

**Appendix A – Location Maps**

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 FOR THE STAMPEDE FEDERAL COM W3 09H, 10H, 11H & 12H TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 595' TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTH; FOLLOW ROAD FLAGS IN A SOUTHERLY DIRECTION APPROXIMATELY 257' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM JAL, NEW MEXICO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 49.1 MILES.

**ConocoPhillips Company**

**STAMPEDE 34 FEDERAL COM 5H & 6H  
LOT 4, 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
	REVISED: 06-25-15 Z.H.F.
<b>ROAD DESCRIPTION</b>	

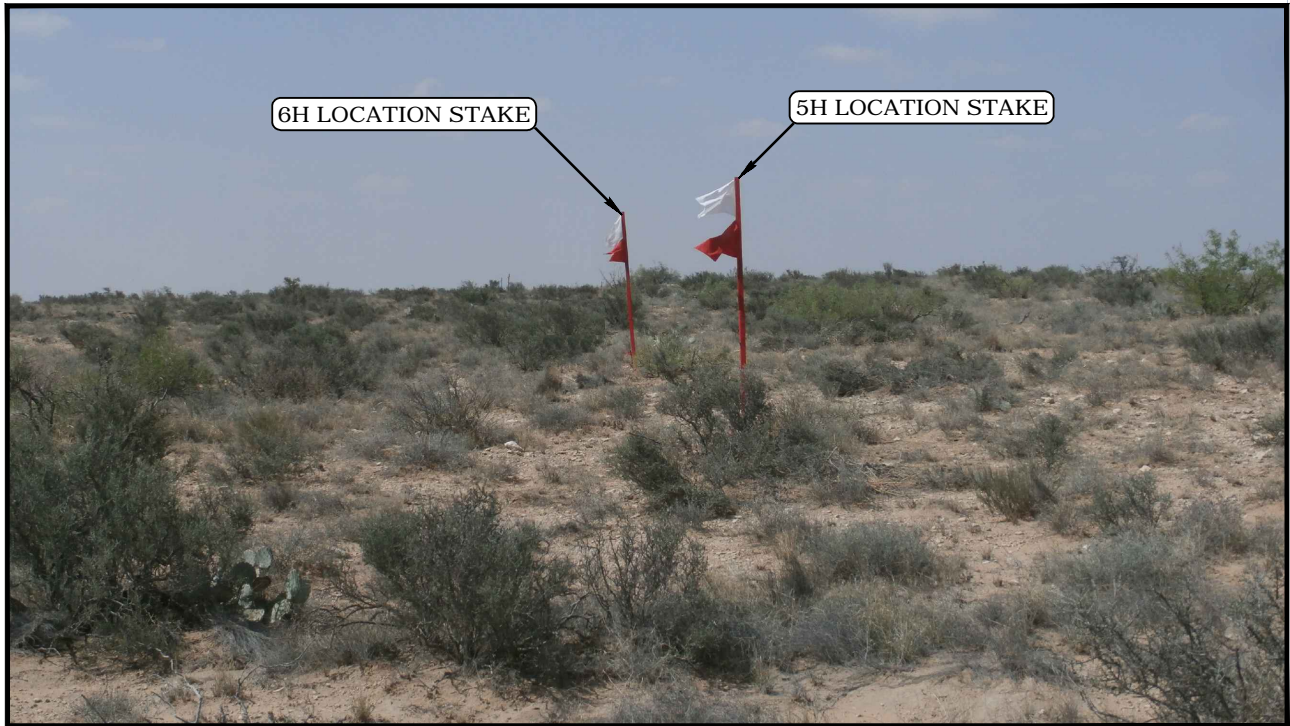


PHOTO: VIEW OF LOCATION STAKES

CAMERA ANGLE: NORTHERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: EASTERLY

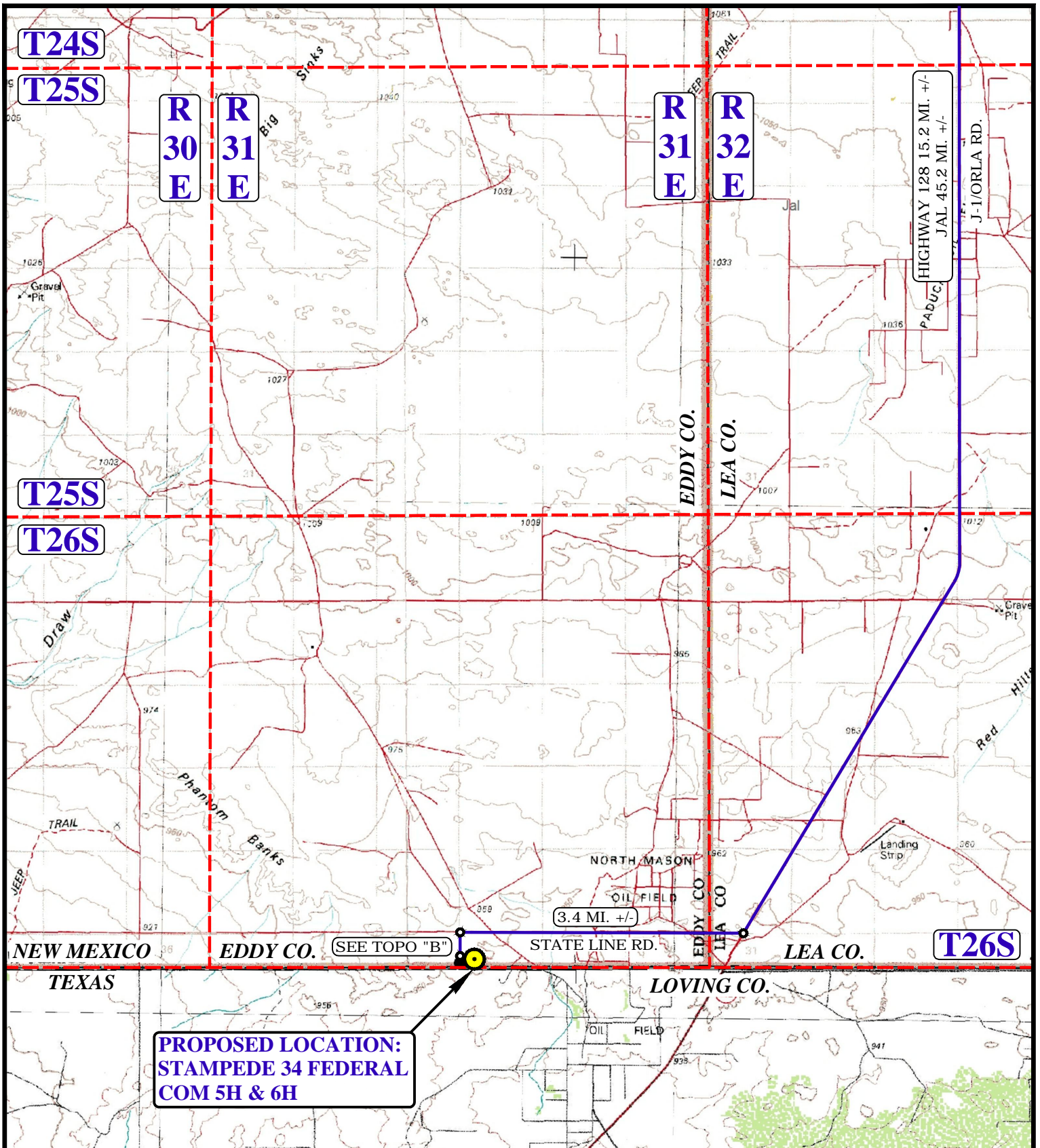
**ConocoPhillips Company**

**STAMPEDE 34 FEDERAL COM 5H & 6H  
LOT 4, 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
TAKEN BY: J.A.V.	REVISED: 06-25-15 Z.H.F.
<b>LOCATION PHOTOS</b>	<b>PHOTO</b>



**PROPOSED LOCATION:  
STAMPEDE 34 FEDERAL  
COM 5H & 6H**

**LEGEND:**

 **PROPOSED LOCATION**



**ConocoPhillips Company**

**STAMPEDE 34 FEDERAL COM 5H & 6H  
LOT 4, SECTION 34, T26S, R31E, N.M.P.M.  
EDDY COUNTY, NEW MEXICO**

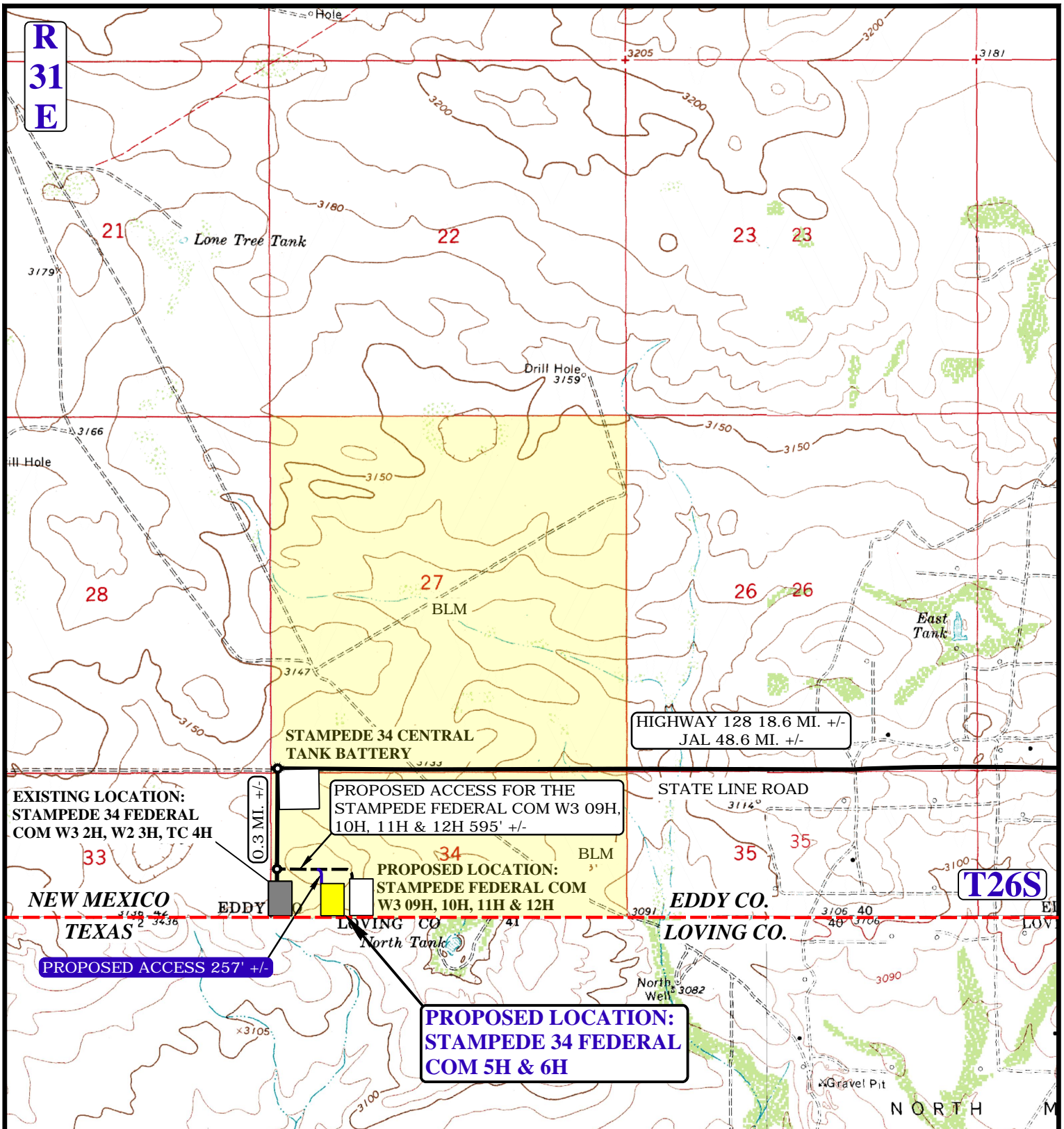
DRAWN BY: M.L.	DATE DRAWN: 06-26-14
SCALE: 1:100,000	REVISED: 06-25-15 Z.H.F.

**ACCESS ROAD MAP**

**TOPO A**



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



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:**

- EXISTING ROAD
- PROPOSED ROAD
- PROPOSED ROAD (SERVICING OTHER WELLS)

**ConocoPhillips Company**

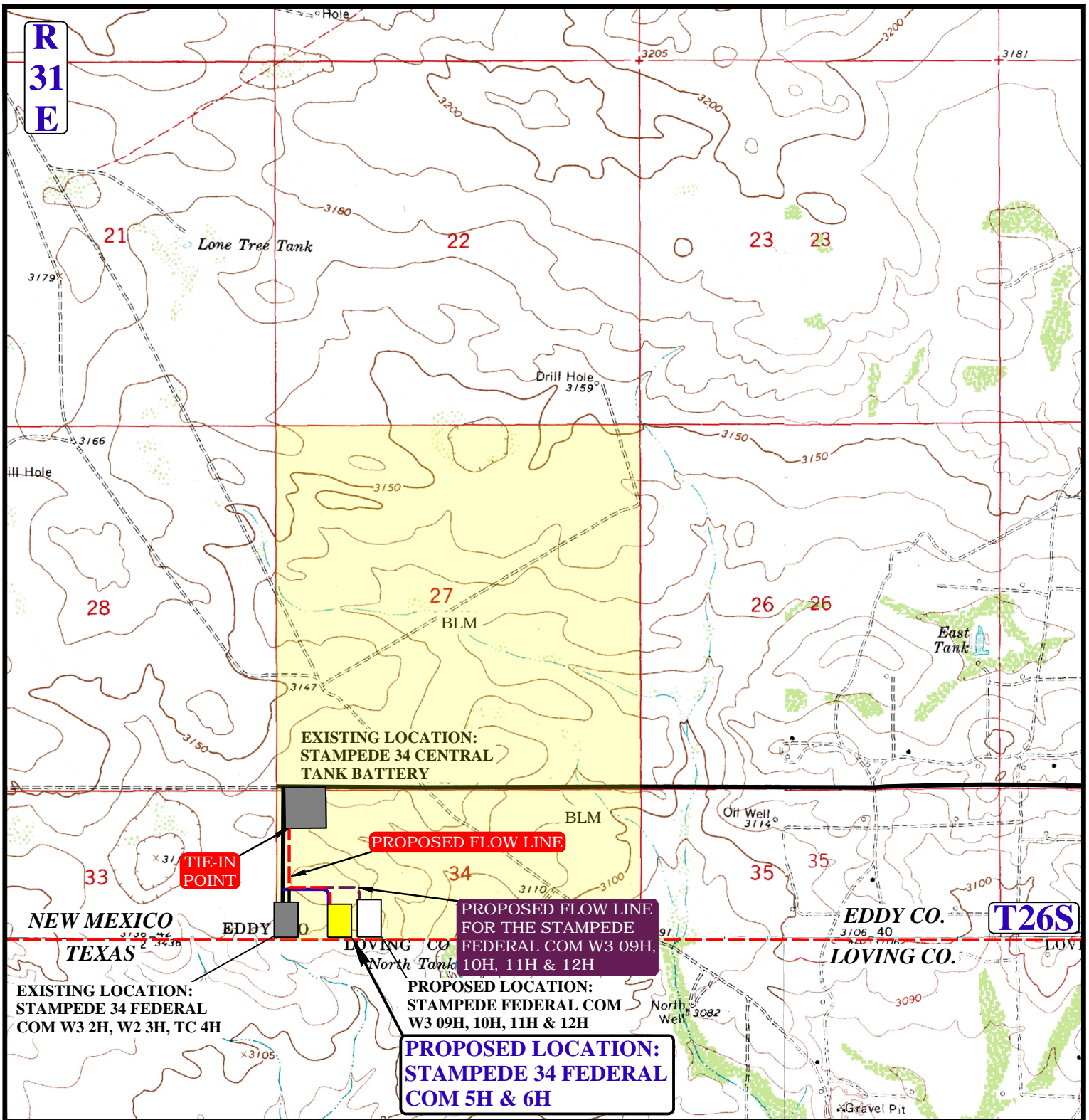
**STAMPEDE 34 FEDERAL COM 5H & 6H  
LOT 4, SECTION 34, T26S, R31E, N.M.P.M.  
EDDY COUNTY, NEW MEXICO**



DRAWN BY: M.L.	DATE DRAWN: 06-26-14
SCALE: 1" = 2000'	REVISED: 06-25-15 Z.H.F.
<b>ACCESS ROAD MAP</b>	<b>TOPO B</b>



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



**APPROXIMATE TOTAL FLOW LINE DISTANCE = 1677' +/-**

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
- - - - - PROPOSED FLOW LINE (SERVICING OTHER WELLS)

**ConocoPhillips Company**

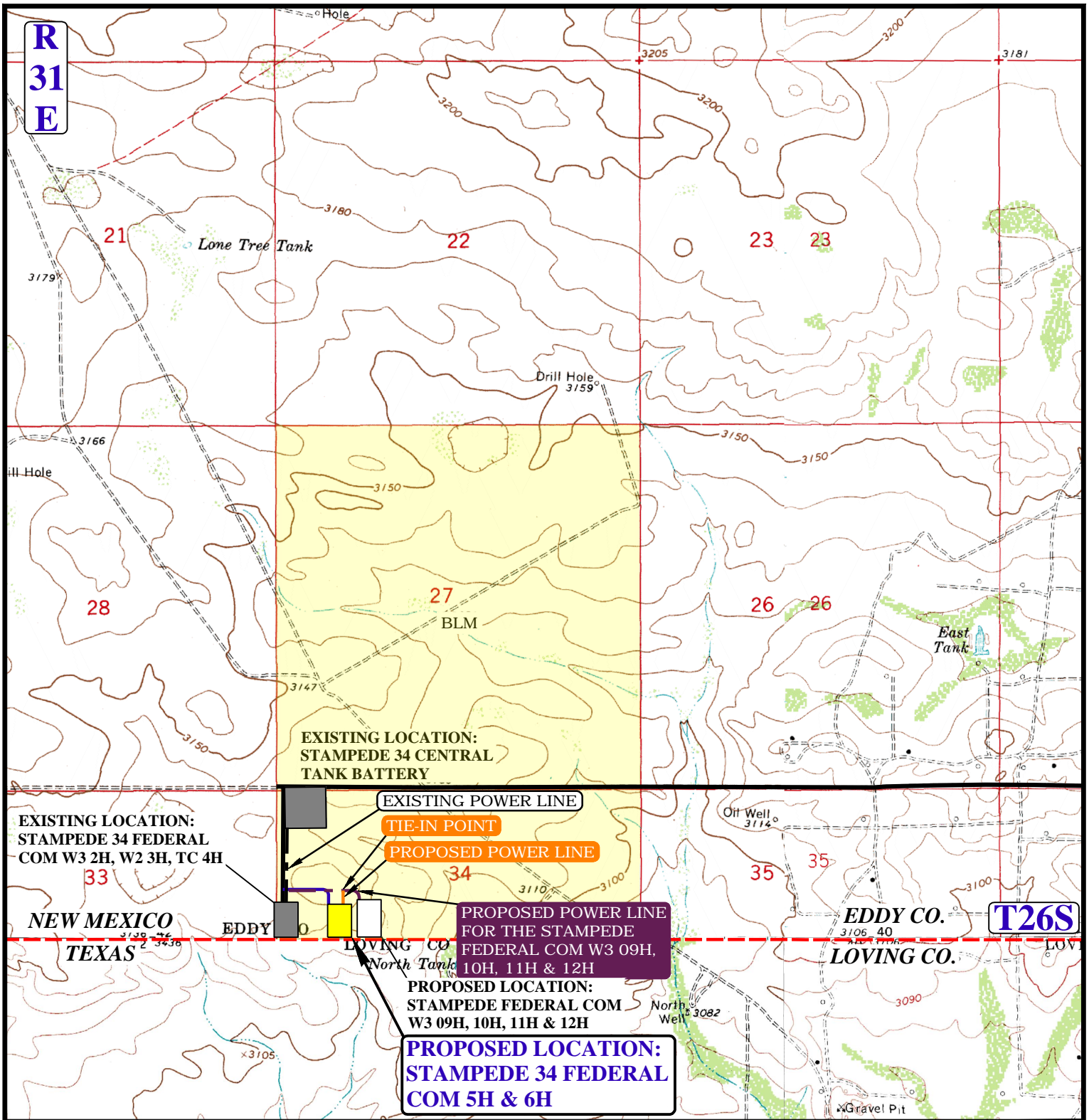
**STAMPEPE 34 FEDERAL COM 5H & 6H  
LOT 4, SECTION 34, T26S, R31E, N.M.P.M.  
EDDY COUNTY, NEW MEXICO**



DRAWN BY: M.L.	DATE DRAWN: 06-26-14
SCALE: 1" = 2000'	REVISED: 06-25-15 Z.H.F.
<b>FLOW LINE MAP</b>	<b>TOPO D</b>



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



**APPROXIMATE TOTAL POWER LINE DISTANCE = 198' +/-**

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
- EXISTING POWER LINE
- PROPOSED POWER LINE (SERVICING OTHER WELLS)

**ConocoPhillips Company**

**STAMPEDE 34 FEDERAL COM 5H & 6H  
LOT 4, SECTION 34, T26S, R31E, N.M.P.M.  
EDDY COUNTY, NEW MEXICO**



DRAWN BY: Z.H.F.	DATE DRAWN: 08-12-14
SCALE: 1" = 2000'	REVISED: 06-25-15 Z.H.F.
<b>POWER LINE MAP</b>	
<b>TOPO E</b>	



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

## Appendix B – Plats



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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-015-		<sup>2</sup> Pool Code Wolfcamp		<sup>3</sup> Pool Name Wolfcamp	
<sup>4</sup> Property Code		<sup>5</sup> Property Name STAMPEDE 34 FEDERAL COM			<sup>6</sup> Well Number 5H
<sup>7</sup> OGRID No. 217817		<sup>8</sup> Operator Name ConocoPhillips Company			<sup>9</sup> Elevation 3136.7'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	34	26S	31E		250	SOUTH	1040	WEST	EDDY

<sup>11</sup> 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
D	27	26S	31E		50	NORTH	1040	WEST	EDDY
<sup>12</sup> Dedicated Acres 225.20		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code C		<sup>15</sup> Order No.			

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

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°01'12"W	199.84'
L2	N00°00'35"E	280.00'
L3	N00°01'18"E	280.00'

SCALE  
REVISED BY: S.F. 06-25-15  
Distances referenced on plat to section lines are perpendicular.

**<sup>17</sup> OPERATOR CERTIFICATION**

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

Signature \_\_\_\_\_ Date \_\_\_\_\_

Ashley Bergen  
Printed Name

ashley.bergen@cop.com  
E-mail Address

**<sup>18</sup> SURVEYOR CERTIFICATION**

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

July 14, 2014

Date of Survey \_\_\_\_\_  
Signature and Seal of Professional Surveyor: \_\_\_\_\_

Certificate Number: \_\_\_\_\_

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-015- <sup>1</sup> API Number	<sup>2</sup> Pool Code	<sup>3</sup> Pool Name
		Wolfcamp
<sup>4</sup> Property Code	<sup>5</sup> Property Name	
	STAMPEDE 34 FEDERAL COM	
<sup>7</sup> OGRID No.	<sup>8</sup> Operator Name	<sup>6</sup> Well Number
217817	ConocoPhillips Company	6H
		<sup>9</sup> Elevation
		3137.8'

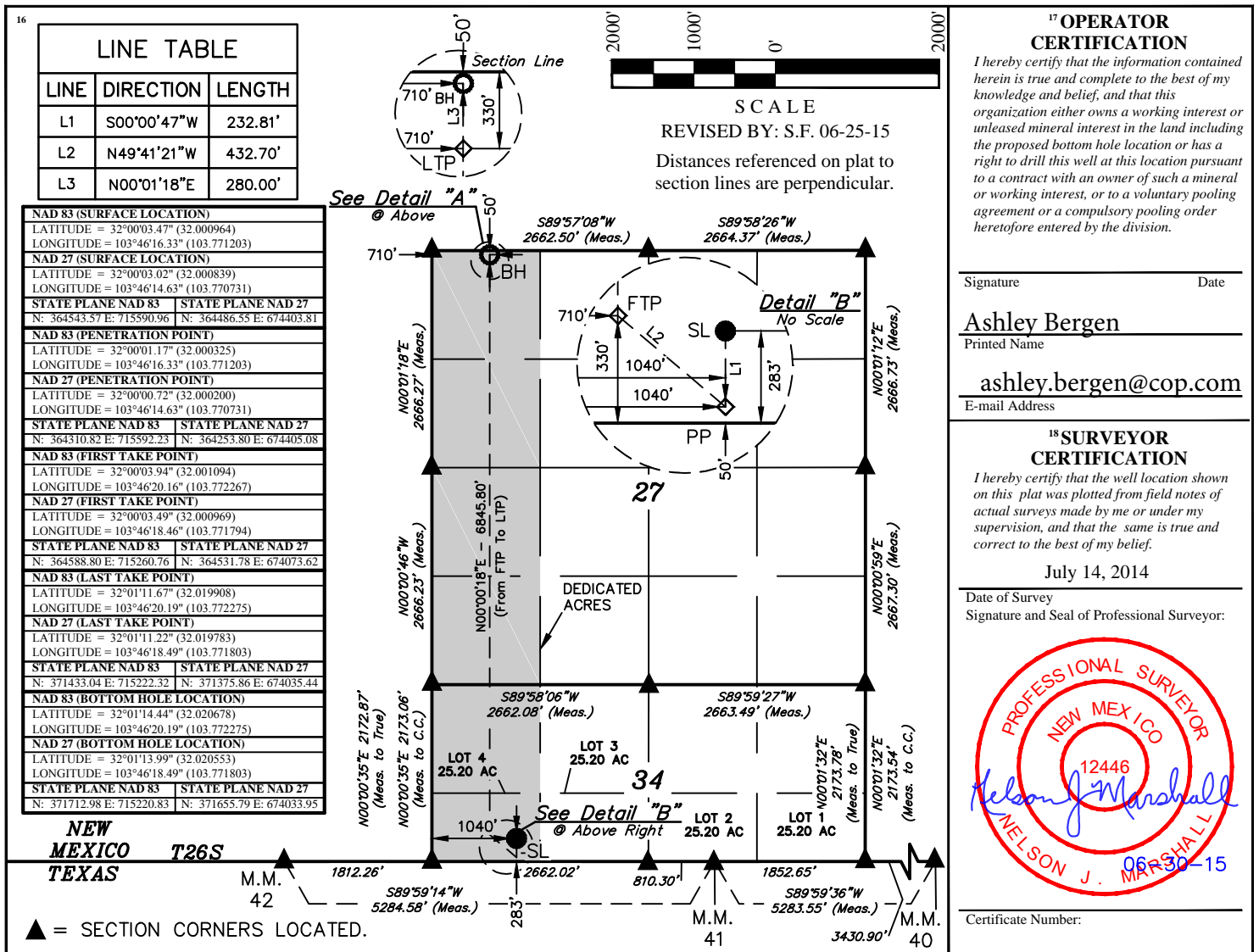
<sup>10</sup> Surface Location

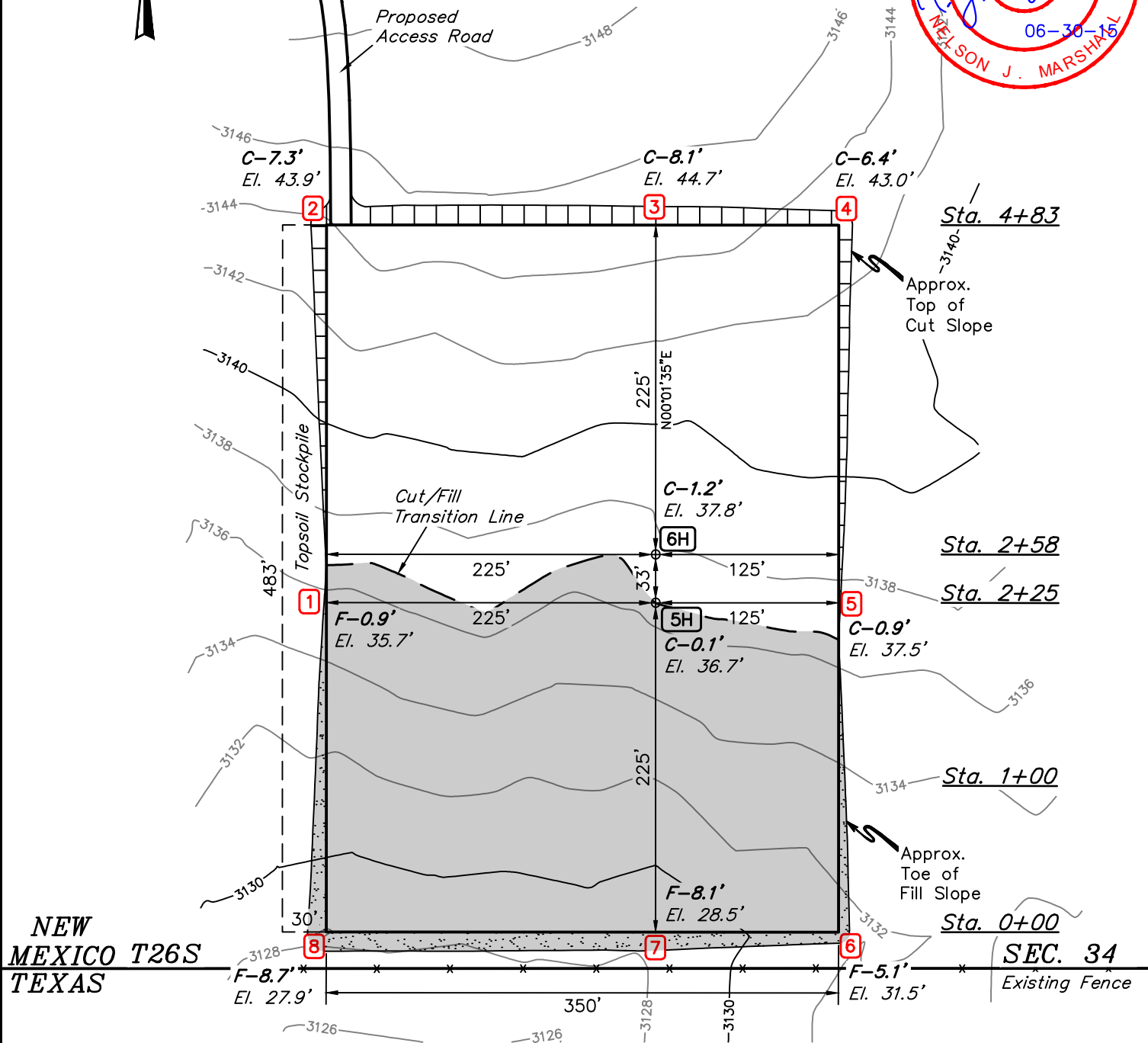
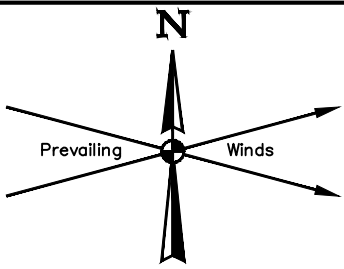
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	34	26S	31E		283	SOUTH	1040	WEST	EDDY

<sup>11</sup> Bottom Hole Location If Different From Surface

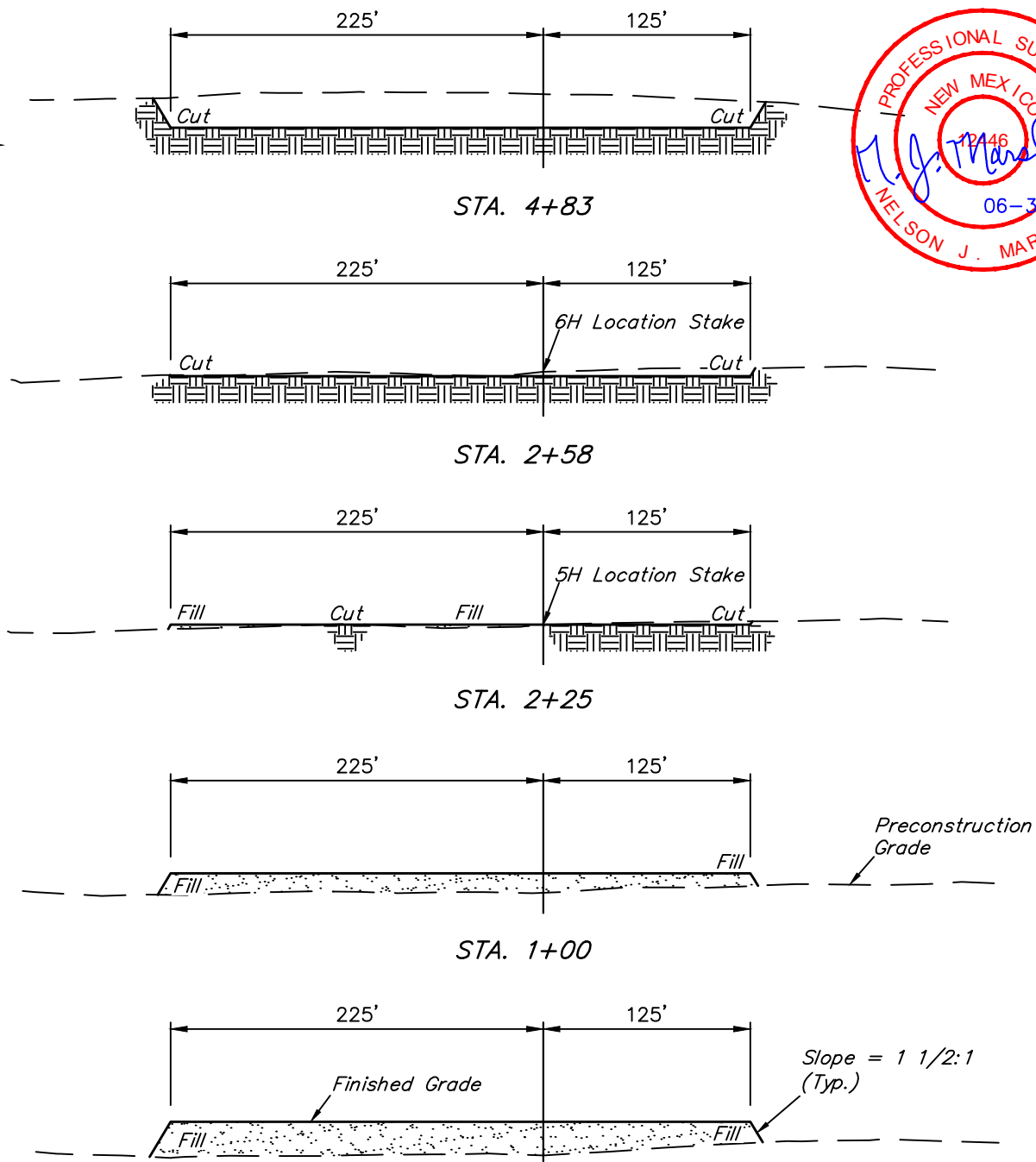
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	27	26S	31E		50	NORTH	710	WEST	EDDY
<sup>12</sup> Dedicated Acres		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.			
225.20									

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.





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



APPROXIMATE EARTHWORK QUANTITIES	
(2") TOPSOIL STRIPPING	1,130 Cu. Yds.
REMAINING LOCATION	13,500 Cu. Yds.
<b>TOTAL CUT</b>	<b>14,630 Cu. Yds.</b>
<b>FILL</b>	<b>13,500 Cu. Yds.</b>
EXCESS MATERIAL	1,130 Cu. Yds.
TOPSOIL	1,130 Cu. Yds.
<b>EXCESS UNBALANCE</b> (After Interim Rehabilitation)	<b>0 Cu. Yds.</b>

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	ACRES
WELL SITE DISTURBANCE	NA	±4.472
ACCESS ROAD R-O-W DISTURBANCE	±257.24'	±0.177
FLOW LINE R-O-W DISTURBANCE	±1,677.07'	±1.155
POWER LINE R-O-W DISTURBANCE	±198.42'	±0.137
<b>TOTAL SURFACE USE AREA</b>	<b>±2,132.73'</b>	<b>±5.941</b>

**NOTES:**

- Fill quantity includes 5% for compaction.
- Topsoil should not be stripped below finished grade on substructure area.

**ConocoPhillips Company**

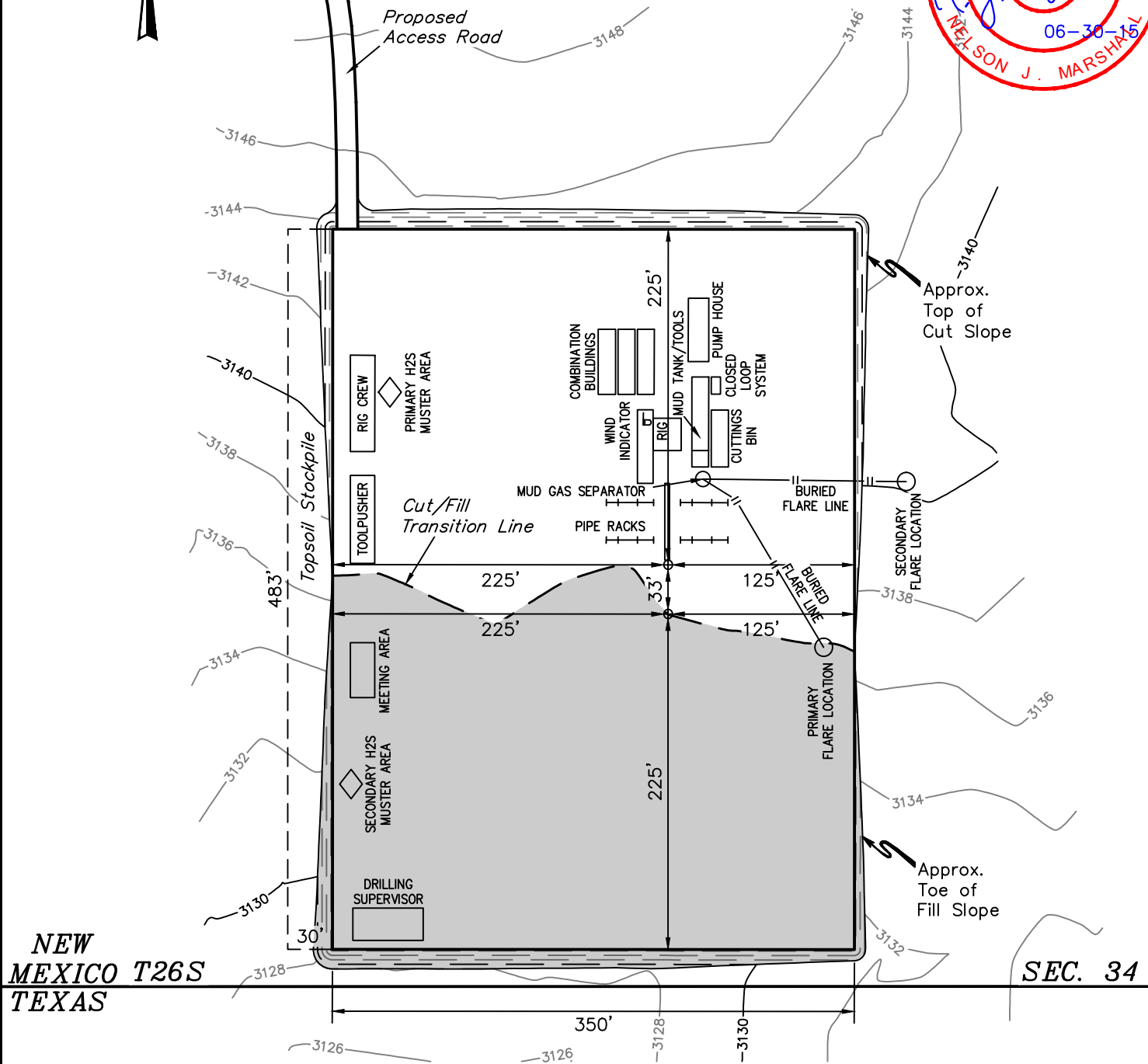
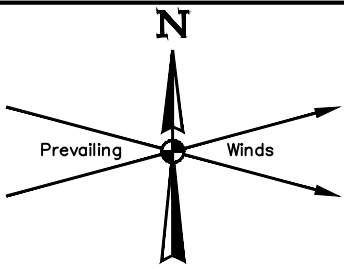
**STAMPEDE 34 FEDERAL COM 5H & 6H  
 LOT 4, SECTION 34, T26S, R31E, N.M.P.M.  
 EDDY COUNTY, NEW MEXICO**



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

DRAWN BY: S.F.	DATE DRAWN: 07-22-14
SCALE: AS SHOWN	REVISED: 06-25-15

**TYPICAL CROSS SECTIONS** **FIGURE #2**



**NOTES:**

- Contours shown at 2' intervals.
- May have different number of Pump Houses and Combination Buildings.

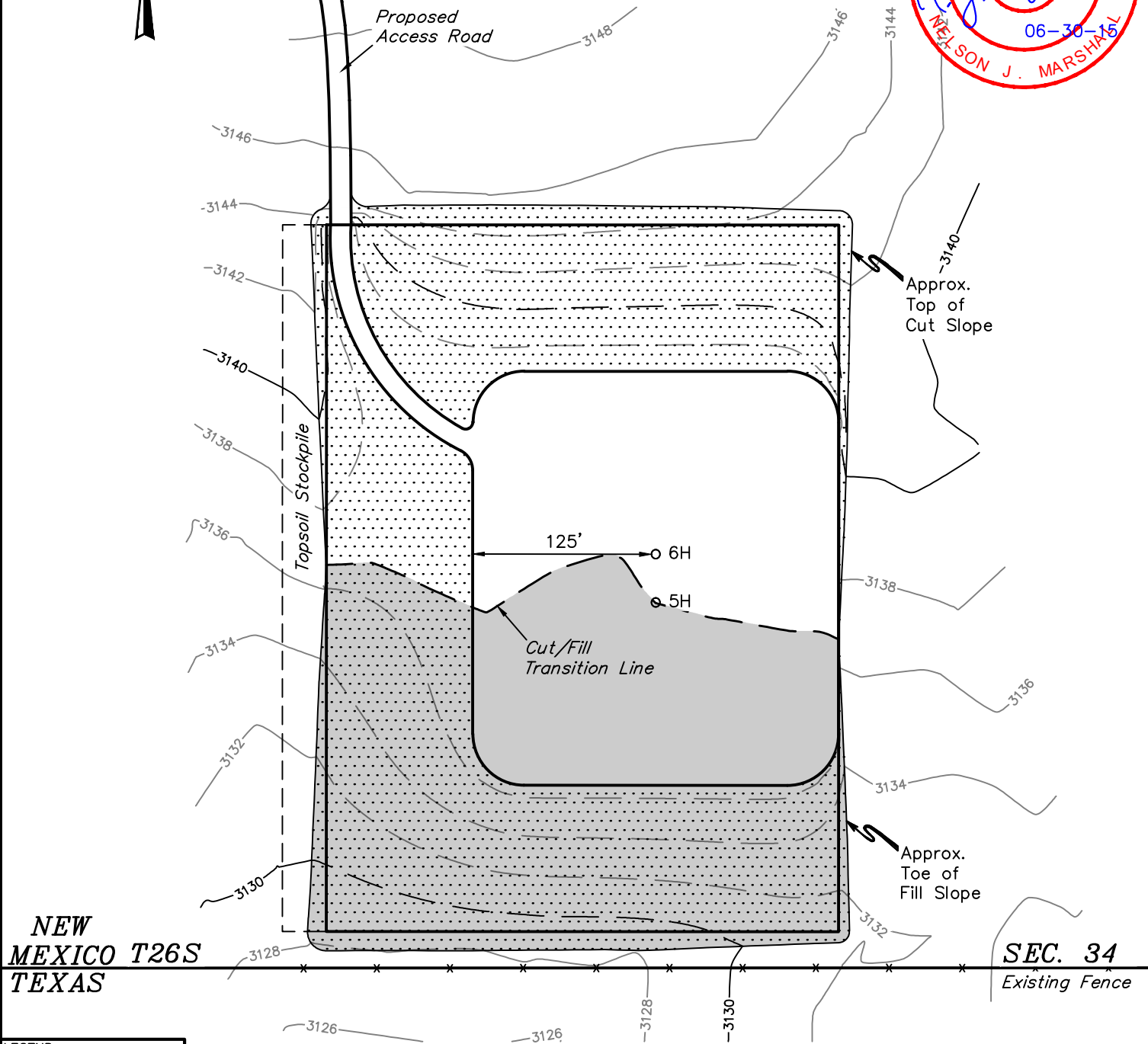
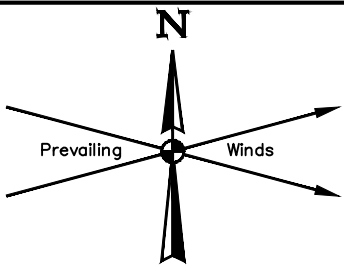
**ConocoPhillips Company**

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LOT 4, SECTION 34, T26S, R31E, N.M.P.M.  
EDDY COUNTY, NEW MEXICO**



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DRAWN BY: S.F.	DATE DRAWN: 07-22-14
SCALE: 1" = 100'	REVISED: 06-25-15
<b>TYPICAL RIG LAYOUT</b>	
<b>FIGURE #3</b>	



NEW MEXICO T26S TEXAS

SEC. 34 Existing Fence

LEGEND:  
 Reclaimed Area

APPROXIMATE UN-RECLAIMED ACREAGE = ±1.661 ACRES

NOTES:  
 • Contours shown at 2' intervals.

ConocoPhillips Company

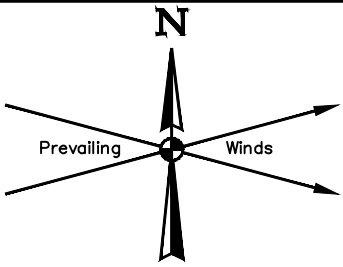
STAMPEDE 34 FEDERAL COM 5H & 6H  
 LOT 4, SECTION 34, T26S, R31E, N.M.P.M.  
 EDDY COUNTY, NEW MEXICO



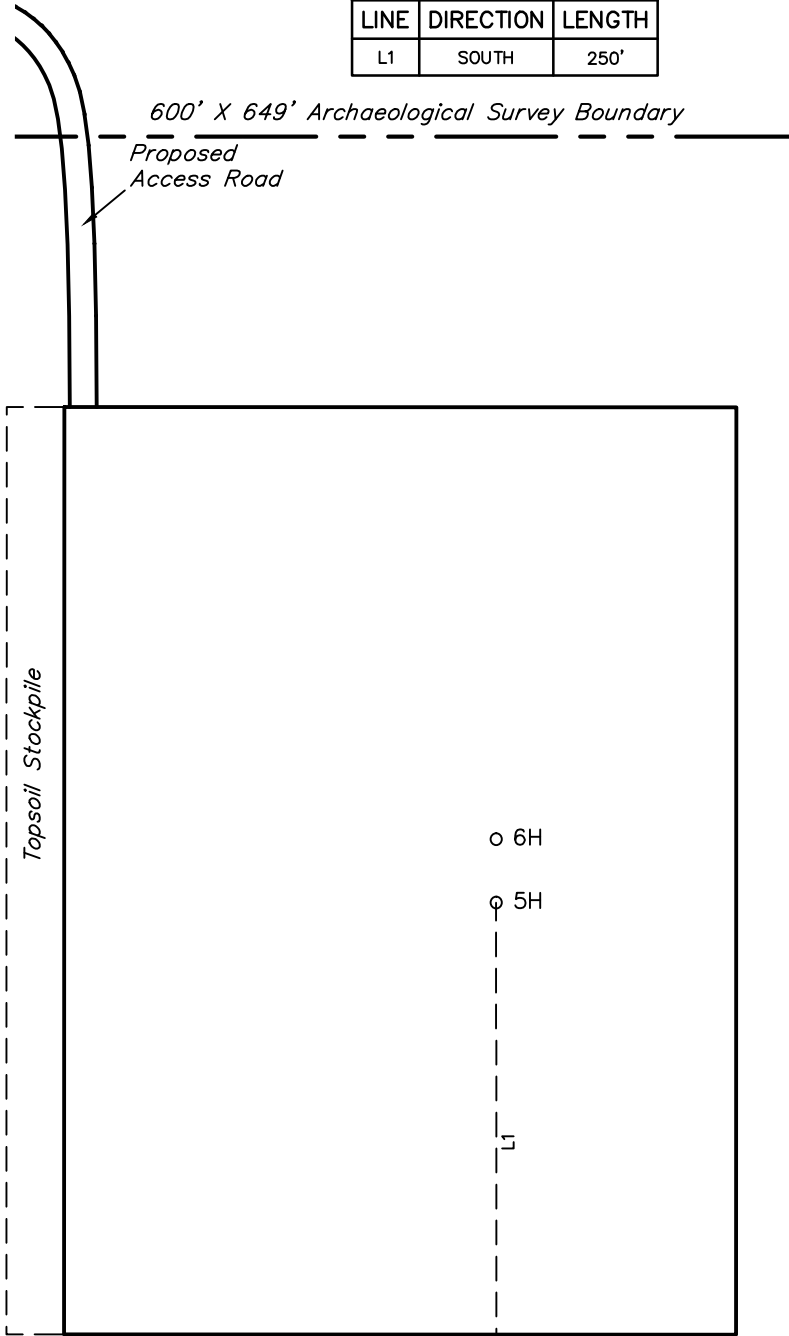
UELS, LLC  
 Corporate Office \* 85 South 200 East  
 Vernal, UT 84078 \* (435) 789-1017

DRAWN BY: S.F.	DATE DRAWN: 07-22-14
SCALE: 1" = 100'	REVISED: 06-25-15

**RECLAMATION DIAGRAM** **FIGURE #4**



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	SOUTH	250'



NEW MEXICO T26S TEXAS

SEC. 34 Existing Fence

**NOTES:**

**ConocoPhillips Company**

**STAMPEDE 34 FEDERAL COM 5H & 6H  
LOT 4, SECTION 34, T26S, R31E, N.M.P.M.  
EDDY COUNTY, NEW MEXICO**



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Vernal, UT 84078 \* (435) 789-1017

DRAWN BY: S.F.	DATE DRAWN: 07-22-14
SCALE: 1" = 100'	REVISED: 06-25-15
<b>ARCHAEOLOGICAL SURVEY BOUNDARY</b>	<b>FIGURE #5</b>

Sec. 27

SW 1/4

BLM

Section Line

S89°58'06"W - 2662.08' (Meas.)

Section Line

1/16 Section Line

1/4 Section Line

BLM

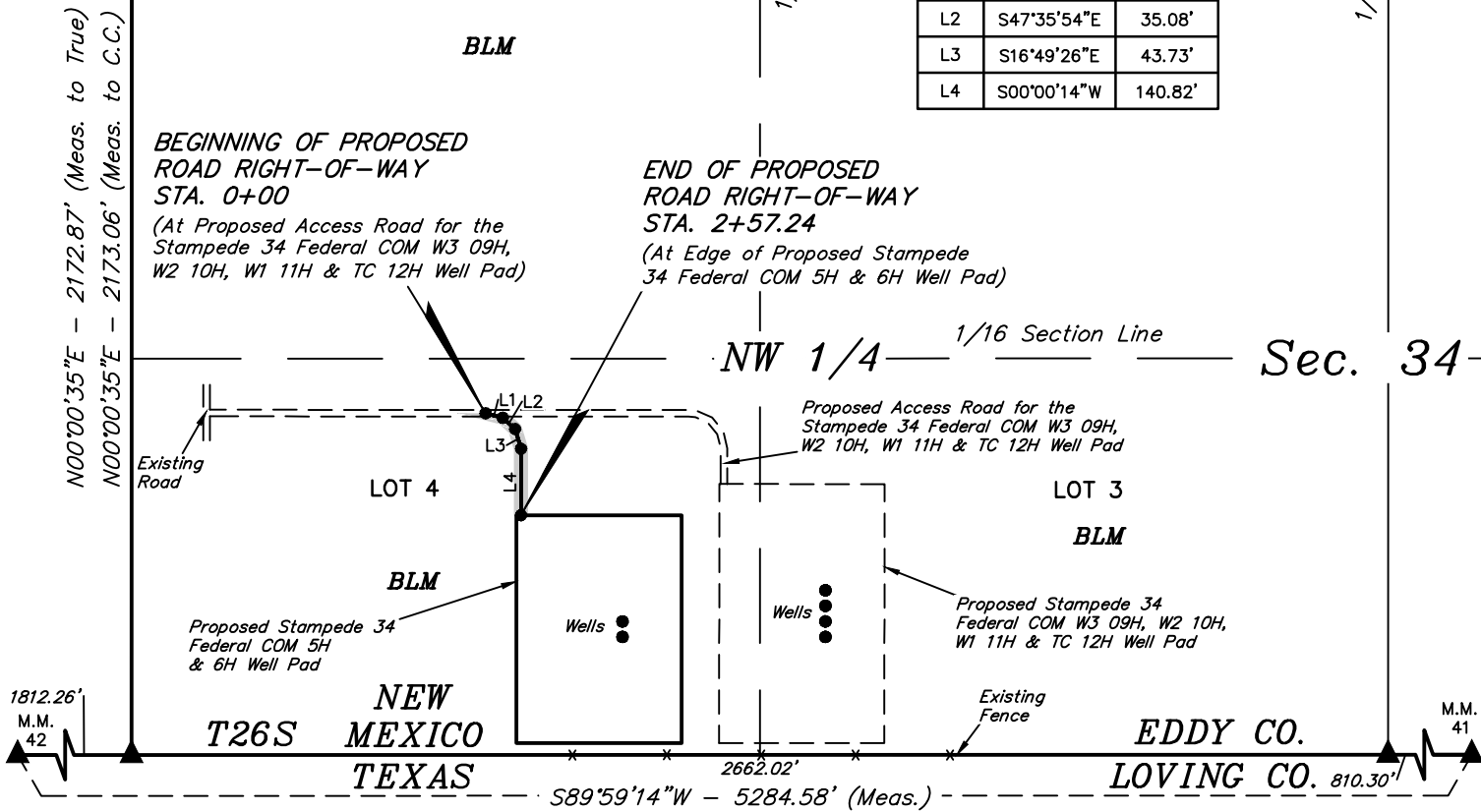
LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S75°14'09"E	37.62'
L2	S47°35'54"E	35.08'
L3	S16°49'26"E	43.73'
L4	S00°00'14"W	140.82'

**BEGINNING OF PROPOSED ROAD RIGHT-OF-WAY STA. 0+00**  
(At Proposed Access Road for the Stampede 34 Federal COM W3 09H, W2 10H, W1 11H & TC 12H Well Pad)

**END OF PROPOSED ROAD RIGHT-OF-WAY STA. 2+57.24**  
(At Edge of Proposed Stampede 34 Federal COM 5H & 6H Well Pad)

NW 1/4 1/16 Section Line

Sec. 34



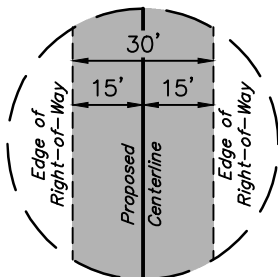
**ROAD RIGHT-OF-WAY DESCRIPTION**

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

BEGINNING AT A POINT IN LOT 4 OF SECTION 34, T26S, R31E, N.M.P.M., WHICH BEARS N46°00'05"E 1042.67' FROM THE SOUTHWEST CLOSING CORNER OF SAID SECTION 34, THENCE S75°14'09"E 37.62'; THENCE S47°35'54"E 35.08'; THENCE S16°49'26"E 43.73'; THENCE S00°00'14"W 140.82' TO A POINT IN LOT 4 OF SAID SECTION 34, WHICH BEARS N58°21'29"E 969.03' 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 0.177 ACRES MORE OR LESS.

BEGINNING OF ROAD STA. 0+00 BEARS N46°00'05"E 1042.67' FROM THE SOUTHWEST CLOSING CORNER OF SECTION 34, T26S, R31E, N.M.P.M.

END OF ROAD STA. 2+57.24 BEARS N58°21'29"E 969.03' FROM THE SOUTHWEST CLOSING CORNER OF SECTION 34, T26S, R31E, N.M.P.M.



**TYPICAL RIGHT-OF-WAY DETAIL**  
NO SCALE



RIGHT-OF-WAY LENGTHS			
PROPERTY OWNER	FEET	ACRES	RODS
BLM NW 1/4 SEC. 34	257.24	0.177	15.59

▲ = SECTION CORNERS LOCATED.

**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAN WAS PREPARED 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.

PROFESSIONAL SURVEYOR  
NEW MEXICO  
12446  
*Nelson J. Marshall*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 12446  
STATE OF NEW MEXICO  
06-30-15

**NOTES:**  
• The maximum grade of existing ground for the proposed access road is ±3.7%.

**ConocoPhillips Company**

**STAMPEDE 34 FEDERAL COM 5H & 6H SECTION 34, T26S, R31E, N.M.P.M. EDDY COUNTY, NEW MEXICO**

DRAWN BY: S.F.	DATE DRAWN: 07-22-14
SCALE: 1" = 400'	REVISED: 06-25-15

**ACCESS ROAD R-O-W**

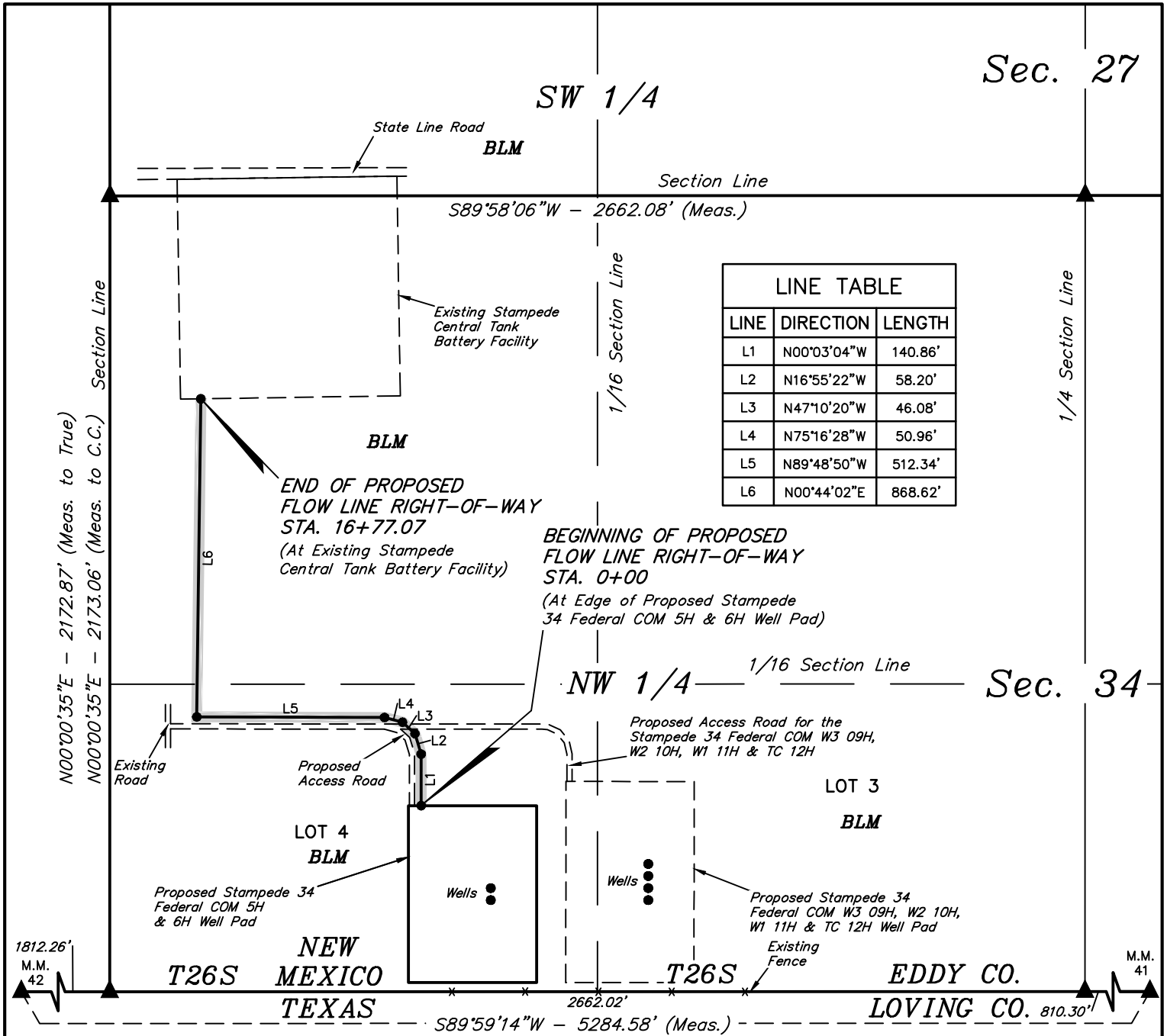


**UELS, LLC**  
Corporate Office \* 85 South 200 East  
Vernal, UT 84078 \* (435) 789-1017



Sec. 27

SW 1/4



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N00°03'04"W	140.86'
L2	N16°55'22"W	58.20'
L3	N47°10'20"W	46.08'
L4	N75°16'28"W	50.96'
L5	N89°48'50"W	512.34'
L6	N00°44'02"E	868.62'

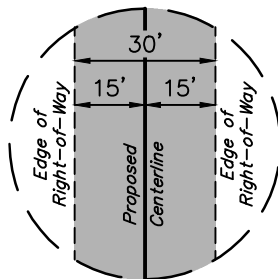
**FLOW LINE RIGHT-OF-WAY DESCRIPTION**

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

BEGINNING AT A POINT IN LOT 4 OF SECTION 34, T26S, R31E, N.M.P.M., WHICH BEARS N59°07'11"E 990.46' FROM THE SOUTHWEST CLOSING CORNER OF SAID SECTION 34, THENCE N00°03'04"W 140.86'; THENCE N16°55'22"W 58.20'; THENCE N47°10'20"W 46.08'; THENCE N75°16'28"W 50.96'; THENCE N89°48'50"W 512.34'; THENCE N00°44'02"E 868.62' TO A POINT IN THE NW 1/4 NW 1/4 OF SAID SECTION 34, WHICH BEARS S24°09'21"E 606.81' 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 1.155 ACRES MORE OR LESS.

BEGINNING OF FLOW LINE STA. 0+00 BEARS N59°07'11"E 990.46' FROM THE SOUTHWEST CLOSING CORNER OF SECTION 34, T26S, R31E, N.M.P.M.

END OF FLOW LINE STA. 16+77.07 BEARS S24°09'21"E 606.81' FROM THE NORTHWEST CORNER OF SECTION 34, T26S, R31E, N.M.P.M.



**TYPICAL RIGHT-OF-WAY DETAIL**  
NO SCALE



**RIGHT-OF-WAY LENGTHS**

PROPERTY OWNER	FEET	ACRES	RODS
BLM NW 1/4 SEC. 34	1677.07	1.155	101.64

▲ = SECTION CORNERS LOCATED.

**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAN WAS PREPARED 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.

**PROFESSIONAL SURVEYOR**  
NEW MEXICO  
12446  
*Nelson J. Marshall*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 12446  
STATE OF NEW MEXICO  
06-30-15

**NOTES:**

**ConocoPhillips Company**

**STAMPEDE 34 FEDERAL COM 5H & 6H SECTION 34, T26S, R31E, N.M.P.M. EDDY COUNTY, NEW MEXICO**

DRAWN BY: S.F.	DATE DRAWN: 07-22-14
SCALE: 1" = 400'	REVISED: 06-25-15

**FLOW LINE R-O-W**



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

Sec. 27

SW 1/4

BLM

Section Line

S89°58'06"W - 2662.08' (Meas.)

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°00'14"E	198.42'

Section Line

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

OHP  
Existing Power Line

Existing Power Line

BLM

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

(At Proposed Power Line for the Stampede 34 Federal COM W3 09H, W2 10H, W1 11H & TC 12H Well Pad)

Proposed Access Road for the Stampede 34 Federal COM W3 09H, W2 10H, W1 11H & TC 12H Well Pad

**END OF PROPOSED POWER LINE RIGHT-OF-WAY STA. 1+98.42**

(At Edge of Proposed Stampede 34 Federal COM 5H & 6H Well Pad)

NW 1/4 1/16 Section Line

Sec. 34

Existing Road

Proposed Access Road

LOT 4 BLM

Proposed Stampede 34 Federal COM 5H & 6H Well Pad

Wells

Wells

LOT 3

BLM

Proposed Stampede 34 Federal COM W3 09H, W2 10H, W1 11H & TC 12H Well Pad

Existing Fence

1812.26' M.M. 42

T26S NEW MEXICO TEXAS

2662.02'

S89°59'14"W - 5284.58' (Meas.)

EDDY CO. LOVING CO. 810.30'

M.M. 41

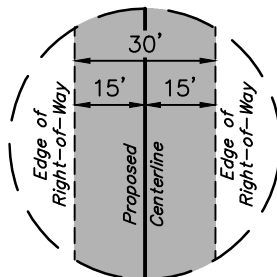
**POWER LINE RIGHT-OF-WAY DESCRIPTION**

A 20' WIDE RIGHT-OF-WAY 10' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN LOT 4 OF SECTION 34, T26S, R31E, N.M.P.M., WHICH BEARS N55°48'20"E 1257.44' FROM THE SOUTHWEST CLOSING CORNER OF SAID SECTION 34, THENCE S00°00'14"E 198.42' TO A POINT IN LOT 4 OF SAID SECTION 34, WHICH BEARS N63°57'24"E 1157.63' 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 0.137 ACRES MORE OR LESS.

BEGINNING OF POWER LINE STA. 0+00 BEARS N55°48'20"E 1257.44' FROM THE SOUTHWEST CLOSING CORNER OF SECTION 34, T26S, R31E, N.M.P.M.

END OF POWER LINE STA. 1+98.42 BEARS N63°57'24"E 1157.63' FROM THE SOUTHWEST CLOSING CORNER OF SECTION 34, T26S, R31E, N.M.P.M.



**TYPICAL RIGHT-OF-WAY DETAIL**  
NO SCALE



**RIGHT-OF-WAY LENGTHS**

PROPERTY OWNER	FEET	ACRES	RODS
BLM NW 1/4 SEC. 34	198.42	0.137	12.03

▲ = SECTION CORNERS LOCATED.

**CERTIFICATE**

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12446  
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STATE OF NEW MEXICO  
06-30-15

**NOTES:**

**ConocoPhillips Company**

**STAMPEDE 34 FEDERAL COM 5H & 6H SECTION 34, T26S, R31E, N.M.P.M. EDDY COUNTY, NEW MEXICO**



DRAWN BY: S.F.	DATE DRAWN: 07-22-14
SCALE: 1" = 400'	REVISED: 06-25-15

**POWER LINE R-O-W**



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

Sec. 27

SW 1/4

BLM

Section Line

S89°58'06"W - 2662.08' (Meas.)

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°00'14"E	198.42'

Section Line

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

Section Line

1/16 Section Line

Section Line

1/4 Section Line

BLM

Existing Power Line

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

(At Proposed Power Line for the Stampede 34 Federal COM W3 09H, W2 10H, W1 11H & TC 12H Well Pad)

END OF PROPOSED POWER LINE RIGHT-OF-WAY STA. 1+98.42

(At Edge of Proposed Stampede 34 Federal COM 5H & 6H Well Pad)

Proposed Access Road for the Stampede 34 Federal COM W3 09H, W2 10H, W1 11H & TC 12H Well Pad

NW 1/4 1/16 Section Line

Sec. 34

Existing Road

Proposed Access Road

Proposed Power Line for the Stampede 34 Federal COM W3 09H, W2 10H, W1 11H & TC 12H Well Pad

LOT 3

BLM

LOT 4

BLM

Proposed Stampede 34 Federal COM 5H & 6H Well Pad

Wells

Wells

Proposed Stampede 34 Federal COM W3 09H, W2 10H, W1 11H & TC 12H Well Pad

Existing Fence

1812.26' M.M. 42

T26S NEW MEXICO TEXAS

EDDY CO. LOVING CO.

M.M. 41

2662.02' S89°59'14"W - 5284.58' (Meas.)

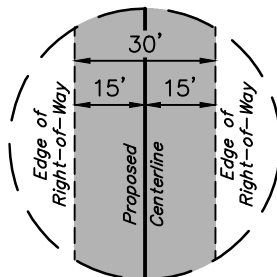
### POWER LINE RIGHT-OF-WAY DESCRIPTION

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

BEGINNING AT A POINT IN LOT 4 OF SECTION 34, T26S, R31E, N.M.P.M., WHICH BEARS N55°48'20"E 1257.44' FROM THE SOUTHWEST CLOSING CORNER OF SAID SECTION 34, THENCE S00°00'14"E 198.42' TO A POINT IN LOT 4 OF SAID SECTION 34, WHICH BEARS N63°57'24"E 1157.63' 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 0.137 ACRES MORE OR LESS.

BEGINNING OF POWER LINE STA. 0+00 BEARS N55°48'20"E 1257.44' FROM THE SOUTHWEST CLOSING CORNER OF SECTION 34, T26S, R31E, N.M.P.M.

END OF POWER LINE STA. 1+98.42 BEARS N63°57'24"E 1157.63' FROM THE SOUTHWEST CLOSING CORNER OF SECTION 34, T26S, R31E, N.M.P.M.



TYPICAL RIGHT-OF-WAY DETAIL NO SCALE



### RIGHT-OF-WAY LENGTHS

PROPERTY OWNER	FEET	ACRES	RODS
BLM NW 1/4 SEC. 34	198.42	0.137	12.03

▲ = SECTION CORNERS LOCATED.

### CERTIFICATE

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 REGISTRATION NO. 12446  
 STATE OF NEW MEXICO  
 06-30-15

### NOTES:

### ConocoPhillips Company

STAMPEDE 34 FEDERAL COM 5H & 6H SECTION 34, T26S, R31E, N.M.P.M. EDDY COUNTY, NEW MEXICO



DRAWN BY: S.F.	DATE DRAWN: 07-22-14
SCALE: 1" = 400'	REVISED: 06-25-15

### POWER LINE R-O-W



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

## **Appendix C – Plant Survey Report**



**Conoco Phillips Company**

**Proposed Stampede 34 Federal COM 5H and 6H Wells, Access Road, Production and Gas Pipelines, and Power Line; Section 34, Township 26 South, Range 31 East, Eddy County, New Mexico**

**Plant Survey Report**

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

**October 23, 2016**

**INTRODUCTION**

Conoco Phillips Company (Conoco Phillips) proposes to drill two horizontal wells (Stampede 34 Federal COM 5H and 6H) on a single well pad and construct the associated infrastructure including 257 feet of access road, 1667 feet of buried pipelines, and 198 feet of overhead, raptor-safe power line.

The proposed project is located on federal surface lands managed by the Bureau of Land Management, Carlsbad Field Office (BLM CFO), approximately 49.1 miles west-southwest of Jal in the NW/4, Section 34, Township 26 South, Range 31 East, Eddy County, New Mexico.

**Purpose of this Report**

This botanical survey report discusses the potential for disturbance to federal and state listed plant species and designated critical habitats protected under the Endangered Species Act (ESA, 16 USC 1531 et seq.) and the corresponding New Mexico State Endangered Plant Species List (EMNRD 2015) that have the potential to occur within Eddy County and the proposed Stampede 34 Federal COM 5H and 6H project area.

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

In addition to federally listed endangered and threatened species, which are legally protected under the ESA, the USFWS has developed a list of proposed and candidate species, species of concern, and

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

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

### **Project Description**

Conoco Phillips Company (Conoco Phillips) proposes to drill two horizontal wells (Stampede 34 Federal COM 5H and 6H) on a single well pad and construct the associated infrastructure including 257 feet of access road, 1667 feet of buried pipelines, and 198 feet of overhead, raptor-safe power line.

The proposed project is located on federal surface lands managed by the Bureau of Land Management, Carlsbad Field Office (BLM CFO), approximately 49.1 miles west-southwest of Jal in the NW/4, Section 34, Township 26 South, Range 31 East, Eddy County, New Mexico

The well pad containing the two proposed wells will be 483 feet N/S by 350-feet E/W, for a total pad site of 4.472 acres. An access road will extend north, from the northwestern corner of the proposed Stampede 34 COM 5H and 6H well pad, then turns northwest to tie-in with the proposed access road for the Stampede 34 Federal COM W3 9H, W2 10H well pad. The proposed access road will be 257 feet long and 30 feet wide with a 20-foot driving surface, for a total disturbance area of 0.177 acres.

A four-inch O.D., buried, coated, steel production pipeline and a two-inch buried steel gas pipeline will be installed in a trench that runs north from the northwestern corner of the proposed S Stampede 34 Federal COM 5H and 6H well pad, then west along the proposed access road for the Stampede 34 Federal COM W3 09H, W2 10H well pad, then north to the southwest corner of the existing Stampede Central Tank Battery (CTB). The production pipeline will transport production from the proposed Stampede 34 Federal COM 5H and 6H wells to the existing Stampede CTB. Working pressure of the production pipeline/flowline will be approximately 1480 psi. Working pressure of the co-located gas pipeline will be approximately 1100 psi. The total length of the two proposed pipelines is 1677.07 feet in a 30-foot ROW for a total disturbance area of 1.155 acres.

Construction will consist of driving a back hoe and equipment on existing roads and two-tracks to the pipeline corridor, excavating the trench for the co-located gas and water pipelines to a depth of no less than 36 inches (three feet), installing the pipelines, and backfilling the trench once the installation is completed. In areas where blading is allowed, topsoil will be stockpiled and separated from the excavated trench mineral material. When the excavated soil is backfilled into the trench, it will be compacted to prevent subsidence. No berms over the pipeline will be evident. No temporary roadways will be required and no blasting will be performed as part of this project.

Use of Best Management Practices (BMPs) will include performing construction activities only when soils are dry enough to adequately support construction equipment and vehicles. When the soil is too wet (ruts more than six inches deep), construction will be postponed until conditions improve. All access along the pipeline route will be from the existing State Line Road and access road to the Stampede 34 Federal Com Central Tank Battery. Soil and vegetation will be minimally disturbed except in the proposed pipeline construction area. Final reclamation procedures for the proposed pipeline corridor will match the procedures outlined in the Plan of Development. The estimated duration from start of construction to completion is approximately two months.

An overhead, raptor-safe power line will be installed to power the wells. The power line will run south from the proposed power line for the Stampede 34 Federal COM W3 09H and W2 10H well pad to the north edge of the proposed Stampede 34 COM 5H and 6H well pad. The total length of the power line will be 198.42 feet in a 30-foot ROW for a total disturbance area of 0.137 acres.

The proposed project is located on federal surface lands managed by BLM-CFO, in the N/W Section 34, Township 26 South, Range 31 East, Eddy County, New Mexico (Phantom Banks, NM, 7.5 minute USGS quadrangle). The elevation of the project area is 3,138 feet. Disturbances in and around the project area include: the State Line road, flowlines, and buried pipelines to the north of the proposed Stampede 34 Federal COM 5H and 6H well pad, and an existing powerline that runs N/S near the northwest corner of the proposed well pad. Also, the project area has previously been grazed in the past.

The project area is located in Pecos Valley section of the Great Plains physiographic province in an area known as the Phantom Banks immediately north of the Texas-New Mexico state line. The proposed project area is located on a gently sloping south-facing hill that overlooks a broad and shallow drainage that drains into a large earthen reservoir known as the North Tank in Loving County, Texas. The topography of the area has moderate to low relief with a surface geology characterized by shallow low-lying dunes and low-lying petrocalcic outcroppings. No perennial streams, alkali seeps, wetlands, or karst features were observed within the immediate vicinity of the project area. The East Tank and Hackberry windmills are located approximately one mile northeast of the project area, and the North Tank is located approximately a quarter of a mile south of the project area.

Most of the soils throughout the project area are composed of the Simona-Bippus soil complex, 0 to 5 percent slopes. The Simona soils are found on the rises and slopes of alluvial fans and plains and are derived from mixed alluvium and/or eolian sands (NRCS 2016). A typical soil profile horizon is comprised of gravelly fine sandy loam in the H1 horizon (0 to 19 inches) and an indurate petrocalcic layer in the H2

horizon (19 to 23 inches). The soil map unit is well drained with a very low to moderately capacity to transmit water and a low water storage capacity. The Bippus soils are found on the talfs and rises of flood plains, and alluvial fans and are derived from mixed alluvium. A typical soil profile consists of silty clay loam in the H1 horizon (0 to 37 inches) and clay loam in the H2 horizon (37 to 60 inches). These are well drained soils with moderately high to high capacity to transmit water and moderate water storage capacity.

Vegetation in the project area is classified as transitional between the Plains-Mesa Sand Scrub vegetation community (Dick-Peddie 1993) and the Chihuahuan desert scrub communities (Brown et al. 1998, 2007). The dominant grass species in the project area included: sand dropseed (*Sporobolus cryptandrus*), mesa dropseed (*S. flexuosus*), Rio Grande bristlegrass (*Setaria reverchonii*), black grama (*Bouteloua eriopoda*) and burrograss (*Schleropogon brevifolius*). Dominant species observed throughout the project area included white thorn acacia (*Acacia constricta*), range ratany (*Krameria erecta*), javelina bush (*Condalia ericoides*), honey mesquite (*Prosopis glandulosa*), and invading creosote (*Larrea tridentata*). The area has been grazed in the past.



**METHODOLOGY**

The proposed project area was surveyed on October 19, 2016 by botanist, Robyn Tierney. Weather during the survey was clear and sunny with temperatures in the mid- to upper 80s°F. Prior to conducting the survey, databases identifying the Threatened and Endangered plant species and species of concern listed by the U.S. Fish and Wildlife Service’s Information, Planning, and Conservation System (IPaC 2016), the State of New Mexico’s Endangered Plant Species Program (EMNRD 2016), the New Mexico Rare Plant Technical Committee (NMRPTC 1999, revised 2016), and the New Mexico State Office, Bureau of Land Management (NMSO-BLM) were examined.

The pedestrian survey was conducted by walking a series of parallel belt transects spaced at 50 to 100-foot intervals, across the proposed well pad, access road, pipeline corridor, and overhead powerline corridor. The purpose of the survey was to inspect for and to identify federally listed species and other species of concern that may be found in the project area. All plants observed in the project area were identified in order to provide a more complete description of the project area’s environment. A list of the plants observed in the project area is included at the end of this report in Table 2.

**SURVEY RESULTS**

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

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

**Table 1. Species of interest, status, habitat, and potential to occur in Eddy County and in the proposed Stampede 34 Federal COM 5H and 6H well project area (IPaC 2016, EMNRD 2015, NMRPTC 1999, revised 2016)**

SPECIES STATUS	HABITAT	POTENTIAL TO OCCUR IN THE PROJECT AREA*
<i>Amsonia tharpii</i> Tharp’s blue-star  USFWS: SoC  State of New Mexico: E  BLM: S	Occupies limestone and gypsum hills composed of sedimentary outcrops or alluvium derived from Upper Permian beds of the Rustler, Gatuña, and Castille Formations containing gypsum or Ogallala-like caliche fragments in Chihuahuan desert scrub communities; 3,100-3,500 ft. (NMRPTC 1999, Howard 2007, cited in Roth 2013).	Soil substrates in project area are not derived from the Rustler, Gatuna and Castile formations and are not suitable for this species. <b>No appropriate habitat</b>

SPECIES STATUS	HABITAT	POTENTIAL TO OCCUR IN THE PROJECT AREA*
<p><i>Anulocaulis leiosolenus</i> var. <i>gypsogenus</i> Pecos gyp ringstem</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: --</p>	<p>Species is confined to open gypsum outcrops and gypsum rich soils; 3,300 – 4,600 ft. (NMRPTC 1999).</p>	<p>Project area does not contain gypsic soils derived from gypsum outcrops. <b>No appropriate habitat</b></p>
<p><i>Aquilegia chaplinei</i> Chaplins columbine</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: S</p>	<p>Found near limestone seeps and springs in the montane scrub or riparian canyon bottoms of remote canyons; 4,700 – 5,500 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 1,000 feet lower than species elevational range. <b>No appropriate habitat</b></p>
<p><i>Astragalus gypsodes</i> Gypsum milkvetch</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: S</p>	<p>Endemic to the gypsum flats and low gullied gypsic hills of the Castile Formation in Chihuahuan desert scrub; 3,500 – 4,000 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub. Soil substrates in project area are not derived from the Rustler, Gatuna and Castile formations and are not suitable for this species. <b>No appropriate habitat</b></p>
<p><i>Chaetopappa hersheyi</i> Hershey's cliff daisy</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: --</p>	<p>Endemic to steep canyons of the Guadalupe Mountains. Habitat consists of steep limestone cliffs in pinon-juniper woodland and Rocky Mountain montane coniferous forest communities; 5,000 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 2,000 feet lower than species elevational range. <b>No appropriate habitat</b></p>

SPECIES STATUS	HABITAT	POTENTIAL TO OCCUR IN THE PROJECT AREA*
<p><i>Cirsium wrightii</i> Wright's marsh thistle</p> <p>USFWS: C</p> <p>State of New Mexico: E</p> <p>BLM: --</p>	<p>Obligate wetland species found in wet, alkaline soils of spring seeps and along the marshy edges of streams and ponds; (3,450 - 8,500 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub with no springs, seeps, or marshes. <b>No appropriate habitat</b></p>
<p><i>Coryphantha robustispina</i> ssp. <i>scheeri</i> Scheer pincushion</p> <p>USFWS: C</p> <p>State of New Mexico: E</p> <p>BLM: S</p>	<p>Favors nearly level areas in desert grassland Chihuahuan desert scrub, usually found on gravelly or silty soils and occasionally on rocky limestone or gypseous benches or bajadas, 3,300 – 3,600 ft. (NMRPTC 1999).</p>	<p>substrates in project area are not derived from the Rustler, Gatuna and Castile formations and are not suitable for this species. <b>No appropriate habitat</b></p>
<p><i>Dermatophyllum guadalupense</i> Guadalupe mesquite</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: S</p>	<p>Found in outcrops of pink, limy, fine-grained sandstone that is 1-2 percent gypsum by analysis with a surface pavement of limestone gravel and cobble, in Chihuahuan desert scrub and juniper savanna; 5,260 – 6,650 ft. (NMRPTC 1999).</p>	<p>Project area is nearly 2,000 feet lower than species elevational range. Only known Eddy County location straddles the Otero/Eddy county line and is limited to the Brokeoff Mountains and Upper Dog Canyon area of the Guadalupe Mountains in New Mexico and adjacent Culberson County, Texas (NMRPTC 1999) <b>No appropriate habitat</b></p>
<p><i>Echinocereus fendleri</i> var. <i>kuenzleri</i> Kuenzler's hedgehog cactus</p> <p>USFWS: E</p> <p>State of New Mexico: E</p> <p>BLM: E</p>	<p>Found on gentle, gravelly to rocky slopes and benches on limestone or limy sandstone in Great Plains grassland, oak woodland, or pinon-juniper woodland at the north end of the Guadalupe Mountains; 5,200 – 6,600 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 3,000 feet lower than species elevational range. <b>No appropriate habitat</b></p>

SPECIES STATUS	HABITAT	POTENTIAL TO OCCUR IN THE PROJECT AREA*
<p><i>Ericameria nauseosa</i> var. <i>texensis</i> Guadalupe rabbitbrush</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: --</p>	<p>Endemic to the Guadalupe-Brokeoff range of mountains, plant is found in crevices on faces of limestone cliffs and adjacent to boulders of canyon woodlands; less frequently in open gravel alluvium of stream beds in pinon-juniper woodland and Chihuahuan desert scrub; 4,900 – 7,000 ft. (NMRPTC 1999).</p>	<p>Project area is located nearly 3,000 feet lower than species elevational range. <b>No appropriate habitat</b></p>
<p><i>Eriogonum gypsophilum</i> Gypsum wild buckwheat</p> <p>USFWS: T</p> <p>State of New Mexico: E</p> <p>BLM: T</p>	<p>Plant is restricted to almost pure gypsum that is sparsely vegetated with other gypsophilous plants; 3,280 – 3,600 ft. (NMRPTC 1999).</p>	<p>substrates in project area are not derived from gypsic formations and are not suitable for this species. <b>No appropriate habitat</b></p>
<p><i>Escobaria guadalupensis</i> Guadalupe pincushion cactus</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: --</p>	<p>Plant is found in cracks in limestone and rocky soils of broken terrain in open oak and pinon-juniper woodland, also in lower montane coniferous forest and Chihuahuan desert scrub; 5,200 – 7,200 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 2,000 feet lower than species elevational range. <b>No appropriate habitat</b></p>
<p><i>Escobaria sneedii</i> var. <i>leei</i> Lee's pincushion cactus</p> <p>USFWS: T</p> <p>State of New Mexico: E</p> <p>BLM: T</p>	<p>Plant is found in cracks in limestone in areas of broken terrain and steep slopes of Chihuahuan desert scrub of the Guadalupe Mountains; 4,000 – 5,000 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 1,000 feet lower than species elevational range. <b>No appropriate habitat</b></p>

SPECIES STATUS	HABITAT	POTENTIAL TO OCCUR IN THE PROJECT AREA*
<p><i>Hedeoma apiculata</i> McKittrick pennyroyal</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: --</p>	<p>Endemic to the Guadalupe Mountains, plant is found in limestone crevices of steep canyon walls; usually on north-facing slopes or in areas that sheltered and relatively moist in the Guadalupe Mounains; 5,400 – 8,400 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 3,000 feet lower than species elevational range. <b>No appropriate habitat</b></p>
<p><i>Hexalectris nitida</i> Shining crested coralroot</p> <p>USFWS: SoC</p> <p>State of New Mexico: E</p> <p>BLM: --</p>	<p>Plant is found in leaf litter under oaks in the deep canyons of the Guadalupe Mountains; 4,300 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 1,000 feet lower than species elevational range. <b>No appropriate habitat</b></p>
<p><i>Hexalectris revoluta</i> Curly crested coralroot</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: S</p>	<p>Plant is found in heavy leaf litter under oaks or in thin humic soils among rock outcrops; 6,400 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 1,000 feet lower than species elevational range. <b>No appropriate habitat</b></p>
<p><i>Justicia wrightii</i> Wright’s justicia</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: --</p>	<p>Found in dry, gravelly clay soils over limestone on flats or on limestone benches on low hills in Chihuahuan desert scrubland and shortgrass grasslands; 3,900 ft. (NMRPTC 1999, Poole et al. 2007).</p>	<p>Project area is located in desert scrub dominated by shallow eolian soils over indurate petrocalcic rock and is not located on flats or on limestone benches. <b>No appropriate habitat</b></p>

SPECIES STATUS	HABITAT	POTENTIAL TO OCCUR IN THE PROJECT AREA*
<p><i>Linum allredii</i> Allred's flax</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: S</p>	<p>Plant is found on scarps and hillsides on exposed pale sandy gypsum of the Castile Formation in Chihuahuan Desert scrub; 3,900 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub dominated by shallow eolian soils over indurate petrocalcic rock and is not located on flats or on limestone benches. <b>No appropriate habitat</b></p>
<p><i>Muhlenbergia villiflora</i> var. <i>villosa</i> Hairy muhly</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: --</p>	<p>Found in open desert grassland and desert savanna on alkaline and calcareous soils; 4,800 – 5,200 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 1,000 feet lower than species elevational range. <b>No appropriate habitat</b></p>
<p><i>Nama xylopodium</i> Cliff nama</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM:</p>	<p>Found in partly shaded limestone cliffs and outcrops in montane scrub to pinon-juniper oak woodlands of the Guadalupe Mountains; 4,500 – 6,500 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 1,500 feet lower than species elevational range. <b>No appropriate habitat</b></p>
<p><i>Penstemon cardinalis</i> ssp. <i>regalis</i> Guadalupe penstemon</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: S</p>	<p>Plant is found on limestone slopes and canyon bottoms in montane scrub, pinon-juniper woodlands, and lower montane coniferous forests; 4,500 – 6,000 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 1,500 feet lower than species elevational range. <b>No appropriate habitat</b></p>

SPECIES STATUS	HABITAT	POTENTIAL TO OCCUR IN THE PROJECT AREA*
<p><i>Perityle quinqueflora</i> Five-flowered rock daisy</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: --</p>	<p>Plant is found in crevices of limestone bluffs, cliffs in high canyons and caprock; 5,000 – 6,000 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 2,000 feet lower than species elevational range. <b>No appropriate habitat</b></p>
<p><i>Polygala rimulicola</i> var. <i>rimulicola</i> Guadalupe milkwort</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: --</p>	<p>Plant is found in cool crevices of limestone cliffs in montane coniferous forests; 5,000 – 8,000 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 2,500 feet lower than species elevational range. <b>No appropriate habitat</b></p>
<p><i>Salvia summa</i> Supreme sage</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: --</p>	<p>Restricted to partly shaded limestone cliffs in the Guadalupe mountains; 5,000 – 7,000 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 2,500 feet lower than species elevational range. <b>No appropriate habitat</b></p>
<p><i>Solidago wrightii</i> var. <i>guadalupensis</i> Guadalupe Mountains goldenrod</p> <p>USFWS: SoC</p> <p>State of New Mexico: SoC</p> <p>BLM: --</p>	<p>Plant is found on limestone outcrops and substrates and is most commonly associated with acacia-juniperus-dasyliirion-lechuguilla, oak, oak-maple, and yellow pine-maple-hophornbeam-madrone vegetation types of the Guadalupe Mountains; 4,300 – 7,100 ft. (NMRPTC 1999).</p>	<p>Project area is located in desert scrub and is nearly 1,500 feet lower than species elevational range. <b>No appropriate habitat</b></p>

SPECIES STATUS	HABITAT	POTENTIAL TO OCCUR IN THE PROJECT AREA*
<i>Streptanthus sparsiflorus</i> Guadalupe jewelflower  USFWS: SoC  State of New Mexico: SoC  BLM: S	Found in rugged limestone canyon bottoms and montane scrub; 5,000 – 7,000 ft. (NMRPTC 1999).	Project area is located in desert scrub and is nearly 2,500 feet lower than species elevational range. <b>No appropriate habitat</b>
<i>Valeriana texana</i> Texas tobacco-root  USFWS: SoC  State of New Mexico: SoC  BLM: --	Plant is found in shaded, moist limestone or igneous cliffs, occasionally in canyon bottoms and in boulder fields in creek bottoms, within pinon-juniper woodland and montane coniferous forest; 5,200 – 8,000 ft. (NMRPTC 1999).	Project area is located in desert scrub and is nearly 2,500 feet lower than species elevational range. <b>No appropriate habitat</b>

**Status USFWS – U.S Fish and Wildlife Service (federal) and New Mexico (state) listed species:** Endangered (E) – An animal or plant species in danger of extinction throughout all or a significant portion of its range. Threatened (T) – An animal or plant species likely to become endangered within the foreseeable future throughout all or a significant portion of its range. Candidate (C) - Candidate species are plants and animals for which the U.S. Fish and Wildlife Service (FWS) has sufficient information on their biological status and threats to propose them as endangered or threatened under the Endangered Species Act (ESA), but for which development of a proposed listing regulation is precluded by other higher priority listing activities. Sensitive (S) and Species of Concern (SoC)

No federal or state listed plant species or suitable habitat for these species were observed in the project area (IPaC 2016, EMNRD 2016, NMRPTC 1999, revised 2016).

Plant species that were observed during the survey are listed in Table 1 below. Plant identifications are based on a variety of sources including: Poole et al. (2007) Rare Plants of Texas and the herbarium database from holdings in the Centennial Museum, University of Texas, El Paso (Centennial Museum, UTEP 2016). Scientific names are from these sources and the USDA Plants Database (2016).

**Table 1. Plants observed in the vicinity of the proposed Stampede 34 Federal COM 5H and 6H well project area**

Scientific Name	Common Name
<b>Shrubs and Subshrubs</b>	
<i>Acacia constricta</i>	White thorn acacia
<i>Canotia holocantha</i>	All-thorn
<i>Condalia ericoides</i>	Javelina bush
<i>Gutierrezia sarothrae</i>	Snakeweed



<i>Krameria erecta</i>	Range ratany
<i>Larrea tridentata</i>	Creosote
<i>Prosopis glandulosa</i>	Honey mesquite
<b>Grasses and Grass-like Plants</b>	
<i>Aristida</i> sp.	Perennial three-awn
<i>Bouteloua eriopoda</i>	Black grama
<i>Setaria reverchonii</i>	Rio Grande bristlegrass
<i>Sporobolus cryptandrus</i>	Sand dropseed
<i>Sporobolus flexuosus</i>	Mesa dropseed
<i>Schleropogon brevifolius</i>	Burrograss
<b>Forbs</b>	
<i>Alyssum desertorum</i>	Desert alyssum
<i>Cylindropuntia leptocaulis</i>	Pencil cactus (Tasajillo)
<i>Echinocactus texensis</i>	Horse crippler cactus
<i>Opuntia basilaris</i>	Beavertail cactus
<i>Sphaeralcea coccinea</i>	Scarlet globemallow

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

No noxious weed species listed by the New Mexico Department of Agriculture (NMDA, Gonzales 2009), were observed in the proposed project area, although large and extensive stands of Malta starthistle (*Centaurea melitensis*) were observed north of the project area along the J-1 –Orla highway.

## RECOMMENDATIONS

- Earth-moving equipment should be washed prior to being brought onto the site to help prevent the introduction of Malta starthistle and other noxious weeds to the project area.
- To limit any impacts to vegetation and to protect any threatened or endangered species that were not observed during the October 19, 2016 field survey, workers would be instructed not to park off existing roads or previously disturbed areas.
- The topsoil stockpile within the project area will be exposed during development and expansion of the well pad. The project area will be subject to erosion while soils remain bare. Surface disturbance will exceed one acre and the project will require a Storm Water Pollution Prevention Plan (SWPPP).

- Upon completion of the project, successful reclamation of the project area should include clean-up of all materials and equipment. Revegetation of the project area should include use of certified weed-free native seed mixes approved by the BLM Carlsbad Field Office that are compatible with wildlife habitat requirements and the project area's current land use of rangeland.

## CONCLUSIONS

The proposed Stampede 34 Federal COM 5H and 6H well project would have no effect on federal or state listed threatened or endangered plant species.

No critical habitat occurs within or near the proposed project and the proposed project would not modify existing or proposed critical habitat. Therefore, no USFWS consultation is necessary for this project.

### Report Preparer and Certification

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



Signature of Author:

Robyn W. Tierney

October 23, 2016

Permits West, Inc.  
37 Verano Loop  
Santa Fe, NM 87508  
(505) 466-8120

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## **Appendix D – Wildlife Survey Report**



**Conoco Phillips Company**

**Proposed Stampede 34 Federal COM 5H and 6H Wells, Access Road, Production and Gas Pipelines, and Power Line; Section 34, Township 26 South, Range 31 East, Eddy County, New Mexico**

**Threatened, Endangered, and Special Status Wildlife Species Report  
October 31, 2016**

**Introduction**

Conoco Phillips Company (Conoco Phillips) proposes to drill two horizontal wells (Stampede 34 Federal COM 5H and 6H) on a single well pad and construct the associated infrastructure including 257 feet of access road, 1667 feet of buried pipelines, and 198 feet of overhead, raptor-safe power line.

The proposed project is located on federal surface lands managed by the Bureau of Land Management, Carlsbad Field Office (BLM CFO), approximately 49.1 miles west-southwest of Jal in the NW/4, Section 34, Township 26 South, Range 31 East, Eddy County, New Mexico.

**Methods**

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

- U.S. Fish and Wildlife Service's *Information, Planning, and Conservation System (IPaC), Listed Species in Eddy County* (USDI USFWS 2016)
- New Mexico Department of Game and Fish's *Biota Information System of New Mexico Threatened, Endangered, and Sensitive Report and Table for Eddy County* (NMDGF, BISON-M 2016)

On October 20, 2016, Wildlife Biologist Charles Black conducted a pedestrian survey of the project area to inspect for the potential presence of threatened, endangered, or special status species. Weather during surveys was clear and breezy, with daytime highs around 90°F. The surveyed area consisted of the proposed well pad, access road, pipeline corridor, power line corridor, and a 50-foot buffer around the proposed construction. Habitat and existing conditions were evaluated. A half-mile radius around the project area was surveyed for raptor nests using 10 x 40 binoculars.

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

- U.S. Fish and Wildlife Service Listed and Sensitive Species in Eddy County (downloaded and reviewed October 22, 2016)
- New Mexico Department of Game and Fish BISON-M threatened, endangered, and sensitive taxa wildlife species in Eddy County (downloaded and reviewed October 22, 2016)

**Description of Existing Habitat**

The project scope consists of a well pad for two horizontal wells, a proposed access road, production and gas pipelines, and an overhead, raptor-safe, electric power line.

Topography at the site is basically flat, with some shallow sand dunes present. Vegetation is dominated by an alkali sacaton grassland (*Sporobolus airoides*) and mesquite (*Prosopis glandulosa*). The soils are sandy, and the site has approximately 20% bare ground. The site shows sign of moderate disturbance.

Wildlife occurring in the area is typical of degraded, brush-encroached grasslands and scrublands of the Chihuahuan Desert. This includes passerines such as Black-throated sparrows (*Amphispiza bileanata*), Cassin’s sparrows (*Aimophila cassini*), as well as jackrabbits (*Lepus spp.*), and whiptail lizards (*Cnemidophorus spp.*).

**Threatened, Endangered, and Special Status Wildlife Species**

**Federal Endangered, Threatened and Special Status Species**

The following table discusses Federal and State of New Mexico Endangered, Threatened species of Eddy County with potential to occur at or near the project area.

<b>Species</b>	<b>Status</b>	<b>Habitat</b>	<b>Potential to Occur in Project Area*</b>
Lesser Prairie-Chicken ( <i>Thympanuchus pallidicinctus</i> )	Formerly listed by the USFWS as Threatened. Removed from listing on July 20, 2016 by the U.S. Fish and Wildlife Service	This species is obligate to shinnery oak ( <i>Quercus harvardii</i> ) stands in sand dunes	NP - See discussion
Northern Aplomado Falcon	Federal –	Formerly resident in Chihuahuan	



<i>(Falco femoralis septentrionalis)</i>	Endangered/ Experimental Population	Desert grassland, now rare; an experimental reintroduction program is being conducted in Sierra County, NM	NP - See discussion
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**Presence\***

K - Known, documented observation within project area

S - Habitat suitable and species suspected to occur within the project area

NS - Habitat suitable but species is not suspected to occur within the project area

NP - Habitat not present and species unlikely to occur within the project area

**State of New Mexico, Threatened and Special Status Species**

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

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

**Presence\***

K - Known, documented observation within project area

S - Habitat suitable and species suspected to occur within the project area

NS - Habitat suitable but species is not suspected to occur within the project area

NP - Habitat not present and species unlikely to occur within the project area

**Discussion**

**Northern Aplomado Falcon**

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

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

### **Lesser Prairie Chicken**

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

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

### **Baird's Sparrow**

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

### **Dune Sagebrush Lizard**

This species generally requires deep sand dunes within the shinnery oak community. Based on wildlife surveys, the habitat present at the site is not suitable for lizards. Given the unsuitable habitat and the small size of the proposed disturbance, this species should not be adversely impacted by the proposed project.

### **Loggerhead Shrike**

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

### **Swift Fox**

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

### **Migratory Birds**

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

Nine bird species observed during the wildlife surveys are protected under the Migratory Bird Treaty Act.

### **Wildlife Species Observed on October 20, 2016 Survey**

#### **Avian Species observed:**

Black-throated sparrow (*Amphispiza bilineata*)  
Swainson's hawk (*Buteo swainsoni*)  
Scaled quail (*Callipepla squamata*)  
Cactus wren ((*Campylorhynchus brunneicapillus*)  
Chihuahuan raven (*Corvus cryptoleucus*)  
Brewer's sparrow (*Spizella brewerii*)  
Eastern meadowlark (*Sturnella magna*)

#### **Mammalian species observed:**

Coyote (*Canis latrans*)  
Kangaroo rat (*Dipodomys sp.*)  
Woodrat (*Neotoma spp.*)

Mammalian observations are generally from tracks, scat, and other sign.

### **Recommendations**

There are no recommendations regarding wildlife for this project.

### **References**

Federal Register. July 20, 2016. *Endangered and Threatened Wildlife and Plants; Lesser Prairie-Chicken Removed from the List of Endangered and Threatened Wildlife*. 81 FR 47047, Docket No. FWS-R2-ES-2016-0028

New Mexico Department of Game and Fish. Biota Information System of New Mexico (BISON-M). *Report County Threatened, Endangered, and Sensitive Table for Eddy County*. Web. 19 October 2016.

U.S. Department of the Interior, U.S. Fish and Wildlife Service. *Information, Planning, and Conservation System (IPaC), Listed and Sensitive Species*. 2016. <https://ecos.fws.gov/ipac/>. Web. 19 October 2016.