505.46	0.00	0.00	0.00
15,800.00	89.22	359.70	12,278.07	3,606.51	209.03	3,605.45	0.00	0.00	0.00
15,900.00	89.22	359.70	12,279.43	3,706.50	208.50	3,705.44	0.00	0.00	0.00
16,000.00	89.22	359.70	12,280.80	3,806.49	207.97	3,805.43	0.00	0.00	0.00
16,100.00	89.22	359.70	12,282.16	3,906.48	207.44	3,905.42	0.00	0.00	0.00
16,200.00	89.22	359.70	12,283.52	4,006.47	206.91	4,005.41	0.00	0.00	0.00
16,300.00	89.22	359.70	12,284.89	4,106.46	206.37	4,105.40	0.00	0.00	0.00
16,400.00	89.22	359.70	12,286.25	4,206.45	205.84	4,205.39	0.00	0.00	0.00
16,500.00	89.22	359.70	12,287.61	4,306.44	205.31	4,305.38	0.00	0.00	0.00
16,600.00	89.22	359.70	12,288.97	4,406.43	204.78	4,405.37	0.00	0.00	0.00
16,700.00	89.22	359.70	12,290.34	4,506.42	204.25	4,505.36	0.00	0.00	0.00
16,800.00	89.22	359.70	12,291.70	4,606.41	203.72	4,605.36	0.00	0.00	0.00
16,900.00	89.22	359.70	12,293.06	4,706.40	203.18	4,705.35	0.00	0.00	0.00
17,000.00	89.22	359.70	12,294.43	4,806.38	202.65	4,805.34	0.00	0.00	0.00
17,100.00	89.22	359.70	12,295.79	4,906.37	202.12	4,905.33	0.00	0.00	0.00
17,200.00	89.22	359.70	12,297.15	5,006.36	201.59	5,005.32	0.00	0.00	0.00
17,300.00	89.22	359.70	12,298.51	5,106.35	201.06	5,105.31	0.00	0.00	0.00
17,400.00	89.22	359.70	12,299.88	5,206.34	200.52	5,205.30	0.00	0.00	0.00
17,500.00	89.22	359.70	12,301.24	5,306.33	199.99	5,305.29	0.00	0.00	0.00
17,600.00	89.22	359.70	12,302.60	5,406.32	199.46	5,405.28	0.00	0.00	0.00
17,700.00	89.22	359.70	12,303.97	5,506.31	198.93	5,505.27	0.00	0.00	0.00
17,800.00	89.22	359.70	12,305.33	5,606.30	198.40	5,605.26	0.00	0.00	0.00
17,900.00	89.22	359.70	12,306.69	5,706.29	197.86	5,705.25	0.00	0.00	0.00
18,000.00	89.22	359.70	12,308.05	5,806.28	197.33	5,805.24	0.00	0.00	0.00
18,100.00	89.22	359.70	12,309.42	5,906.27	196.80	5,905.23	0.00	0.00	0.00
18,200.00	89.22	359.70	12,310.78	6,006.26	196.27	6,005.23	0.00	0.00	0.00
18,300.00	89.22	359.70	12,312.14	6,106.25	195.74	6,105.22	0.00	0.00	0.00
18,400.00	89.22	359.70	12,313.51	6,206.23	195.21	6,205.21	0.00	0.00	0.00
18,500.00	89.22	359.70	12,314.87	6,306.22	194.67	6,305.20	0.00	0.00	0.00
18,600.00	89.22	359.70	12,316.23	6,406.21	194.14	6,405.19	0.00	0.00	0.00
18,700.00	89.22	359.70	12,317.59	6,506.20	193.61	6,505.18	0.00	0.00	0.00
18,800.00	89.22	359.70	12,318.96	6,606.19	193.08	6,605.17	0.00	0.00	0.00
18,900.00	89.22	359.70	12,320.32	6,706.18	192.55	6,705.16	0.00	0.00	0.00
19,000.00	89.22	359.70	12,321.68	6,806.17	192.01	6,805.15	0.00	0.00	0.00
19,100.00	89.22	359.70	12,323.05	6,906.16	191.48	6,905.14	0.00	0.00	0.00
19,170.03	89.22	359.70	12,324.00	6,976.18	191.11	6,975.16	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Stampede 34 Fed COM - hit/miss target - Shape - Point	0.00	0.00	12,234.00	81.50	229.57	364,537.64	675,063.38	32° 0' 3.49 N	103° 46' 6.96 W
- plan misses target center by 73.38usft at 12300.00usft MD (12169.90 TVD, 117.16 N, 227.59 E)									
Stampede 34 Fed COM - plan misses target center by 3.15usft at 12561.99usft MD (12233.93 TVD, 368.85 N, 226.26 E) - Rectangle (sides W100.00 H50.00 D200.00)	90.78	359.70	12,234.00	368.82	223.11	364,824.96	675,056.92	32° 0' 6.34 N	103° 46' 7.02 W
Stampede 34 Fed COM - plan hits target center - Rectangle (sides W100.00 H50.00 D6,408.00)	90.78	359.70	12,324.00	6,976.18	191.11	371,432.32	675,024.92	32° 1' 11.73 N	103° 46' 6.99 W

Database: Gyrodata NWDB  
 Company: ConocoPhillips  
 Project: Eddy County, NM  
 Site: Stampede 34 Fed COM W3 09H  
 Well: W3 09H  
 Wellbore: Original Hole  
 Design: Design #1

Local Co-ordinate Reference: Well W3 09H  
 TVD Reference: Well @ 3160.80usft (RKB: 25' + GL: 3135.8')  
 MD Reference: Well @ 3160.80usft (RKB: 25' + GL: 3135.8')  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,005.00	1,005.00	13 3/8"	13.37	17.50	
4,114.10	4,105.00	9 5/8"	9.62	12.25	
11,357.64	11,345.00	7 5/8"	5.50	6.00	
19,170.03	12,324.00	5" x 4 1/2"	5.50	6.00	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
300.00	300.80	Base of Fresh Water		0.78	359.70	
980.00	980.80	Rustler		0.78	359.70	
1,457.00	1,457.80	Salado		0.78	359.70	
1,690.04	1,690.76	Castile		0.78	359.70	
3,946.72	3,939.05	Delaware		0.78	359.70	
4,097.17	4,088.93	Ford Shale		0.78	359.70	
4,894.59	4,883.32	Cherry Canyon		0.78	359.70	
6,280.01	6,268.17	Brushy Canyon		0.78	359.70	
7,670.01	7,658.17	Bone Springs		0.78	359.70	
9,935.01	9,923.17	Bone Springs 3rd Carb		0.78	359.70	
11,267.01	11,255.17	Wolfcamp		0.78	359.70	
11,295.01	11,283.17	Wolfcamp 1		0.78	359.70	
11,700.02	11,688.17	Wolfcamp 2		0.78	359.70	
12,271.65	12,157.04	Wolfcamp 3		0.78	359.70	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,500.00	1,500.00	0.00	0.00	Start Build 1.50	
4,933.33	4,921.11	-183.01	218.11	Start Drop -1.50	
11,673.74	11,661.10	-192.36	229.24	Start DLS 10.00 TFO 359.72	
12,565.93	12,234.00	372.79	226.24	Landing Point	

**NM OIL CONSERVATION**

ARTESIA DISTRICT

DEC 22 2016

RECEIVED

# **ConocoPhillips MCBU**

**Permian Delaware Hz New Mexico**

**STAMPEDE 34 FED DUAL PAD (09H, 10H) - PS**

**STAMPEDE 34 FEDERAL COM W3 09H**

**Original Hole**

**Design 2**

## **Anticollision Report**

**07 July, 2016**

# ConocoPhillips

## Anticollision Report

<b>Company:</b>	ConocoPhillips MCBU	<b>Local Co-ordinate Reference:</b>	Site STAMPEDE 34 FED DUAL PAD (09H, 10H) - PS
<b>Project:</b>	Permian Delaware Hz New Mexico	<b>TVD Reference:</b>	WELL @ 3160.8usft (OH)
<b>Reference Site:</b>	STAMPEDE 34 FED DUAL PAD (09H, 10H) - PS	<b>MD Reference:</b>	WELL @ 3160.8usft (OH)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	STAMPEDE 34 FEDERAL COM W3 09H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	EDM Central Planning
<b>Reference Design:</b>	Design 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Design 2		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD Interval 100.0usft	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 1,137.5 usft	<b>Error Surface:</b>	Combined Covariances
<b>Warning Levels Evaluated at:</b>	2.79 Sigma	<b>Casing Method:</b>	Added to Error Values

<b>Survey Tool Program</b>	Date 7/7/2016			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	4,400.0	Design 2 (Original Hole)	MWD+IFR1	MWD + IFR1
4,400.0	11,400.0	Design 2 (Original Hole)	MWD+IFR1	MWD + IFR1
11,400.0	19,195.1	Design 2 (Original Hole)	MWD+IFR1	MWD + IFR1

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
STAMPEDE 34 FED DUAL PAD (09H, 10H) - PS						
STAMPEDE 34 FEDERAL COM W2 10H - Original Hole	1,800.0	1,802.8	33.0	19.8	2.497	Caution - Monitor Closely, C
STAMPEDE 34 FEDERAL COM W2 10H - Original Hole	11,400.0	11,400.7	117.9	60.2	2.044	Caution - Monitor Closely, SI
Stampede Federal 27 1M						
Stampede Federal 27 1M - Original Borehole - Original B	16,265.3	12,294.4	395.5	318.4	5.130	CC, ES, SF

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1, 4400-MWD+IFR1, 11400-MWD+IFR1													Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	2.8	2.8	0.0	0.0	-0.21		33.0	-0.1	33.0				
100.0	100.0	102.8	102.8	0.1	0.1	-0.21		33.0	-0.1	33.0	31.4	1.56	21.161	
200.0	200.0	202.8	202.8	0.5	0.5	-0.21		33.0	-0.1	33.0	30.7	2.27	14.555	
300.0	300.0	302.8	302.8	0.9	0.9	-0.21		33.0	-0.1	33.0	30.0	2.97	11.092	
400.0	400.0	402.8	402.8	1.2	1.2	-0.21		33.0	-0.1	33.0	29.3	3.68	8.960	
500.0	500.0	502.8	502.8	1.6	1.6	-0.21		33.0	-0.1	33.0	28.6	4.39	7.516	
600.0	600.0	602.8	602.8	1.9	1.9	-0.21		33.0	-0.1	33.0	27.9	5.09	6.472	
700.0	700.0	702.8	702.8	2.3	2.3	-0.21		33.0	-0.1	33.0	27.2	5.80	5.683	
800.0	800.0	802.8	802.8	2.6	2.7	-0.21		33.0	-0.1	33.0	26.5	6.51	5.066	
900.0	900.0	902.8	902.8	3.0	3.0	-0.21		33.0	-0.1	33.0	25.8	7.22	4.569	
1,000.0	1,000.0	1,002.8	1,002.8	3.4	3.4	-0.21		33.0	-0.1	33.0	25.0	7.92	4.161	
1,100.0	1,100.0	1,102.8	1,102.8	3.7	3.7	-0.21		33.0	-0.1	33.0	24.7	8.26	3.994	
1,200.0	1,200.0	1,202.8	1,202.8	4.1	4.1	-0.21		33.0	-0.1	33.0	24.0	8.96	3.679	
1,300.0	1,300.0	1,302.8	1,302.8	4.4	4.4	-0.21		33.0	-0.1	33.0	23.3	9.67	3.410	
1,400.0	1,400.0	1,402.8	1,402.8	4.8	4.8	-0.21		33.0	-0.1	33.0	22.6	10.38	3.177	
1,500.0	1,500.0	1,502.8	1,502.8	5.2	5.2	-0.21		33.0	-0.1	33.0	21.9	11.08	2.975	
1,600.0	1,600.0	1,602.8	1,602.8	5.5	5.5	-0.21		33.0	-0.1	33.0	21.2	11.79	2.796	
1,700.0	1,700.0	1,702.8	1,702.8	5.9	5.9	-0.21		33.0	-0.1	33.0	20.5	12.50	2.638	
1,800.0	1,800.0	1,802.8	1,802.8	6.2	6.2	-0.21		33.0	-0.1	33.0	19.8	13.21	2.497	Caution - Monitor Closely, CC, ES

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

# ConocoPhillips

## Anticollision Report

<b>Company:</b>	ConocoPhillips MCBU	<b>Local Co-ordinate Reference:</b>	Site STAMPEDE 34 FED DUAL PAD (09H, 10H) - PS
<b>Project:</b>	Permian Delaware Hz New Mexico	<b>TVD Reference:</b>	WELL @ 3160.8usft (OH)
<b>Reference Site:</b>	STAMPEDE 34 FED DUAL PAD (09H, 10H) - PS	<b>MD Reference:</b>	WELL @ 3160.8usft (OH)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	STAMPEDE 34 FEDERAL COM W3 09H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	EDM Central Planning
<b>Reference Design:</b>	Design 2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design STAMPEDE 34 FED DUAL PAD (09H, 10H) - PS - STAMPEDE 34 FEDERAL COM W2 10H - Original H														Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1, 4400-MWD+IFR1, 11400-MWD+IFR1														Offset Well Error:	0.0 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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
1,900.0	1,900.0	1,902.8	1,902.8	6.6	6.6	-132.38	33.0	-0.1	33.8	19.9	13.90	2.435	Caution - Monitor Closely		
2,000.0	1,999.9	2,002.7	2,002.7	6.9	7.0	-136.89	33.0	-0.1	36.6	22.0	14.58	2.511			
2,100.0	2,099.7	2,103.1	2,103.1	7.2	7.3	-141.67	32.4	1.0	40.8	25.6	15.25	2.679			
2,200.0	2,199.3	2,203.7	2,203.6	7.6	7.6	-144.49	30.7	4.5	45.3	29.4	15.91	2.847			
2,300.0	2,298.9	2,304.5	2,304.2	7.9	8.0	-144.58	27.8	10.4	48.2	31.6	16.57	2.909			
2,400.0	2,398.6	2,404.7	2,404.1	8.3	8.3	-142.84	24.1	18.1	49.8	32.6	17.24	2.889			
2,500.0	2,498.2	2,504.7	2,503.7	8.6	8.7	-141.09	20.2	26.0	51.4	33.5	17.92	2.867			
2,600.0	2,597.8	2,604.7	2,603.2	8.9	9.0	-139.44	16.4	33.8	53.0	34.4	18.60	2.849			
2,700.0	2,697.4	2,704.7	2,702.8	9.3	9.3	-137.89	12.6	41.6	54.6	35.3	19.28	2.833			
2,800.0	2,797.0	2,804.6	2,802.4	9.6	9.7	-136.43	8.8	49.5	56.3	36.3	19.97	2.820			
2,900.0	2,896.7	2,904.6	2,902.0	10.0	10.0	-135.06	5.0	57.3	58.0	37.4	20.66	2.809			
3,000.0	2,996.3	3,004.6	3,001.6	10.3	10.4	-133.76	1.1	65.1	59.8	38.4	21.35	2.800			
3,100.0	3,095.9	3,104.6	3,101.2	10.7	10.7	-132.55	-2.7	73.0	61.6	39.5	22.04	2.793			
3,200.0	3,195.5	3,204.5	3,200.8	11.1	11.1	-131.40	-6.5	80.8	63.4	40.6	22.74	2.787			
3,300.0	3,295.1	3,304.5	3,300.4	11.4	11.5	-130.31	-10.3	88.6	65.2	41.8	23.44	2.782			
3,400.0	3,394.8	3,404.5	3,400.0	11.8	11.8	-129.28	-14.1	96.5	67.1	42.9	24.14	2.778			
3,500.0	3,494.4	3,504.5	3,499.6	12.1	12.2	-128.31	-18.0	104.3	68.9	44.1	24.84	2.776			
3,600.0	3,594.0	3,604.4	3,599.2	12.5	12.5	-127.40	-21.8	112.1	70.8	45.3	25.54	2.773			
3,700.0	3,693.6	3,704.4	3,698.8	12.8	12.9	-126.52	-25.6	120.0	72.7	46.5	26.24	2.772			
3,800.0	3,793.2	3,804.4	3,798.4	13.2	13.2	-125.70	-29.4	127.8	74.7	47.7	26.95	2.771			
3,900.0	3,892.9	3,904.4	3,898.0	13.6	13.6	-124.91	-33.2	135.6	76.6	49.0	27.65	2.770			
4,000.0	3,992.5	4,004.3	3,997.6	13.9	13.9	-124.17	-37.1	143.5	78.6	50.2	28.36	2.770			
4,100.0	4,092.1	4,104.3	4,097.2	14.3	14.3	-123.46	-40.9	151.3	80.5	51.5	29.06	2.771			
4,200.0	4,191.7	4,204.3	4,196.8	14.6	14.7	-122.78	-44.7	159.1	82.5	53.0	29.52	2.795			
4,300.0	4,291.3	4,304.3	4,296.4	15.0	15.0	-122.14	-48.5	166.9	84.5	54.3	30.23	2.796			
4,400.0	4,391.0	4,404.2	4,396.0	15.4	15.4	-121.53	-52.3	174.8	86.5	55.6	30.93	2.797			
4,500.0	4,490.6	4,504.2	4,495.6	15.5	15.5	-120.94	-56.2	182.6	88.5	57.2	31.28	2.829			
4,600.0	4,590.2	4,604.2	4,595.2	15.5	15.6	-120.38	-60.0	190.4	90.5	59.2	31.31	2.892			
4,700.0	4,689.8	4,704.2	4,694.8	15.6	15.6	-119.84	-63.8	198.3	92.6	61.2	31.35	2.952			
4,800.0	4,789.4	4,804.2	4,794.3	15.6	15.6	-119.33	-67.6	206.1	94.6	63.2	31.41	3.012			
4,900.0	4,889.0	4,904.1	4,893.9	15.6	15.7	-118.84	-71.4	213.9	96.6	65.1	31.48	3.069			
5,000.0	4,988.7	5,003.8	4,993.2	15.7	15.7	-118.60	-75.1	221.4	98.8	67.2	31.57	3.128			
5,100.0	5,088.3	5,103.0	5,092.3	15.7	15.8	-119.64	-77.7	226.7	101.5	69.8	31.68	3.205			
5,200.0	5,187.9	5,202.1	5,191.4	15.8	15.8	-121.98	-79.1	229.7	105.0	73.2	31.79	3.304			
5,300.0	5,287.5	5,301.1	5,290.3	15.9	15.9	-125.40	-79.5	230.5	109.6	77.7	31.90	3.435			
5,400.0	5,387.3	5,400.9	5,390.1	16.0	15.9	-128.35	-79.5	230.5	113.9	81.8	32.03	3.554			
5,500.0	5,487.2	5,500.7	5,490.0	16.0	16.0	-130.10	-79.5	230.5	116.7	84.5	32.18	3.625			
5,600.0	5,587.2	5,600.7	5,590.0	16.1	16.1	-130.80	-79.5	230.5	117.9	85.5	32.35	3.644			
5,700.0	5,687.2	5,700.7	5,690.0	16.2	16.2	-0.33	-79.5	230.5	117.9	85.4	32.53	3.625			
5,800.0	5,787.2	5,800.7	5,790.0	16.3	16.3	-0.33	-79.5	230.5	117.9	85.2	32.72	3.604			
5,900.0	5,887.2	5,900.7	5,890.0	16.4	16.4	-0.33	-79.5	230.5	117.9	85.0	32.92	3.581			
6,000.0	5,987.2	6,000.7	5,990.0	16.5	16.5	-0.33	-79.5	230.5	117.9	84.8	33.14	3.558			
6,100.0	6,087.2	6,100.7	6,090.0	16.6	16.6	-0.33	-79.5	230.5	117.9	84.5	33.38	3.533			
6,200.0	6,187.2	6,200.7	6,190.0	16.8	16.8	-0.33	-79.5	230.5	117.9	84.3	33.62	3.507			
6,300.0	6,287.2	6,300.7	6,290.0	16.9	16.9	-0.33	-79.5	230.5	117.9	84.0	33.89	3.480			
6,400.0	6,387.2	6,400.7	6,390.0	17.0	17.0	-0.33	-79.5	230.5	117.9	83.8	34.16	3.452			
6,500.0	6,487.2	6,500.7	6,490.0	17.2	17.2	-0.33	-79.5	230.5	117.9	83.5	34.44	3.423			
6,600.0	6,587.2	6,600.7	6,590.0	17.3	17.3	-0.33	-79.5	230.5	117.9	83.2	34.74	3.394			
6,700.0	6,687.2	6,700.7	6,690.0	17.5	17.5	-0.33	-79.5	230.5	117.9	82.9	35.05	3.364			
6,800.0	6,787.2	6,800.7	6,790.0	17.6	17.6	-0.33	-79.5	230.5	117.9	82.5	35.37	3.333			
6,900.0	6,887.2	6,900.7	6,890.0	17.8	17.8	-0.33	-79.5	230.5	117.9	82.2	35.71	3.302			

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

# ConocoPhillips

## Anticollision Report

**Company:** ConocoPhillips MCBU

**Project:** Permian Delaware Hz New Mexico

**Reference Site:** STAMPEDE 34 FED DUAL PAD (09H, 10H) - PS

**Site Error:** 0.0 usft

**Reference Well:** STAMPEDE 34 FEDERAL COM W3 09H

**Well Error:** 0.0 usft

**Reference Wellbore:** Original Hole

**Reference Design:** Design 2

**Local Co-ordinate Reference:** Site STAMPEDE 34 FED DUAL PAD (09H, 10H) - PS

**TVD Reference:** WELL @ 3160.8usft (OH)

**MD Reference:** WELL @ 3160.8usft (OH)

**North Reference:** Grid

**Survey Calculation Method:** Minimum Curvature

**Output errors are at:** 2.00 sigma

**Database:** EDM Central Planning

**Offset TVD Reference:** Offset Datum

Offset Design STAMPEDE 34 FED DUAL PAD (09H, 10H) - PS - STAMPEDE 34 FEDERAL COM W2 10H - Original H													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1, 4400-MWD+IFR1, 11400-MWD+IFR1													Offset Well Error:	0.0 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		
7,000.0	6,987.2	7,000.7	6,990.0	18.0	18.0	-0.33	-79.5	230.5	117.9	81.9	36.05	3.271		
7,100.0	7,087.2	7,100.7	7,090.0	18.2	18.2	-0.33	-79.5	230.5	117.9	81.5	36.41	3.239		
7,200.0	7,187.2	7,200.7	7,190.0	18.3	18.4	-0.33	-79.5	230.5	117.9	81.1	36.77	3.207		
7,300.0	7,287.2	7,300.7	7,290.0	18.5	18.5	-0.33	-79.5	230.5	117.9	80.8	37.15	3.174		
7,400.0	7,387.2	7,400.7	7,390.0	18.7	18.7	-0.33	-79.5	230.5	117.9	80.4	37.53	3.142		
7,500.0	7,487.2	7,500.7	7,490.0	18.9	18.9	-0.33	-79.5	230.5	117.9	80.0	37.92	3.109		
7,600.0	7,587.2	7,600.7	7,590.0	19.1	19.2	-0.33	-79.5	230.5	117.9	79.6	38.33	3.076		
7,700.0	7,687.2	7,700.7	7,690.0	19.3	19.4	-0.33	-79.5	230.5	117.9	79.2	38.74	3.044		
7,800.0	7,787.2	7,800.7	7,790.0	19.5	19.6	-0.33	-79.5	230.5	117.9	78.8	39.16	3.011		
7,900.0	7,887.2	7,900.7	7,890.0	19.8	19.8	-0.33	-79.5	230.5	117.9	78.3	39.59	2.978		
8,000.0	7,987.2	8,000.7	7,990.0	20.0	20.0	-0.33	-79.5	230.5	117.9	77.9	40.03	2.946		
8,100.0	8,087.2	8,100.7	8,090.0	20.2	20.2	-0.33	-79.5	230.5	117.9	77.4	40.47	2.913		
8,200.0	8,187.2	8,200.7	8,190.0	20.4	20.5	-0.33	-79.5	230.5	117.9	77.0	40.92	2.881		
8,300.0	8,287.2	8,300.7	8,290.0	20.7	20.7	-0.33	-79.5	230.5	117.9	76.5	41.38	2.849		
8,400.0	8,387.2	8,400.7	8,390.0	20.9	20.9	-0.33	-79.5	230.5	117.9	76.1	41.85	2.817		
8,500.0	8,487.2	8,500.7	8,490.0	21.1	21.2	-0.33	-79.5	230.5	117.9	75.6	42.32	2.786		
8,600.0	8,587.2	8,600.7	8,590.0	21.4	21.4	-0.33	-79.5	230.5	117.9	75.1	42.80	2.755		
8,700.0	8,687.2	8,700.7	8,690.0	21.6	21.7	-0.33	-79.5	230.5	117.9	74.6	43.29	2.724		
8,800.0	8,787.2	8,800.7	8,790.0	21.9	21.9	-0.33	-79.5	230.5	117.9	74.1	43.78	2.693		
8,900.0	8,887.2	8,900.7	8,890.0	22.1	22.2	-0.33	-79.5	230.5	117.9	73.6	44.28	2.663		
9,000.0	8,987.2	9,000.7	8,990.0	22.4	22.4	-0.33	-79.5	230.5	117.9	73.1	44.79	2.633		
9,100.0	9,087.2	9,100.7	9,090.0	22.6	22.7	-0.33	-79.5	230.5	117.9	72.6	45.30	2.603		
9,200.0	9,187.2	9,200.7	9,190.0	22.9	23.0	-0.33	-79.5	230.5	117.9	72.1	45.81	2.574		
9,300.0	9,287.2	9,300.7	9,290.0	23.1	23.2	-0.33	-79.5	230.5	117.9	71.6	46.33	2.545		
9,400.0	9,387.2	9,400.7	9,390.0	23.4	23.5	-0.33	-79.5	230.5	117.9	71.1	46.86	2.517		
9,500.0	9,487.2	9,500.7	9,490.0	23.7	23.8	-0.33	-79.5	230.5	117.9	70.5	47.39	2.488	Caution - Monitor Closely	
9,600.0	9,587.2	9,600.7	9,590.0	24.0	24.0	-0.33	-79.5	230.5	117.9	70.0	47.92	2.461	Caution - Monitor Closely	
9,700.0	9,687.2	9,700.7	9,690.0	24.2	24.3	-0.33	-79.5	230.5	117.9	69.5	48.46	2.433	Caution - Monitor Closely	
9,800.0	9,787.2	9,800.7	9,790.0	24.5	24.6	-0.33	-79.5	230.5	117.9	68.9	49.00	2.406	Caution - Monitor Closely	
9,900.0	9,887.2	9,900.7	9,890.0	24.8	24.9	-0.33	-79.5	230.5	117.9	68.4	49.55	2.380	Caution - Monitor Closely	
10,000.0	9,987.2	10,000.7	9,990.0	25.1	25.1	-0.33	-79.5	230.5	117.9	67.8	50.10	2.354	Caution - Monitor Closely	
10,100.0	10,087.2	10,100.7	10,090.0	25.3	25.4	-0.33	-79.5	230.5	117.9	67.3	50.66	2.328	Caution - Monitor Closely	
10,200.0	10,187.2	10,200.7	10,190.0	25.6	25.7	-0.33	-79.5	230.5	117.9	66.7	51.22	2.302	Caution - Monitor Closely	
10,300.0	10,287.2	10,300.7	10,290.0	25.9	26.0	-0.33	-79.5	230.5	117.9	66.1	51.78	2.277	Caution - Monitor Closely	
10,400.0	10,387.2	10,400.7	10,390.0	26.2	26.3	-0.33	-79.5	230.5	117.9	65.6	52.35	2.253	Caution - Monitor Closely	
10,500.0	10,487.2	10,500.7	10,490.0	26.5	26.6	-0.33	-79.5	230.5	117.9	65.0	52.92	2.228	Caution - Monitor Closely	
10,600.0	10,587.2	10,600.7	10,590.0	26.8	26.9	-0.33	-79.5	230.5	117.9	64.4	53.49	2.204	Caution - Monitor Closely	
10,700.0	10,687.2	10,700.7	10,690.0	27.1	27.1	-0.33	-79.5	230.5	117.9	63.9	54.06	2.181	Caution - Monitor Closely	
10,800.0	10,787.2	10,800.7	10,790.0	27.3	27.4	-0.33	-79.5	230.5	117.9	63.3	54.64	2.158	Caution - Monitor Closely	
10,900.0	10,887.2	10,900.7	10,890.0	27.6	27.7	-0.33	-79.5	230.5	117.9	62.7	55.23	2.135	Caution - Monitor Closely	
11,000.0	10,987.2	11,000.7	10,990.0	27.9	28.0	-0.33	-79.5	230.5	117.9	62.1	55.81	2.113	Caution - Monitor Closely	
11,100.0	11,087.2	11,100.7	11,090.0	28.2	28.3	-0.33	-79.5	230.5	117.9	61.5	56.40	2.091	Caution - Monitor Closely	
11,200.0	11,187.2	11,200.7	11,190.0	28.5	28.6	-0.33	-79.5	230.5	117.9	60.9	56.99	2.069	Caution - Monitor Closely	
11,300.0	11,287.2	11,300.7	11,290.0	28.8	28.9	-0.33	-79.5	230.5	117.9	60.3	57.58	2.048	Caution - Monitor Closely	
11,400.0	11,387.2	11,400.7	11,390.0	29.0	29.1	-0.33	-79.5	230.5	117.9	60.2	57.69	2.044	Caution - Monitor Closely, SF	
11,500.0	11,487.2	11,487.9	11,477.0	29.0	29.1	-0.33	-76.2	230.4	121.9	64.4	57.44	2.121	Caution - Monitor Closely	
11,600.0	11,587.2	11,568.1	11,555.9	29.0	29.1	-0.32	-62.2	230.4	139.5	83.0	56.50	2.468	Caution - Monitor Closely	
11,700.0	11,687.2	11,643.1	11,627.2	29.0	29.1	0.00	-39.2	230.2	170.2	115.1	55.07	3.091		
11,800.0	11,786.5	11,714.1	11,691.4	29.0	29.1	0.00	-9.0	230.1	203.7	150.4	53.28	3.823		
11,900.0	11,882.7	11,783.5	11,750.1	29.1	29.1	0.00	28.0	229.9	232.3	181.1	51.21	4.535		

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

# ConocoPhillips

## Anticollision Report

<b>Company:</b>	ConocoPhillips MCBU	<b>Local Co-ordinate Reference:</b>	Site STAMPEDE 34 FED DUAL PAD (09H, 10H) - PS
<b>Project:</b>	Pernian Delaware Hz New Mexico	<b>TVD Reference:</b>	WELL @ 3160.8usft (OH)
<b>Reference Site:</b>	STAMPEDE 34 FED DUAL PAD (09H, 10H) - PS	<b>MD Reference:</b>	WELL @ 3160.8usft (OH)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	STAMPEDE 34 FEDERAL COM W3 09H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	EDM Central Planning
<b>Reference Design:</b>	Design 2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design STAMPEDE 34 FED DUAL PAD (09H, 10H) - PS - STAMPEDE 34 FEDERAL COM W2 10H - Original H													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1, 4400-MWD+IFR1, 11400-MWD+IFR1													Offset Well Error:	0.0 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		
12,000.0	11,972.8	11,850.0	11,801.8	29.1	29.2	0.00	69.8	229.6	255.6	206.7	48.85	5.232		
12,100.0	12,054.0	11,918.9	11,849.9	29.1	29.2	0.00	119.1	228.4	273.4	226.7	46.69	5.855		
12,200.0	12,123.9	11,985.6	11,890.4	29.2	29.2	0.00	172.0	229.1	285.4	241.0	44.46	6.420		
12,300.0	12,180.3	12,050.0	11,923.4	29.2	29.3	0.00	227.2	228.8	291.7	249.4	42.33	6.891		
12,400.0	12,221.6	12,118.1	11,951.4	29.3	29.3	0.00	289.3	228.4	292.1	251.3	40.79	7.160		
12,500.0	12,246.4	12,184.4	11,971.4	29.3	29.3	0.00	352.5	228.1	286.6	246.9	39.63	7.231		
12,600.0	12,254.2	12,250.0	11,983.9	29.5	29.4	0.00	416.8	227.7	275.3	236.3	39.06	7.048		
12,700.0	12,255.2	12,321.6	11,989.0	29.7	29.5	0.00	488.2	227.3	269.1	229.9	39.21	6.862		
12,724.8	12,255.5	12,342.3	11,989.2	29.7	29.6	0.00	508.9	227.2	269.1	229.8	39.32	6.843		
12,800.0	12,256.3	12,417.5	11,989.9	29.9	29.7	0.00	584.0	226.8	269.2	229.6	39.58	6.801		
12,900.0	12,257.3	12,517.5	11,990.8	30.1	29.9	0.00	684.0	226.2	269.3	229.3	39.98	6.737		
13,000.0	12,258.4	12,617.5	11,991.8	30.4	30.1	0.00	784.0	225.6	269.5	229.0	40.43	6.665		
13,100.0	12,259.5	12,717.5	11,992.7	30.7	30.4	0.00	884.0	225.1	269.6	228.7	40.94	6.585		
13,200.0	12,260.5	12,817.5	11,993.6	31.0	30.7	0.00	984.0	224.5	269.7	228.2	41.50	6.500		
13,300.0	12,261.6	12,917.5	11,994.5	31.4	31.1	0.00	1,084.0	224.0	269.9	227.8	42.11	6.409		
13,400.0	12,262.6	13,017.5	11,995.5	31.7	31.4	0.00	1,184.0	223.4	270.0	227.2	42.77	6.313		
13,500.0	12,263.7	13,117.5	11,996.4	32.1	31.8	0.00	1,284.0	222.9	270.1	226.7	43.47	6.214		
13,600.0	12,264.8	13,217.5	11,997.3	32.6	32.2	0.00	1,384.0	222.3	270.3	226.1	44.22	6.112		
13,700.0	12,265.8	13,317.5	11,998.2	33.0	32.6	0.00	1,484.0	221.7	270.4	225.4	45.01	6.008		
13,800.0	12,266.9	13,417.5	11,999.2	33.5	33.1	0.00	1,584.0	221.2	270.5	224.7	45.83	5.903		
13,900.0	12,267.9	13,517.5	12,000.1	34.0	33.6	0.00	1,684.0	220.6	270.7	224.0	46.70	5.796		
14,000.0	12,269.0	13,617.5	12,001.0	34.5	34.1	0.00	1,784.0	220.1	270.8	223.2	47.60	5.689		
14,100.0	12,270.1	13,717.5	12,001.9	35.1	34.6	0.00	1,884.0	219.5	270.9	222.4	48.53	5.583		
14,200.0	12,271.1	13,817.5	12,002.8	35.6	35.2	0.00	1,984.0	219.0	271.1	221.6	49.49	5.477		
14,300.0	12,272.2	13,917.5	12,003.8	36.2	35.7	0.00	2,084.0	218.4	271.2	220.7	50.49	5.372		
14,400.0	12,273.2	14,017.5	12,004.7	36.8	36.3	0.00	2,184.0	217.8	271.3	219.8	51.51	5.268		
14,500.0	12,274.3	14,117.5	12,005.6	37.4	36.9	0.00	2,283.9	217.3	271.5	218.9	52.56	5.166		
14,600.0	12,275.3	14,217.5	12,006.5	38.1	37.5	0.00	2,383.9	216.7	271.6	218.0	53.63	5.065		
14,700.0	12,276.4	14,317.5	12,007.5	38.7	38.2	0.00	2,483.9	216.2	271.7	217.0	54.72	4.966		
14,800.0	12,277.5	14,417.5	12,008.4	39.4	38.8	0.00	2,583.9	215.6	271.9	216.0	55.84	4.869		
14,900.0	12,278.5	14,517.5	12,009.3	40.1	39.5	0.00	2,683.9	215.0	272.0	215.0	56.97	4.774		
15,000.0	12,279.6	14,617.5	12,010.2	40.7	40.2	0.00	2,783.9	214.5	272.1	214.0	58.13	4.682		
15,100.0	12,280.6	14,717.5	12,011.2	41.4	40.8	0.00	2,883.9	213.9	272.3	213.0	59.30	4.591		
15,200.0	12,281.7	14,817.5	12,012.1	42.2	41.6	0.00	2,983.9	213.4	272.4	211.9	60.49	4.503		
15,300.0	12,282.8	14,917.5	12,013.0	42.9	42.3	0.00	3,083.9	212.8	272.6	210.9	61.70	4.417		
15,400.0	12,283.8	15,017.5	12,013.9	43.6	43.0	0.00	3,183.9	212.3	272.7	209.8	62.92	4.334		
15,500.0	12,284.9	15,117.5	12,014.9	44.3	43.7	0.00	3,283.9	211.7	272.8	208.7	64.16	4.252		
15,600.0	12,285.9	15,217.5	12,015.8	45.1	44.5	0.00	3,383.9	211.1	273.0	207.5	65.41	4.173		
15,700.0	12,287.0	15,317.5	12,016.7	45.9	45.2	0.00	3,483.9	210.6	273.1	206.4	66.67	4.096		
15,800.0	12,288.1	15,417.5	12,017.6	46.6	46.0	0.00	3,583.9	210.0	273.2	205.3	67.94	4.021		
15,900.0	12,289.1	15,517.5	12,018.6	47.4	46.8	0.00	3,683.9	209.5	273.4	204.1	69.23	3.949		
16,000.0	12,290.2	15,617.5	12,019.5	48.2	47.5	0.00	3,783.9	208.9	273.5	203.0	70.52	3.878		
16,100.0	12,291.2	15,717.5	12,020.4	49.0	48.3	0.00	3,883.9	208.4	273.6	201.8	71.83	3.809		
16,200.0	12,292.3	15,817.5	12,021.3	49.8	49.1	0.00	3,983.8	207.8	273.8	200.6	73.14	3.743		
16,300.0	12,293.3	15,917.5	12,022.3	50.6	49.9	0.00	4,083.8	207.2	273.9	199.4	74.47	3.678		
16,400.0	12,294.4	16,017.5	12,023.2	51.4	50.7	0.00	4,183.8	206.7	274.0	198.2	75.80	3.615		
16,500.0	12,295.5	16,117.5	12,024.1	52.2	51.5	0.00	4,283.8	206.1	274.2	197.0	77.14	3.554		
16,600.0	12,296.5	16,217.5	12,025.0	53.1	52.4	0.00	4,383.8	205.6	274.3	195.8	78.49	3.495		
16,700.0	12,297.6	16,317.5	12,026.0	53.9	53.2	0.00	4,483.8	205.0	274.4	194.6	79.85	3.437		
16,800.0	12,298.6	16,417.5	12,026.9	54.7	54.0	0.00	4,583.8	204.5	274.6	193.4	81.21	3.381		
16,900.0	12,299.7	16,517.5	12,027.8	55.6	54.9	0.00	4,683.8	203.9	274.7	192.1	82.58	3.327		

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

# ConocoPhillips

## Anticollision Report

<b>Company:</b>	ConocoPhillips MCBU	<b>Local Co-ordinate Reference:</b>	Site STAMPEDE 34 FED DUAL PAD (09H, 10H) - PS
<b>Project:</b>	Permian Delaware Hz New Mexico	<b>TVD Reference:</b>	WELL @ 3160.8usft (OH)
<b>Reference Site:</b>	STAMPEDE 34 FED DUAL PAD (09H, 10H) - PS	<b>MD Reference:</b>	WELL @ 3160.8usft (OH)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	STAMPEDE 34 FEDERAL COM W3 09H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	EDM Central Planning
<b>Reference Design:</b>	Design 2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design STAMPEDE 34 FED DUAL PAD (09H, 10H) - PS - STAMPEDE 34 FEDERAL COM W2 10H - Original H													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1, 4400-MWD+IFR1, 11400-MWD+IFR1													Offset Well Error:	0.0 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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
17,000.0	12,300.8	16,617.5	12,028.7	56.4	55.7	0.00	4,783.8	203.3	274.8	190.9	83.96	3.274		
17,100.0	12,301.8	16,717.5	12,029.7	57.3	56.5	0.00	4,883.8	202.8	275.0	189.6	85.34	3.222		
17,200.0	12,302.9	16,817.5	12,030.6	58.1	57.4	0.00	4,983.8	202.2	275.1	188.4	86.72	3.172		
17,300.0	12,303.9	16,917.5	12,031.5	59.0	58.3	0.00	5,083.8	201.7	275.2	187.1	88.12	3.124		
17,400.0	12,305.0	17,017.5	12,032.4	59.8	59.1	0.00	5,183.8	201.1	275.4	185.9	89.51	3.076		
17,500.0	12,306.1	17,117.5	12,033.4	60.7	60.0	0.00	5,283.8	200.5	275.5	184.6	90.92	3.030		
17,600.0	12,307.1	17,217.5	12,034.3	61.6	60.8	0.00	5,383.8	200.0	275.6	183.3	92.32	2.986		
17,700.0	12,308.2	17,317.5	12,035.2	62.5	61.7	0.00	5,483.8	199.4	275.8	182.0	93.74	2.942		
17,800.0	12,309.2	17,417.5	12,036.1	63.3	62.6	0.00	5,583.8	198.9	275.9	180.8	95.15	2.900		
17,900.0	12,310.3	17,517.5	12,037.1	64.2	63.5	0.00	5,683.7	198.3	276.0	179.5	96.57	2.858		
18,000.0	12,311.3	17,617.5	12,038.0	65.1	64.4	0.00	5,783.7	197.8	276.2	178.2	98.00	2.818		
18,100.0	12,312.4	17,717.5	12,038.9	66.0	65.2	0.00	5,883.7	197.2	276.3	176.9	99.42	2.779		
18,200.0	12,313.5	17,817.5	12,039.8	66.9	66.1	0.00	5,983.7	196.6	276.5	175.6	100.86	2.741		
18,300.0	12,314.5	17,917.5	12,040.7	67.8	67.0	0.00	6,083.7	196.1	276.6	174.3	102.29	2.704		
18,400.0	12,315.6	18,017.5	12,041.7	68.7	67.9	0.00	6,183.7	195.5	276.7	173.0	103.73	2.668		
18,500.0	12,316.6	18,117.5	12,042.6	69.6	68.8	0.00	6,283.7	195.0	276.9	171.7	105.17	2.632		
18,600.0	12,317.7	18,217.5	12,043.5	70.5	69.7	0.00	6,383.7	194.4	277.0	170.4	106.61	2.598		
18,700.0	12,318.8	18,317.5	12,044.4	71.4	70.6	0.00	6,483.7	193.9	277.1	169.1	108.06	2.565		
18,800.0	12,319.8	18,417.5	12,045.4	72.3	71.5	0.00	6,583.7	193.3	277.3	167.7	109.51	2.532		
18,900.0	12,320.9	18,517.5	12,046.3	73.2	72.4	0.00	6,683.7	192.7	277.4	166.4	110.96	2.500	Caution - Monitor Closely	
19,000.0	12,321.9	18,617.5	12,047.2	74.1	73.3	0.00	6,783.7	192.2	277.5	165.1	112.42	2.469	Caution - Monitor Closely	
19,100.0	12,323.0	18,717.5	12,048.1	75.0	74.2	0.00	6,883.7	191.6	277.7	163.8	113.88	2.438	Caution - Monitor Closely	
19,148.6	12,323.5	18,766.1	12,048.6	75.5	74.7	0.00	6,932.3	191.4	277.7	163.1	114.59	2.424	Caution - Monitor Closely	
19,195.1	12,324.0	18,810.0	12,049.0	75.9	75.1	0.00	6,976.2	191.1	277.8	162.5	115.30	2.409	Caution - Monitor Closely	

# ConocoPhillips

## Anticollision Report

<b>Company:</b>	ConocoPhillips MCBU	<b>Local Co-ordinate Reference:</b>	Site STAMPEDE 34 FED DUAL PAD (09H, 10H) - PS
<b>Project:</b>	Permian Delaware Hz New Mexico	<b>TVD Reference:</b>	WELL @ 3160.8usft (OH)
<b>Reference Site:</b>	STAMPEDE 34 FED DUAL PAD (09H, 10H) - PS	<b>MD Reference:</b>	WELL @ 3160.8usft (OH)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	STAMPEDE 34 FEDERAL COM W3 09H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	EDM Central Planning
<b>Reference Design:</b>	Design 2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Stampede Federal 27 1M - Stampede Federal 27 1M - Original Borehole - Original Borehole_GYRO													Offset Site Error:	0.0 usft
Survey Program: 60-GYD-CT-CMS													Offset Well Error:	0.0 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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,200.0	12,281.7	12,275.4	12,273.6	42.2	21.7	-85.86	4,044.3	-187.5	1,136.2	1,081.6	54.55	20.830		
15,300.0	12,282.8	12,277.1	12,275.3	42.9	21.7	-86.11	4,044.4	-187.5	1,043.0	987.9	55.14	18.917		
15,400.0	12,283.8	12,278.8	12,277.0	43.6	21.7	-86.36	4,044.4	-187.6	951.3	895.4	55.89	17.020		
15,500.0	12,284.9	12,280.5	12,278.8	44.3	21.7	-86.61	4,044.4	-187.6	861.3	804.5	56.87	15.146		
15,600.0	12,285.9	12,282.3	12,280.5	45.1	21.7	-86.86	4,044.4	-187.7	773.9	715.7	58.16	13.306		
15,700.0	12,287.0	12,284.1	12,282.3	45.9	21.7	-87.12	4,044.4	-187.7	689.8	630.0	59.87	11.522		
15,800.0	12,288.1	12,285.8	12,284.1	46.6	21.7	-87.38	4,044.4	-187.7	610.6	548.5	62.15	9.825		
15,900.0	12,289.1	12,287.6	12,285.9	47.4	21.7	-87.64	4,044.4	-187.8	538.3	473.2	65.12	8.267		
16,000.0	12,290.2	12,289.5	12,287.7	48.2	21.7	-87.90	4,044.4	-187.8	476.2	407.4	68.79	6.923		
16,100.0	12,291.2	12,291.3	12,289.5	49.0	21.7	-88.17	4,044.5	-187.9	428.7	355.9	72.76	5.891		
16,200.0	12,292.3	12,293.2	12,291.4	49.8	21.7	-88.44	4,044.5	-187.9	400.9	324.9	76.01	5.274		
16,265.3	12,293.0	12,294.4	12,292.6	50.3	21.7	-88.61	4,044.5	-187.9	395.5	318.4	77.10	5.130	CC, ES, SF	
16,300.0	12,293.3	12,295.0	12,293.3	50.6	21.7	-88.71	4,044.5	-188.0	397.0	319.8	77.24	5.141		
16,400.0	12,294.4	12,296.9	12,295.2	51.4	21.7	-88.98	4,044.5	-188.0	417.8	341.8	76.03	5.495		
16,500.0	12,295.5	12,298.8	12,297.1	52.2	21.7	-89.26	4,044.5	-188.1	459.9	386.6	73.27	6.277		
16,600.0	12,296.5	12,300.8	12,299.0	53.1	21.7	-89.54	4,044.5	-188.1	518.1	448.0	70.11	7.390		
16,700.0	12,297.6	12,302.7	12,300.9	53.9	21.7	-89.82	4,044.6	-188.1	587.7	520.4	67.25	8.739		
16,800.0	12,298.6	12,304.7	12,302.9	54.7	21.7	-90.11	4,044.6	-188.2	665.0	600.1	64.90	10.247		
16,900.0	12,299.7	12,306.7	12,304.9	55.6	21.7	-90.40	4,044.6	-188.2	747.8	684.7	63.06	11.859		
17,000.0	12,300.8	12,308.7	12,306.9	56.4	21.7	-90.69	4,044.6	-188.3	834.3	772.7	61.63	13.536		
17,100.0	12,301.8	12,310.7	12,309.0	57.3	21.7	-90.98	4,044.6	-188.3	923.5	863.0	60.55	15.254		
17,200.0	12,302.9	12,312.8	12,311.0	58.1	21.7	-91.28	4,044.6	-188.4	1,014.8	955.1	59.70	16.997		
17,300.0	12,303.9	12,314.9	12,313.1	59.0	21.7	-91.58	4,044.7	-188.4	1,107.6	1,048.5	59.05	18.756		

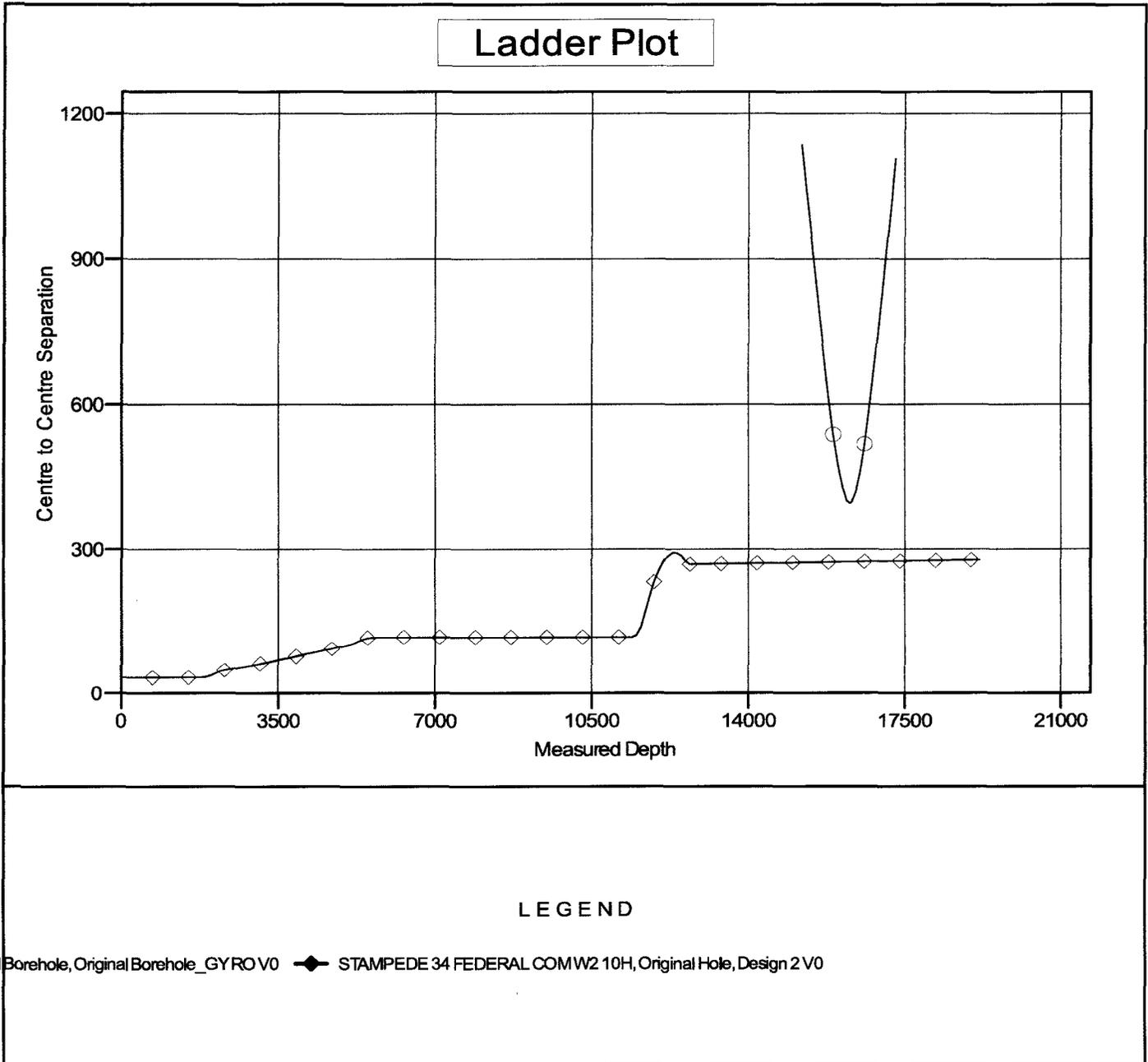
# ConocoPhillips

## Anticollision Report

<b>Company:</b> ConocoPhillips MCBU  <b>Project:</b> Permian Delaware Hz New Mexico <b>Reference Site:</b> STAMPEDE 34 FED DUAL PAD (09H, 10H) - PS  <b>Site Error:</b> 0.0 usft <b>Reference Well:</b> STAMPEDE 34 FEDERAL COM W3 09H <b>Well Error:</b> 0.0 usft <b>Reference Wellbore:</b> Original Hole <b>Reference Design:</b> Design 2	<b>Local Co-ordinate Reference:</b> Site STAMPEDE 34 FED DUAL PAD (09H, 10H) - PS  <b>TVD Reference:</b> WELL @ 3160.8usft (OH) <b>MD Reference:</b> WELL @ 3160.8usft (OH)  <b>North Reference:</b> Grid <b>Survey Calculation Method:</b> Minimum Curvature <b>Output errors are at:</b> 2.00 sigma <b>Database:</b> EDM Central Planning <b>Offset TVD Reference:</b> Offset Datum	
--	--	--

Reference Depths are relative to WELL @ 3160.8usft (OH)  
 Offset Depths are relative to Offset Datum  
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: STAMPEDE 34 FED DUAL PAD (09H, 10H) - PS  
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30  
 Grid Convergence at Surface is: 0.30°



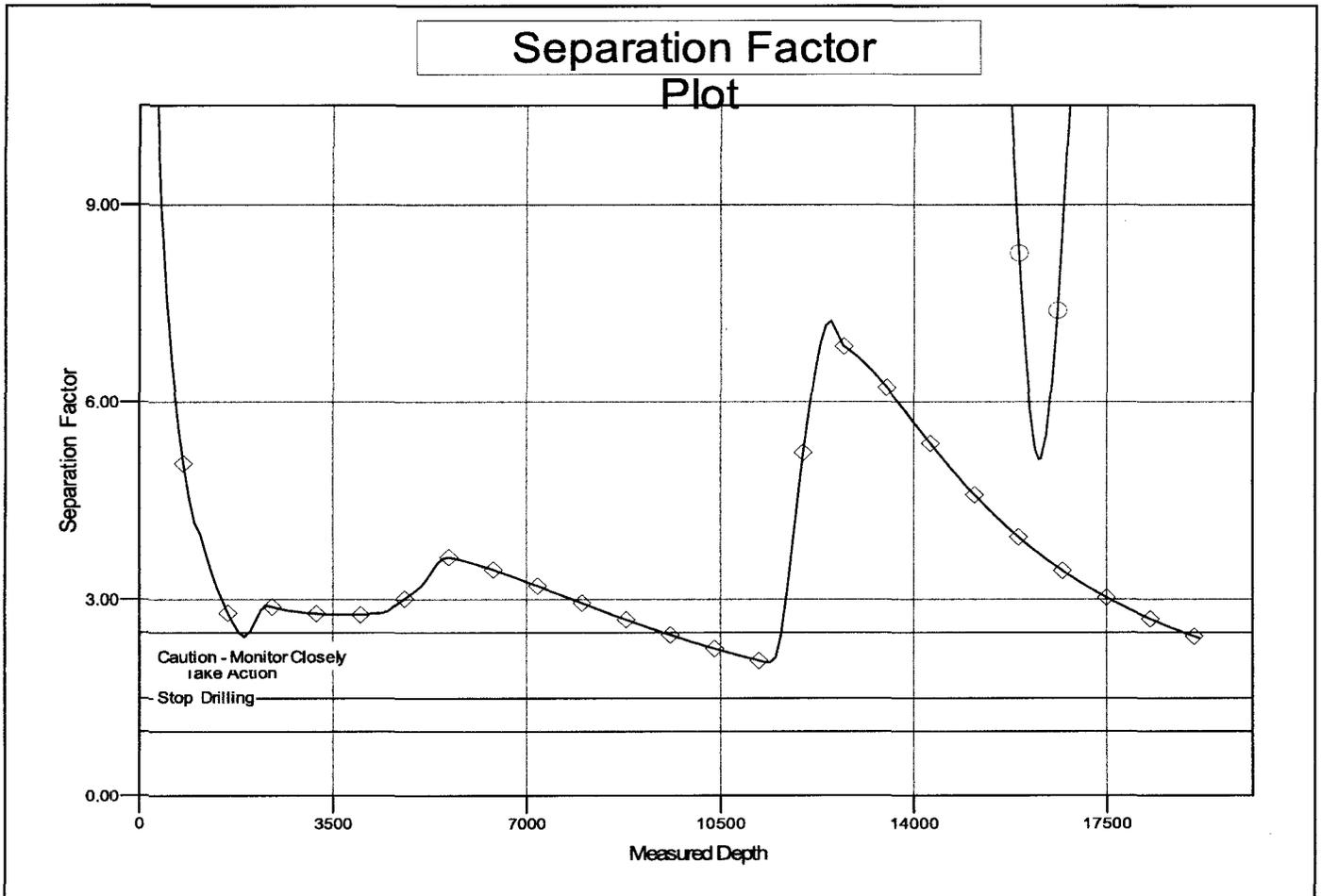
# ConocoPhillips

## Anticollision Report

<b>Company:</b> ConocoPhillips MCBU	<b>Local Co-ordinate Reference:</b> Site STAMPEDE 34 FED DUAL PAD (09H, 10H) - PS
<b>Project:</b> Permian Delaware Hz New Mexico	<b>TVD Reference:</b> WELL @ 3160.8usft (OH)
<b>Reference Site:</b> STAMPEDE 34 FED DUAL PAD (09H, 10H) - PS	<b>MD Reference:</b> WELL @ 3160.8usft (OH)
<b>Site Error:</b> 0.0 usft	<b>North Reference:</b> Grid
<b>Reference Well:</b> STAMPEDE 34 FEDERAL COM W3 09H	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Well Error:</b> 0.0 usft	<b>Output errors are at:</b> 2.00 sigma
<b>Reference Wellbore:</b> Original Hole	<b>Database:</b> EDM Central Planning
<b>Reference Design:</b> Design 2	<b>Offset TVD Reference:</b> Offset Datum

Reference Depths are relative to WELL @ 3160.8usft (OH)  
 Offset Depths are relative to Offset Datum  
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: STAMPEDE 34 FED DUAL PAD (09H, 10H) - PS  
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30  
 Grid Convergence at Surface is: 0.30°



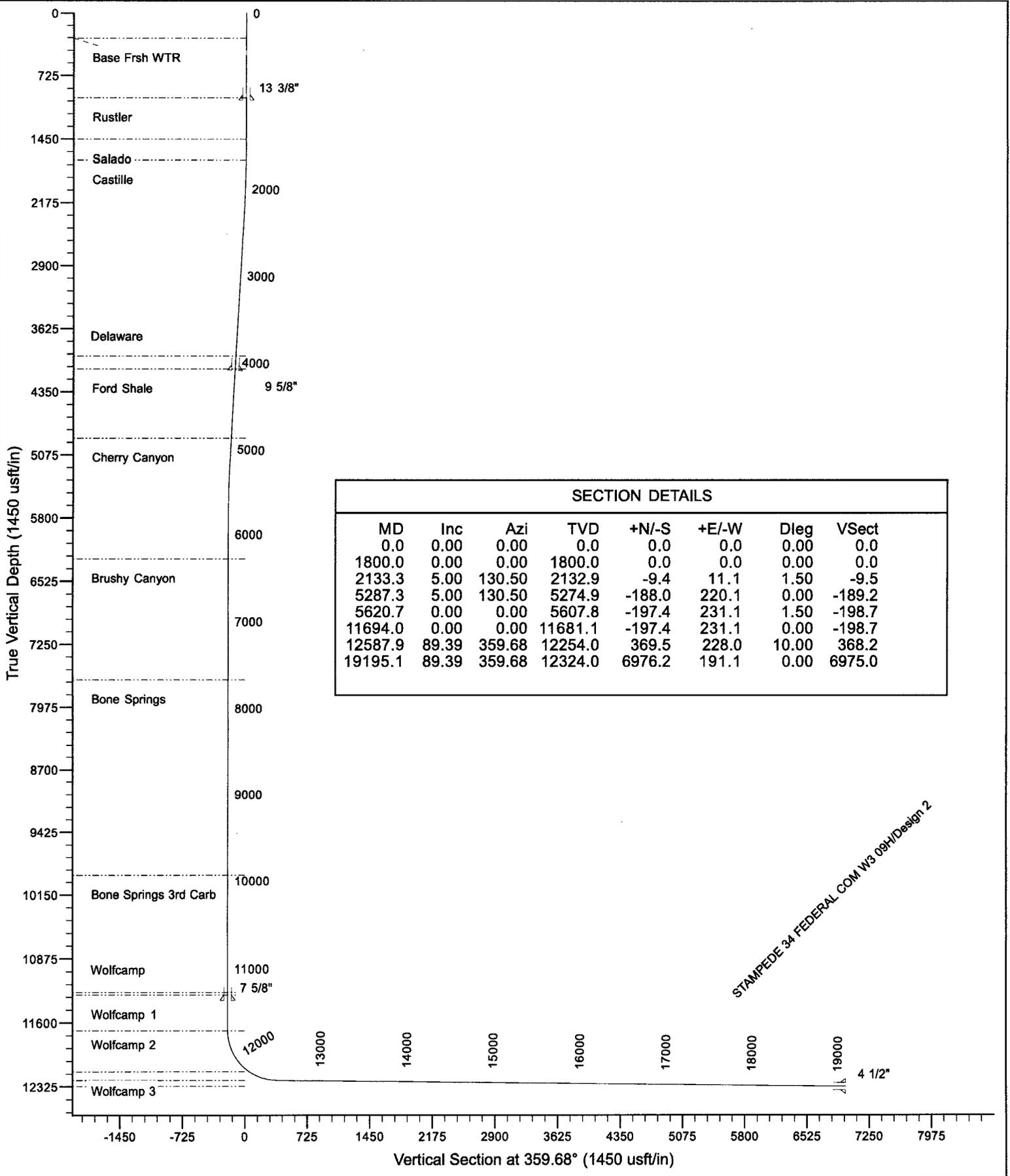
### LEGEND

Original Borehole, Original Borehole\_GYRO V0    ◆    STAMPEDE 34 FEDERAL COM W2 10H, Original Hole, Design 2 V0



Azimuths to Grid North  
 True North: -0.30°  
 Magnetic North: 6.91°

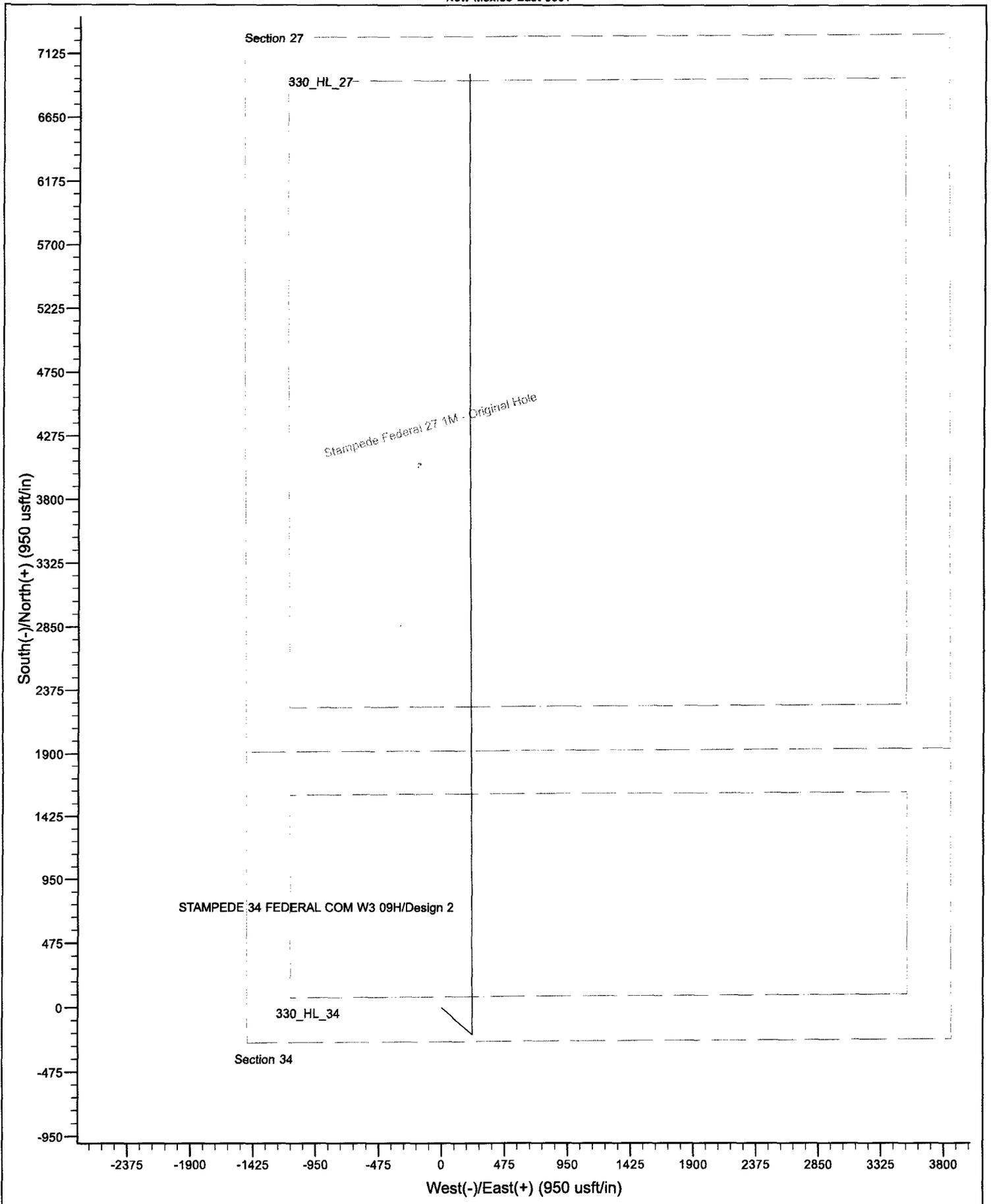
Magnetic Field  
 Strength: 47952.2snT  
 Dip Angle: 59.63°  
 Date: 5/31/2016  
 Model: BGGM2016





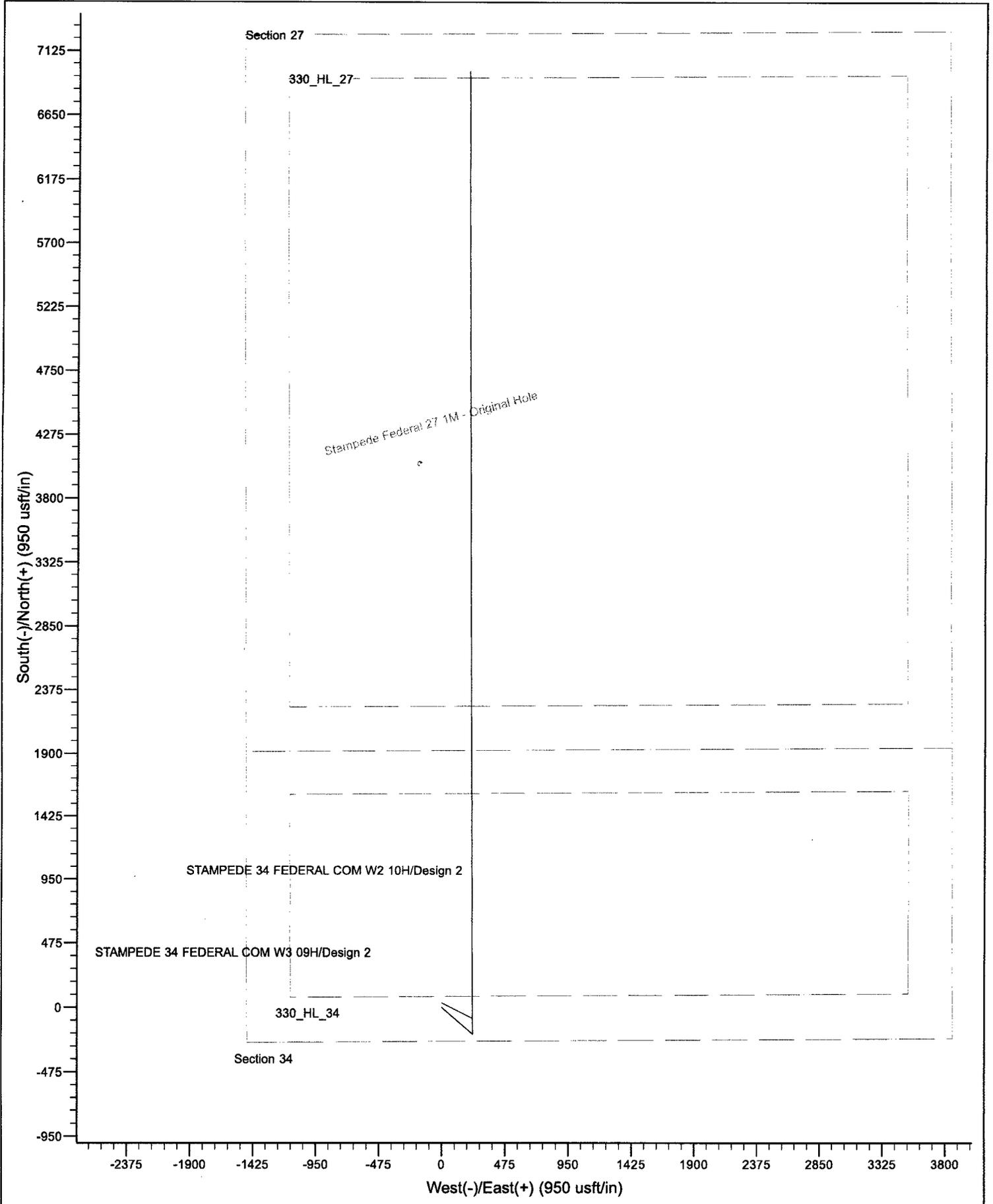
Azimuths to Grid North  
 True North: -0.30°  
 Magnetic North: 6.91°

Magnetic Field  
 Strength: 47952.2usT  
 Dip Angle: 59.83°  
 Date: 5/31/2016  
 Model: BGGM2016





Azimuths to Grid North  
 True North: -0.30°  
 Magnetic North: 6.91°  
 Magnetic Field  
 Strength: 47952.2snT  
 Dip Angle: 59.83°  
 Date: 5/31/2016  
 Model: BGGM2016



# STAMPEDE 34 FEDERAL COM W3 09H

## Attachment #2

MD	Formation Top	Surface Section:
0 ft		<ul style="list-style-type: none"> <li>Objective: Protect fresh water horizons.</li> <li>Drill 17-1/2" hole to +/- 1,005 ft, 25' inside "Rustler".</li> <li>Mud weight: 8.6 – 9.3 ppg FW-Native Mud.</li> <li><b>Set 13-3/8" 54.5# J-55 BTC casing.</b></li> <li>Cement to surface.</li> </ul>
1,690 ft	Castile	<b>Intermediate1 Section:</b>
3,946 ft	Delaware	<ul style="list-style-type: none"> <li>Objective: Isolate the Salado Salt and Delaware Sand interval.</li> <li>Drill 12-1/4" hole to +/- 4,114 ft, 15'-20'-TVD inside "Ford Shale".</li> <li>Mud weight: 9.3 - 10.2 ppg Brine.</li> <li><b>Set 9-5/8" 40# L-80 BTC casing.</b></li> <li>Cement to surface.</li> </ul>
4,097 ft	Ford Shale	
4,114 ft	Interm1 Shoe	<b>Intermediate2 Section:</b>
4,894 ft	Cherry Canyon	<ul style="list-style-type: none"> <li>Objective: Isolate depleted/weak formations above WC1.</li> <li>Drill 8-3/4" hole to +/- 11,357 ft, 60'-80' inside WC1 Top.</li> <li>Mud weight: 8.9 – 9.2 ppg Cut Brine.</li> <li><b>Set 7-5/8" 33# P-110 Tenaris W523 casing.</b></li> <li>Cement lap 600 ft above previous shoe.</li> </ul>
6,280 ft	Brushy Canyon	
7,670 ft	Bone Spring Top	<b>Production Section:</b>
9,935 ft	3rd BS Carbonate	<ul style="list-style-type: none"> <li>Objective: Provide zonal isolation of production interval and provide medium for stimulation.</li> <li>Drill 6-5/8" hole to +/-19,170 ft. "Production TD".</li> <li>Mud Weight: 12.0 – 15.0 ppg OBM.</li> <li><b>Set 5" 21.4# P-110 TenBlue X 4-1/2" 15.1# P-110 Ten XP BTC casing.</b></li> <li>Cement lap 1,000 ft above previous shoe.</li> </ul>
11,267 ft	WolfCamp Top	
11,297 ft	WolfCamp 1 Top	
11,357 ft	Interm2 Shoe	
11,673 ft	KOP	
14,900 ft	WolfCamp 2 Top	
15,000 ft	WolfCamp 3 Top	
15,000 ft	WolfCamp 3 Shoe	

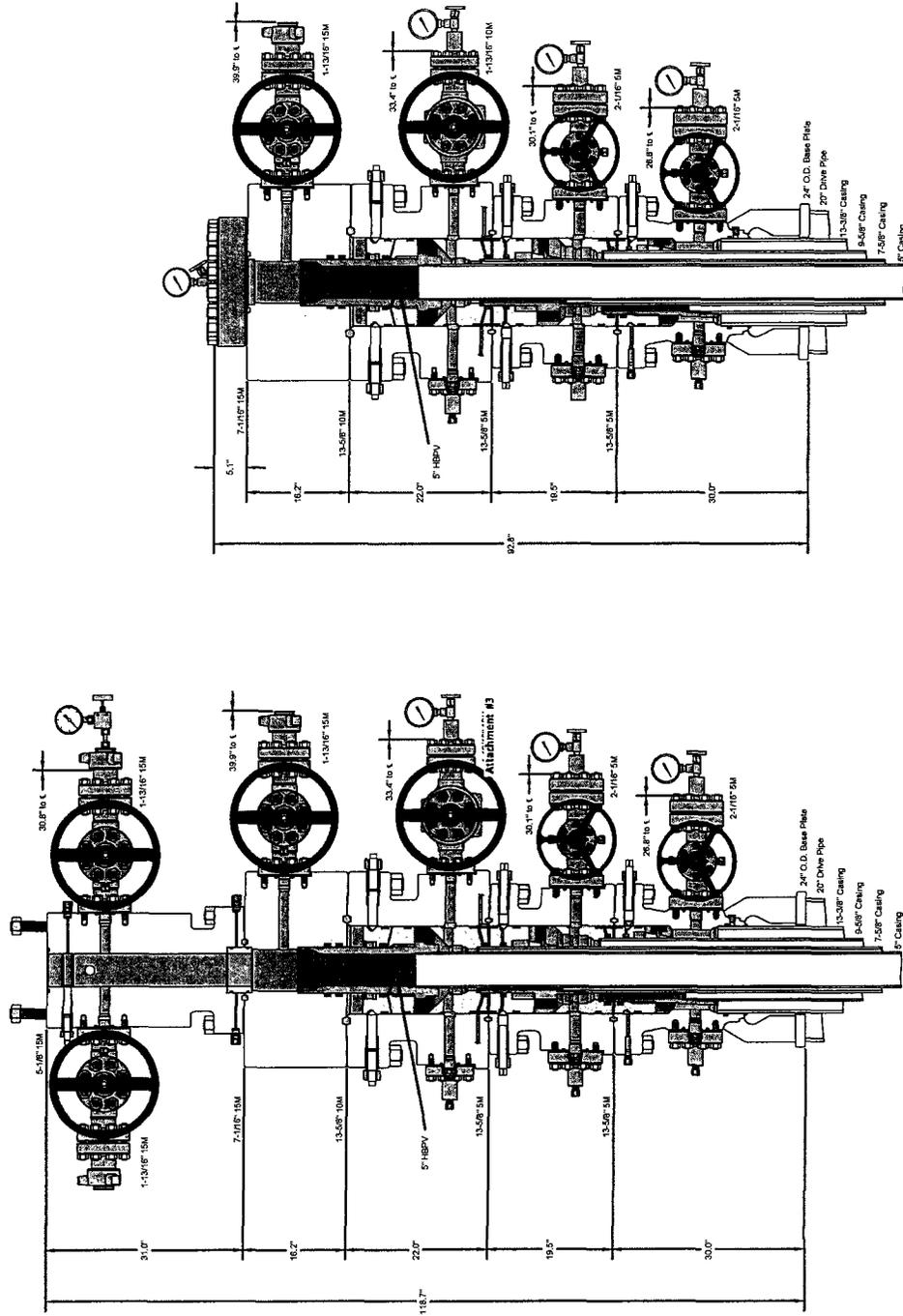
<b>Completion</b>	
Type:	
Tubing Design:	
Total Stages:	

19,170 ft Prod Shoe  
19,170 ft TD



GE Oil & Gas

# Attachment #3



ALL DIMENSIONS ARE APPROXIMATE

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20" x 13-3/8" x 9-5/8" x 7-5/8" x 5" 10/15M  
SH2/Conventional Wellhead Assembly

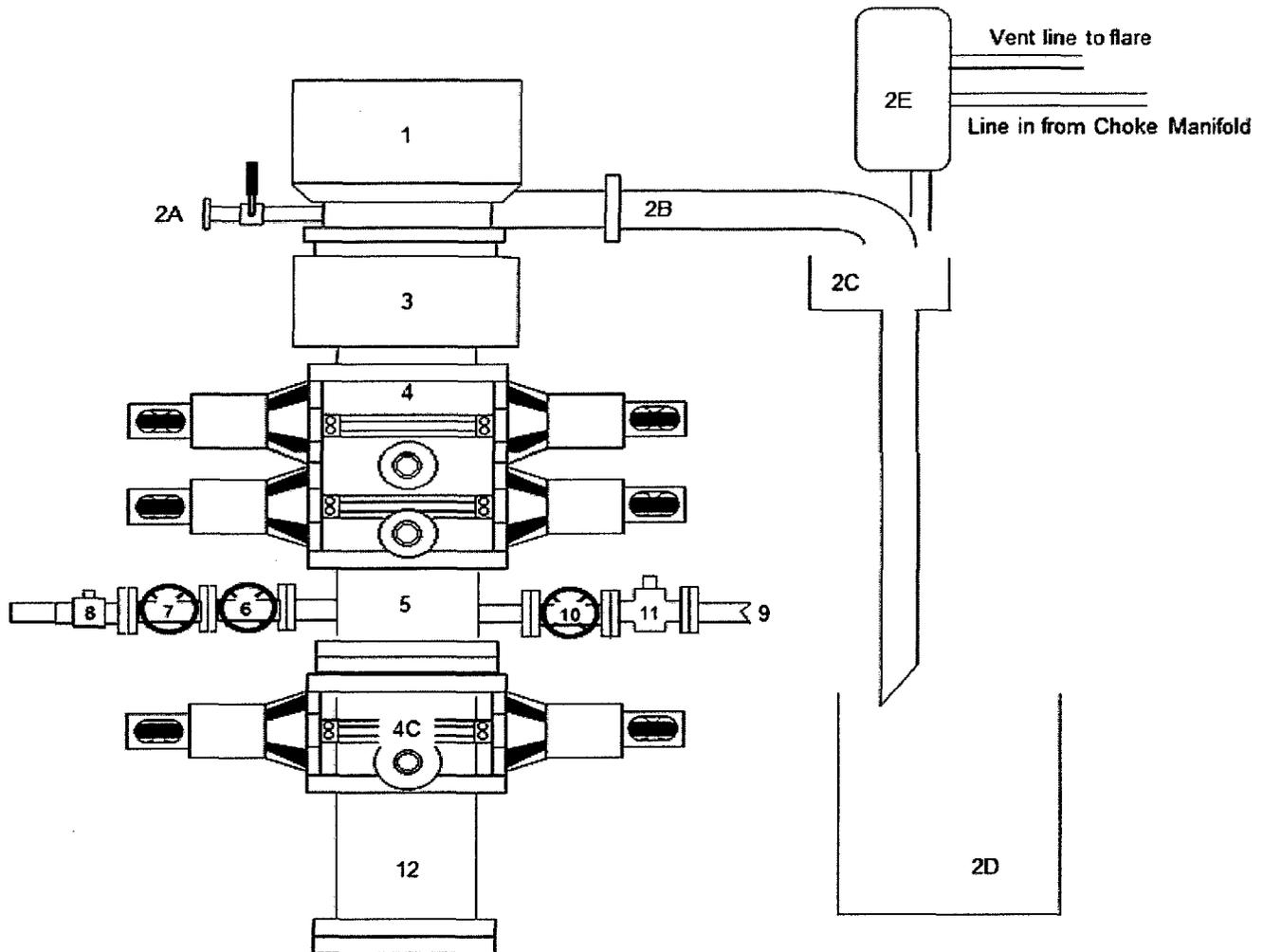
CONOCO PHILLIPS  
WOLFCAMP

DRAWN	CDG	06JUN14
APPROV	VJK	06JUN14
FOR REFERENCE ONLY		PE00577
DRAWING NO.		

# Attachment #4

## BLOWOUT PREVENTER ARRANGEMENT - H&P486

10M System per Onshore Oil and Gas Order No. 2 utilizing 10M Rated Equipment

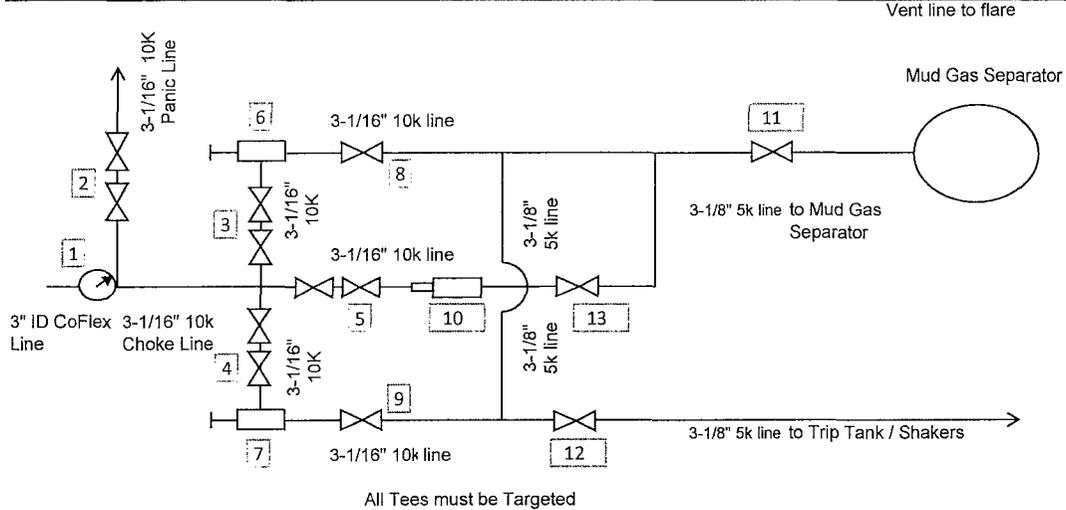


Item	Description
1	Rotating Head
2A	Fill up Line and Valve
2B	Flow Line (8")
2C	Shale Shakers and Centrifuges
2D	Cuttings Bins for Zero Discharge
2E	Mud Gas Separator with vent line to flare and return line to mud system
3	Annular Preventer (13-5/8", 10M)
4	Double Ram (13-5/8", 10M, Blind Ram bottom x Pipe Ram top)
5	Drilling Spool (13-5/8" 10M)
4C	Single Ram (13-5/8", 10M, Pipe Rams)
6	Kill Line Gate Valve, Inner (4-1/16", 10k psi WP)
7	Kill Line Gate Valve, Outer (4-1/16", 10k psi WP)
8	Kill Line Check Valve (4-1/16, 10k psi WP)
9	CoFlex hoke Line (4-1/16", 10k psi WP)
10	Choke Line Gate Valve, Inner (4-1/16", 10k psi WP)
11	Choke Line Hydraulically Operated Gate Valve, Outer, (4-1/6" 10k psi WP HCR)
12	Drilling Spool Adapter (13-5/8", 10M)

Drawn by:  
 James Chen, P.E.  
 Drilling Engineer, ConocoPhillips Company  
 Date: June 25th-2014

# Attachment #5

**CHOKE MANIFOLD ARRANGEMENT - HP486**  
 10M System per Onshore Oil and Gas Order No. 2 utilizing 5M/10M Equipment



Item	Description
1	Pressure Gauge
2	2 Gate Valves, 3-1/16" 10M
3	2 Gate Valves, 3-1/16" 10M
4	2 Gate Valves, 3-1/16" 10M
5	2 Gate Valves, 3-1/16" 10M
6	Upper Manual Adjustable Choke, 4-1/16", 10M
7	Lower Manual Adjustable Choke, 4-1/16", 10M
8	Gate Valve, 3-1/16" 10M
9	Gate Valve, 3-1/16" 10M
10	Remote Controlled Hydraulic Adjustable Choke, 4-1/16", 10M
11	Gate Valve, 3-1/8" 5M
12	Gate Valve, 3-1/8" 5M
13	Gate Valve, 3-1/16" 10M

The 10M Choke Manifold & Valves will be tested to rated working pressure.

Drawn by:  
 James Chen, P.E.  
 Drilling Engineer, ConocoPhillips Company  
 Date: June 25th-2014

# Attachment #6

February 04 2014



**Connection:** TenarisXP BTC  
**Casing/Tubing:** CAS  
**Coupling Option:** REGULAR

**Size:** 4.500 in.  
**Wall:** 0.337 in.  
**Weight:** 15.10 lbs/ft  
**Grade:** P110  
**Min. Wall Thickness:** 87.5 %

PIPE BODY DATA			
GEOMETRY			
Nominal OD	4.500 in.	Nominal Weight	15.10 lbs/ft
Nominal ID	3.826 in.	Wall Thickness	0.337 in.
Plain End Weight	15.00 lbs/ft	Standard Drift Diameter	3.701 in.
		Special Drift Diameter	N/A
PERFORMANCE			
Body Yield Strength	485 x 1000 lbs	Internal Yield	14420 psi
Collapse	14350 psi	SMYS	110000 psi
TENARISXP BTC CONNECTION DATA			
GEOMETRY			
Connection OD	5.100 in.	Coupling Length	9.075 in.
Critical Section Area	4.407 sq. in.	Threads per in.	5.00
		Connection ID	3.814 in.
		Make-Up Loss	4.016 in.
PERFORMANCE			
Tension Efficiency	100 %	Joint Yield Strength	485 x 1000 lbs
Structural Compression Efficiency	100 %	Structural Compression Strength	485 x 1000 lbs
External Pressure Capacity	14350 psi	Internal Pressure Capacity <sup>(1)</sup>	14420 psi
		Structural Bending <sup>(2)</sup>	112 °/100 ft
ESTIMATED MAKE-UP TORQUES <sup>(3)</sup>			
Minimum	7960 ft-lbs	Target	8840 ft-lbs
		Maximum	9720 ft-lbs
BLANKING DIMENSIONS			
<u>Blanking Dimensions</u>			

(1) Internal Pressure Capacity related to structural resistance only. Internal pressure leak resistance as per section 10.3 API 5C3 / ISO 10400 - 2007.

July 07 2014



**Connection:** Blue®  
**Casing/Tubing:** CAS  
**Coupling Option:** REGULAR

**Size:** 5.000 in.  
**Wall:** 0.437 in.  
**Weight:** 21.40 lbs/ft  
**Grade:** P110  
**Min. Wall Thickness:** 87.5 %

**PIPE BODY DATA**  
**GEOMETRY**

Nominal OD	<b>5.000 in.</b>	Nominal Weight	<b>21.40 lbs/ft</b>	Standard Drift Diameter	<b>4.001 in.</b>
Nominal ID	<b>4.126 in.</b>	Wall Thickness	<b>0.437 in.</b>	Special Drift Diameter	<b>N/A</b>
Plain End Weight	<b>21.32 lbs/ft</b>				

**PERFORMANCE**

Body Yield Strength	<b>689 x 1000 lbs</b>	Internal Yield	<b>16820 psi</b>	SMYS	<b>110000 psi</b>
Collapse	<b>17550 psi</b>				

**BLUE® CONNECTION DATA**  
**GEOMETRY**

Connection OD	<b>5.693 in.</b>	Coupling Length	<b>10.551 in.</b>	Connection ID	<b>4.185 in.</b>
Critical Section Area	<b>6.265 sq. in.</b>	Make-Up Loss	<b>4.579 in.</b>	Threads per in.	<b>5.00</b>

**PERFORMANCE**

Tension Efficiency	<b>100 %</b>	Joint Yield Strength	<b>689 x 1000 lbs</b>	Internal Pressure Capacity	<b>16820 psi</b>
Compression Efficiency	<b>100 %</b>	Compression Strength	<b>689 x 1000 lbs</b>	Bending	<b>101 °/100 ft</b>
External Pressure Capacity	<b>17550 psi</b>				

**MAKE-UP TORQUES**

Minimum	<b>7650 ft-lbs</b>	Target	<b>8500 ft-lbs</b>	Maximum	<b>9350 ft-lbs</b>
Yield Torque	<b>20810 ft-lbs</b>				

**SHOULDER TORQUES**

Minimum	<b>1280 ft-lbs</b>	Maximum	<b>7230 ft-lbs</b>
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**BLANKING DIMENSIONS**

March 05 2014



**Size:** 7.625 in.  
**Wall:** 0.430 in.  
**Weight:** 33.70 lbs/ft  
**Grade:** P110  
**Min. Wall Thickness:** 87.5 %

**Connection:** Wedge 523™  
**Casing/Tubing:** CAS

PIPE BODY DATA			
GEOMETRY			
Nominal OD	<b>7.625 in.</b>	Nominal Weight	<b>33.70 lbs/ft</b>
Nominal ID	<b>6.765 in.</b>	Wall Thickness	<b>0.430 in.</b>
Plain End Weight	<b>33.07 lbs/ft</b>	Standard Drift Diameter	<b>6.640 in.</b>
		Special Drift Diameter	<b>N/A</b>
PERFORMANCE			
Body Yield Strength	<b>1069 x 1000 lbs</b>	Internal Yield	<b>10860 psi</b>
Collapse	<b>7870 psi</b>	SMYS	<b>110000 psi</b>
WEDGE 523™ CONNECTION DATA			
GEOMETRY			
Connection OD	<b>7.775 in.</b>	Connection ID	<b>6.675 in.</b>
Critical Section Area	<b>7.057 sq. in.</b>	Threads per in.	<b>3.06</b>
		Make-Up Loss	<b>4.060 in.</b>
PERFORMANCE			
Tension Efficiency	<b>72.6 %</b>	Joint Yield Strength	<b>776 x 1000 lbs</b>
Compression Strength	<b>881 x 1000 lbs</b>	Compression Efficiency	<b>82.4 %</b>
External Pressure Capacity	<b>7870 psi</b>	Internal Pressure Capacity	<b>10860 psi</b>
		Bending	<b>48 °/100 ft</b>
MAKE-UP TORQUES			
Minimum	<b>9900 ft-lbs</b>	Target	<b>11900 ft-lbs</b>
		Maximum (±)	<b>17300 ft-lbs</b>
OPERATIONAL LIMIT TORQUES			
Operating Torque	<b>42000 ft-lbs</b>	Yield Torque	<b>63000 ft-lbs</b>
BLANKING DIMENSIONS			
<u>Blanking Dimensions</u>			

\* If you need to use torque values that are higher than the maximum indicated, please contact a local Tenaris technical sales representative.

# Attachment #7

## Request for Variance

### ConocoPhillips Company

Rig: If drilled with H&P 486

Date: 7/24/2014

#### **Request:**

ConocoPhillips Company respectfully requests a variance to install a flexible choke line instead of a straight choke line prescribed in the Onshore Order No. 2, III.A.2.b Minimum standards and enforcement provisions for choke manifold equipment. This request is made under the provision of Onshore Order No. 2, IV Variances from Minimum Standard. The rig to be used to drill this well is equipped with a flexible choke line if the requested variance is approved and determined that the proposed alternative meets the objectives of the applicable minimum standards.

#### **Justifications:**

The applicability of the flexible choke line will reduce the number of target tees required to make up from the choke valve to the choke manifold. This configuration will facilitate ease of rig up and BOPE Testing.

#### **Attachments:**

- Attachment # 1 Specification from Manufacturer
- Attachment # 2 Mill & Test Certification from Manufacturer

#### **Contact Information:**

Program prepared by:

Jason A. Levinson

Drilling Engineer, ConocoPhillips Company

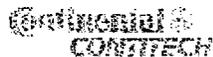
Phone (281) 206-5335

Cell (281) 682-2783

Date: 05 February 2014

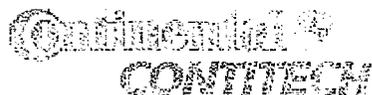
Attachment # 1

CONTITECH RUBBER Industrial Kft.	No: QC-DB- 45 / 2012
	Page: 9 / 50



Hose Data Sheet

CRI Order No.	516273
Customer	ContiTech Beattie Co.
Customer Order No	PD5438 STOCK
Item No.	3
Hose Type	Flexible Hose
<b>Standard</b>	<b>API SPEC 16 C</b>
Inside dia in inches	3
Length	35 ft
Type of coupling one end	FLANGE 4 1/16" API SPEC 6A TYPE 6BX FOR 10000 PSIBX155 RING GROOVE
Type of coupling other end	FLANGE 4 1/16" API SPEC 6A TYPE 6BX FOR 10000 PSI BX155 RING GROOVE
H2S service NACE MR0175	Yes
Working Pressure	10 000 psi
Design Pressure	10 000 psi
Test Pressure	15 000 psi
Safety Factor	2,25
Marking	USUAL PHOENIX
Cover	NOT FIRE RESISTANT
Outside protection	Steel outer wrap
Internal stripwound tube	No
Lining	OIL RESISTANT
Safety clamp	No
Lifting collar	No
Element C	No
Safety chain	No
Safety wire rope	No
Max.design temperature [°C]	100
Min.design temperature [°C]	-20
MBR operating [m]	1,60
MBR storage [m]	1,40
Type of packing	WOODEN CRATE ISPM-15



QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 184	
PURCHASER: ContiTech Beattie Co.				P.O. N°: 006438	
CONTITECH ORDER N°: 516273		HOSE TYPE: 3" ID Choke and Kill Hose			
HOSE SERIAL N°: 61477		NOMINAL / ACTUAL LENGTH: 10,67 m / 10,71 m			
W.P. 68,9 MPa 10000 psi		T.P. 103,4 MPa 15000 psi		Duration: 60 min.	
Pressure test with water at ambient temperature  See attachment. ( 1 page )  ↑ 10 mm = 10 Min. → 10 mm = 20 MPa					
COUPLINGS Type		Serial N°		Quality	
3" coupling with 4 1/16" 10K API Flange end		10178 10173		AISI 4130 AISI 4130	
				Heat N° 20231 33051	
<b>NOT DESIGNED FOR WELL TESTING</b>				<b>API Spec 16 C</b>	
				<b>Temperature rate: "B"</b>	
All metal parts are flawless					
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.					
STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.					
COUNTRY OF ORIGIN HUNGARY/EU					
Date:		Inspector		Quality Control	
30. January 2012.				ContiTech Rubber Industrial Kft. Quality Control Dept. 	

ContiTech Rubber Industrial Kft.  
 Budapest 110, Szeged 110720  
 P.O. Box 162 Szeged H-6701  
 Hungary

Phone: +36 62 555 737  
 Fax: +36 62 565 738  
 e-mail: info@industrial.contitech.hu  
 Internet: www.contitechrubber.hu

The Court of Commercial County as  
 Registry Court  
 Registry Court No. 11/05-02-00502  
 Budapest H. No. 1047209

Bank: 1225  
 CIB Bank Zrt.  
 Budapest  
 11210105-20930253-00000003



## **Request for Variance**

### **ConocoPhillips Company**

Rig: If drilled with H&P 453

Date: 7/24/2014

#### **Request:**

ConocoPhillips Company respectfully requests a variance to install a flexible choke line instead of a straight choke line prescribed in the Onshore Order No. 2, III.A.2.b Minimum standards and enforcement provisions for choke manifold equipment. This request is made under the provision of Onshore Order No. 2, IV Variances from Minimum Standard. The rig to be used to drill this well is equipped with a flexible choke line if the requested variance is approved and determined that the proposed alternative meets the objectives of the applicable minimum standards.

#### **Justifications:**

The applicability of the flexible choke line will reduce the number of target tees required to make up from the choke valve to the choke manifold. This configuration will facilitate ease of rig up and BOPE Testing.

#### **Attachments:**

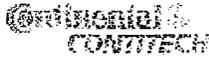
- Attachment # 1 Specification from Manufacturer
- Attachment # 2 Mill & Test Certification from Manufacturer

#### **Contact Information:**

Program prepared by:  
Jason A. Levinson  
Drilling Engineer, ConocoPhillips Company  
Phone (281) 206-5335  
Cell (281) 682-2783  
Date: 05 February 2014

Attachment # 1

CONTITECH RUBBER Industrial Kft.	No: QC-DB- 45 / 2012
	Page: 9 / 50



**Hose Data Sheet**

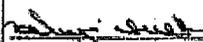
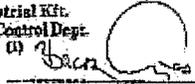
CRI Order No.	516273
Customer	ContiTech Beattie Co.
Customer Order No	PO5438 STOCK
Item No.	3
Hose Type	Flexible Hose
<b>Standard</b>	<b>API SPEC 16 C</b>
Inside dia in inches	3
Length	35 ft
Type of coupling one end	FLANGE 4 1/16" API SPEC 6A TYPE 6BX FOR 10000 PSIBX155 RING GROOVE
Type of coupling other end	FLANGE 4 1/16" API SPEC 6A TYPE 6BX FOR 10000 PSI BX155 RING GROOVE
H2S service NACE MR0175	Yes
Working Pressure	10 000 psi
Design Pressure	10 000 psi
Test Pressure	15 000 psi
Safety Factor	2.25
Marking	USUAL PHOENIX
Cover	NOT FIRE RESISTANT
Outside protection	St. steel outer wrap
Internal stripwound tube	No
Lining	OIL RESISTANT
Safety clamp	No
Lifting collar	No
Element C	No
Safety chain	No
Safety wire rope	No
Max. design temperature [°C]	100
Min. design temperature [°C]	-20
MBR operating [m]	1.60
MBR storage [m]	1.40
Type of packing	WOODEN CRATE ISPM-15



Fluid Technology

Quality Document

453.369-001

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 1098	
PURCHASER: ContiTech Beattie Co.			P.O. N°: 004452		
CONTITECH ORDER N°:	482598	HOSE TYPE:	3" ID	Choke and Kill Hose	
HOSE SERIAL N°:	56839	NOMINAL / ACTUAL LENGTH:		10,67 m / 10,69 m	
W.P.	68,9 MPa	10000 psi	T.P.	103,4 MPa	15000 psi
Duration:		60 min.			
Pressure test with water at ambient temperature					
See attachment. ( 1 page )					
↑ 10 mm = 10 Min. → 10 mm = 25 MPa					
COUPLINGS Type	Serial N°	Quality	Heat N°		
3" coupling with 4 1/16" Flange end	8436 1882	AISI 4130	18837		
		AISI 4130	31286 31501		
<b>API Spec 16 C</b>					
<b>Temperature rate: "B"</b>					
All metal parts are flawless.					
<b>WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.</b>					
STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.					
COUNTRY OF ORIGIN HUNGARY:EU					
Date:	Inspector	Quality Control			
02. November 2010.		ContiTech Rubber Industrial Kft. Quality Control Dept.  			



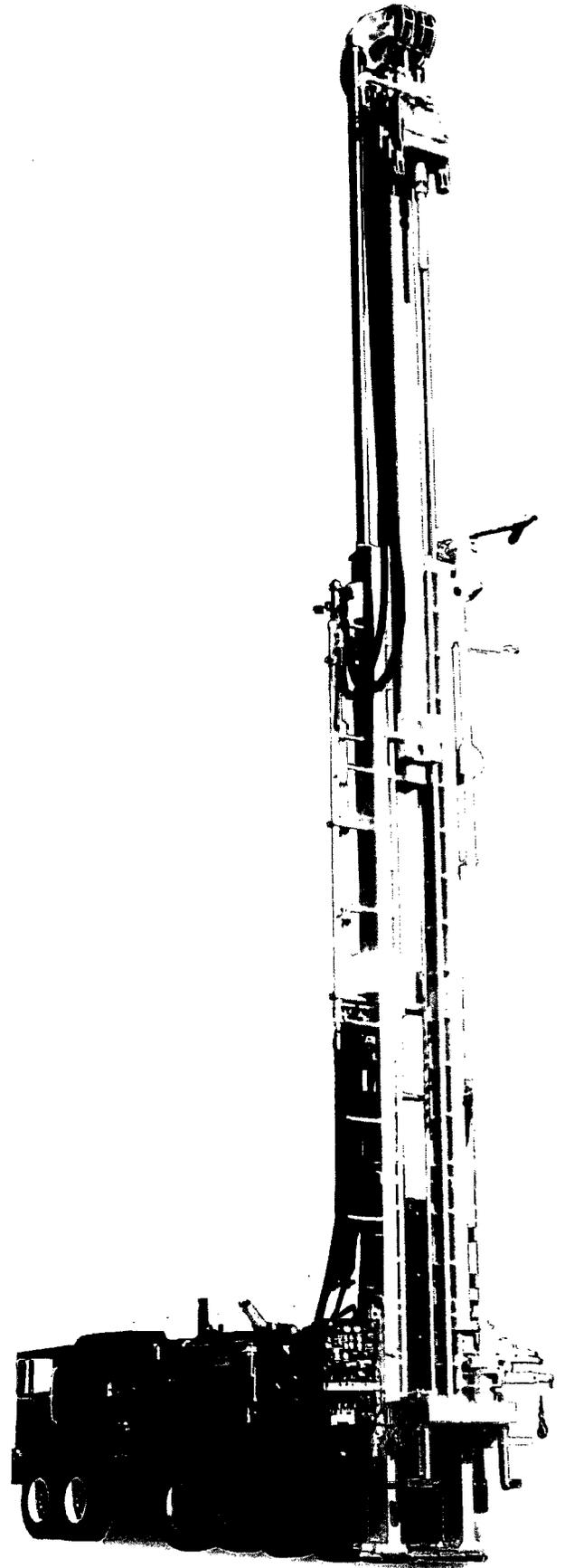
**Attachment #8**

# T130XD

A heavy duty, heavy hoist carrier mounted drill rig. The T130XD utilizes innovative Telemast technology to achieve Range III pipe capability in a compact over the road package.

- Equipped with Schramm Telemast
- 50' head travel handles Range III casing
- 43' transport length with less than 6' overhang
- 130,000 lbs hoist
- No sub-structure required
- Mast slides to clear BOP

**ROTADRILL**



**CARRIER MOUNTED RIG EQUIPPED WITH TELEMAST**

## T130XD ROTADRILL SPECIFICATIONS

### Engine

Detroit Diesel DDC/MTU 12V-2000TA DDEC  
760 bhp (567 kw) @ 1800 rpm

### Standard Compressor

Variable volume two-stage, oil flooded  
rotary screw  
1350 cfm @ 350 psi (38.0 cu. m/min @ 24.1 bar),  
up to 1150 cfm @ 500 psi (32.6 cu. m/min @  
35.5 bar)

### Cooling

Three core, side by side type  
130°F (54.4°C) ambient design temp.

### Dimensions

OA length, transport - 42' 9" (13 m)  
OA width - 8' 6" (2.6 m)  
OA height, transport - 13' 6" (4.1 m)  
Weight std. rig - 92,000 lb (41,723 kg)

### Carrier

CCC 8x4 Carrier  
Cat C-13, 410 hp @ 2100 rpm engine  
44,000 lb (19,955 kg) front axles  
21,500 lb (9,750 kg) pusher axle  
52,000 lb (23,587 kg) rear axles  
117,500 lb (53,298 kg) GVWR

### Top Head Rotation

Ductile iron, single reduction oil bath gearbox  
with two disc valve type hydraulic motors.  
Infinitely variable rotation speed.  
3.5:1 Reduction Gear  
3" diameter (76.2 mm) spindle thru hole  
0-143 rpm, infinitely variable  
106,600 in-lb (12,045 N·m) torque

### Feed System

Top head is driven by hydraulic traverse  
cylinders through special wire rope and large  
diameter Nylatron sheaves. As top head is raised,  
the inner mast section extends by a ratio of 1:2  
until it reaches its fully extended position at 50'  
of clear head travel.  
42' 9" (13 m) OA height (retracted)  
69' 9" (21.65 m) OA height (extended)  
50' (15.24 m) top head travel  
130,000 lb (59,090 kg) pullup  
8 fpm (2.44 mpm) pullup speed-slow feed  
125 fpm (38.1 mpm) pullup speed-rapid feed  
32,000 lb (14,545 kg) pulldown capacity  
26 fpm (7.92 mpm) pulldown speed-slow feed  
270 fpm (82.3 mpm) pulldown speed-rapid feed  
52' 10" (16.1 m) working clearance mast spindle  
to table (sub removed)  
48' 10" (14.9 m) working clearance mast sub to  
table

### Drill Pipe & Casing

30' x 4-1/2" OD x 2-7/8" IF breakout style drill pipe,  
range III casing  
28" (711 mm) max. diameter through slipbox

### Mast

Telescoping construction permits long head travel  
and working height, yet short OA length in  
transport position.

32" (813 mm) cylinder operated slide  
Free-standing mast  
hydraulically operated adjustable mast feet  
hydraulically retracted slip box  
20" (508 mm) table opening w/o slips

### Winch

Planetary with spring applied hydraulic  
release brake  
9,600 lb (4,354 kg) bare drum line pull  
151 fpm (46 mpm) bare drum line speed

### Hydraulic System

Open loop load sensing system  
7 micron filtration  
200 gallon (760 l) system capacity

### Water Injection System

25 gpm (95 lpm) water pump  
Electric foam pump

### Outriggers

Front - (1) 5" bore x 41" stroke  
(127 mm x 1.4 m)  
Rear - (2) 5" bore x 41" stroke  
(127 mm x 1.4 m)

### Tool Lubricator

Positive displacement, air pump operated  
piston type pump variable to 5.0 gph  
(18.9 lph)

### Lighting & Electrical System - 24 Volt

Mast - (4) 60 watt floodlights  
Control Panel - (2) 60 watt gauge floodlights  
Work - (3) 70 watt halogen

### Accessories

Pipe handling sling, 60" breakout wrench,  
and 50 hour maintenance kit.

### Optional Equipment

Many modifications are available including:  
Third driving axle  
Reverse circulation package  
Tilt-out top head  
High capacity top head  
Single pipe loading arm  
Auxiliary winch controls  
Auxiliary air supply

These specifications are based on theoretical calculations and  
industry standards. Performance will vary according to actual  
drilling conditions. Schramm, Inc. continuously improves its products  
and reserves the right to change specifications, design, prices  
and terms at any time without notification or obligation. These  
specifications do not extend any warranty, expressed or implied,  
nor do they or Schramm, Inc. make or imply any representation of  
the machine's merchantability or fitness for a particular purpose.



www.schramm.com

SCHRAMM, INC.

800 E. Virginia Avenue  
West Chester, PA 19380 USA

Phone: 610-696-2500

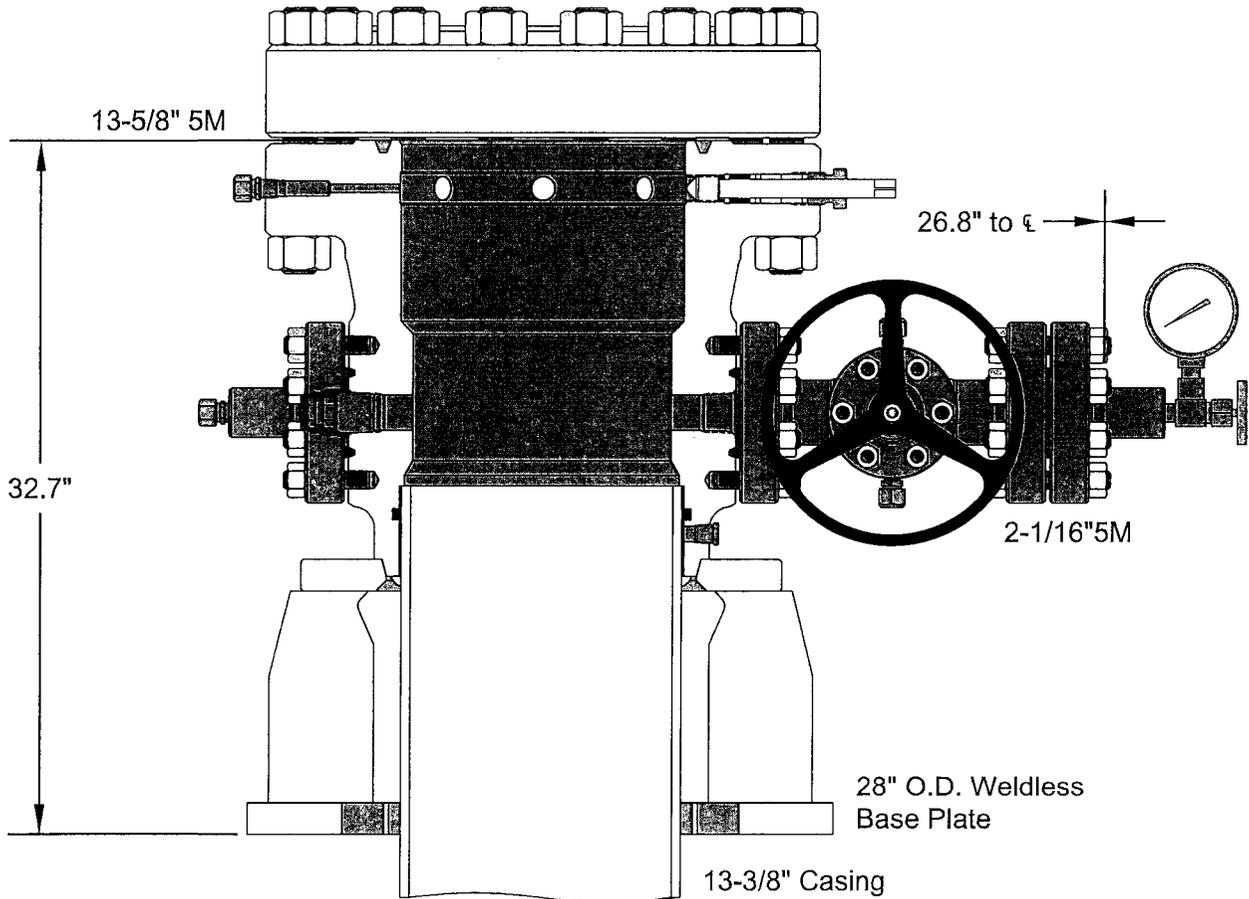
Fax: 610-696-6950

E-mail: schramm@schramm.com



GE Oil & Gas

# Attachment #9



ALL DIMENSIONS ARE APPROXIMATE

This drawing is the property of GE Oil & Gas Pressure Control LP and is considered confidential. Unless otherwise approved in writing, neither it nor its contents may be used, copied, transmitted or reproduced except for the sole purpose of GE Oil & Gas Pressure Control LP.

CONOCOPHILLIPS  
SPUDDER RIG

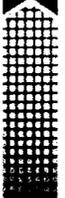
HSG,WG,SH2-LWR,13-5/8 5M X 13-3/8 SOW,W/2 2-1/16 5M FP  
BASEPLATE,WELDLESS,28 OD  
FLANGE,BLIND, 13-5/8 5M

DRAWN	VJK	19AUG14
APPRV	KN	16AUG14
FOR REFERENCE ONLY		
DRAWING NO.		PE00624

# SKID / BATCH DRILLING OPERATIONS – “QUAD PAD”

## SKID / BATCH DRILLING OPERATION PLAN FOR “QUAD PAD”:

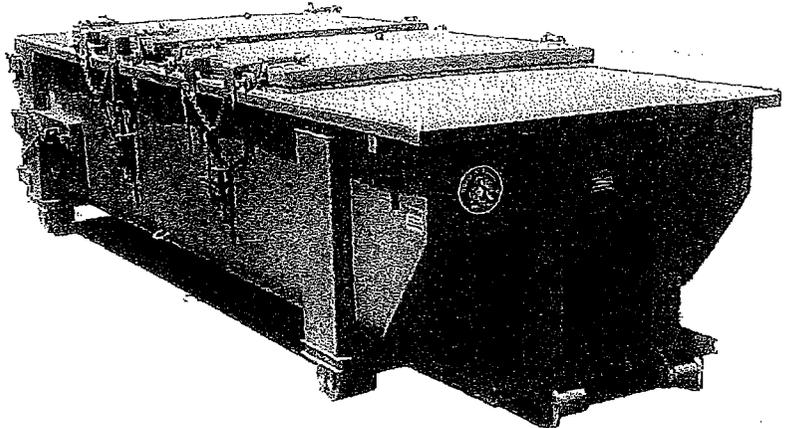
1. ALL SURFACE CASINGS PRE-SET (Pre-set with “Spudder Rig”).
  2. WELL 1 / BS3C. Drill all well (Set 9-5/8” CASING and 5-1/2” CASING) – WBM All Hole Sections.
  3. WELL 2 / WolfCamp 3. 9-5/8” CASING and 7-5/8 CASING – WBM.
  4. WELL 3 / WolfCamp 2. 9-5/8” CASING and 7-5/8 CASING – WBM.
  5. WELL 4 / WolfCamp 1. 9-5/8” CASING and 7-5/8 CASING – WBM.
  6. WELL 4 / WolfCamp 1. 5”x4-1/2” CASING – OBM.
  7. WELL 3 / WolfCamp 2. 5”x4-1/2” CASING – OBM.
  8. WELL 2 / WolfCamp 3. 5”x4-1/2” CASING – OBM.
  9. RIG RELEASE.
- “INTERMEDIATE 1” and “INTERMEDIATE 2” BATCH*
- “PRODUCTION” BATCH*



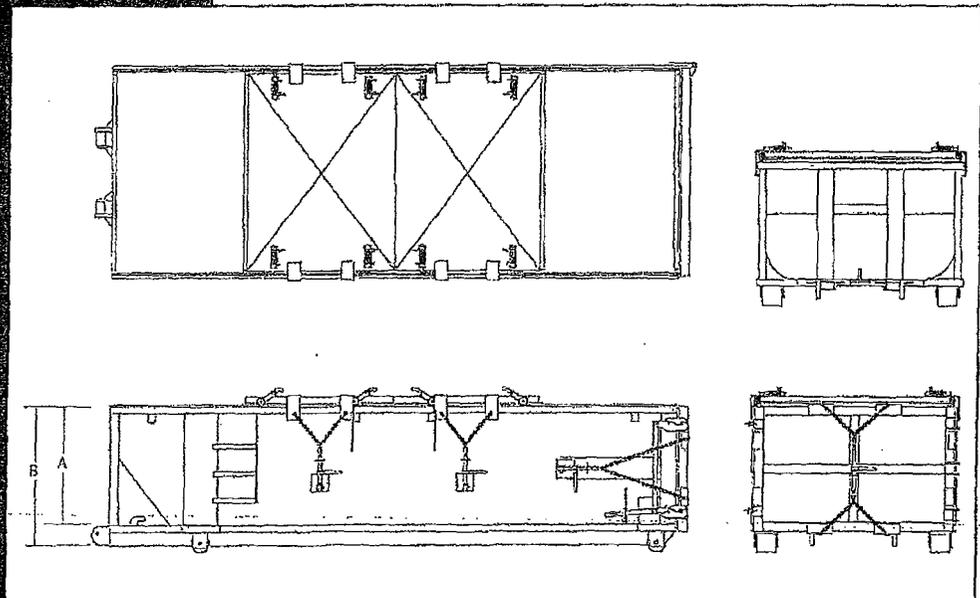
# SPECIFICATIONS

FLOOR: 3/16" PL one piece  
 CROSS MEMBER: 3 x 4.1 channel 16" on center  
 WALLS: 3/16" PL solid welded with tubing top, inside liner hooks  
 DOOR: 3/16" PL with tubing frame  
 FRONT: 3/16" PL slant formed  
 PICK UP: Standard cable with 2" x 6" x 1/4" rails, gusset at each crossmember  
 WHEELS: 10 DIA x 9 long with rease fittings  
 DOOR LATCH: 3 Independent ratchet binders with chains, vertical second latch  
 GASKETS: Extruded rubber seal with metal retainers  
 WELDS: All welds continuous except sub-structure crossmembers  
 FINISH: Coated inside and out with direct to metal, rust inhibiting acrylic enamel color coat  
 HYDROTESTING: Full capacity static test  
 DIMENSIONS: 22'-11" long (21'-8" inside), 99" wide (88" inside), see drawing for height  
 OPTIONS: Steel grit blast and special paint, Ampliroff, Heil and Dino pickup  
 ROOF: 3/16" PL roof panels with tubing and channel support frame  
 LIDS: (2) 68" x 90" metal rolling lids spring loaded, self raising  
 ROLLERS: 4" V-groove rollers with delrin bearings and grease fittings  
 OPENING: (2) 60" x 82" openings with 8" divider centered on container  
 LATCH: (2) independent ratchet binders with chains per lid  
 GASKETS: Extruded rubber seal with metal retainers

# Heavy Duty Split Metal Rolling Lid



CONT.	A	B
20 YD	41	53
25 YD	53	65
30 YD	65	77



## Closed Loop System Design, Operating and Maintenance, and Closure Plan

ConocoPhillips Company

Well: Stampede 34 Federal Com W3 9H

Location: Sec. 34, T26S, R31E

Date: 12/9/2014

ConocoPhillips proposes the following plan for design, operating and maintenance, and closure of our proposed closed loop system for the above named well:

1. We propose to use a closed loop system with steel pits, haul-off bins, and frac tanks for containing all cuttings, solids, mud, water, brine, and liquids. We will not dig a pit, nor will we use a drying pad, nor will we build an earth pit above ground level, nor will we dispose of or bury any waste on location.

All drilling waste and all drilling fluids (fresh water, brine, mud, cuttings, drill solids, cement returns, and any other liquid or solid that may be involved) will be contained on location in the rig's steel pits or in haul-off bins or in frac tanks as needed. The intent is as follows:

- We propose to use the rigs' steel pits for containing and maintaining the drilling fluids.
- We propose to remove cuttings and drilled solids from the mud by using solids control equipment and to contain such cuttings and drilled solids on location in haul-off bins.
- We propose that any excess water that may need to be stored on location will be stored in tanks.

**The closed loop system components will be inspected daily by each tour and any needed repairs will be made immediately. Any leak in the system will be repaired immediately, and any spilled liquids and/or solids will be cleaned immediately, and the area where any such spill occurred will be remediated immediately.**

2. Cuttings and solids will be removed from location in haul-off bins by an authorized contractor and disposed of at an authorized facility. For this well, we propose the following disposal facility:

R-360 Inc.

4507 West Carlsbad Hwy, Hobbs, NM 88240,

P.O. Box 388; Hobbs, New Mexico 88241

Toll Free Phone: 877.505.4274, Local Phone Number: 432.638.4076

The physical address for the plant where the disposal facility is located is Highway 62/180 at mile marker 66 (33 miles East of Hobbs, NM and 32 miles West of Carlsbad, NM).

The Permit Number for R-360 is NM-01-0006.

A photograph showing the type of haul-off bins that will be used is attached.

3. Mud will be transported by vacuum truck and disposed of at R-360 Inc. at the facility described above.
4. Fresh Water and Brine will be hauled off by vacuum truck and disposed of at an authorized salt water disposal well. We propose the following for disposal of fresh water and brine as needed:
  - Nabors Well Services Company, 3221 NW County Rd; Hobbs, NM 88240, PO 5208 Hobbs, NM, 88241, Permit SWD 092. (Well Location: **Section 3, T19S R37E**)
  - Basic Energy Services, P.O. Box 1869; Eunice, NM 88231 Phone Number: 575.394.2545, Facility located at Hwy 18, Mile Marker 19; Eunice, NM.

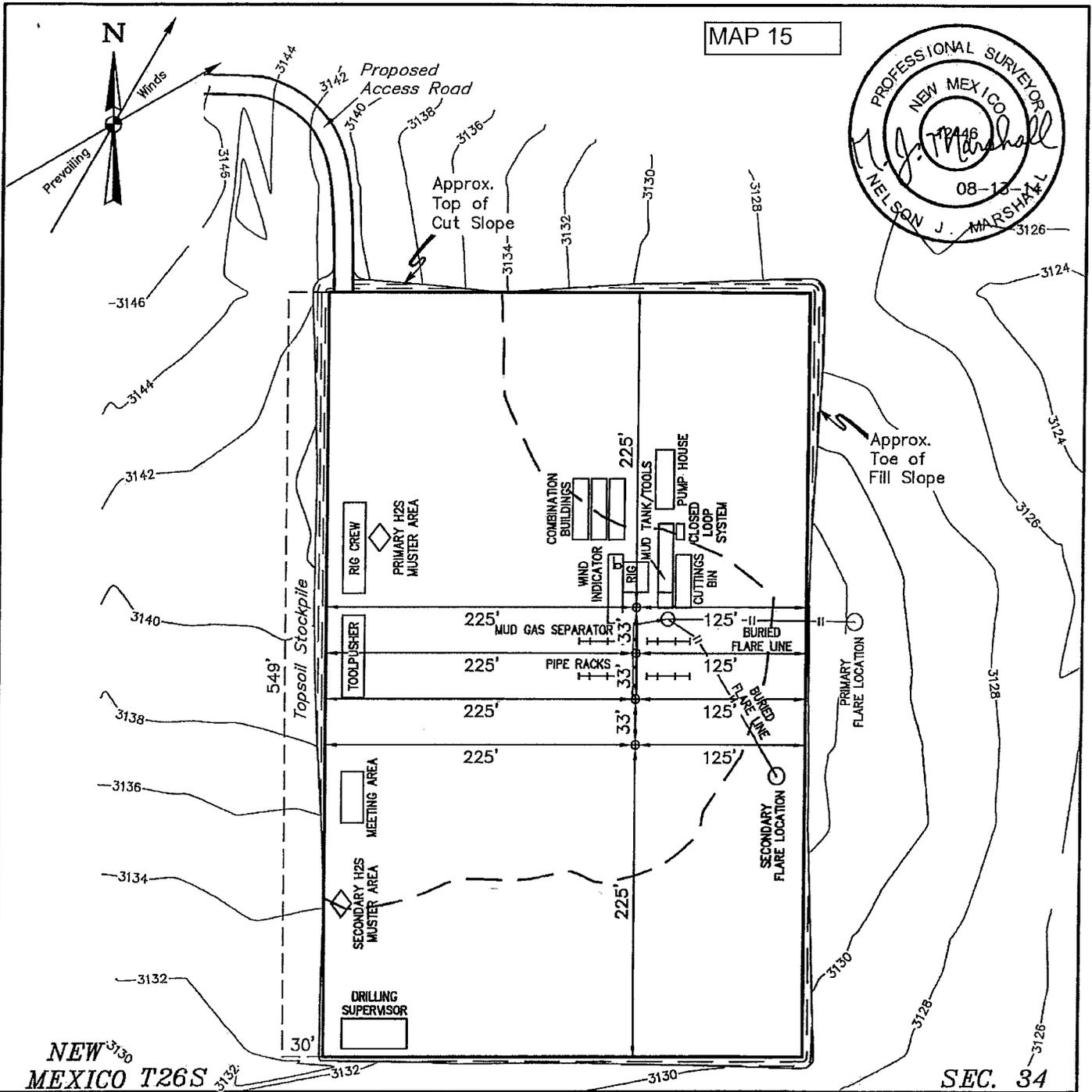
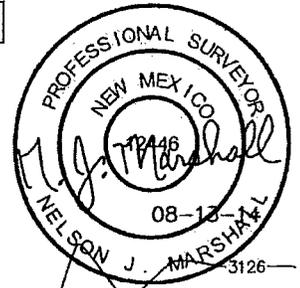
Jason Levinson

Drilling Engineer

Office: 281-206-5334

Cell: 281-682-2783

MAP 15



NEW MEXICO T26S TEXAS

SEC. 34

**NOTES:**

- Flare pit is to be located a min. of 160' from the wellhead.
- Contours shown at 2' intervals.

**ConocoPhillips Company**

STAMPEDE 34 FEDERAL COM W3 09H,  
W2 10H, W1 11H & TC 12H  
SECTION 34, T26S, R31E, N.M.P.M.  
LOT 3

DRAWN BY: S.F.	DATE DRAWN: 08-05-14
SCALE: 1" = 100'	REVISED: 00-00-00

**TYPICAL RIG LAYOUT FIGURE #3**

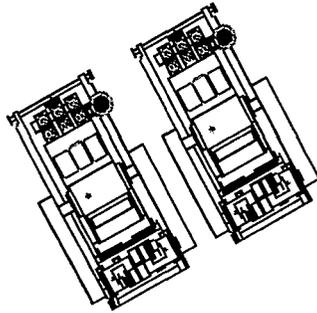


**UELS, LLC**  
Corporate Office \* 85 South 200 East  
Vernal, UT 84078 \* (435) 789-1017

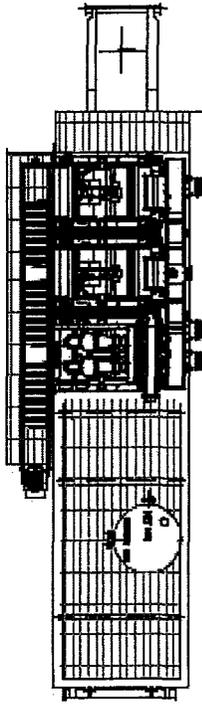
120'

60'

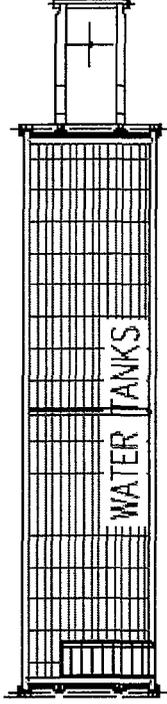
20'



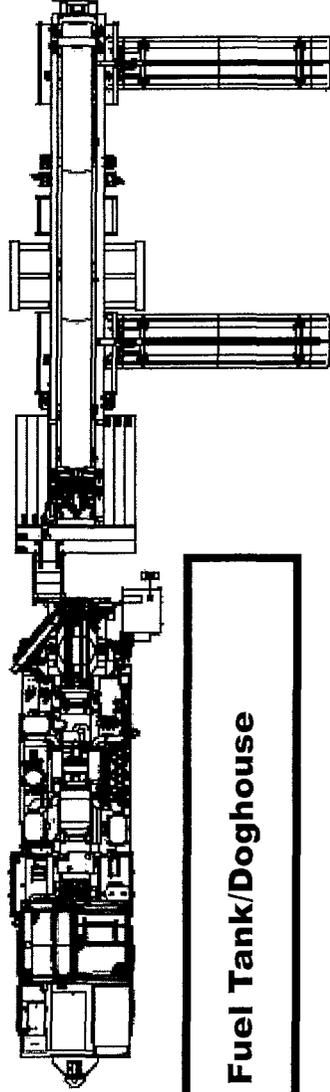
Mud Pumps



Mud Tank/Generator



WATER TANKS



Fuel Tank/Doghouse



T130XD

# "Pinnergy #1" Spudder Rig Layout





## H<sub>2</sub>S Contingency Plan

H<sub>2</sub>S Contingency Plan Holders:

Attached is an H<sub>2</sub>S Contingency Plan for COPC Permian Drilling working in the West Texas and Southeastern New Mexico areas operated by ConocoPhillips Company.

If you have any questions regarding this plan, please call Tom Samarra at ConocoPhillips Company, 432.368.1263.

## Table of Contents

### Section

#### **I. Purpose**

#### **II. Scope**

#### **III. Procedures**

#### **IV. Emergency Equipment and Maintenance**

Emergency Equipment Suppliers

General Information

H2S Safety Equipment and Monitoring Systems

#### **V. Emergency Call List**

#### **VI. Public/Media Relations**

#### **VII. Public Notification/Evacuation**

#### **VIII. Forms/Reports**



# HYDROGEN SULFIDE (H<sub>2</sub>S) OPERATIONS

Contingency Plan  
For  
Permian Drilling Operations

ConocoPhillips Company  
Mid-Continent Business Unit  
Permian Asset Area

## I. PURPOSE

The purpose of this Contingency Plan is to provide an organized plan of action for alerting and protecting the public following the release of a potentially hazardous volume of hydrogen sulfide. This plan prescribes mandatory safety procedures to be followed in the event of a release of H<sub>2</sub>S into the atmosphere from exploration and production operations included in the scope of this plan. The extent of action taken will be determined by the supervisor and will depend on the severity and extent of H<sub>2</sub>S release. Release of H<sub>2</sub>S must be reported to the Drilling Superintendent and documented on the IADC and in Wellview.

## **II. SCOPE**

This Contingency plan shall cover the West Texas and Southeastern New Mexico areas, which contain H<sub>2</sub>S gas and could result in a release where the R.O.E. is greater than 100 ppm at 50' and less than 3000' and does not include a public area and 500 ppm R.O.E. does not include a public road. Radius of exposure is defined as the maximum distance from the source of release that a specified calculated average concentration of H<sub>2</sub>S could exist under specific weather conditions.

### III. PROCEDURES

#### First Employee on Scene

\_\_\_\_\_ Assess the incident and ensure your own safety.

Note the following:

- \_\_\_\_\_ Location of the incident.
- \_\_\_\_\_ Nature of the incident.
- \_\_\_\_\_ Wind direction and weather conditions.
- \_\_\_\_\_ Other assistance that may be needed.

\_\_\_\_\_ Call local supervisory personnel (refer to Section V: Emergency Call List) until personal contact is made with a person on the list.

\_\_\_\_\_ Perform emergency assessment and response as needed. The response may include rescue and/or evacuation of personnel, shutting in a system and/or notification of nearby residents/public (refer to Section VII: Public Notification/Evacuation).

\_\_\_\_\_ Secure the site.

\_\_\_\_\_ Follow the direction of the On-scene Incident Commander (first ConocoPhillips supervisor arriving on-scene).

#### First Supervisor on Scene (ConocoPhillips On-scene Incident Commander)

\_\_\_\_\_ Becomes ConocoPhillips' On-scene Incident Commander upon arrival to location.

\_\_\_\_\_ Follow the principles of the **D.E.C.I.D.E.** process below to assess the incident. (Note wind direction and weather conditions and ensure everyone's safety).

- DETECT** the problem
- ESTIMATE** likely harm without intervention
- CHOOSE** response objectives
- IDENTIFY** action options
- DO** the best option
- EVALUATE** the progress

\_\_\_\_\_ Complete the Preliminary Emergency Information Sheet (refer to Section VIII: Forms/Reports).

\_\_\_\_\_ Call your supervisor (refer to Section V: Emergency Call List).

- Perform emergency response as necessary. (This may include notification & evacuation of all personnel and/or nearby residents/public (refer to Section VII: Public Notification/Evacuation), requesting assistance from ConocoPhillips personnel or outside agencies (refer to Section V: Emergency Call List) and obtaining any safety equipment that may be required (refer to Section IV: Emergency Equipment and Maintenance).
  
- Notify appropriate local emergency response agencies of the incident as needed. Also notify the appropriate regulatory agencies. (refer to Section V: Emergency Call List).
  
- Ensure site security.
  - Set barricades and /or warning signs at or beyond the calculated 100 ppm H<sub>2</sub>S radius of exposure (ROE). All manned barricades must be equipped with an H<sub>2</sub>S monitor and a 2-way radio.
  
  - Set roadblocks and staging area as determined.
  
- Establish the Incident Command Structure by designating appropriate on-scene response personnel as follows:
 

Recording Secretary	_____
Public Information Officer	_____
Safety/Medical Officer	_____
Decontamination Officer	_____
  
- Have the “Recording Secretary” begin documenting the incident on the “Incident Log” (refer to Section VIII: Forms/Reports).
  
- If needed, request radio silence on all channels that use your radio tower stating that, until further notice, the channels should be used for emergency communications only.
  
- Perform a Site Characterization and designate the following:
 

Hot Zone	--	Hazardous Area
Warm Zone	--	Preparation & Decontamination Area
Cold Zone	--	Safe Area

AND

On-Scene Incident Command Post	(Cold Zone)
Public Relations Briefing Area	(Cold Zone)
Staging Area	(Cold Zone)
Triage Area	(Cold Zone)
Decontamination Area	(Warm Zone)

\_\_\_\_\_ Refer all media personnel to ConocoPhillips' On-Scene Public Information Officer (refer to Section VI: Public Media Relations).

\_\_\_\_\_ Coordinate the attempt to stop the release of H<sub>2</sub>S. You should consider closing upstream and downstream valves to shut-off gas supply sources, and/or plugging or clamping leaks. Igniting escaping gas to reduce the toxicity hazard should be used **ONLY AS A LAST RESORT**. (It must first be determined if the gas can be safely ignited, taking into consideration if there is a possibility of a widespread flammable atmosphere.)

\_\_\_\_\_ Once the emergency is over, return the situation to normal by:

Confirming the absence of H<sub>2</sub>S and combustible gas throughout the area,

Discontinuing the radio silence on all channels, stating that the emergency incident is over,

Removing all barricades and warning signs,

Allowing evacuees to return to the area, and

Advising all parties previously notified that the emergency has ended.

\_\_\_\_\_ Ensure the proper regulatory authorities/agencies are notified of the incident (refer to Section V: Emergency Call List).

\_\_\_\_\_ Clean up the site. (Be sure all contractor crews have had appropriate HAZWOPER training.)

\_\_\_\_\_ Report completion of the cleanup to the Asset Environmentalist.  
(Environmentalist will report this to the proper State and/or Federal agencies.)

\_\_\_\_\_ Fill out all required incident reports and send originals to the Safety Department. (Keep a copy for your records.)

- Company employee receiving occupational injury or illnesses.
- Company employee involved in a vehicle accident while driving a company vehicle.
- Company property that is damaged or lost.
- Accident involving the public or a contractor; includes personal injuries, vehicle accidents, and property damage. Also includes any situation, which could result in a claim against the Company.
- Hazardous Material Spill/Release Report Form
- *Emergency Drill Report*

\_\_\_\_\_ Assist the Safety Department in the investigation of the incident. Review the factors that caused or allowed the incident to occur, and modify operating, maintenance, and/or surveillance procedures as needed. Make appropriate repairs and train or retrain employees in the use and operation of the system.

\_\_\_\_\_ If this incident was simulated for practice in emergency response, complete the Emergency Drill Report found in Section VIII: Forms/Reports and submit a copy to the Drilling Manager. (Keep one copy in area files to document exercising of the plan.)

## **Emergency Procedures**

### **Responsibility**

In the event of a release of potentially hazardous amounts of H<sub>2</sub>S, all personnel will immediately proceed upwind/ crosswind to the nearest designated briefing area. The COPC Drilling Rep. will immediately, upon assessing the situation, set this into action by taking the proper procedures to contain the gas and notify appropriate people and agencies.

1. In an emergency situation, the Drilling Rep. on duty will have complete responsibility and will take whatever action is deemed necessary in an emergency situation to insure the personnel's safety, to protect the well and to prevent property damage.
2. The Toolpusher will assume all responsibilities of the Drilling Rep. in an emergency situation in the event the Drilling Rep. becomes incapacitated.
3. Advise each contractor, service company, and all others entering the site that H<sub>2</sub>S may be encountered and the potential hazards that may exist.
4. Authorize the evacuation of local residents if H<sub>2</sub>S threatens their safety.
5. Keep the number of persons on location to a minimum during hazardous operations.
6. Direct corrective actions to control the flow of gas.
7. Has full responsibility for igniting escaping gas to reduce the toxicity hazard.  
This should be used **ONLY AS A LAST RESORT**.

## **IV. EMERGENCY EQUIPMENT and MAINTENANCE**

### **Emergency Equipment Suppliers**

#### **Safety International – Odessa, Tx.**

H<sub>2</sub>S monitors 432.580.3770  
Breathing air includes cascade systems  
First aid and medical supplies  
Safety equipment  
H<sub>2</sub>S Specialist

#### **Total Safety US Odessa, Tx/ Hobs, NM**

H<sub>2</sub>S monitors 432.561.5049 Odessa, Tx.  
575.392.2973 Hobbs, NM  
Breathing air includes cascade systems  
Fire fighting equipment  
First aid and medical supplies  
Safety equipment

#### **Indian Fire & Safety – Hobbs, NM**

H<sub>2</sub>S monitors 575.393.3093  
Breathing air including cascade systems trailer mounted  
30 minute air packs  
Safety Equipment

## **Emergency Equipment and Maintenance (continued)**

### General Information

Materials used for repair should be suitable for use where H<sub>2</sub>S concentrations exceed 100 ppm. In general, carbon steels having low-yield strengths and a hardness below RC-22 are suitable. The engineering staff should be consulted if any doubt exists on material specifications.

Appropriate signs should be maintained in good condition at location entrance and other locations as specified in Texas Rule 36 and NMOCD Rule 118.

All notification lists should be kept current with changes in names, telephone numbers, etc.

All shutdown devices, alarms, monitors, breathing air systems, etc., should be maintained in accordance with applicable regulations.

All personnel working in H<sub>2</sub>S areas shall have received training on the hazards, characteristics, and properties of H<sub>2</sub>S, and on procedures and safety equipment applicable for use in H<sub>2</sub>S areas.

## **H2S Safety Equipment and Monitoring Systems**

An H2S emergency response package will be maintained at locations requiring H2S monitoring. The package will contain at a minimum the following:

3 – Fixed H2S sensors located as follows:

- 1 – on the rig floor
- 1 – at the Bell Nipple
- 1 – at the Shale Shaker or Flowline

1 – Entrance Warning Sign located at the main entrance to the location, with warning signs and colored flags to determine the current status for entry into the location.

2 – Windsocks that are clearly visible.

1 – Audible warning system located on rig floor

2 – Visual warning systems (Beacon Lights)

- 1 – located at the rig floor
- 1 – located in the mud mixing room

**Note: All alarms (audible and visual) should be set to alarm at 10 ppm.**

2 - Briefing areas clearly marked

- 2 - SCBA's at each briefing area
- 1- SCBA located at the Drilling Reps office

**Note:**

- 1. All SCBA's must be positive pressure type only!!!**
- 2. All SCBA's must either be Scott or Drager brand.**
- 3. All SCBA's face pieces should be size large, unless otherwise specified by the Drilling Supervisor.**

5 – Emergency Escape Paks located at Top Doghouse.

Note: Ensure provisions are included for any personnel working above rig floor in derrick.

1 – Tri or Quad gas monitor located at the Drilling Reps office. This will be used to determine if the work area is safe to re-enter prior to returning to work following any alarm.

**V. EMERGENCY CALL LIST:**

The following is a priority list of personnel to contact in an emergency situation:

<b>Supervisory Personnel</b>	<b>Office No.</b>	<b>Home</b>	<b>Cellular</b>
<b>R.W. "Cotton" Hair</b> Permian Drilling Supt.	432.368.1302	432.563.9467	432.556.9116
<b>Dennis Paschall</b> Permian Drilling Field Supt.	432.368.1517	432.683.9400	432.238.3150
<b>Tom Samarripa</b> WSER	423.368.1263	432.367.4961	432.556.9113
<b>Ty Maxey</b> Permian Asset Operations Manager	432.368.1100		281.217.8492
<b>Leo Gatson</b> Safety and Environmental Coordinator	432.368.1248		432.631.066
<b>Lynn Dooley</b> Drilling Mngr.	832.486.2567	281.225.8063	281.435.3517

**EMERGENCY CALL LIST: State Officials**

**Regulatory Agencies**

**New Mexico Oil Conservation Commission**

P. O. Box 1980  
Hobbs, New Mexico 88240-1980

Office: 575.393.6161

**Bureau of Land Mngt.**

Carlsbad Field Office  
620 E. Greene St.  
Carlsbad, NM 88220

Office: 575.234.5972  
Fax: 575.885.9264

**EMERGENCY CALL LIST: Local Officials**

Refer to the Location Information Sheet

**Note: The LIS should include any area residents (i.e. rancher's house, etc)**

## **VI. Public Media Relations**

The **Public Information Officer** becomes the ConocoPhillips on-scene contact (once designated by the Phillips On-Scene Incident Commander).

Confers with Houston Office's Human Relations Representative, who is responsible for assisting in the coordination of local public relations duties.

Answer media questions honestly and **only with facts**, do not speculate about the cause, amount of damage, or the potential impact of the incident of the community, company, employees, or environment. (This information will be formally determined in the incident investigation.)

If you are comfortable answering a question or if you are unsure of the answer, use terms such as the following:

- "I do not know. I will try to find out."
- I am not qualified to answer that question, but I will try to find someone who can."
- "It is under investigation."

**Note:**

**Do Not Say "No Comment."** (This implies a cover-up.)

**Do Not Disclose Names of Injured or Dead!** Confer with the Houston Office's Human Relations Representative, who is responsible for providing that information.

## VII. Public Notification/Evacuation

### Alert and/or Evacuate People within the Exposure Area

1. Public Notification – If the escape of gas could result in a hazard to area residents, the general public, or employees, the person **first** observing the leak should take **immediate** steps to cause notification of any nearby residents. The avoidance of injury or loss of life should be of prime consideration and given top priority in all cases. If the incident is of such magnitude, or at such location as to create a hazardous situation, local authorities will be requested to assist in the evacuation and roadblocks of the designated area until the situation can be returned to normal.

Note: Bilingual employees may be needed to assist in notification of residents.

2. Evacuation Procedures – Evacuation will proceed upwind from the source of the release of H<sub>2</sub>S. Extreme caution should be exercised in order to avoid any depressions or low-lying areas in the terrain. The public area within the radius of exposure should be evacuated in a southwesterly and southeasterly direction so as to avoid the prevailing southern wind direction.

Roadblocks and the staging area should be established as necessary for current wind conditions.

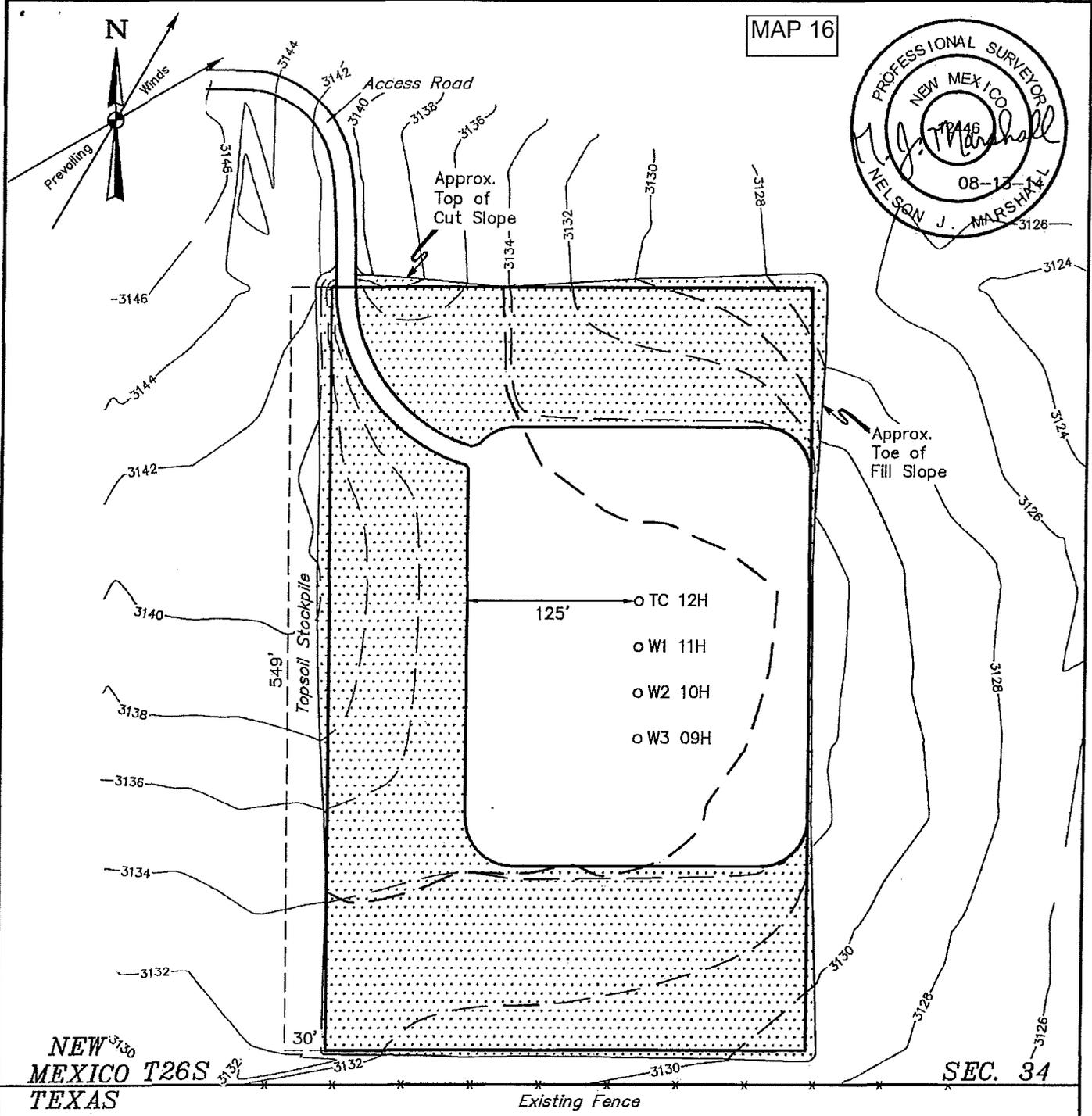
**Note:** In all situations, consideration should be given to wind direction and weather conditions. H<sub>2</sub>S is heavier than air and can settle in low spots. Shifts in wind direction can also change the location of possible hazardous areas.

## **VIII. FORMS & REPORTS**

- I. Incident Log
  
- II. Preliminary Emergency Information Sheet
  
- III. Emergency Drill Report
  
- IV. Onshore Hazardous Material Spill/Release Report Form
  
- V. Immediate Report of Occupational Injury or Illness
  - Report of Accident-Public Contractor
  - Report of Loss or Damage to Company Property
  - Report of Automotive Incident



MAP 16



NEW MEXICO T26S TEXAS

SEC. 34

LEGEND:  
[Dotted Box] Reclaimed Area

APPROXIMATE UN-RECLAIMED ACREAGE = ±1.840 ACRES

NOTES:  
• Contours shown at 2' intervals.

ConocoPhilips Company  
STAMPEDE 34 FEDERAL COM W3 09H,  
W2 10H, W1 11H & TC 12H  
SECTION 34, T26S, R31E, N.M.P.M.  
LOT 3



UELS, LLC  
Corporate Office \* 85 South 200 East  
Vernal, UT 84078 \* (435) 789-1017

DRAWN BY: S.F.      DATE DRAWN: 08-05-14  
SCALE: 1" = 100'      REVISED: 00-00-00

RECLAMATION DIAGRAM    FIGURE #4

# Surface Use Plan of Operations

## Introduction

The following surface use plan of operations will be followed and carried out once the APD is approved. No other disturbance will be created other than what was submitted in this surface use plan. If any other surface disturbance is needed after the APD is approved, a BLM approved sundry notice or right of way application will be acquired prior to any new surface disturbance.

Before any surface disturbance is created, stakes or flagging will be installed to mark boundaries of permitted areas of disturbance, including soils storage areas. As necessary, slope, grade, and other construction control stakes will be placed to ensure construction in accordance with the surface use plan. All boundary markers will be maintained in place until final construction cleanup is completed. If disturbance boundary markers are disturbed or knocked down, they will be replaced before construction proceeds.

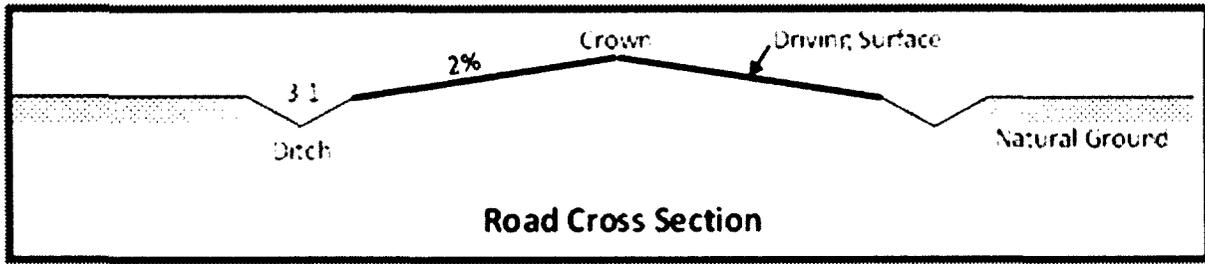
If terms and conditions are attached to the approved APD and amend any of the proposed actions in this surface use plan, we will adhere to the terms and conditions.

## 1. Existing Roads

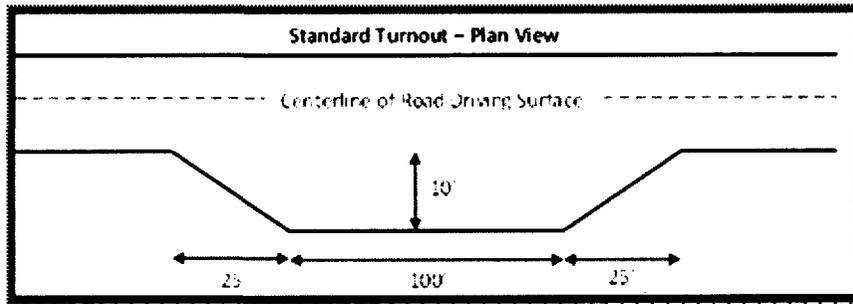
- a. The existing access road route to the proposed project is depicted on Access Road Map Topo B. Improvements to the driving surface will be done where necessary. No new surface disturbance will be done, unless otherwise noted in the New or Reconstructed Access Roads section of this surface use plan..
- b. The existing access road route to the proposed project does not cross lease or unit boundaries, so a BLM right-of-way grant will not be acquired for this proposed road route.
- c. The operator will improve or maintain existing roads in a condition the same as or better than before operations begin. The operator will repair pot holes, clear ditches, repair the crown, etc. All existing structures on the entire access route such as cattleguards, other range improvement projects, culverts, etc. will be properly repaired or replaced if they are damaged or have deteriorated beyond practical use.
- d. We will prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or wind events. BLM written approval will be acquired before application of surfactants, binding agents, or other dust suppression chemicals on roadways.

## 2. New or Reconstructed Access Roads

- a. An access road will be needed for this proposed project. See the survey plat for the location of the access road.
- b. The length of access road needed to be constructed for this proposed project is about 378 feet.
- c. The maximum driving width of the access road will be 20 feet. The maximum width of surface disturbance when constructing the access road will not exceed 25 feet. All areas outside of the driving surface will be revegetated.
- d. The access road will be constructed with 6 inches of compacted Caliche.
- e. When the road travels on fairly level ground, the road will be crowned and ditched with a 2% slope from the tip of the road crown to the edge of the driving surface. The ditches will be 3 feet wide with 3:1 slopes. See Road Cross Section diagram below.



- f. The access road will be constructed with a ditch on each side of the road.
- g. The maximum grade for the access road will be 2 percent.
- h. Turnouts will be constructed for the proposed access road and will be constructed to the dimensions shown in the diagram below. See survey plat or map for location of the turnouts.



- i. No cattleguards will be installed for this proposed access road.
- j. No BLM right-of-way grant is needed for the construction of this access road.
- k. No culverts will be constructed for this proposed access road.
- l. No low water crossings will be constructed for the access road.
- m. Since the access road is on level ground, no lead-off ditches will be constructed for the proposed access road.
- n. Newly constructed or reconstructed roads, on surface under the jurisdiction of the Bureau of Land Management, will be constructed as outlined in the BLM "Gold Book" and to meet the standards of the anticipated traffic flow and all anticipated weather requirements as needed. Construction will include ditching, draining, crowning and capping or sloping and dipping the roadbed as necessary to provide a well-constructed and safe road.
- o. A 30' Road R-O-W is requested, 20' for driveable surface and 5' on each side. This access road will connect to the Stampede 34 Federal COM 13H-15H access road that leads to State Line Road.

### 3. Location of Existing Wells

- a. Stampede 34 Federal COM W3 9H, Map 12 of the APD depicts all known wells within a one mile radius of the proposed well.
- b. There is no other information regarding wells within a one mile radius.

### 4. Location of Existing and/or Proposed Production Facilities

- a. All permanent, lasting more than 6 months, above ground structures including but not limited to pumpjacks,

storage tanks, barrels, pipeline risers, meter housing, etc. that are not subject to safety requirements will be painted a non-reflective paint color, Shale Green, from the BLM Standard Environmental Colors chart, unless another color is required in the APD Conditions of Approval.

- b. If any type of production facilities are located on the well pad, they will be strategically placed to allow for maximum interim reclamation, recontouring, and revegetation of the well location.
- c. A production facility is proposed to be installed off the proposed well location. Production from the well will be processed at this production facility. Location Layout, Figure #1 depicts the location of the production facilities.
- d. The proposed production facility will have a secondary containment structure that is constructed to hold the capacity of 1-1/2 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.
- e. Preliminary Plot Plan depicts the production facility as well.
- f. A pipeline to transport production from the proposed well to the production facility will be installed.
  - i. We plan to install a 4 inch buried Coated Steel pipeline from the proposed well to the offsite production facility. The proposed length of the pipeline will be 1173 feet. The working pressure of the pipeline will be about 1480 psi. A 30 feet wide work area will be needed to install the buried pipeline. In areas where blading is allowed, topsoil will be stockpiled and separated from the excavated trench mineral material. Final reclamation procedures will match the procedures in Plans for Surface Reclamation. When the excavated soil is backfilled, it will be compacted to prevent subsidence. No berm over the pipeline will be evident.
  - ii. Flow Line R-O-W depicts the proposed production pipeline route from the well to the existing production facility.
  - iii. The proposed pipeline does not cross lease boundaries, so a right of way grant will not need to be acquired from the BLM.

**If any plans change regarding the production facility or other infrastructure (pipeline, electric line, etc.), we will submit a sundry notice or right of way (if applicable) prior to installation or construction.**

#### **Additional Pipeline(s)**

We propose to install 1 additional pipeline(s):

- 1. Buried Gas pipeline:
  - a. We plan to install a 2 inch buried Steel pipeline from the proposed well to the facility. The proposed length of the pipeline will be 1173 feet. The working pressure of the pipeline will be about 1100 psi. A 30 feet wide work area will be needed to install the buried pipeline. We will need an extra 10 foot wide area near corners to safely install the pipeline. In areas where blading is allowed, topsoil will be stockpiled and separated from the excavated trench mineral material. Final reclamation procedures will match the procedures in Plans for Surface Reclamation. When the excavated soil is backfilled, it will be compacted to prevent subsidence. No berm over the pipeline will be evident.
  - b. Flow Line R-O-W depicts the proposed Gas pipeline route.
  - c. The proposed pipeline does not cross lease boundaries, so a right of way grant will not need to be acquired from the BLM.

### **Electric Line(s)**

- a. We plan to install an overhead electric line for the proposed well. The proposed length of the electric line will be 705 feet. Power Line R-O-W depicts the location of the proposed electric line route. The electric line will be construction to provide protection from raptor electrocution.
- b. The proposed electric line does not cross lease boundaries, so a right of way grant will not need to be acquired from the BLM.

## **5. Location and Types of Water**

- a. The source and location of the water supply are as follows: The water source is from an approved source and a temporary permit to lay the lines will be filed under a separate cover.

## **6. Construction Material**

- a. Clean caliche will be from a BLM source or a third party provider.

## **7. Methods for Handling Waste**

- a. Drilling fluids and produced oil and water from the well during drilling and completion operations will be stored safely and disposed of properly in an NMOCD approved disposal facility.
- b. Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly at a state approved disposal facility. All trash on and around the well site will be collected for disposal.
- c. Human waste and grey water will be properly contained and disposed of properly at a state approved disposal facility.
- d. After drilling and completion operations, trash, chemicals, salts, frac sand and other waste material will be removed and disposed of properly at a state approved disposal facility.
- e. The well will be drilled utilizing a closed loop system. Drill cutting will be properly disposed of into steel tanks and taken to an NMOCD approved disposal facility.

## **8. Ancillary Facilities**

- a. No ancillary facilities will be needed for this proposed project.

## **9. Well Site Layout**

- a. The following information is presented in the well site survey plat or diagram:
  - i. reasonable scale (near 1":50')
  - ii. well pad dimensions
  - iii. well pad orientation
  - iv. drilling rig components
  - v. proposed access road
  - vi. elevations of all points
  - vii. topsoil stockpile

- viii. reserve pit location/dimensions if applicable
  - ix. other disturbances needed (flare pit, stinger, frac farm pad, etc.)
  - x. existing structures within the 600' x 600' archaeological surveyed area (pipelines, electric lines, well pads, etc)
- b. The proposed drilling pad was staked and surveyed by a professional surveyor. The attached survey plat of the well site depicts the drilling pad layout as staked.
- c. The submitted survey plat does depict all the necessary information required by Onshore Order No. 1.
- d. Topsoil Salvaging
- i. Grass, forbs, and small woody vegetation, such as mesquite will be excavated as the topsoil is removed. Large woody vegetation will be stripped and stored separately and respread evenly on the site following topsoil respreading. Topsoil depth is defined as the top layer of soil that contains 80% of the roots. In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location and along the perimeter of the access road to control run-on and run-off, to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils. Contaminated soil will not be stockpiled, but properly treated and handled prior to topsoil salvaging.

## 10. Plans for Surface Reclamation

### Reclamation Objectives

- i. The objective of interim reclamation is to restore vegetative cover and a portion of the landform sufficient to maintain healthy, biologically active topsoil; control erosion; and minimize habitat and forage loss, visual impact, and weed infestation, during the life of the well or facilities.
- ii. The long-term objective of final reclamation is to return the land to a condition similar to what existed prior to disturbance. This includes restoration of the landform and natural vegetative community, hydrologic systems, visual resources, and wildlife habitats. To ensure that the long-term objective will be reached through human and natural processes, actions will be taken to ensure standards are met for site stability, visual quality, hydrological functioning, and vegetative productivity.
- iii. The BLM will be notified at least 3 days prior to commencement of any reclamation procedures.
- iv. If circumstances allow, interim reclamation and/or final reclamation actions will be completed no later than 6 months from when the final well on the location has been completed or plugged. We will gain written permission from the BLM if more time is needed.
- v. Interim reclamation will be performed on the well site after the well is drilled and completed. Reclamation Diagram, Figure #4 depicts the location and dimensions of the planned interim reclamation for the well site.

### Interim Reclamation Procedures (If performed)

1. Within 30 days of well completion, the well location and surrounding areas will be cleared of, and maintained free of, all materials, trash, and equipment not required for production.
2. In areas planned for interim reclamation, all the surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.
3. The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper

than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

4. Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts & fills. To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

5. Proper erosion control methods will be used on the area to control erosion, runoff and siltation of the surrounding area.

6. The interim reclamation will be monitored periodically to ensure that vegetation has reestablished and that erosion is controlled.

#### **Final Reclamation (well pad, buried pipelines, etc.)**

1. Prior to final reclamation procedures, the well pad, road, and surrounding area will be cleared of material, trash, and equipment.

2. All surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.

3. All disturbed areas, including roads, pipelines, pads, production facilities, and interim reclaimed areas will be recontoured to the contour existing prior to initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.

4. After all the disturbed areas have been properly prepared, the areas will be seeded with the proper BLM seed mixture, free of noxious weeds. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

5. Proper erosion control methods will be used on the entire area to control erosion, runoff and siltation of the surrounding area.

6. All unused equipment and structures including pipelines, electric line poles, tanks, etc. that serviced the well will be removed.

7. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion is controlled.

### **11. Surface Ownership**

- a. The surface ownership of the proposed project is Federal.

### **12. Other Information**

- a. The location was finalized during an onsite conducted June 10, 2014 with Trishia Bad Bear of BLM and the new access road and pipeline route was finalized on August 2, 2016 with Vance Wolf of the BLM. Please review this application with the Stampede 34 Federal COM 10H.

### **13. Maps and Diagrams**

Access Road Map Topo B - Existing Road

ConocoPhillips Company

Stampede 34 Federal COM W3 9H

SHL: 250 FSL & 1370 FWL, Section: 34, T.26S., R.31E.

BHL: 280 FNL & 1700 FWL, Section: 27, T.26S., R.31E.

Stampede 34 Federal COM W3 9H, Map 12 - Wells Within One Mile

Location Layout, Figure #1 - Production Facilities Diagram

Preliminary Plot Plan - Additional Production Facilities Diagram

Flow Line R-O-W - Production Pipeline

Flow Line R-O-W - Gas Pipeline

Power Line R-O-W - Electric Line

Reclamation Diagram, Figure #4 - Interim Reclamation

# Surface Use Plan of Operations

ConocoPhillips Company  
STAMPEDE 34 FEDERAL COM W3 9H  
250 FSL & 1470 FWL of Section 34-26S-31E  
Federal Lease NMLC 068282B (SHL)  
Eddy County, New Mexico

ConocoPhillips Company respectfully requests that this APD be reviewed with other wells in this development: STAMPEDE 34 FEDERAL COM W3 9H, STAMPEDE 34 FEDERAL COM W2 10H, STAMPEDE 34 FEDERAL COM W1 11H & STAMPEDE 34 FEDERAL COM TC 12H.

Location was finalized during an onsite conducted June 10, 2014 with Trishia Bad Bear of BLM.

1. Access Road - Existing (See MAPS 4 – 6)
  - A. Directions to Proposed Location:  
BEGINNING AT THE INTERSECTION OF HIGHWAY 18 AND HIGHWAY 128 PROCEED IN A WESTERLY DIRECTION FROM JAL, NEW MEXICO ALONG HIGHWAY 128 APPROXIMATELY 30.0 MILES TO THE JUNCTION OF THIS ROAD AND J-1/ORLA ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 15.2 MILES TO THE JUNCTION OF THIS ROAD AND STATE LINE ROAD TO THE WEST; TURN RIGHT AND PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 3.4 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE EAST; FOLLOW ROAD FLAGS IN A EASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 1206' TO THE PROPOSED LOCATION.
  - B. The existing road will be maintained, including dust suppression, in the same or better condition as existed prior to the commencement of operations. Said maintenance will continue until final abandonment and reclamation of this drilling location.
2. Planned Access Roads (see MAP 6)
  - A. There will be approximately 1,206.28' of new road within a 30' construction corridor and a travel width of 14', all on BLM.
  - B. Maximum grade will not exceed 1%.
  - C. There will be no new junction with a county road.
  - D. There will be no low water crossing or culverts
  - E. There will be no cattle guard installed on the road.
  - F. The proposed road will be constructed in accordance with road guidelines established for oil & gas exploration and development activities as referenced in the BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, Third Edition and/or BLM Manual Section 9113 concerning road construction activities on projects under federal jurisdiction. Prior to moving in any heavy equipment, the road will be thoroughly compacted. The road will be surfaced with caliche after compaction.
3. Existing Wells within a One-Mile Radius (see MAP 12)
  1. All existing wells are identified on Map 12.
4. Existing and/or Proposed Facilities (see MAPS 7 – 11 & 13-16)
  - A. On & Adjacent to the Well Pad:
    1. This well will be placed on oil production. A well pad will be constructed to accommodate 4 wells.
    2. Planned dimensions of the 4 well pad are 549 feet by 350 feet. Interim reclamation on the north, west, and south sides will reduce the pad footprint following the initial 4 well development phase. Interim reclamation will be done as shown on the enclosed map titled "Reclamation Diagram" on three sides of the pad.

3. Topsoil will be stored along the west side of the pad.
4. Other than pumps, there will be no production equipment on this pad.

B. Utility Corridors:

A. Power Lines (see MAPS 10-11)

1. Approximately 1,252.43' of overhead power line will be installed parallel to roads.

B. Pipelines (see MAPS 7 & 8):

1. Production will be processed at the existing Stampede 34 Federal Central Tank Battery. Produced fluid will travel approximately 2,043.83' via a new buried 4" steel flow line to that battery following the road. Maximum operating pressure will be 1,480 psi. Maximum construction width will be 39'.
2. A 2" steel gas supply line will be buried in the flow line trench from the battery to the pad approximately 2,043.83'. Maximum operating pressure will be 1,100 psi.

C. Water Transfer Lines (see MAP 9):

1. Approximately 16.4-mile long temporary fresh water transfer lines will be installed on the surface parallel to roads during completion operations. The pipeline will run from the Buck Frac Pond in 17-26S-32E (previously authorized under the Buck Federal 17 1H project) and the Red Hills West 16 State Fresh Water Frac Pond and then onto the pad.
2. Approximately 2,043.83' long temporary water pipelines will be laid on the surface and parallel to roads to transfer produced water from the existing Stampede 34 Federal Central Tank Battery to the wells on the pad during completion operations.

D. Proposed Stampede 34 Federal Central Tank Battery Expansion (see MAPS 13 – 14)

1. An expansion of the existing Stampede 34 Federal Central Tank Battery is needed to develop this area.
2. The existing tank battery is 350 feet by 350 feet; proposed expansion of the tank battery pad is 600 feet by 600 feet.
3. The production equipment may include but not limited to oil and water tanks, meters, and separators.

E. Facilities Paint Color

All above ground existing facilities are painted an earth tone color that blends with the surrounding area. Any proposed new facilities will be painted shale green.

5. Location and Type of Water Supply (see MAP 9)

- A. Fresh water will be obtained from an approved source.
- B. No water well will be drilled on this location.

6. Source of Construction Materials

- A. Any materials needed in addition to what can be used from location and road will be hauled in from a supplier having a permitted source of materials.
- B. If production is established, any additional construction materials required for the surfacing of the road and for installation of the production facilities will be purchased from a supplier having a permitted source of materials.
- C. No construction materials will be taken from Federal lands without a prior approval from the appropriate Surface Management Agency.

7. Methods for Handling Waste Disposal

- A. A closed-loop system will be used for handling drilling wastes. These materials will be disposed of in an approved facility.
- B. Hazardous substances as listed as hazardous under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) of 1980, as amended, 42 U.S.C. 9601 et seq. and the regulations issued under CERCLA, will be disposed of in the appropriate pit.
- C. Any spills of oil or any other potentially hazardous material will be cleaned up and immediately removed to an approved disposal site.
- D. Sewage will be disposed of according to county and state requirements in a portable chemical toilet(s) or in a hole at least 20 feet deep excavated in the cut portion of the well pad. Other waste and chemicals may not be disposed of on location. Waste will not be burned on location.
- E. Garbage and trash will be contained in portable trash cages. The contents of the trash cages will be disposed of according to county and state regulations at an approved facility. Disposal of it or burning it will not be allowed on the well location.
- F. After drilling rig has moved out of area, any scattered trash and litter will be removed from site.
- G. All potentially hazardous areas will be fenced and will remain fenced until entire area can be rehabilitated.

8. Ancillary Facilities

The production facilities are discussed under Item 4.

9. Well Site Layout (see MAPS 1 – 3)

- A. Topsoil Stockpile Location- See MAP 1
- B. There will be a no reserve pit on location. The well will be drilled via a closed loop system and the contents will be taken to an approved disposal site.

10. Plans for Reclamation of the Surface

- A. Interim Reclamation
  1. Interim reclamation will be completed, after well has been drilled, as indicated on the enclosed map titled "Reclamation Diagram" (MAP 16).
  2. If this well is a producer, all site rehabilitation shall be completed within six months. Under normal weather conditions, the timetable for rehab will allow two months for backfill settling and two months to complete final re-contouring, and top-soiling. In the event of winter freeze-up, reclamation will be put on hold as determined by the BLM.
  3. Interim reclamation is to be performed according to BLM standards and currently consists of removing excess caliche (for re-use or disposal at an approved facility), turning the sides to be reclaimed so that sand and topsoil are on the surface and re-contouring. The unused portion of the site will be ripped prior to replacing the topsoil. The soil-banked material will be spread over the area.
- B. Final Reclamation
  1. At such time as the well is abandoned, ConocoPhillips Company will contact the BLM for development of the final rehabilitation plan. Upon abandonment, an erect dry hole marker welded to surface casing four feet below ground level will be installed. It will contain the same information as the well sign as directed by 43 CFR 3162.6 (30 CFR 221.22). The dry hole marker sealing the casing will have an 1/8" to 1/4" weep hole which will allow pressure to dissipate and make detection of any fluid seepage easier.
  2. Caliche will be removed and disposed of in an approved facility. Re-contouring will be performed prior to topsoil being spread over location.
  3. Reseeding will be an approved mixture by the BLM. If the broadcast method is utilized, the seed mixture shall be doubled.
  4. There shall be no primary or secondary noxious weed seed in the native seed mixture.

5. The entire disturbed location shall be fenced after seeding. When the location has been rehabilitated and vegetation re-established, the fence shall be removed or fenced area reduced as required by BLM.
6. Weeds will be controlled on disturbed areas within the exterior limits of the well pad. The control methods will be in accordance with guidelines established by EPA, BLM, state, and local authorities.

C. Other Reclamation Information

1. If this well site is constructed and not drilled, the site and road will be reclaimed or BLM approved special erosion control measures implemented within 90 days of site construction unless otherwise approved in writing by sundry notice.
2. A pre-work onsite with BLM and ConocoPhillips Company may be held for all phases of reclamation.

11. Surface Ownership  
Bureau of Land Management  
620 E. Greene Street  
Carlsbad, NM 88220

12. Other Information

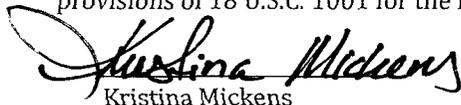
- A. ConocoPhillips Company will request that this well location be covered under the BLM MOA NM-930-2008-003 at a later date.
- B. ConocoPhillips Company will be responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites or for collecting artifacts. If historic or archaeological materials are uncovered, ConocoPhillips Company will suspend all operations that might further disturb such materials and immediately contact the Authorized Officer, Bureau of Land Management. Within five (5) working days the Authorized Officer will inform ConocoPhillips Company as to whether the materials appear eligible for the National Register of Historic Places; the mitigation measures the operator will likely have to undertake before the site can be used (assuming in site preservation is not necessary); and a time frame for the Authorized officer to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the Authorized Officer are correct and that mitigation is appropriate.
- C. ConocoPhillips Company will protect, in place, all public land survey monuments, private property corner, and boundary markers. In the event that any such land markers or monuments are destroyed in the exercise of their rights, depending on the type of monument destroyed, the operator shall see that they are reestablished or referenced in accordance with (1) the procedures outlined in the "Manual of Instructions for the Survey of Public Land of the United States", (2) the specifications of the county surveyor, or (3) the specifications of BLM.
- D. ConocoPhillips Company will comply with the additional Conditions of Approval provided by the BLM.

## Operator Certification

CONOCOPHILLIPS COMPANY

**CERTIFICATION:**

I hereby certify that I, or persons under my direct supervision, have inspected the proposed 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 with bond coverage provided by Nationwide Bond ES0085. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

 Date: 12-11-14  
Kristina Mickens  
Sr. Regulatory Specialist

## PECOS DISTRICT CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	<b>ConocoPhillips Company</b>
<b>LEASE NO.:</b>	<b>NMLC-068282A</b>
<b>WELL NAME &amp; NO.:</b>	<b>Stampede 34 Federal Com W3 9H</b>
<b>SURFACE HOLE FOOTAGE:</b>	<b>0250' FSL &amp; 1470' FWL</b>
<b>BOTTOM HOLE FOOTAGE</b>	<b>0280' FNL &amp; 1700' FWL Sec. 27, T. 26 S., R 31 E.</b>
<b>LOCATION:</b>	<b>Section 34, T. 26 S., R 31 E., NMPM</b>
<b>COUNTY:</b>	<b>Eddy County, New Mexico</b>

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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.

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- Noxious Weeds**
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  - Desert heronries
  - Cave/Karst
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  - Well Structures & Facilities
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  - 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)

### Communitization Agreement

The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.

In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

### Desert Heronries

Surface disturbance will not be allowed within up to 200 meters of active heronries or by delaying activity for up to 120 days, or a combination of both.

Exhaust noise from engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

### 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.

## **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**

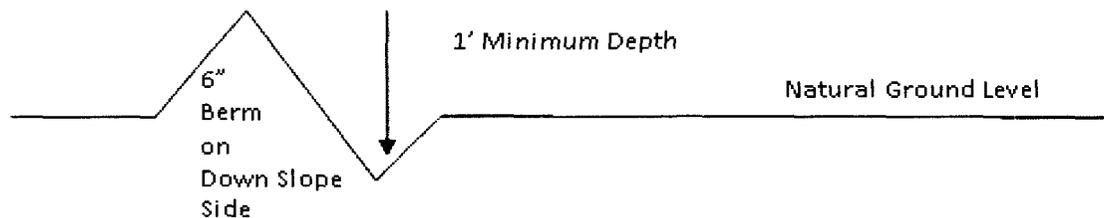
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

## Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outslowing 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:

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

## Cattleguards

An appropriately sized cattleguard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattleguards 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 cattleguards 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

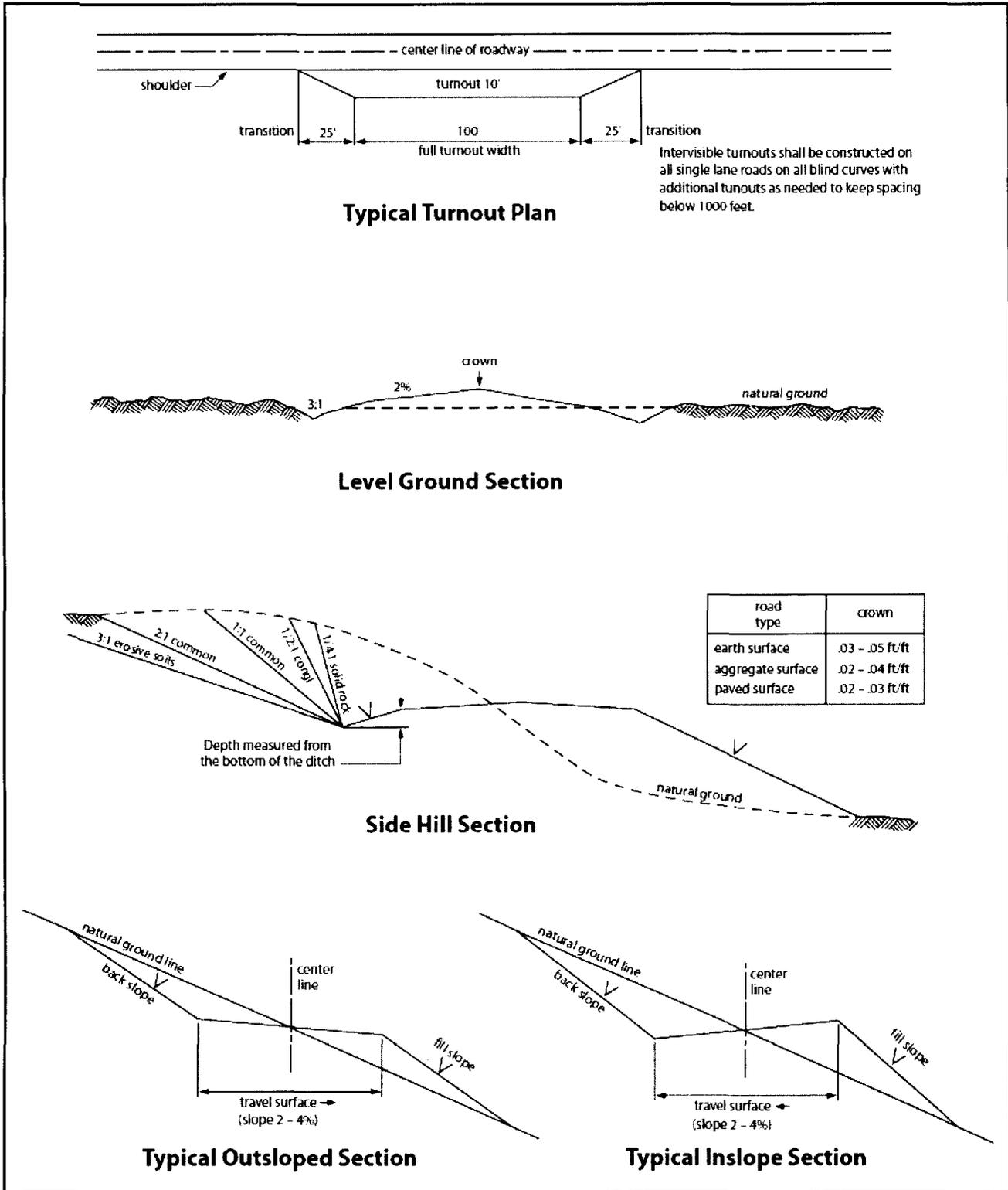


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

## VII. DRILLING

### 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. **Hydrogen Sulfide (H<sub>2</sub>S) monitors shall be installed prior to drilling out the surface shoe. If H<sub>2</sub>S 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, provide measured values 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. **The operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other wells.**
4. Option – Setting surface casing with Pinnergy #1 Rig.
  - a. Notify the BLM when removing the Pinnergy #1 Rig.
  - b. Notify the BLM when moving in the H&P Flex Rig. Rig to be moved in within 60 days of notification that Pinnergy #1 Rig has left the location. Failure to notify or have rig on location within 60 days will result in an Incident of Non-Compliance.
  - c. Once the H&P Flex Rig is on location, it shall not be removed from over the hole without prior approval unless the production casing has been run and cemented or the well has been properly plugged. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**
  - d. BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as H&P Flex Rig is rigged up on well. CIT for the surface casing shall be performed and results recorded on subsequent sundry – pressure to be 1200 psi.
5. 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.

6. **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.**

**Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.**

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

### **High Cave/Karst**

**Possibility of water flows in the Top of Salt, Castile, and Wolfcamp.**

**Possibility of lost circulation in the Delaware.**

**Abnormal pressures maybe encountered when penetrating the 3<sup>rd</sup> Bone Spring Sandstone and all subsequent formations.**

**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. IF THE PRIMARY CEMENT JOB ON THE SURFACE CASING DOES NOT CIRCULATE, THEN THE NEXT TWO CASING STRINGS MUST BE CEMENTED TO SURFACE.**

1. The 13-3/8 inch surface casing shall be set at approximately 955 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.

**Formation below the 13-3/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.**

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing, which shall be set at approximately 3930 feet (**basal anhydrite of the Castile Formation or the Lamar Limestone**), 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.**

**Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.**

3. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

**Option #1:**

- Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.

**Option #2:**

**Operator has proposed DV tool at depth of 8000', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.**

- a. First stage to DV tool:
  - Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
- b. Second stage above DV tool:
  - Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.

**Formation below the 7-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.**

**Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.**

- 4. The minimum required fill of cement behind the 5 X 4-1/2 inch production casing is:
  - Cement as proposed by operator. 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. BOP Options:

Option 1 - BOP testing if wells are drilled conventionally- BOP is not removed between casing strings.

**Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 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. **Operator shall perform the 9-5/8" integrity tests to 70% of the casing burst. This will test the multi-bowl seals.**
- f. **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.**

Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 7-5/8 intermediate casing shoe shall be 10,000 (10M) psi. **10M 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.**

Option 2 - BOP testing for Batch Drilling-BOP is removed between casing strings

Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi. 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.** BOP/BOPE shall be tested after nipple up according to Onshore Order #2.

Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 intermediate casing shoe shall be **5000 (5M) psi. 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.**

Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 7-5/8 intermediate casing shoe shall be **10,000 (10M) psi. 10M 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.**
  - 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.

- g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

**D. DRILLING MUD**

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

**E. DRILL STEM TEST**

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

**F. 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.

**JAM 062116**

**VIII. 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.

- seed mixture 1
- seed mixture 2
- seed mixture 2/LPC
- seed mixture 3
- seed mixture 4
- 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.

## **IX. 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).

## **X. 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).

#### Seed Mixture 2, for Sandy Sites

The holder shall seed all 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>
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

\*Pounds of pure live seed:

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

### NMOCD CONDITION OF APPROVAL

The **New!** Gas Capture Plan (GCP) notice is posted on the NMOCD website under Announcements. The Plan became effective May 1, 2016. A copy of the GCP form is included with the NOTICE and is also in our FORMS section under Unnumbered Forms. Please review filing dates for all applicable activities currently approved or pending and submit accordingly. Failure to file a GCP may jeopardize the operator's ability to obtain C-129 approval to flare gas after the initial 60-day completion period.