

16-538

NM OIL CONSERVATION
ARTESIA DISTRICT
OCD Artesia
MAY 05 2016

Form 3160-3
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HIGH CAVED KARST

FORM APPROVED
OMB No. 1004-0137
Expires January 31, 2018

5. Lease Serial No.
Other: NMNM019423; Other: Fee; SHLABHL:
NMNM090476

6. If Indian, Allottee or Tribe Name

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work	<input checked="" type="checkbox"/> DRILL	<input type="checkbox"/> REENTER	7. If Unit or CA Agreement, Name and No.
1b. Type of Well	<input checked="" type="checkbox"/> Oil Well	<input type="checkbox"/> Gas Well	<input type="checkbox"/> Other
1c. Type of Completion	<input checked="" type="checkbox"/> Hydraulic Fracturing	<input checked="" type="checkbox"/> Single Zone	<input type="checkbox"/> Multiple Zone

2. Name of Operator Cimarex Energy Co.	9. API Well No. 30 015 43744
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3a. Address 202 S. Cheyenne Ave., Ste 1000, Tulsa, OK 74103	3b. Phone No. (include area code) 918-585-1100	10. Field and Pool, or Exploratory 325 2625m Wildcat, Bone Spring
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4. Location of Well (Report location clearly and in accordance with any State requirements. *) At Surface 330 FNL & 860 FWL; Sec 23-25S-26E At proposed prod. Zone 330 FSI. & 660 FWL; Sec 26-25S-26E Bone Spring	11. Sec., T. R. M. or Blk. and Survey or Area 23, 25S, 26E
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14. Distance in miles and direction from nearest town or post office* Carlsbad, NM is 21.2 miles northerly	12. County or Parish Eddy	13. State NM
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15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line if any) 330	16. No of acres in lease NMNM090476=360.00 acres NMNM019423=2560.00 acres Fee=0.00 acres	17. Spacing Unit dedicated to this well 320.00
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18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1320 to the Pintail 23-26 Fed Com 10H	19. Proposed Depth Pilot Hole TD: N/A 16,927 MD 7,240 TVD	20. BLM/BIA Bond No. in file NMB 001187; NMB001188
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21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3312 GR	22. Approximate date work will start* 3/28/16	23. Estimated duration 30 days
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24. Attachments

- The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)
- | | |
|---|---|
| 1. Well plat certified by a registered surveyor | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan | 5. Operator Certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature <i>Aricka Easterling</i>	Name (Printed/Typed) Aricka Easterling	Date 2/5/16
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Title Regulatory Compliance		
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Approved By (Signature) <i>/s/ George MacDoneh</i>	Name (Printed/Typed)	Date APR 28 2016
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Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE
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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.

Accepted for record
NM/OCD

Carlsbad Controlled Water Basin

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Approval Subject to General Requirements
& Special Stipulations Attached

*(Instructions on page 2)

Operator Certification Statement

Pintail 23-26 Fed Com 11H

Cimarex Energy Co.

UL: D, Sec. 23, 25S, 26E

Eddy Co., NM

Operator's Representative

Cimarex Energy Co. of Colorado

600 N. Marienfeld St., Ste. 600

Midland, TX 79701

Office Phone: (432) 571-7800

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

I am responsible under the terms and conditions of the lease to conduct lease operations in conjunction with the application. Bond coverage pursuant to 43, 25 or 36 CFR for lease activities is being provided by Cimarex Energy Co. under their (Lease, Statewide, Nationwide, Unit or Permit) Bond, BLM/BIA/FS Bond No. NMB 001187; NMB001188.

Executed this 5 day of February, 2016

NAME:

Aricka Easterling
Aricka Easterling

TITLE: Regulatory Compliance

ADDRESS: 202 S. Cheyenne Ave., Ste 1000, Tulsa, OK 74103

TELEPHONE: 918-585-1100

EMAIL: AEasterling@cimarex.com

Field Representative: Same as above

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

¹ API Number 30-015 - 43744	² Pool Code 97916	³ Pool Name Wildcat; Bone Spring
⁴ Property Code 316188	⁵ Property Name PINTAIL 23-26 FEDERAL COM	
⁷ OGRID No. 215099	⁸ Operator Name CIMAREX ENERGY CO.	⁶ Well Number 11H
		⁹ Elevation 3312.9'

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
D	23	25 S	26 E		330	NORTH	860	WEST	EDDY

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
M	26	25 S	26 E		330	SOUTH	660	WEST	EDDY

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

¹⁶ NOTE:
Distances referenced on plat to section lines and are perpendicular.

NAD 83 (SURFACE HOLE LOCATION)	
LATITUDE = 32°07'17.98" (32.121661)	LONGITUDE = 104°16'09.23" (104.269231)
NAD 27 (SURFACE HOLE LOCATION)	
LATITUDE = 32°07'17.55" (32.121542)	LONGITUDE = 104°16'07.44" (104.268733)
STATE PLANE NAD 83 (N.M. EAST)	
N: 408002.70 E: 561181.92	
STATE PLANE NAD 27 (N.M. EAST)	
N: 407945.58 E: 519999.00	

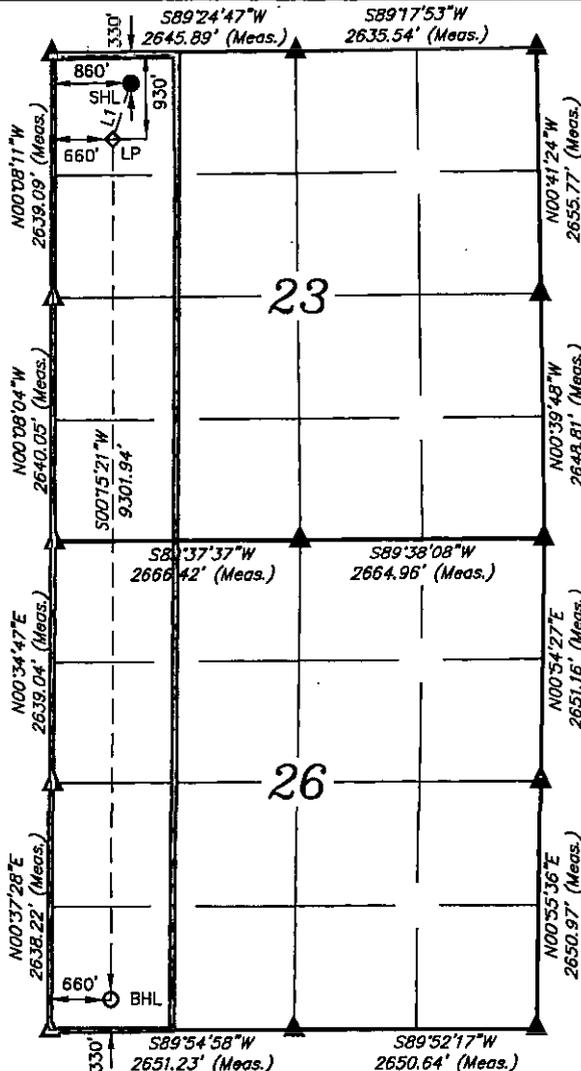
NAD 83 (BOTTOM HOLE LOCATION)	
LATITUDE = 32°05'39.99" (32.094442)	LONGITUDE = 104°16'11.99" (104.269997)
NAD 27 (BOTTOM HOLE LOCATION)	
LATITUDE = 32°05'39.56" (32.094322)	LONGITUDE = 104°16'10.20" (104.269500)
STATE PLANE NAD 83 (N.M. EAST)	
N: 398100.87 E: 560950.91	
STATE PLANE NAD 27 (N.M. EAST)	
N: 398043.94 E: 519767.84	

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S18°15'08"W	633.97'



SCALE
DRAWN BY: T.E. 01-25-16

▲ = SECTION CORNERS LOCATED.



¹⁷ OPERATOR CERTIFICATION

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

Aricka Easterling 2/2/16
Signature Date

Aricka Easterling

aeasterling@cimarex.com

E-mail Address

¹⁸ SURVEYOR CERTIFICATION

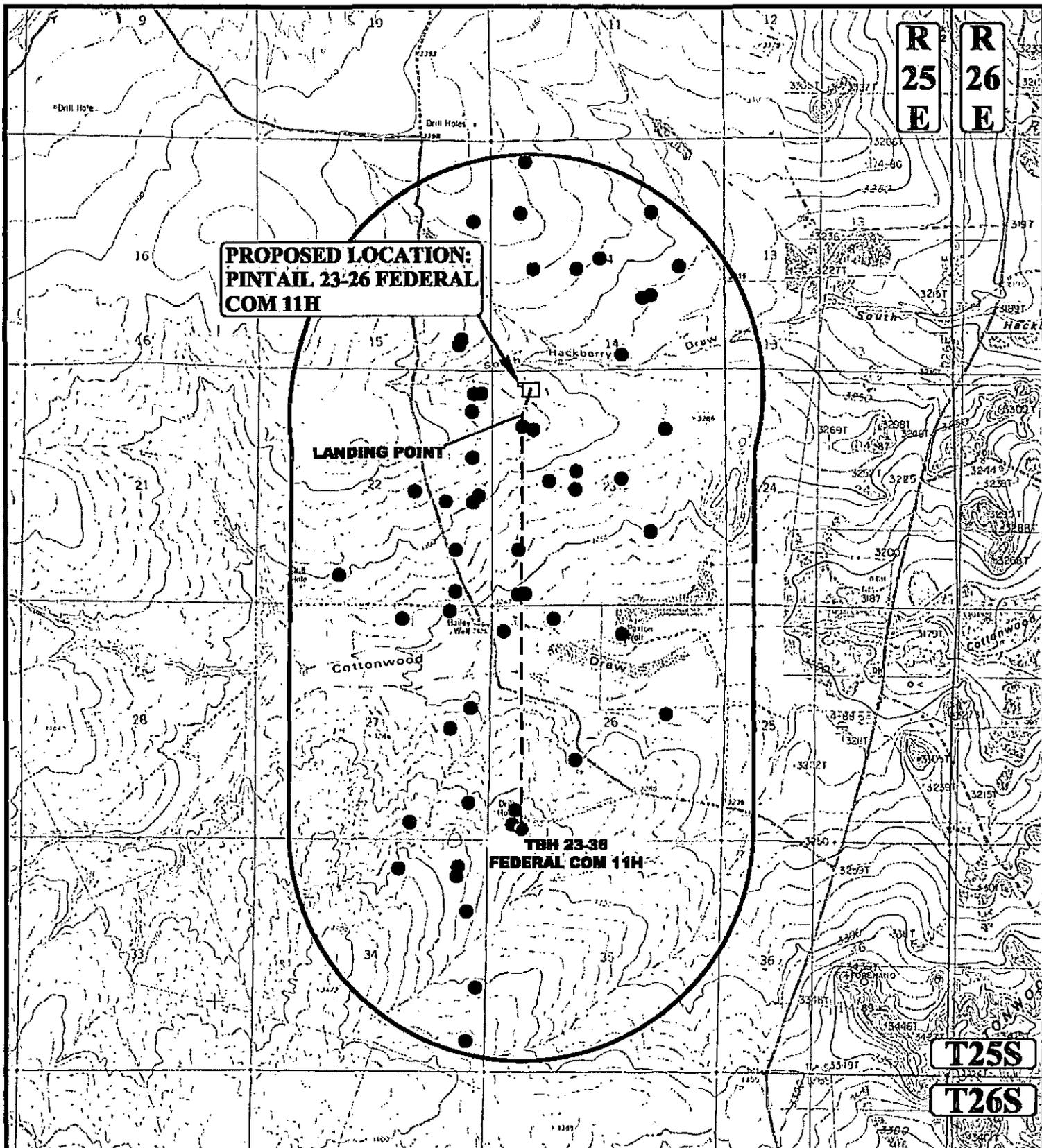
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

January 20, 2016

Date of Survey
Signature and Seal of Professional Surveyor:



Certificate Number:



LEGEND:

● EXISTING WELLS

CIMAREX ENERGY CO.

PINTAIL 23-26 FEDERAL COM 11H
 330' FNL 860' FWL
 NW 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

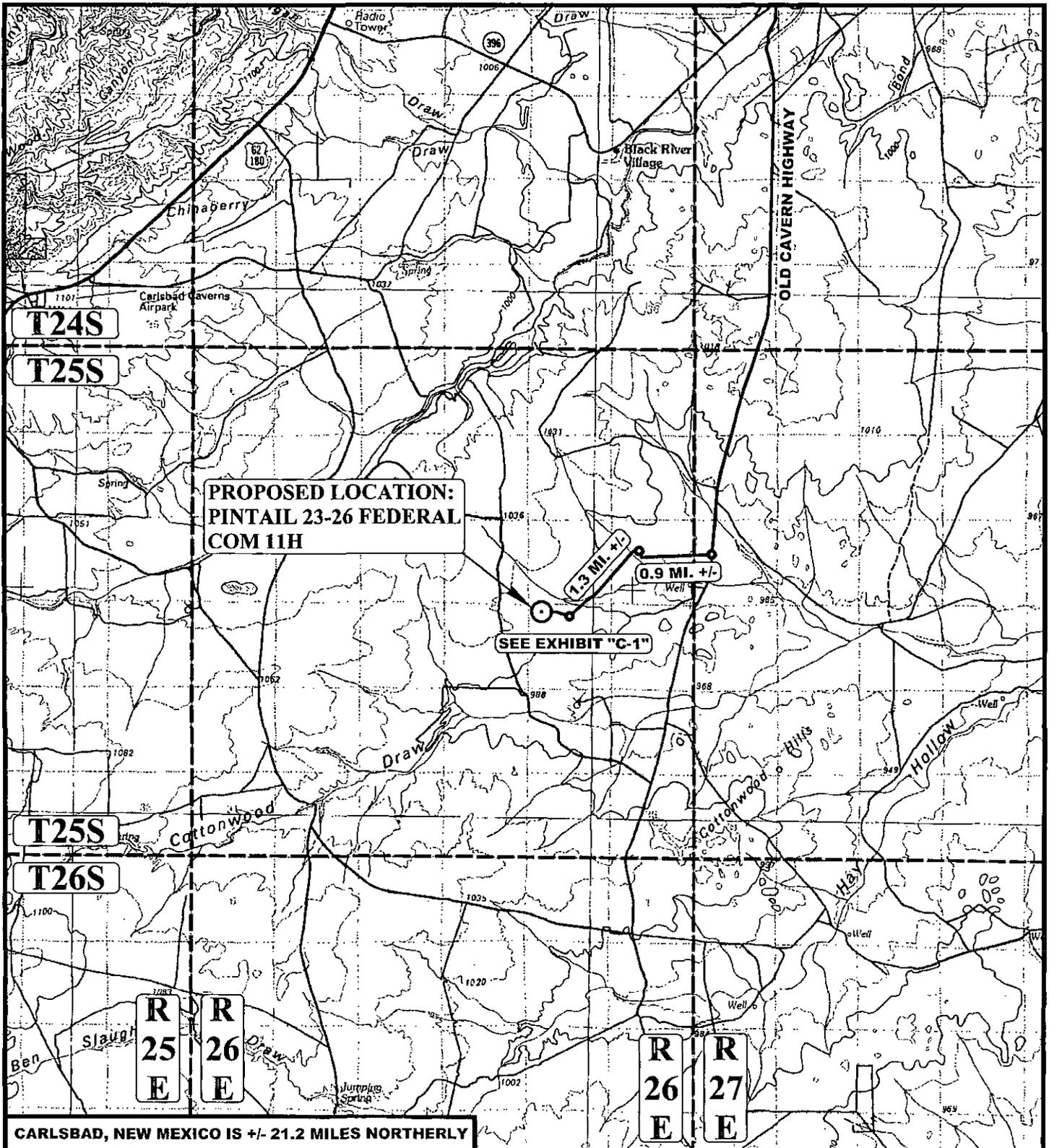


SURVEYED BY	DATE	REVISED BY	DATE
C.J., A.H.	01-20-16		
DRAWN BY	DATE		
Z.H.F.	01-26-16		
SCALE	1" = 3000'		

ONE MILE RADIUS PLAT **EXHIBIT A**



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



CARLSBAD, NEW MEXICO IS +/- 21.2 MILES NORTHERLY

LEGEND:

⊙ PROPOSED LOCATION

CIMAREX ENERGY CO.

PINTAIL 23-26 FEDERAL COM 11H

330' FNL 860' FWL

NW 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

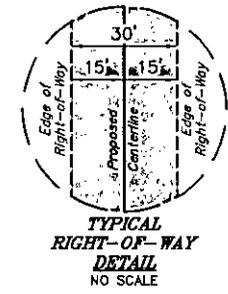
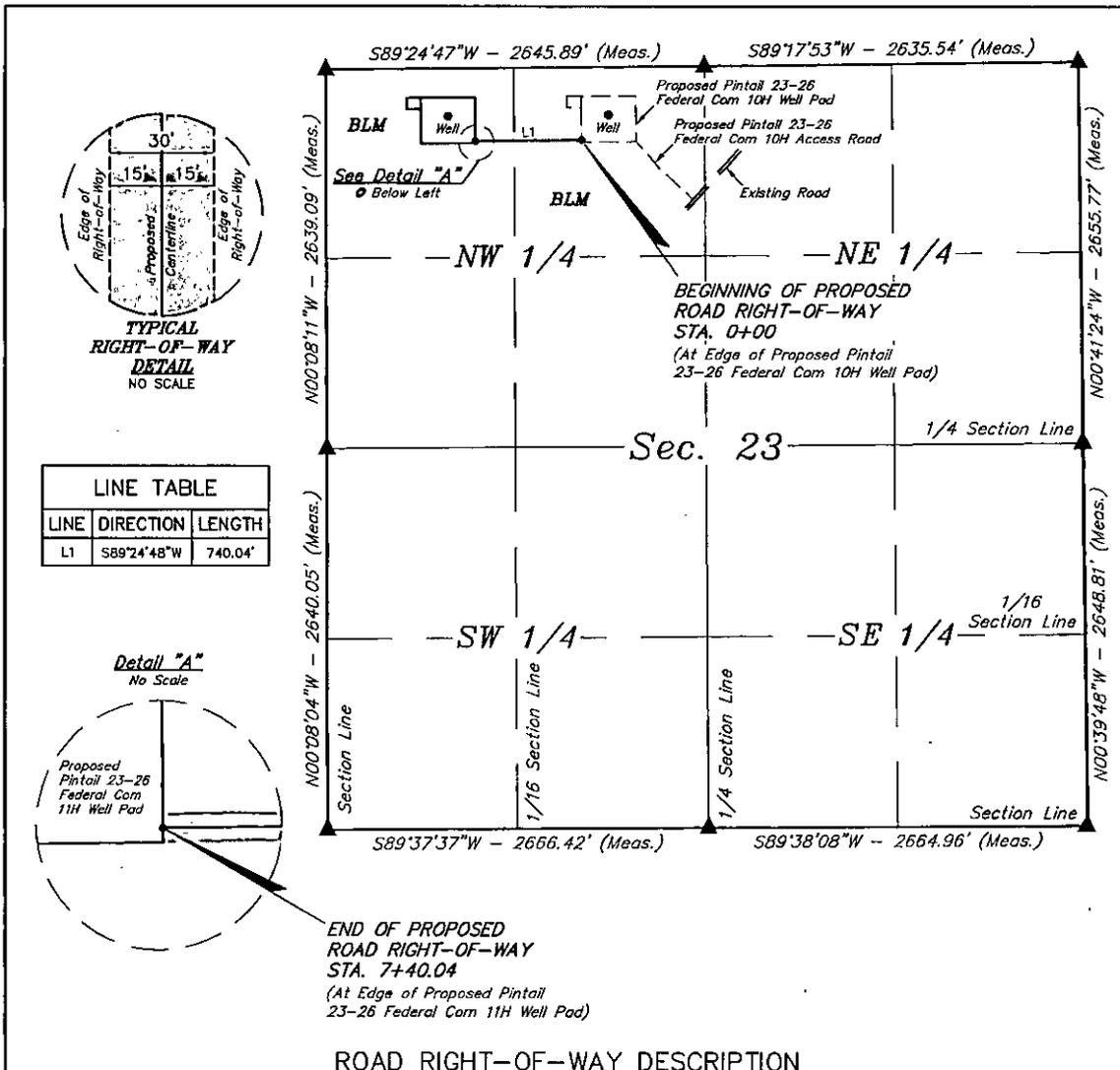
SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16		
DRAWN BY	DATE		
Z.H.F.	01-26-16		
SCALE	1 : 100,000		

PUBLIC ACCESS ROAD MAP EXHIBIT B

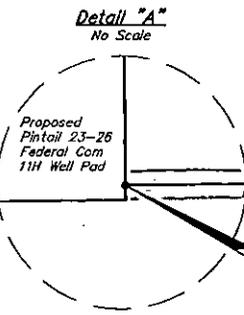


UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017





LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°24'48\"W	740.04'



END OF PROPOSED ROAD RIGHT-OF-WAY STA. 7+40.04
(At Edge of Proposed Pintail 23-26 Federal Com 11H 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 23, T25S, R26E, N.M.P.M., WHICH BEARS S58°56'42\"W 995.94' FROM THE NORTH 1/4 CORNER OF SAID SECTION 23, THENCE S89°24'48\"W 740.04' TO A POINT IN THE NW 1/4 NW 1/4 OF SAID SECTION 23, WHICH BEARS S64°50'48\"E 1162.81' FROM THE NORTHWEST CORNER OF SAID SECTION 23. 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 0.510 ACRES MORE OR LESS.

BEGINNING OF ROAD STA. 0+00 BEARS S58°56'42\"W 995.94' FROM THE NORTH 1/4 CORNER OF SECTION 23, T25S, R26E, N.M.P.M.

END OF ROAD STA. 7+40.04 BEARS S64°50'48\"E 1162.81' FROM THE NORTHWEST CORNER OF SECTION 23, T25S, R26E, N.M.P.M.



ACREAGE / LENGTH TABLE				
	OWNERSHIP	FEET	RODS	ACRES
ACCESS ROAD	BLM	740.04	44.85	0.510

▲ = SECTION CORNERS LOCATED.

CERTIFICATE OF PROFESSIONAL SURVEYOR
THIS IS TO CERTIFY THAT THE ABOVE PLAT 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.

Robert J. Marshall
REGISTERED LAND SURVEYOR
REGISTRATION NO. 12446
STATE OF NEW MEXICO
01-26-16

Sheet 1 of 2

NOTES:
• The maximum grade of existing ground for the proposed access road is ±1.6%.
• Basis of bearing is a G.P.S. observation (Vertical Control Datum: NAVD88)

CIMAREX ENERGY CO.

PINTAIL 23-26 FEDERAL COM 11H
NW 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16		
DRAWN BY	DATE		
T.E.	01-25-16		
SCALE	1" = 1000'		



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

ACCESS ROAD R-O-W EXHIBIT C-2

NUMBER	STATION	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
BEGIN	0+00.00	N 32°07'16.35"	W 104°15'58.40"
END	7+40.04	N 32°07'16.27"	W 104°16'07.00"

SECTION CORNER	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
SW COR. SEC. 23-T25S-R26E	N 32°06'28.93"	W 104°16'19.08"
W 1/4 COR. SEC. 23-T25S-R26E	N 32°06'55.05"	W 104°16'19.16"
NW COR. SEC. 23-T25S-R26E	N 32°07'21.16"	W 104°16'19.24"
N 1/4 COR. SEC. 23-T25S-R26E	N 32°07'21.44"	W 104°15'48.48"
NE COR. SEC. 23-T25S-R26E	N 32°07'21.76"	W 104°15'17.84"
E 1/4 COR. SEC. 23-T25S-R26E	N 32°06'55.49"	W 104°15'17.47"
SE COR. SEC. 23-T25S-R26E	N 32°06'29.28"	W 104°15'17.10"
S 1/4 COR. SEC. 23-T25S-R26E	N 32°06'29.11"	W 104°15'48.08"

CERTIFICATE OF PROFESSIONAL SURVEYOR
 THIS IS TO CERTIFY THAT THE ABOVE PLANS AND AGREEMENTS WERE 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.

Robert Marshall
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 12446
 STATE OF NEW MEXICO
 01-26-16

Sheet 2 of 2

CIMAREX ENERGY CO.

**PINTAIL 23-26 FEDERAL COM 11H
 NW 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO**

SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16		
DRAWN BY	DATE		
T.E.	01-25-16		
SCALE	NONE		

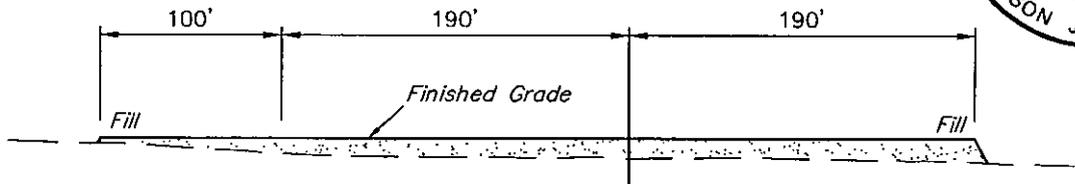
ACCESS ROAD R-O-W EXHIBIT C-2



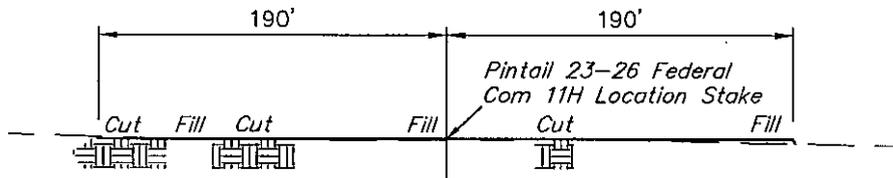
UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017



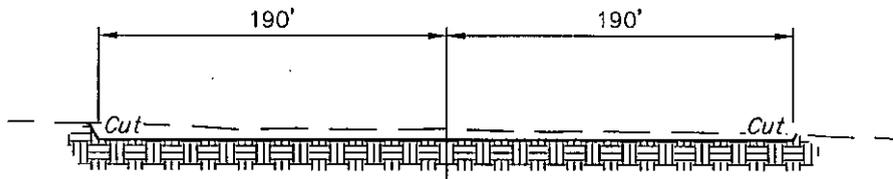
1" = 40'
 X-Section
 Scale
 1" = 100'



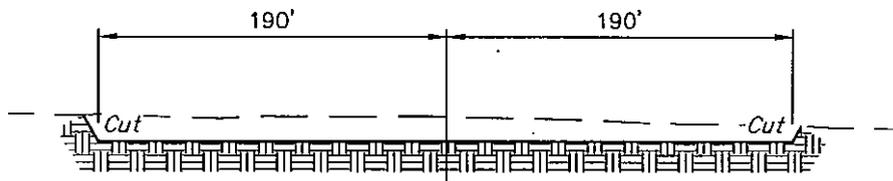
STA. 3+20



STA. 1+90



STA. 1+00



STA. 0+00

APPROXIMATE EARTHWORK QUANTITIES	
(4") TOPSOIL STRIPPING	1,700 Cu. Yds.
REMAINING LOCATION	5,590 Cu. Yds.
TOTAL CUT	7,290 Cu. Yds.
FILL	5,590 Cu. Yds.
EXCESS MATERIAL	1,700 Cu. Yds.
TOPSOIL	1,700 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	0 Cu. Yds.

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	ACRES
WELL SITE DISTURBANCE	NA	±3.335
30' WIDE ACCESS ROAD R-O-W DISTURBANCE	±740.04'	±0.510
30' WIDE GAS LIFT PIPELINE R-O-W DISTURBANCE	±1,483.79'	±1.022
30' WIDE POWER LINE R-O-W DISTURBANCE	±1,855.36'	±1.278
TOTAL SURFACE USE AREA		±6.145

NOTES:

- Fill quantity includes 5% for compaction.
- Cut/Fill slopes 1 1/2:1 (Typ.)

CIMAREX ENERGY CO.

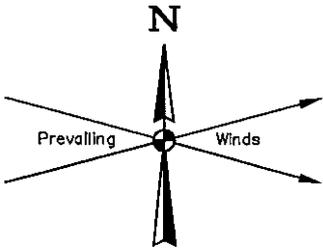
PINTAIL 23-26 FEDERAL COM 11H
 330' FNL 860' FWL
 NW 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

SURVEYED BY	DATE	REVISED BY	DATE
C.J., A.H.	01-20-16		
DRAWN BY	DATE		
T.E.	01-25-16		
SCALE	AS SHOWN		

TYPICAL CROSS SECTIONS EXHIBIT D



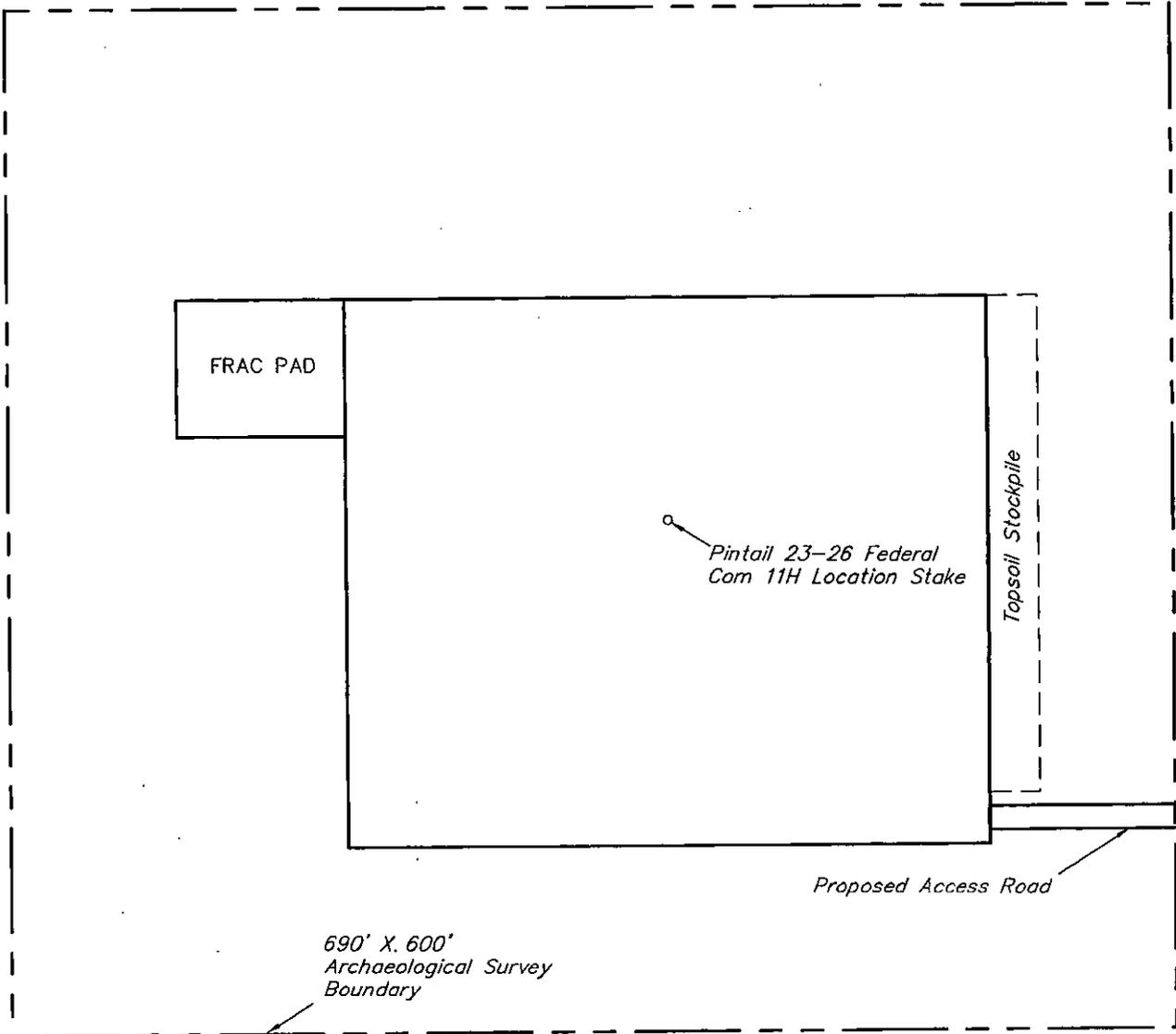
UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017



Section Line

Section 14

Section 23



NOTES:

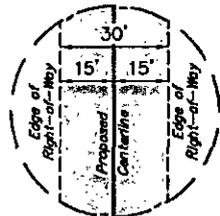
CIMAREX ENERGY CO.
PINTAIL 23-26 FEDERAL COM 11H
 330' FNL 860' FWL
 NW 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16		
DRAWN BY	DATE		
T.E.	01-25-16		
SCALE	1" = 100'		

ARCHAEOLOGICAL SURVEY BOUNDARY **EXHIBIT D**

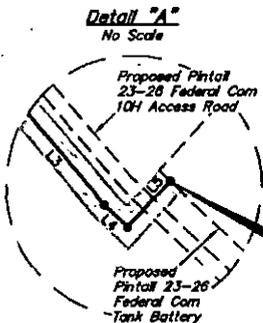


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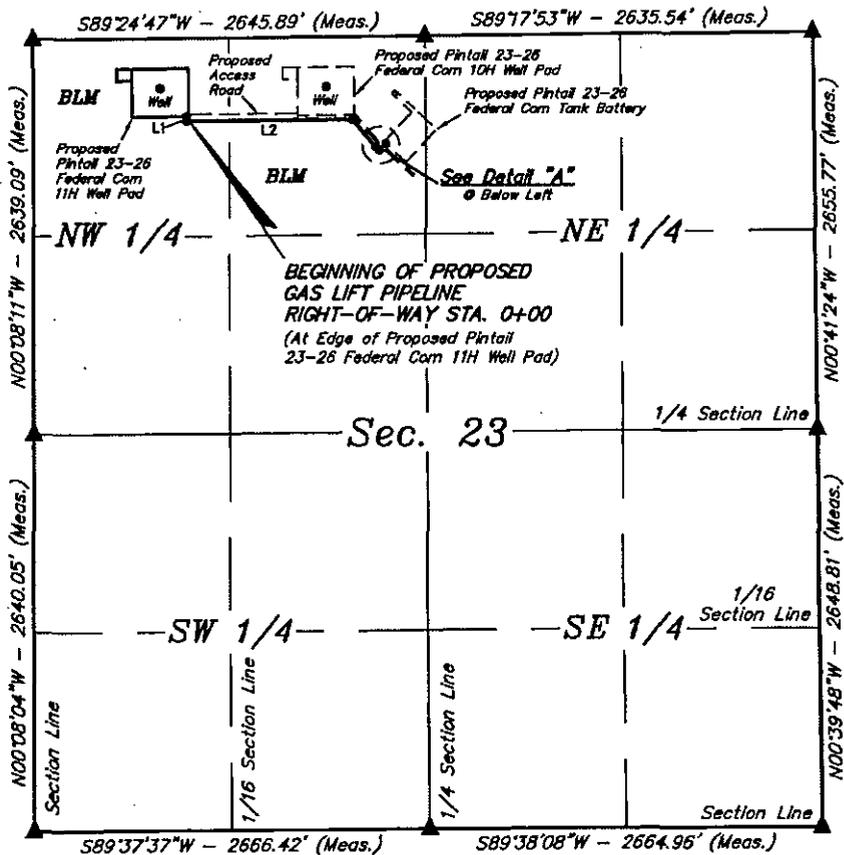


TYPICAL
RIGHT-OF-WAY
DETAIL
NO SCALE

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°37'01"E	30.00'
L2	N89°24'55"E	1121.23'
L3	S41°08'57"E	240.91'
L4	S47°04'06"E	31.64'
L5	N42°55'44"E	60.01'



Detail "A"
No Scale



END OF PROPOSED GAS LIFT
PIPELINE RIGHT-OF-WAY
STA. 14+83.79
(At Proposed Pintail 23-26
Federal Com Tank Battery)

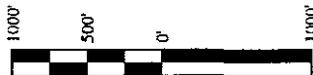
GAS LIFT PIPELINE RIGHT-OF-WAY DESCRIPTION

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

BEGINNING AT A POINT IN THE NW 1/4 NW 1/4 OF SECTION 23, T25S, R26E, N.M.P.M., WHICH BEARS S63°51'16"E 1155.99' FROM THE NORTHWEST CORNER OF SAID SECTION 23, THENCE S00°37'01"E 30.00'; THENCE N89°24'55"E 1121.23'; THENCE S41°08'57"E 240.91'; THENCE S47°04'06"E 31.64'; THENCE N42°55'44"E 60.01' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 23, WHICH BEARS S20°17'21"W 761.30' FROM THE NORTH 1/4 CORNER OF SAID SECTION 18. 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 1.022 ACRES MORE OR LESS.

BEGINNING OF GAS LIFT PIPELINE STA. 0+00 BEARS S63°51'16"E 1155.99' FROM THE NORTHWEST CORNER OF SECTION 23, T25S, R26E, N.M.P.M.

END OF GAS LIFT PIPELINE STA. 14+83.79 BEARS S20°17'21"W 761.30' FROM THE NORTH 1/4 CORNER OF SECTION 23, T25S, R26E, N.M.P.M.



ACREAGE / LENGTH TABLE			
	OWNERSHIP	FEET	RODS ACRES
GAS LIFT PIPELINE	BLM	1483.79	89.93 1.022

▲ = SECTION CORNERS LOCATED.

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.
 [Signature]
 REGISTERED PROFESSIONAL SURVEYOR
 REGISTRATION NO. 12446
 STATE OF NEW MEXICO
 01-26-16

Sheet 1 of 2

NOTES:
 * Basis of bearing is a G.P.S. observation (Vertical Control Datum: NAVD88)

CIMAREX ENERGY CO.

N
 PINTAIL 23-26 FEDERAL COM 11H
 NW 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16		
DRAWN BY	DATE		
T.E.	01-25-16		
SCALE	1" = 1000'		

GAS LIFT & FLOWLINE R-O-W EXHIBIT G



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

NUMBER	STATION	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
BEGIN	0+00.00	N 32°07'16.12"	W 104°16'07.18"
1	0+30.00	N 32°07'15.83"	W 104°16'07.17"
2	11+51.22	N 32°07'15.94"	W 104°15'54.14"
3	13+92.14	N 32°07'14.15"	W 104°15'52.29"
4	14+23.78	N 32°07'13.93"	W 104°15'52.03"
END	14+83.79	N 32°07'14.37"	W 104°15'51.55"

SECTION CORNER	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
SW COR. SEC. 23-T25S-R26E	N 32°06'28.93"	W 104°16'19.08"
W 1/4 COR. SEC. 23-T25S-R26E	N 32°06'55.05"	W 104°16'19.16"
NW COR. SEC. 23-T25S-R26E	N 32°07'21.16"	W 104°16'19.24"
N 1/4 COR. SEC. 23-T25S-R26E	N 32°07'21.44"	W 104°15'48.48"
NE COR. SEC. 23-T25S-R26E	N 32°07'21.76"	W 104°15'17.84"
E 1/4 COR. SEC. 23-T25S-R26E	N 32°06'55.49"	W 104°15'17.47"
SE COR. SEC. 23-T25S-R26E	N 32°06'29.28"	W 104°15'17.10"
S 1/4 COR. SEC. 23-T25S-R26E	N 32°06'29.11"	W 104°15'48.08"

CERTIFICATE OF PROFESSIONAL SURVEYOR
 THIS IS TO CERTIFY THAT THE ABOVE DISPLAY WAS PREPARED FROM THE 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 J. Marshall
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 12446
 STATE OF NEW MEXICO
 01-26-16

Sheet 2 of 2

CIMAREX ENERGY CO.

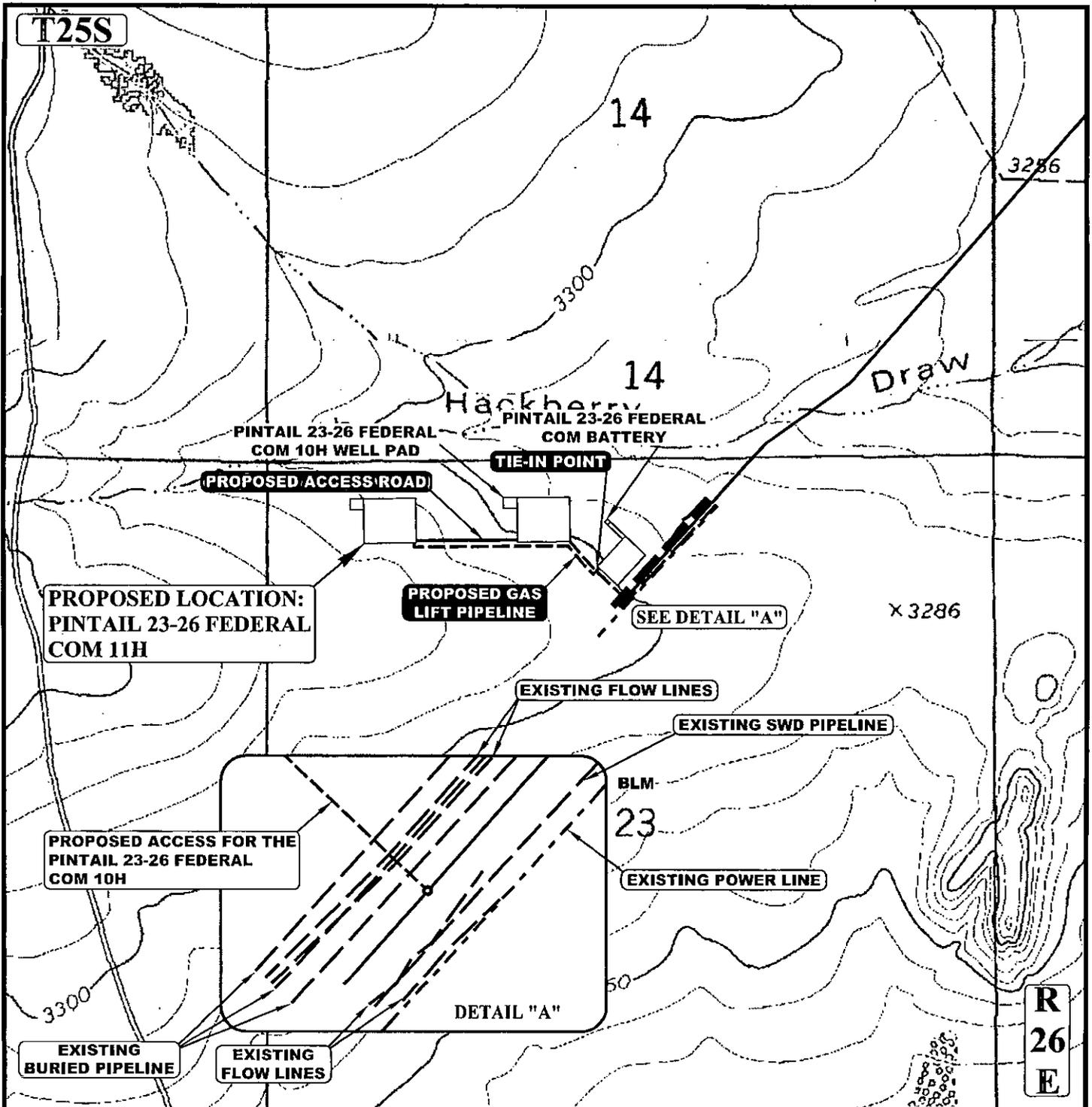
N PINTAIL 23-26 FEDERAL COM 11H
 NW 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16		
DRAWN BY	DATE		
T.E.	01-25-16		
SCALE	NONE		

GAS LIFT & FLOWLINE R-O-W EXHIBIT G



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



APPROXIMATE TOTAL GAS LIFT PIPELINE DISTANCE = 1,484' +/-

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)
- - - - - PROPOSED GAS LIFT PIPELINE
- - - - - EXISTING POWER LINE
- - - - - EXISTING PIPELINE / FLOW LINE

CIMAREX ENERGY CO.

PINTAIL 23-26 FEDERAL COM 11H
 330' FNL 860' FWL
 NW 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

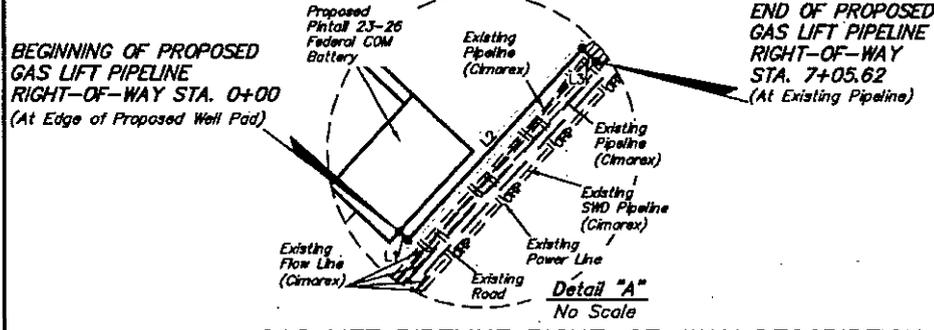
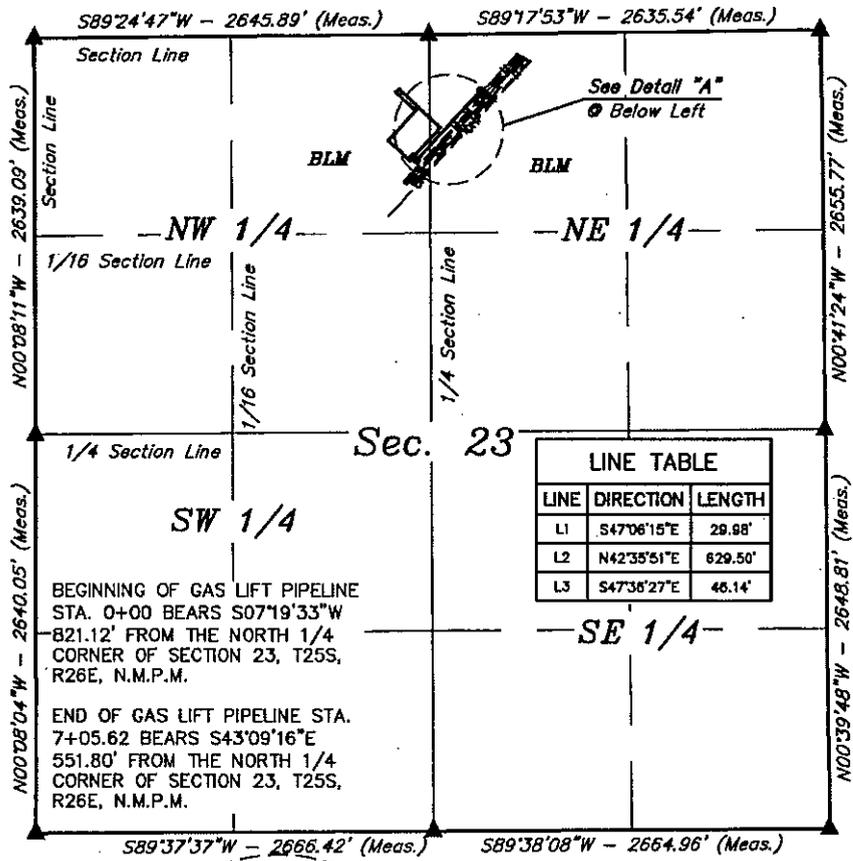
SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16		
DRAWN BY	DATE		
Z.H.F.	01-26-16		
SCALE	1" = 1000'		



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



GAS LIFT PIPELINE MAP EXHIBIT G



GAS LIFT PIPELINE 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 23, T25S, R26E, N.M.P.M., WHICH BEARS S07°19'33"W 821.12' FROM THE NORTH 1/4 CORNER OF SAID SECTION 23, THENCE S47°06'15"E 29.98'; THENCE N42°35'51"E 629.50'; THENCE S47°36'27"E 46.14' TO A POINT IN THE NW 1/4 NE 1/4 OF SAID SECTION 23, WHICH BEARS S43°09'16"E 551.80' FROM THE NORTH 1/4 CORNER OF SAID SECTION 23. 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.



ACREAGE / LENGTH TABLE				
	OWNERSHIP	FEET	RODS	ACRES
(23 SEC. NE NW 1/4)	BLM	159.06	9.64	0.110
(23 SEC. NW NE 1/4)	BLM	546.56	33.12	0.376
TOTAL		705.62	42.76	0.486

▲ = SECTION CORNERS LOCATED.

CERTIFICATE OF PROFESSIONAL SURVEYOR
 THIS IS TO CERTIFY THAT THE ABOVE PLATS AS DEMONSTRATED BY THE 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.
 REGISTERED PROFESSIONAL SURVEYOR
 REGISTRATION NO. 12446
 STATE OF NEW MEXICO
 01-27-16

Sheet 1 of 2

CIMAREX ENERGY CO.

PINTAIL 23-26 FEDERAL COM BATTERY
 N 1/2 N 1/2, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16		
DRAWN BY	DATE		
C.D.	01-26-16		
SCALE	1" = 1000'		

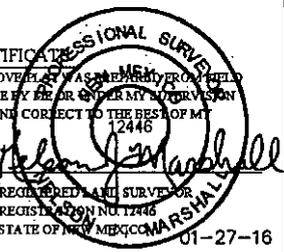
BUY BACK LINE R-O-W EXHIBIT G-1



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

SECTION CORNER	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
SW COR. SEC. 23, T25S, R26E	N 32°06'28.93"	W 104°16'19.08"
W 1/4 COR. SEC. 23, T25S, R26E	N 32°06'55.05"	W 104°16'19.16"
NW COR. SEC. 23, T25S, R26E	N 32°07'21.16"	W 104°16'19.24"
N 1/4 COR. SEC. 23, T25S, R26E	N 32°07'21.44"	W 104°15'48.48"
NE COR. SEC. 23, T25S, R26E	N 32°07'21.76"	W 104°15'17.84"
E 1/4 COR. SEC. 23, T25S, R26E	N 32°06'55.49"	W 104°15'17.47"
SE COR. SEC. 23, T25S, R26E	N 32°06'29.28"	W 104°15'17.10"
S 1/4 COR. SEC. 23, T25S, R26E	N 32°06'29.11"	W 104°15'48.08"

NUMBER	STATION	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
BEGIN	0+00.00	N 32°07'13.38"	W 104°15'49.70"
1	0+29.98	N 32°07'13.18"	W 104°15'49.44"
2	6+59.48	N 32°07'17.76"	W 104°15'44.49"
END	7+05.62	N 32°07'17.45"	W 104°15'44.09"



 CERTIFICATE OF PROFESSIONAL SURVEYOR
 THIS IS TO CERTIFY THAT THE ABOVE PLAT 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.
 Nelson J. Marshall
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 12446
 STATE OF NEW MEXICO
 01-27-16

Sheet 2 of 2

NOTES:
 * Basis of bearing is a G.P.S. observation (Vertical Control Datum: NAVD88)

CIMAREX ENERGY CO.

PINTAIL 23-26 FEDERAL COM BATTERY
N 1/2 N 1/2, SECTION 23, T25S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

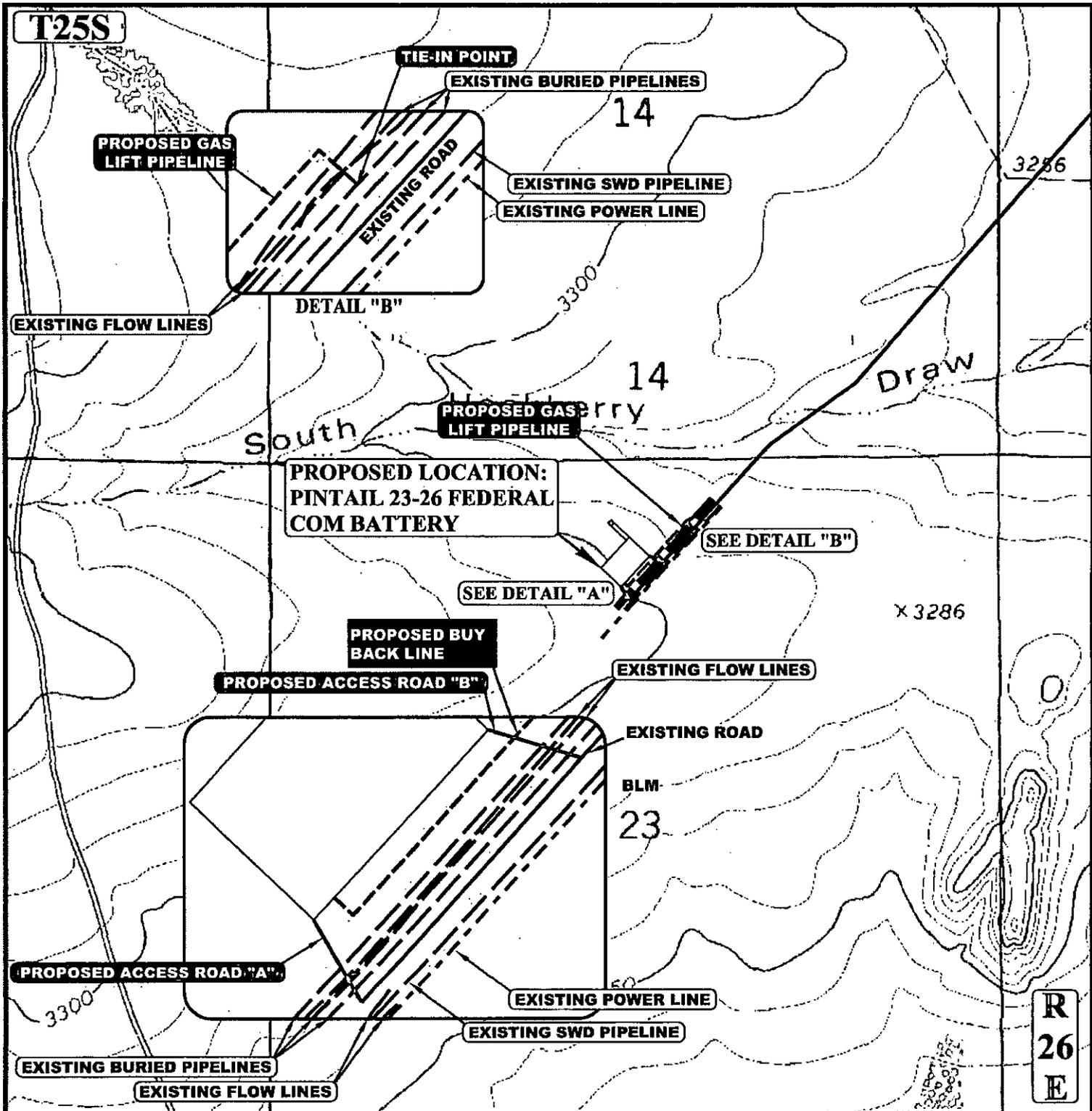


SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16		
DRAWN BY	DATE		
C.D.	01-26-16		
SCALE	N/A		

BUYBACK LINE/ROW
EXHIBIT C-1



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



APPROXIMATE TOTAL BUY BACK PIPELINE DISTANCE = 706' +/-

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 UTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- EXISTING ROAD
- PROPOSED ROAD
- PROPOSED BUY BACK PIPELINE
- EXISTING POWER LINE
- EXISTING PIPELINE / FLOW LINE

CIMAREX ENERGY CO.

PINTAIL 23-26 FEDERAL COM BATTERY
 N 1/2 N 1/2, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

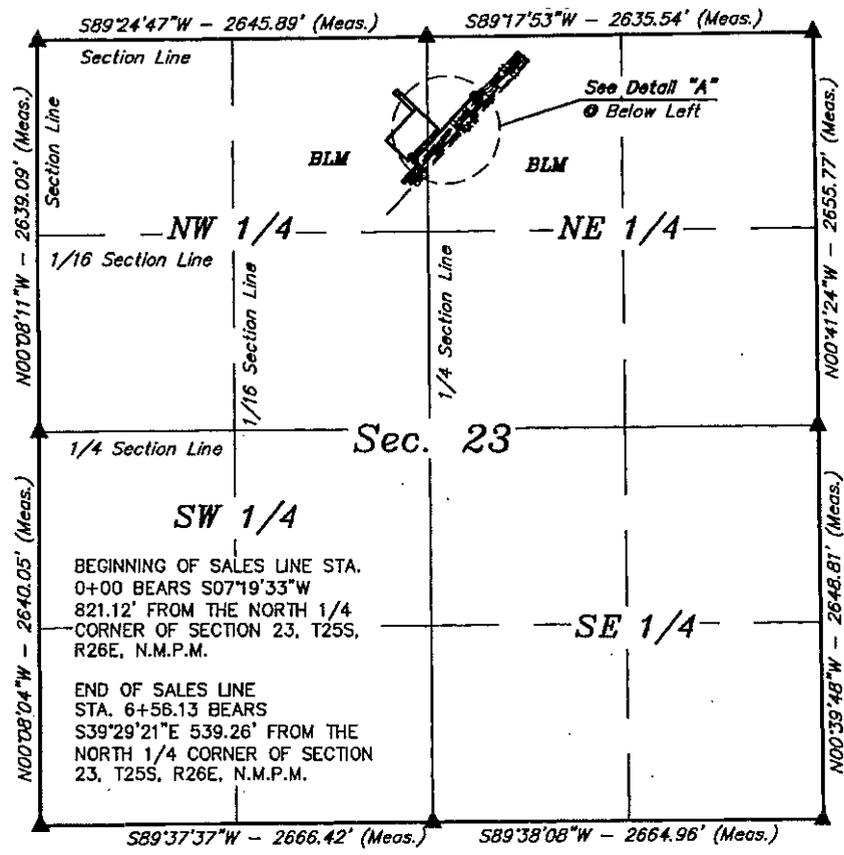


SURVEYED BY	DATE	REVISED BY	DATE
C.J., A.H.	01-20-16		
DRAWN BY	DATE		
Z.H.F.	01-25-16		
SCALE	1" = 1000'		

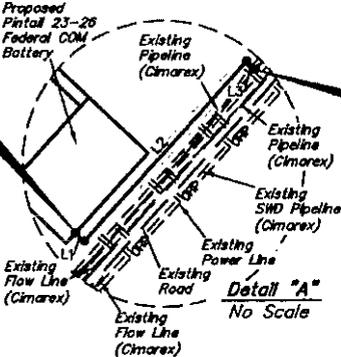


UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017

BUY BACK LINE R-O-W **EXHIBIT G-1**

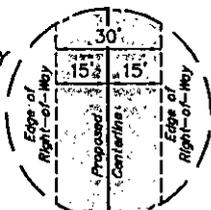


BEGINNING OF PROPOSED SALES LINE RIGHT-OF-WAY STA. 0+00 (At Edge of Proposed Well Pad)



END OF PROPOSED SALES LINE RIGHT-OF-WAY STA. 6+56.13 (At Existing Pipeline)

LINE	DIRECTION	LENGTH
L1	S47°06'15"E	29.98'
L2	N42°35'51"E	596.16'
L3	S47°39'47"E	29.98'



TYPICAL RIGHT-OF-WAY DETAIL NO SCALE

SALES 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 THE NE 1/4 NW 1/4 OF SECTION 23, T25S, R26E, N.M.P.M., WHICH BEARS S07°19'33"W 821.12' FROM THE NORTH 1/4 CORNER OF SAID SECTION 23, THENCE S47°06'15"E 29.98'; THENCE N42°35'51"E 596.16'; THENCE S47°39'47"E 29.98' TO A POINT IN THE NW 1/4 NE 1/4 OF SAID SECTION 23, WHICH BEARS S39°29'21"E 539.26' FROM THE NORTH 1/4 CORNER OF SAID SECTION 23. 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 0.442 ACRES MORE OR LESS.



ACREAGE / LENGTH TABLE				
	OWNERSHIP	FEET	RODS	ACRES
(SEC. 23 NW 1/4)	BLM	159.06	9.64	0.110
(SEC. 23 NE 1/4)	BLM	497.07	30.13	0.342
TOTAL		656.13	39.77	0.452

▲ = SECTION CORNERS LOCATED.

CERTIFICATE OF PROFESSIONAL SURVEYOR
 THIS IS TO CERTIFY THAT THE ABOVE IS A TRUE AND CORRECT COPY OF THE ORIGINAL 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.
 Registered Professional Surveyor
 Registration No. 12446
 STATE OF NEW MEXICO
 01-27-16

NOTES:
 * Basis of bearing is a G.P.S. observation (Vertical Control Datum: NAVD88)

Sheet 1 of 2
CIMAREX ENERGY CO.

PINTAIL 23-26 FEDERAL COM BATTERY
 N 1/2 N 1/2, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

SURVEYED BY	DATE	REVISED BY	DATE
C.J. AH	01-20-16		
DRAWN BY	DATE		
C.D.	01-26-16		
SCALE	1" = 1000'		

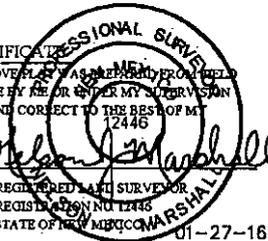


UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017

SALES LINE R-O-W **EXHIBIT G-1**

SECTION CORNER	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
SW COR. SEC. 23, T25S, R26E	N 32°06'28.93"	W 104°16'19.08"
W 1/4 COR. SEC. 23, T25S, R26E	N 32°06'55.05"	W 104°16'19.16"
NW COR. SEC. 23, T25S, R26E	N 32°07'21.16"	W 104°16'19.24"
N 1/4 COR. SEC. 23, T25S, R26E	N 32°07'21.44"	W 104°15'48.48"
NE COR. SEC. 23, T25S, R26E	N 32°07'21.76"	W 104°15'17.84"
E 1/4 COR. SEC. 23, T25S, R26E	N 32°06'55.49"	W 104°15'17.47"
SE COR. SEC. 23, T25S, R26E	N 32°06'29.28"	W 104°15'17.10"
S 1/4 COR. SEC. 23, T25S, R26E	N 32°06'29.11"	W 104°15'48.08"

NUMBER	STATION	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
BEGIN	0+00.00	N 32°07'13.38"	W 104°15'49.70"
1	0+29.98	N 32°07'13.18"	W 104°15'49.44"
2	6+26.15	N 32°07'17.52"	W 104°15'44.75"
END	6+56.13	N 32°07'17.32"	W 104°15'44.50"



 CERTIFICATE OF PROFESSIONAL SURVEYOR
 THIS IS TO CERTIFY THAT THE ABOVE PLATS AS SHOWN ON THESE 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 MARSHALL
 01-27-16

Sheet 2 of 2

NOTES:
 • Basis of bearing is a G.P.S. observation (Vertical Control Datum NAVD88)

CIMAREX ENERGY CO.
 PINTAIL 23-26 FEDERAL COM BATTERY
 N 1/2 N 1/2, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

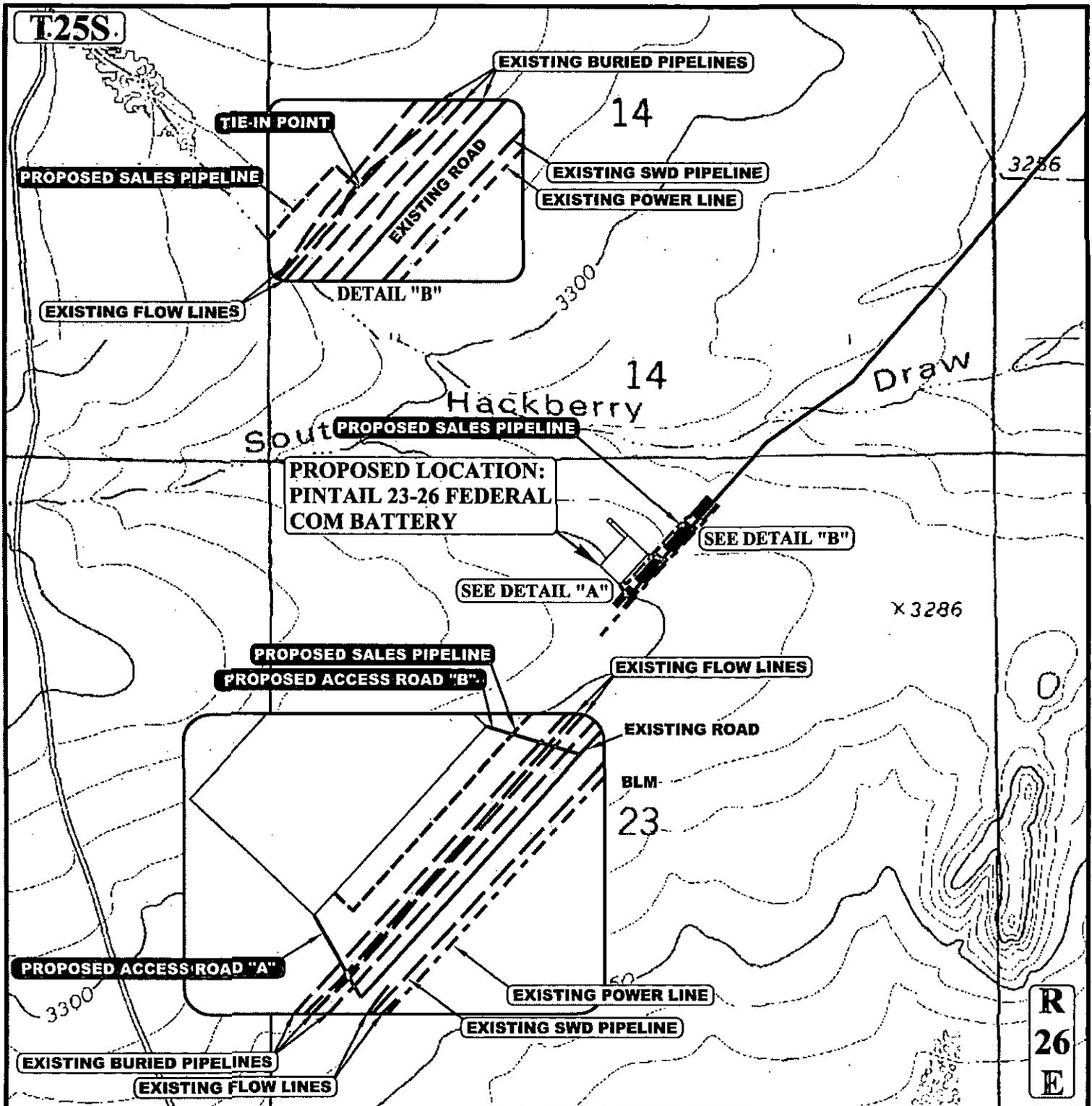


SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16		
DRAWN BY	DATE		
C.D.	01-26-16		
SCALE	N/A		

SALES LINE R-O-W EXHIBIT G-1



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



APPROXIMATE TOTAL SALES PIPELINE DISTANCE = 656' +/-

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 SALES PIPELINE
- - - EXISTING POWER LINE
- - - EXISTING PIPELINE / FLOW LINE

CIMAREX ENERGY CO.

PINTAIL 23-26 FEDERAL COM BATTERY
 N 1/2 N 1/2, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

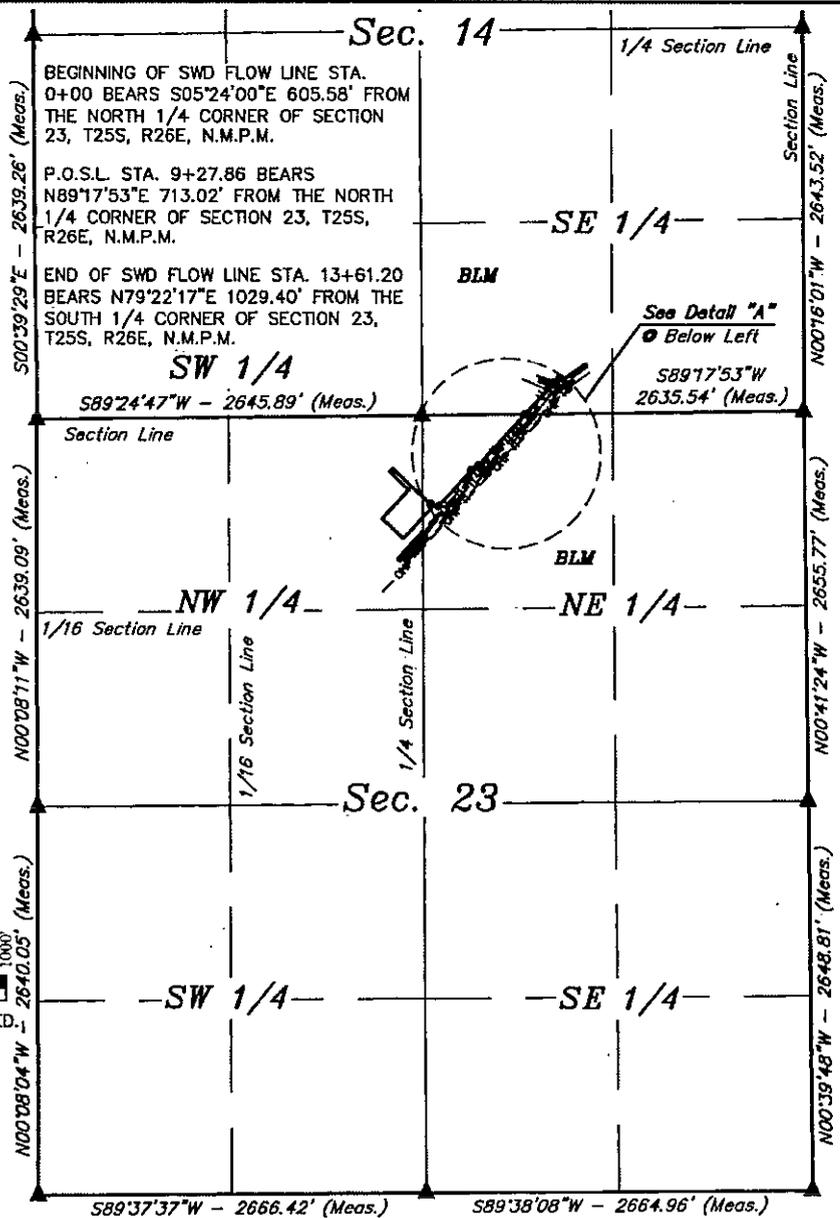
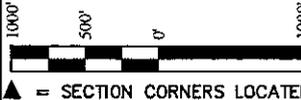
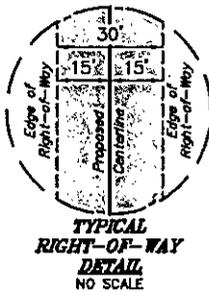


SURVEYED BY	DATE	REVISED BY	DATE
C.J., A.H.	01-20-16		
DRAWN BY	DATE		
Z.H.F.	01-25-16		
SCALE	1" = 1000'		

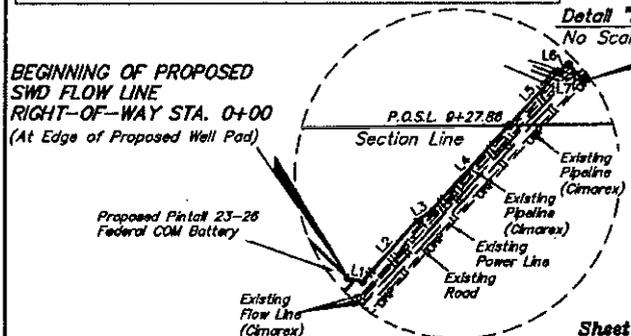


UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S76°47'30"E	62.13'
L2	N42°35'51"E	333.71'
L3	N57°56'36"E	55.99'
L4	N42°35'32"E	476.05'
L5	N42°35'32"E	292.52'
L6	N53°40'38"E	53.20'
L7	S41°23'55"E	87.82'



ACREAGE / LENGTH TABLE				
	OWNERSHIP	FEET	RODS	ACRES
(SEC. 23 NE 1/4)	BLM	927.86	56.23	0.639
(SEC. 14 SE 1/4)	BLM	433.34	26.26	0.298
TOTAL		1361.20	82.49	0.937



END OF PROPOSED SWD FLOW LINE RIGHT-OF-WAY STA. 13+61.20 (At Existing Valve)

CERTIFICATE OF PROFESSIONAL SURVEY

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.

Nelson Marshall
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 12446
 STATE OF NEW MEXICO
 01-27-16

NOTES:
 * Basis of bearing is a G.P.S. observation (Vertical Control Datum: NAVD88)

Sheet 1 of 2

CIMAREX ENERGY CO.

PINTAIL 23-26 FEDERAL COM BATTERY
 N 1/2 N 1/2, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16		
DRAWN BY	DATE		
C.D.	01-26-16		
SCALE	1" = 1000'		



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



SWD FLOW LINE R-O-W EXHIBIT G-3

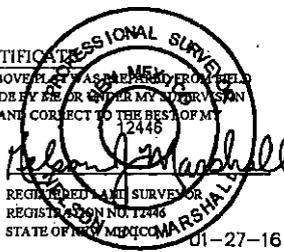
SWD FLOW LINE RIGHT-OF-WAY DESCRIPTION

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

BEGINNING AT A POINT IN THE NW 1/4 NE 1/4 OF SECTION 23, T25S, R26E, N.M.P.M., WHICH BEARS S05°24'00"E 605.58' FROM THE NORTH 1/4 CORNER OF SAID SECTION 23, THENCE S76°47'30"E 62.13'; THENCE N42°35'51"E 333.71'; THENCE N57°56'36"E 55.99'; THENCE N42°35'32"E 476.05' TO A POINT ON THE NORTH LINE OF THE NW 1/4 NE 1/4 OF SAID SECTION 23, WHICH BEARS N89°17'53"E 713.02' FROM THE NORTH 1/4 CORNER OF SAID SECTION 23, THENCE N42°35'32"E 292.52'; THENCE N53°40'38"E 53.20'; THENCE S41°23'55"E 87.62' TO A POINT IN THE SW 1/4 SE 1/4 OF SECTION 14, T25S, R26E, N.M.P.M., WHICH BEARS N79°22'17"E 1029.40' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 14. 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 0.937 ACRES MORE OR LESS.

SECTION CORNER	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
SW COR. SEC. 23, T25S, R26E	N 32°06'28.93"	W 104°16'19.08"
W 1/4 COR. SEC. 23, T25S, R26E	N 32°06'55.05"	W 104°16'19.16"
NW COR. SEC. 23, T25S, R26E	N 32°07'21.16"	W 104°16'19.24"
N 1/4 COR. SEC. 23, T25S, R26E	N 32°07'21.44"	W 104°15'48.48"
NE COR. SEC. 23, T25S, R26E	N 32°07'21.76"	W 104°15'17.84"
E 1/4 COR. SEC. 23, T25S, R26E	N 32°06'55.49"	W 104°15'17.47"
SE COR. SEC. 23, T25S, R26E	N 32°06'29.28"	W 104°15'17.10"
S 1/4 COR. SEC. 23, T25S, R26E	N 32°06'29.11"	W 104°15'48.08"
E 1/4 COR. SEC. 14, T25S, R26E	N 32°07'47.91"	W 104°15'17.99"
W 1/4 COR. SEC. 14, T25S, R26E	N 32°07'47.27"	W 104°16'19.61"

NUMBER	STATION	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
BEGIN	0+00.00	N 32°07'15.47"	W 104°15'47.82"
1	0+62.13	N 32°07'15.33"	W 104°15'47.12"
2	3+95.83	N 32°07'17.76"	W 104°15'44.49"
3	4+51.82	N 32°07'18.06"	W 104°15'43.94"
4	12+20.38	N 32°07'23.65"	W 104°15'37.89"
5	12+73.58	N 32°07'23.97"	W 104°15'37.40"
END	13+61.20	N 32°07'23.32"	W 104°15'36.72"



 THIS IS TO CERTIFY THAT THE ABOVE 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.

REGISTERED LAND SURVEYOR
 REGISTRATION NO. 12446
 STATE OF NEW MEXICO
 01-27-16

Sheet 2 of 2

NOTES:

Basis of bearing is a G.P.S. observation (Vertical Control Datum: NAVD88)

CIMAREX ENERGY CO.

PINTAIL 23-26 FEDERAL COM BATTERY
N 1/2 N 1/2, SECTION 23, T25S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

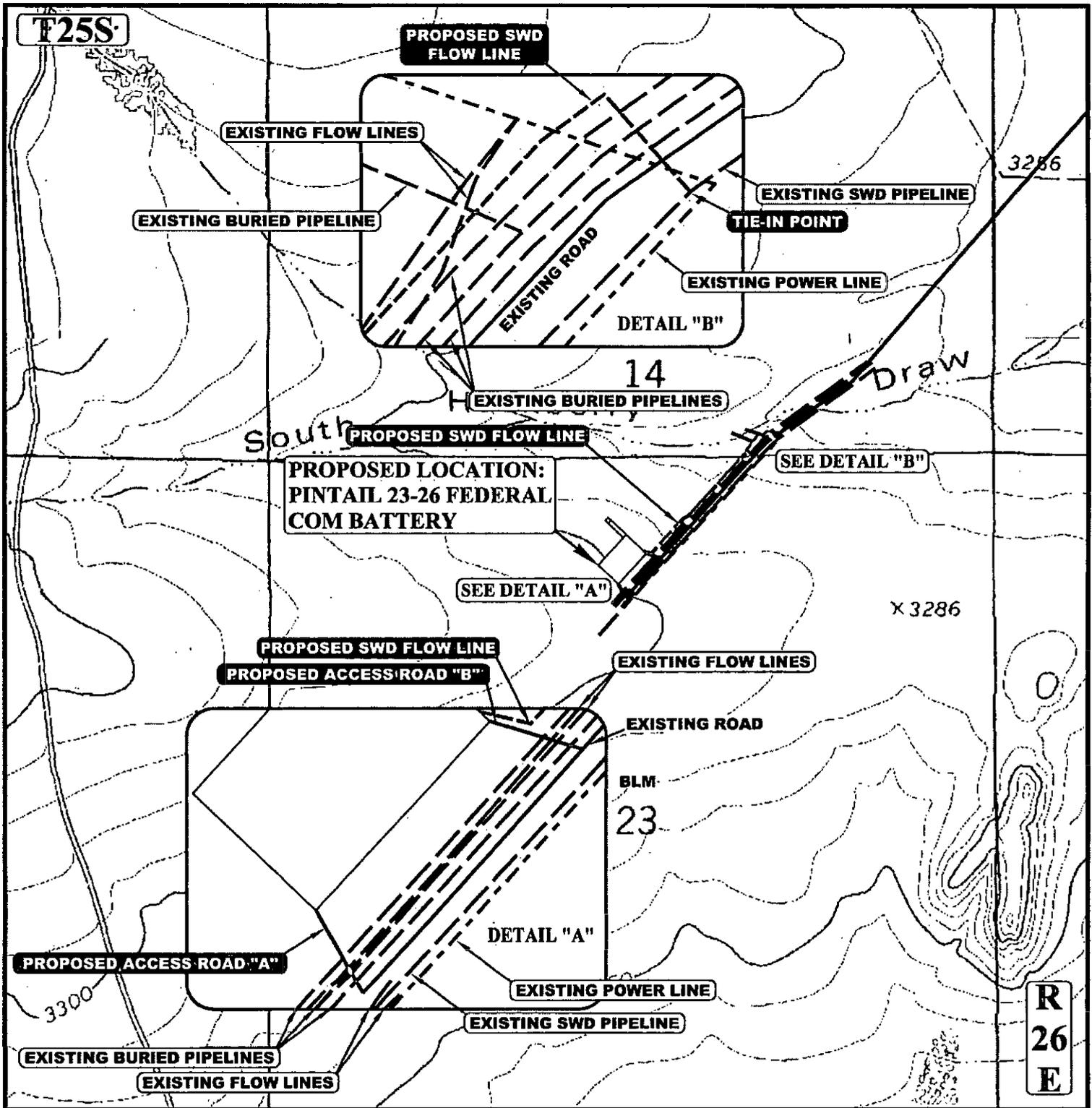


SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16		
DRAWN BY	DATE		
C.D.	01-26-16		
SCALE	N/A		

SWD FLOW LINE R-O-W EXHIBIT C-3



UELLS, LLC
 Corporate Office • 85 South 200 East
 Vernal, UT 84078 • (435) 789-1017



APPROXIMATE TOTAL SWD FLOW LINE DISTANCE = 1,361' +/-

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 SWD FLOW LINE
- EXISTING POWER LINE
- EXISTING PIPELINE / FLOW LINE

CIMAREX ENERGY CO.

PINTAIL 23-26 FEDERAL COM BATTERY
 N 1/2 N 1/2, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO



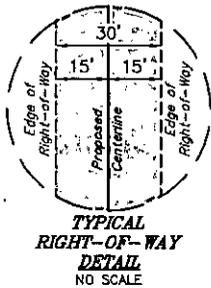
SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16		
DRAWN BY	DATE		
Z.H.F.	01-25-16		
SCALE	1" = 1000'		

SWD FLOW LINE MAP

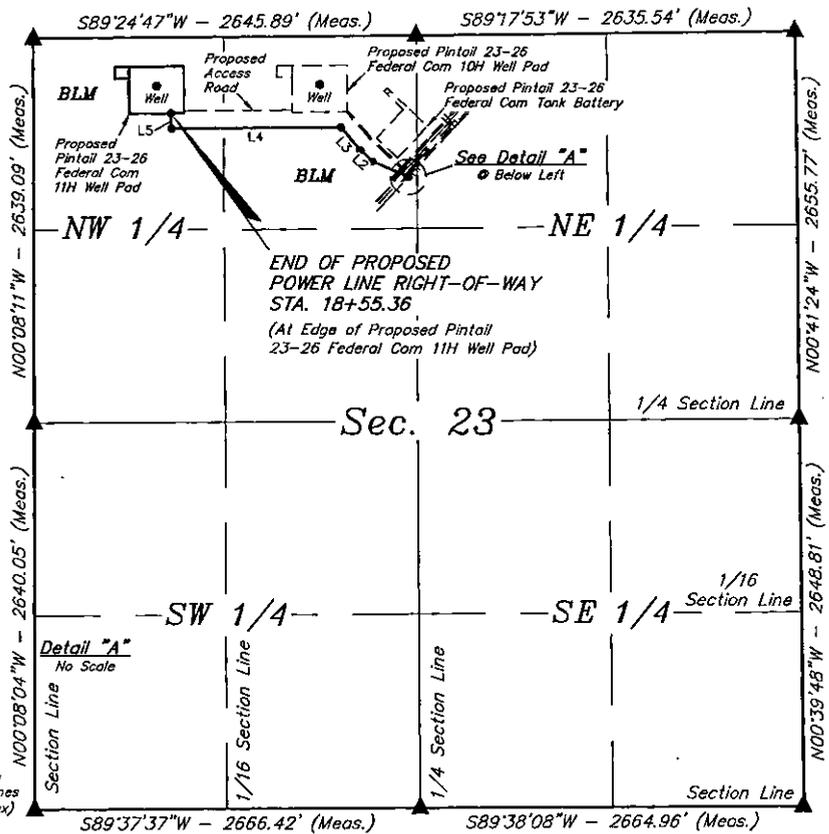
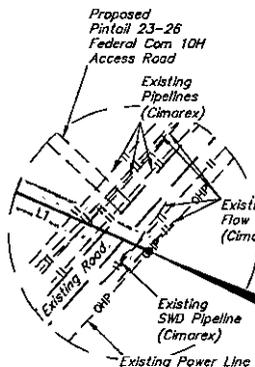
EXHIBIT G-3



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



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N66°31'51"W	267.83'
L2	N47°04'15"W	110.60'
L3	N41°08'36"W	210.21'
L4	S89°24'56"W	1161.72'
L5	N00°34'52"W	105.01'



BEGINNING OF PROPOSED POWER LINE RIGHT-OF-WAY STA. 0+00
(At Existing Power Line)

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 THE NE 1/4 NW 1/4 OF SECTION 23, T25S, R26E, N.M.P.M., WHICH BEARS S03°15'49"W 972.28' FROM THE NORTH 1/4 CORNER OF SAID SECTION 23, THENCE N66°31'51"W 267.83'; THENCE N47°04'15"W 110.60'; THENCE N41°08'36"W 210.21'; THENCE S89°24'56"W 1161.72'; THENCE N00°34'52"W 105.01' TO A POINT IN THE NW 1/4 NW 1/4 OF SAID SECTION 23, WHICH BEARS S62°04'49"E 1089.53' FROM THE NORTHWEST CORNER OF SAID SECTION 23. 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 1.278 ACRES MORE OR LESS.

BEGINNING OF POWER LINE STA. 0+00 BEARS S03°15'49"W 972.28' FROM THE NORTH 1/4 CORNER OF SECTION 23, T25S, R26E, N.M.P.M.

END OF POWER LINE STA. 18+55.36 BEARS S62°04'49"E 1089.53' FROM THE NORTHWEST CORNER OF SECTION 23, T25S, R26E, N.M.P.M.



ACREAGE / LENGTH TABLE				
	OWNERSHIP	FEET	RODS	ACRES
POWER LINE	BLM	1855.36	112.45	1.278

▲ = SECTION CORNERS LOCATED.

CERTIFICATE OF PROFESSIONAL SURVEYOR

THIS IS TO CERTIFY THAT THE ABOVE IS A TRUE AND CORRECT COPY OF THE ORIGINAL 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.

Robert Marshall

REGISTERED LAND SURVEYOR
REGISTRATION NO. 12446
STATE OF NEW MEXICO

01-26-16

Sheet 1 of 2

CIMAREX ENERGY CO.

PINTAIL 23-26 FEDERAL COM 11H NW 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M. EDDY COUNTY, NEW MEXICO

SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16		
DRAWN BY	DATE		
T.E.	01-25-16		
SCALE	1" = 1000'		

POWER LINE R-O-W | **EXHIBIT H**



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



NUMBER	STATION	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
BEGIN	0+00.00	N 32°07'11.83"	W 104°15'49.12"
1	2+67.83	N 32°07'12.89"	W 104°15'51.98"
2	3+78.43	N 32°07'13.63"	W 104°15'52.92"
3	5+88.64	N 32°07'15.20"	W 104°15'54.53"
4	17+50.36	N 32°07'15.08"	W 104°16'08.04"
END	18+55.36	N 32°07'16.11"	W 104°16'08.05"

SECTION CORNER	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
SW COR. SEC. 23-T25S-R26E	N 32°06'28.93"	W 104°16'19.08"
W 1/4 COR. SEC. 23-T25S-R26E	N 32°06'55.05"	W 104°16'19.16"
NW COR. SEC. 23-T25S-R26E	N 32°07'21.16"	W 104°16'19.24"
N 1/4 COR. SEC. 23-T25S-R26E	N 32°07'21.44"	W 104°15'48.48"
NE COR. SEC. 23-T25S-R26E	N 32°07'21.76"	W 104°15'17.84"
E 1/4 COR. SEC. 23-T25S-R26E	N 32°06'55.49"	W 104°15'17.47"
SE COR. SEC. 23-T25S-R26E	N 32°06'29.28"	W 104°15'17.10"
S 1/4 COR. SEC. 23-T25S-R26E	N 32°06'29.11"	W 104°15'48.08"

CERTIFICATE OF PROFESSIONAL SURVEYOR
 THIS IS TO CERTIFY THAT THE ABOVE PLAT 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.

Nelson Marshall
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 12446
 STATE OF NEW MEXICO

Sheet 2 of 2

CIMAREX ENERGY CO.

**PINTAIL 23-26 FEDERAL COM 11H
 NW 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO**

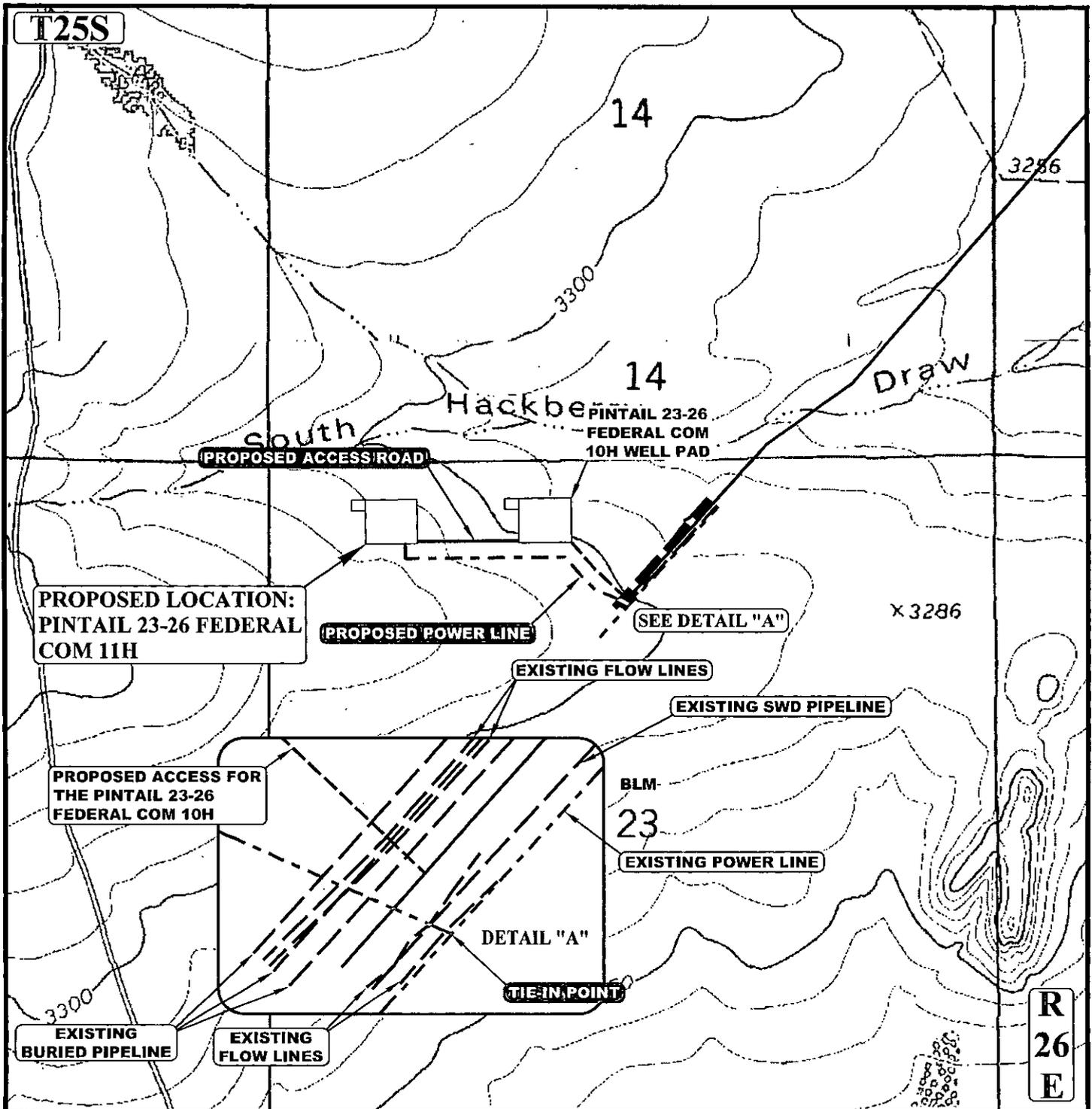
SURVEYED BY	DATE	REVISED BY	DATE
C.J., A.H.	01-20-16		
DRAWN BY	DATE		
T.E.	01-25-16		
SCALE	NONE		

POWER LINE R-O-W EXHIBIT H



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





APPROXIMATE TOTAL POWER LINE DISTANCE = 1855' +/-

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)
- - - PROPOSED POWER LINE
- - - EXISTING POWER LINE
- - - EXISTING PIPELINE / FLOW LINE



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

CIMAREX ENERGY CO.

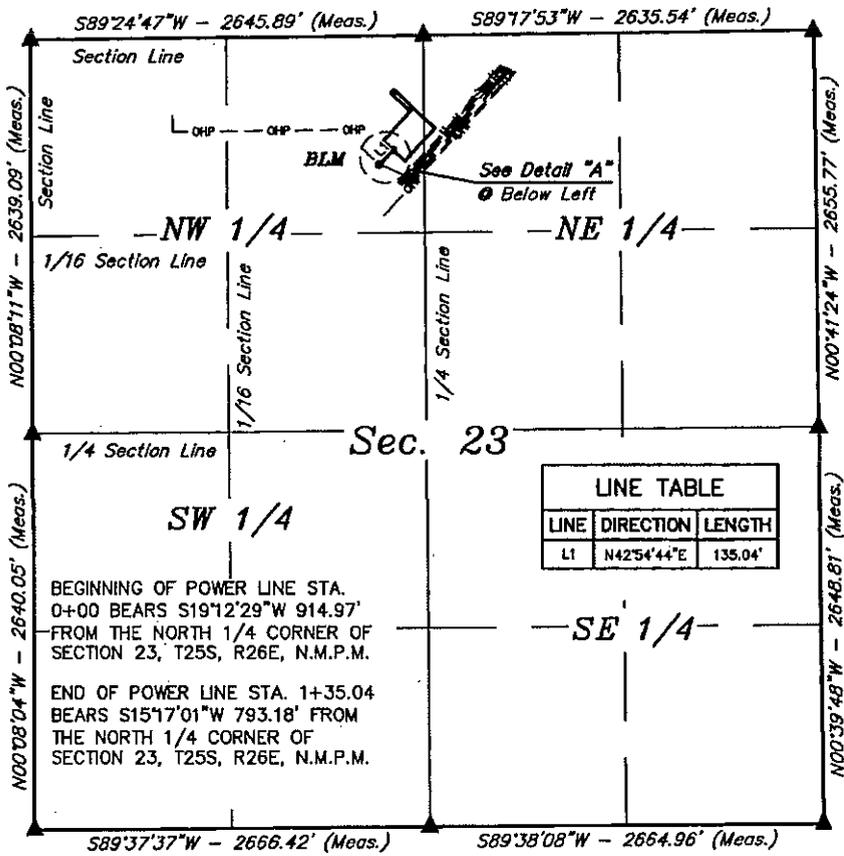
PINTAIL 23-26 FEDERAL COM 11H
 330' FNL 860' FWL
 NW 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO



SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16		
DRAWN BY	DATE		
Z.H.F.	01-26-16		
SCALE	1" = 1000'		

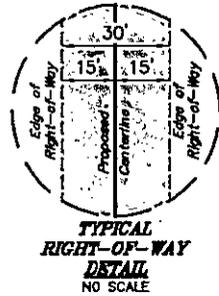
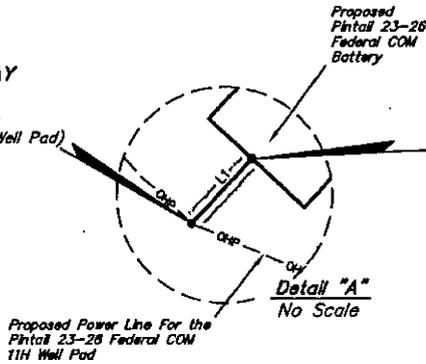
POWER LINE MAP

EXHIBIT H



BEGINNING OF PROPOSED POWER LINE RIGHT-OF-WAY STA. 0+00
 (At Proposed Power Line For the Pintail 23-26 Federal COM 11H Well Pad)

END OF PROPOSED POWER LINE RIGHT-OF-WAY STA. 1+35.04
 (At Edge of the Proposed Tank Battery)



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 THE NE 1/4 NW 1/4 OF SECTION 23, T25S, R26E, N.M.P.M., WHICH BEARS S19°12'29\"/>



ACREAGE / LENGTH TABLE				
	OWNERSHIP	FEET	RODS	ACRES
POWER LINE	BLM	135.04	8.18	0.093

▲ = SECTION CORNERS LOCATED.

CERTIFICATE OF PROFESSIONAL SURVEYOR
 THIS IS TO CERTIFY THAT THE ABOVE PLANS AND MEASUREMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Nelson Marshall
 REGISTERED PROFESSIONAL SURVEYOR
 REGISTRATION NO. 12446
 STATE OF NEW MEXICO
 01-27-16

Sheet 1 of 2

CIMAREX ENERGY CO.

PINTAIL 23-26 FEDERAL COM BATTERY
 N 1/2 N 1/2, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16		
DRAWN BY	DATE		
C.D.	01-26-16		
SCALE	1" = 1000'		

POWER LINE R-O-W **EXHIBIT H**



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

SECTION CORNER	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
SW COR. SEC. 23, T25S, R26E	N 32°06'28.93"	W 104°16'19.08"
W 1/4 COR. SEC. 23, T25S, R26E	N 32°06'55.05"	W 104°16'19.16"
NW COR. SEC. 23, T25S, R26E	N 32°07'21.16"	W 104°16'19.24"
N 1/4 COR. SEC. 23, T25S, R26E	N 32°07'21.44"	W 104°15'48.48"
NE COR. SEC. 23, T25S, R26E	N 32°07'21.76"	W 104°15'17.84"
E 1/4 COR. SEC. 23, T25S, R26E	N 32°06'55.49"	W 104°15'17.47"
SE COR. SEC. 23, T25S, R26E	N 32°06'29.28"	W 104°15'17.10"
S 1/4 COR. SEC. 23, T25S, R26E	N 32°06'29.11"	W 104°15'48.08"

NUMBER	STATION	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
BEGIN	0+00.00	N 32°07'12.89"	W 104°15'51.98"
END	1+35.04	N 32°07'13.86"	W 104°15'50.91"

CERTIFICATE OF PROFESSIONAL SURVEYOR
 THIS IS TO CERTIFY THAT THE ABOVE WAS OBTAINED 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 J. Marshall
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 12446
 STATE OF NEW MEXICO
 01-27-16

Sheet 2 of 2

CIMAREX ENERGY CO.

PINTAIL 23-26 FEDERAL COM BATTERY
 N 1/2 N 1/2, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO



SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16		
DRAWN BY	DATE		
C.D.	01-26-16		
SCALE	N/A		

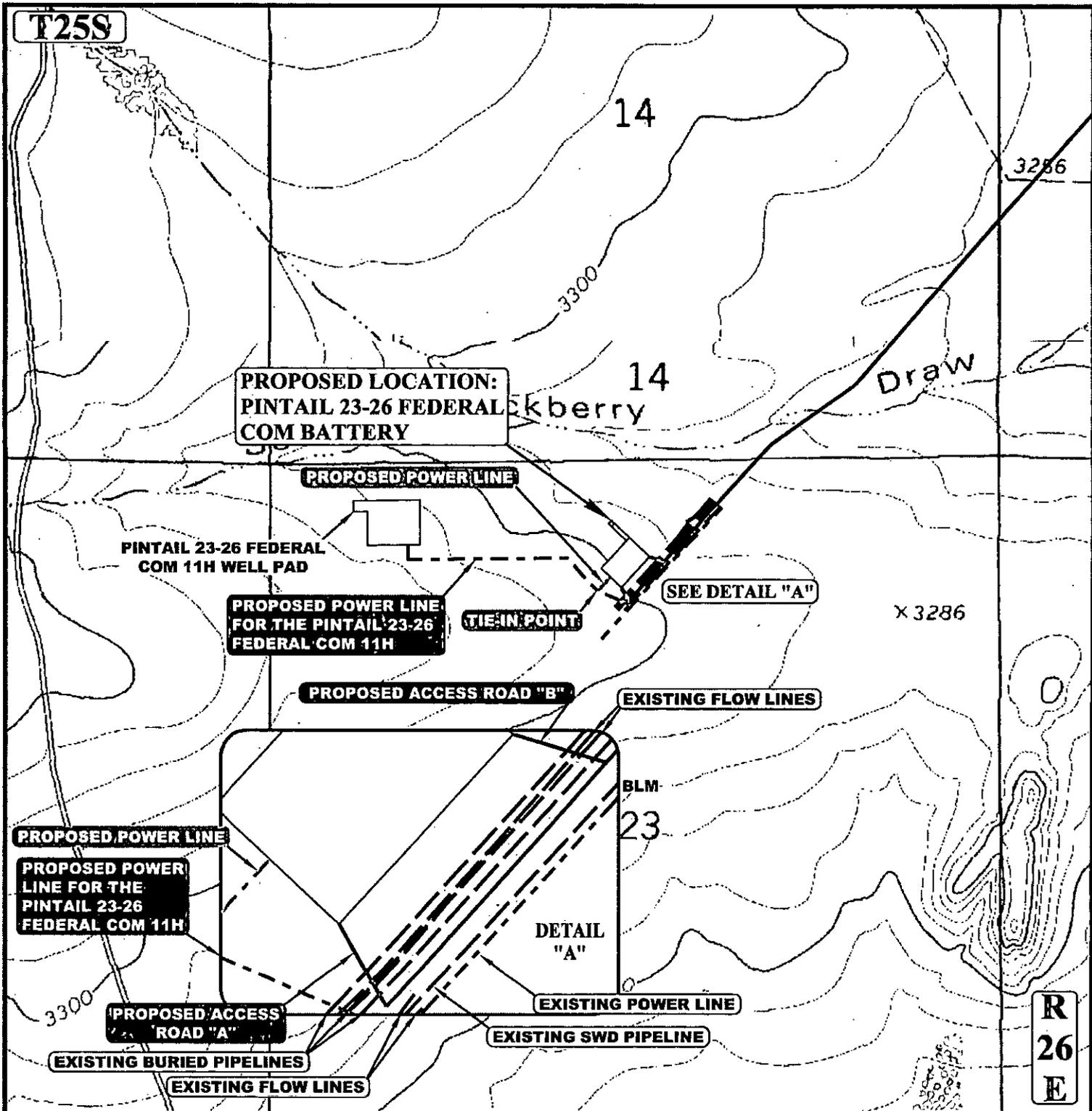
POWER LINE R-O-W

EXHIBIT H



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

T258



APPROXIMATE TOTAL POWER LINE DISTANCE = 135' +/-

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 POWER LINE
- - - - EXISTING POWER LINE
- - - - EXISTING PIPELINE / FLOW LINE

CIMAREX ENERGY CO.

PINTAIL 23-26 FEDERAL COM BATTERY
N 1/2 N 1/2, SECTION 23, T25S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



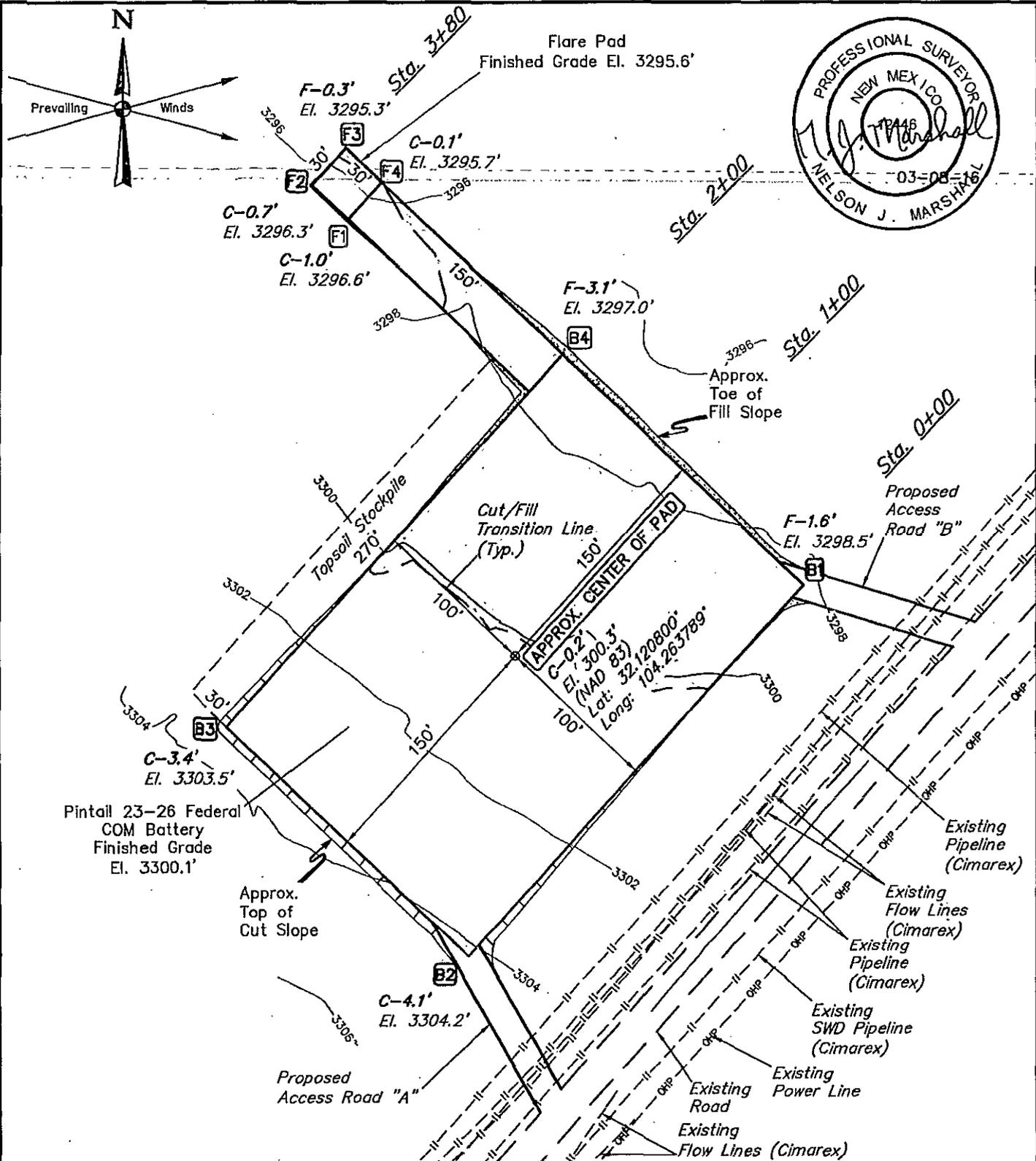
SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16		
DRAWN BY	DATE		
Z.H.F.	01-25-16		
SCALE	1" = 1000'		

POWERLINE MAP

EXHIBIT



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



- NOTES:**
- Contours shown at 2' intervals.
 - Cut/Fill slopes 1 1/2:1 (Typ. except where noted)
 - Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.

CIMAREX ENERGY CO.

PINTAIL 23-26 FEDERAL COM BATTERY
 661' FNL 2545' FWL
 N 1/2 N 1/2, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

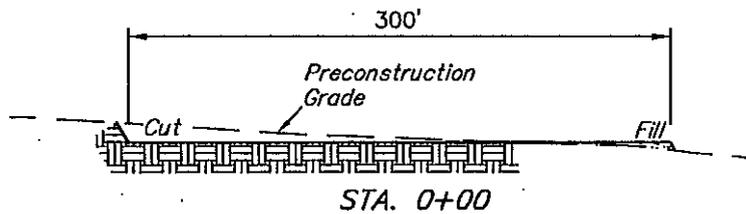
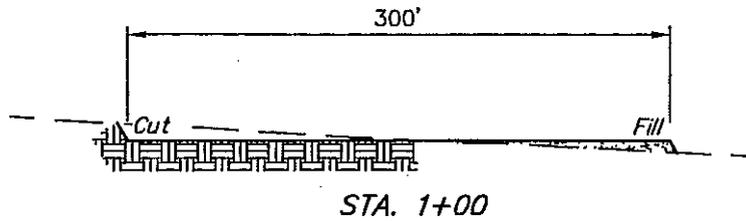
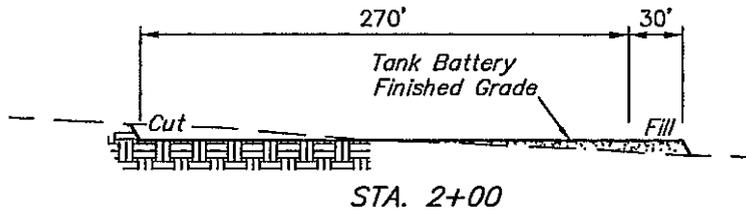
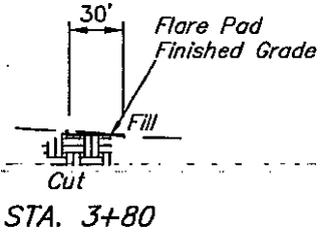
SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16	B.D.H.	03-08-16
DRAWN BY	DATE		
C.D.	01-26-16		
SCALE	1" = 80'		

LOCATION LAYOUT **EXHIBIT P**



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

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



APPROXIMATE EARTHWORK QUANTITIES	
(4") TOPSOIL STRIPPING	850 Cu. Yds.
REMAINING LOCATION	1,910 Cu. Yds.
TOTAL CUT	2,760 Cu. Yds.
FILL	1,910 Cu. Yds.
EXCESS MATERIAL	850 Cu. Yds.
TOPSOIL	850 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	0 Cu. Yds.

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	ACRES
WELL SITE DISTURBANCE	NA	±1.755
30' WIDE ACCESS ROAD "A" R-O-W DISTURBANCE	±100.60'	±0.069
30' WIDE ACCESS ROAD "B" R-O-W DISTURBANCE	±102.90'	±0.071
30' WIDE GAS LIFT PIPELINE R-O-W DISTURBANCE	±705.62'	±0.486
30' WIDE SALES PIPELINE R-O-W DISTURBANCE	±656.13'	±0.452
30' WIDE SWD FLOW LINE R-O-W DISTURBANCE	±1361.20'	±0.937
30' WIDE POWER LINE R-O-W DISTURBANCE	±135.04'	±0.093
TOTAL SURFACE USE AREA		±3.863

NOTES:

- Fill quantity includes 5% for compaction.
- Cut/Fill slopes 1 1/2:1 (Typ. except where noted)

CIMAREX ENERGY CO.

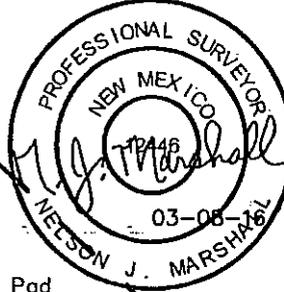
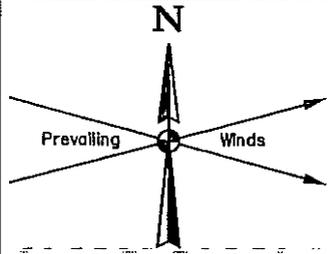
PINTAIL 23-26 FEDERAL COM BATTERY
661' FNL 2545' FWL
N 1/2 N 1/2, SECTION 23, T25S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16	B.D.H.	03-08-16
DRAWN BY	DATE		
C.D.	01-26-16		
SCALE	AS SHOWN		

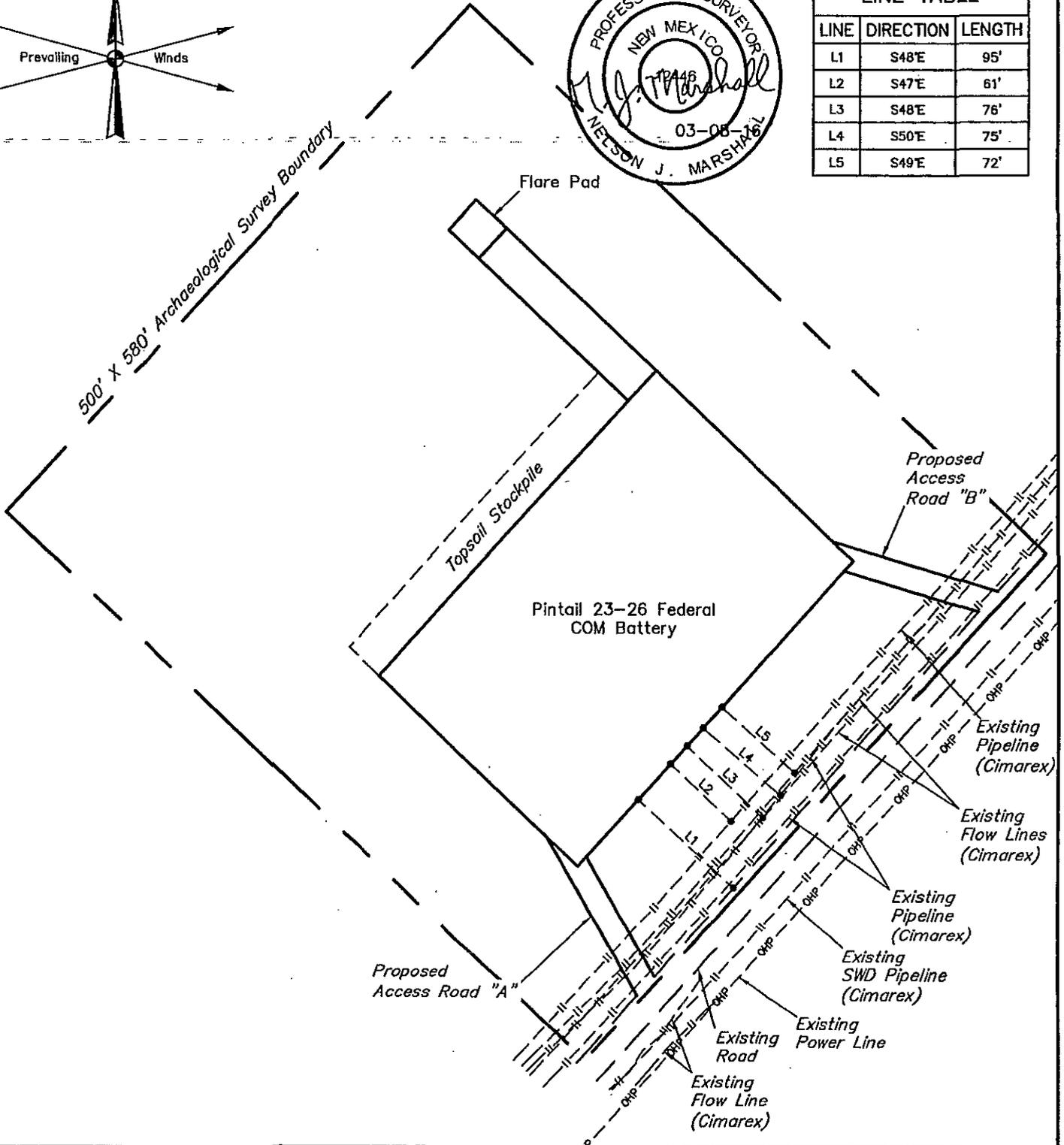
TYPICAL CROSS SECTIONS EXHIBIT P



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



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S48°E	95'
L2	S47°E	61'
L3	S48°E	76'
L4	S50°E	75'
L5	S49°E	72'



NOTES:

CIMAREX ENERGY CO.

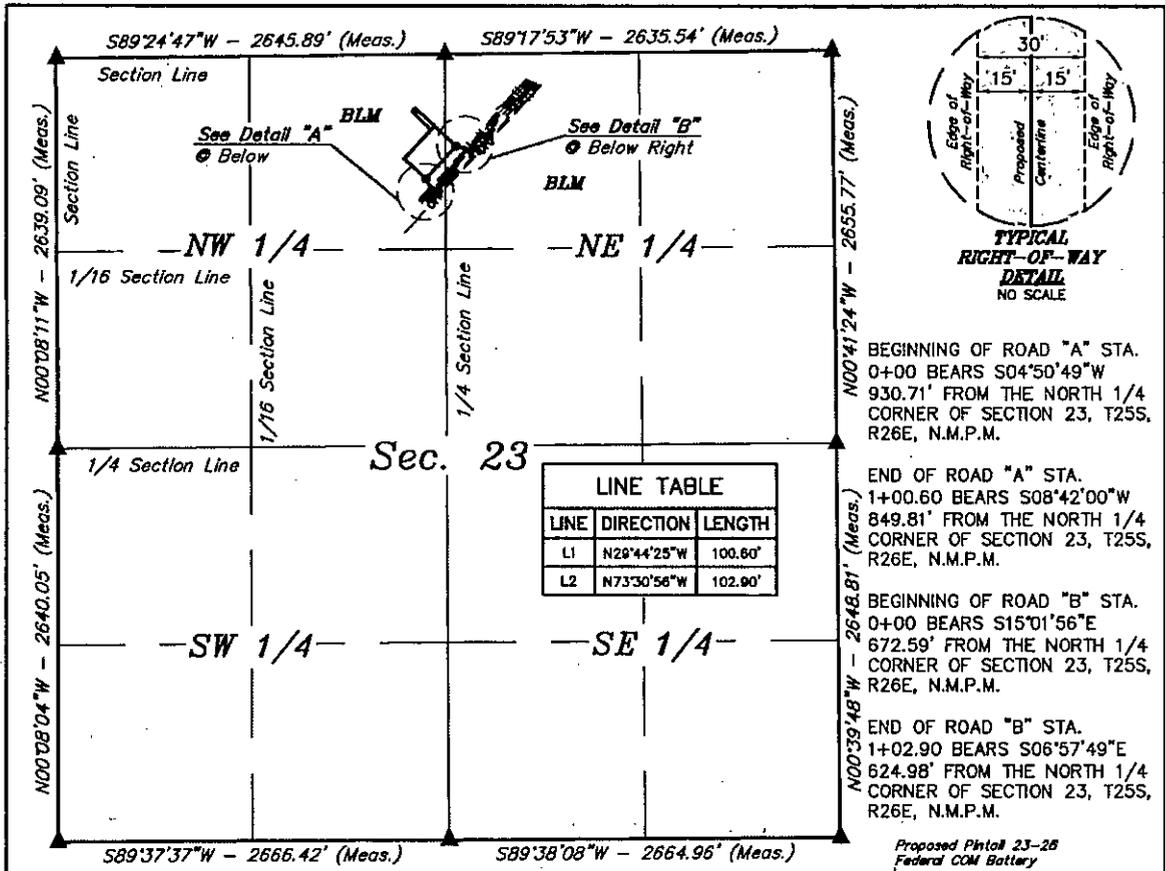
PINTAIL 23-26 FEDERAL COM BATTERY
 661' FNL 2545' FWL
 N 1/2 N 1/2, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16	B.D.H.	03-08-16
DRAWN BY	DATE		
C.D.	01-26-16		
SCALE	1" = 100'		

ARCHAEOLOGICAL SURVEY BOUNDARY **EXHIBIT P**



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



BEGINNING OF ROAD "A" STA. 0+00 BEARS S04°50'49"W 930.71' FROM THE NORTH 1/4 CORNER OF SECTION 23, T25S, R26E, N.M.P.M.

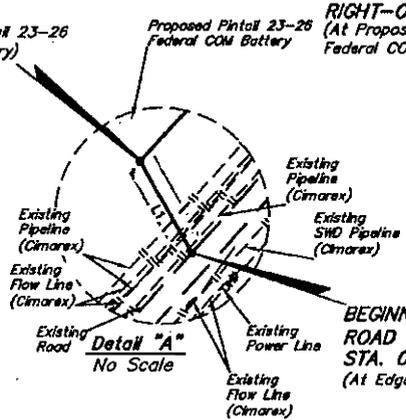
END OF ROAD "A" STA. 1+00.60 BEARS S08°42'00"W 849.81' FROM THE NORTH 1/4 CORNER OF SECTION 23, T25S, R26E, N.M.P.M.

BEGINNING OF ROAD "B" STA. 0+00 BEARS S15°01'56"E 672.59' FROM THE NORTH 1/4 CORNER OF SECTION 23, T25S, R26E, N.M.P.M.

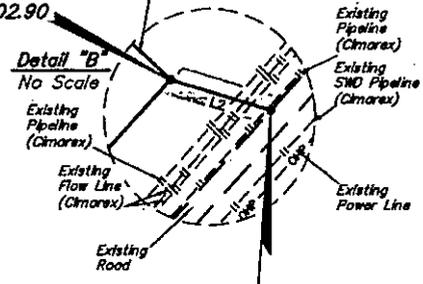
END OF ROAD "B" STA. 1+02.90 BEARS S06°57'49"E 624.98' FROM THE NORTH 1/4 CORNER OF SECTION 23, T25S, R26E, N.M.P.M.

END OF PROPOSED ROAD "A" RIGHT-OF-WAY STA. 1+00.60 (At Proposed Pincall 23-26 Federal COM Battery)

END OF PROPOSED ROAD "B" RIGHT-OF-WAY STA. 1+02.90 (At Proposed Pincall 23-26 Federal COM Battery)



BEGINNING OF PROPOSED ROAD "A" RIGHT-OF-WAY STA. 0+00 (At Edge of Existing Road)



BEGINNING OF PROPOSED ROAD "B" RIGHT-OF-WAY STA. 0+00 (At Edge of Existing Road)



ACREAGE / LENGTH TABLE				
	OWNERSHIP	FEET	RODS	ACRES
ACCESS ROAD "A" (SEC. 23 NW 1/4)	BLM	100.6	6.10	0.069
ACCESS ROAD "B" (SEC. 23 NE 1/4)	BLM	102.9	6.24	0.071
TOTAL		203.5	12.34	0.140

▲ = SECTION CORNERS LOCATED.

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.

CERTIFIED PROFESSIONAL SURVEYOR
 REGISTERED PROFESSIONAL SURVEYOR
 REGISTRATION NO. 12446
 STATE OF NEW MEXICO
 01-27-16

Sheet 1 of 2

CIMAREX ENERGY CO.

PINTAIL 23-26 FEDERAL COM BATTERY
 N 1/2 N 1/2, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16		
DRAWN BY	DATE		
C.D.	01-26-16		
SCALE	1" = 1000'		

ACCESS ROAD R-O-W EXHIBIT P-2



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

ROAD "A" 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 23, T25S, R26E, N.M.P.M., WHICH BEARS S04°50'49"W 930.71' FROM THE NORTH 1/4 CORNER OF SAID SECTION 23, THENCE N29°44'25"W 100.60' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 23, WHICH BEARS S08°42'00"W 849.81' FROM THE NORTH 1/4 CORNER OF SAID SECTION 23. 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 0.069 ACRES MORE OR LESS.

ROAD "B" RIGHT-OF-WAY DESCRIPTION

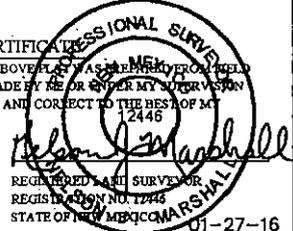
A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE NW 1/4 NE 1/4 OF SECTION 23, T25S, R26E, N.M.P.M., WHICH BEARS S15°01'56"E 672.59' FROM THE NORTH 1/4 CORNER OF SAID SECTION 23, THENCE N73°30'56"W 102.90' TO A POINT IN THE NW 1/4 NE 1/4 OF SAID SECTION 23, WHICH BEARS S06°57'49"E 624.98' FROM THE NORTH 1/4 CORNER OF SAID SECTION 23. 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 0.071 ACRES MORE OR LESS.

SECTION CORNER	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
SW COR. SEC. 23, T25S, R26E	N 32°06'28.93"	W 104°16'19.08"
W 1/4 COR. SEC. 23, T25S, R26E	N 32°06'55.05"	W 104°16'19.16"
NW COR. SEC. 23, T25S, R26E	N 32°07'21.16"	W 104°16'19.24"
N 1/4 COR. SEC. 23, T25S, R26E	N 32°07'21.44"	W 104°15'48.48"
NE COR. SEC. 23, T25S, R26E	N 32°07'21.76"	W 104°15'17.84"
E 1/4 COR. SEC. 23, T25S, R26E	N 32°06'55.49"	W 104°15'17.47"
SE COR. SEC. 23, T25S, R26E	N 32°06'29.28"	W 104°15'17.10"
S 1/4 COR. SEC. 23, T25S, R26E	N 32°06'29.11"	W 104°15'48.08"

PROPOSED ACCESS ROAD "A"			
NUMBER	STATION	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
BEGIN	0+00.00	N 32°07'12.26"	W 104°15'49.39"
END	1+00.60	N 32°07'13.12"	W 104°15'49.98"

PROPOSED ACCESS ROAD "B"			
NUMBER	STATION	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
BEGIN	0+00.00	N 32°07'15.01"	W 104°15'46.45"
END	1+02.90	N 32°07'15.30"	W 104°15'47.60"



 CERTIFICATE OF PROFESSIONAL SURVEYOR
 THIS IS TO CERTIFY THAT THE ABOVE IS A TRUE AND CORRECT COPY OF THE 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

Sheet 2 of 2

CIMAREX ENERGY CO.



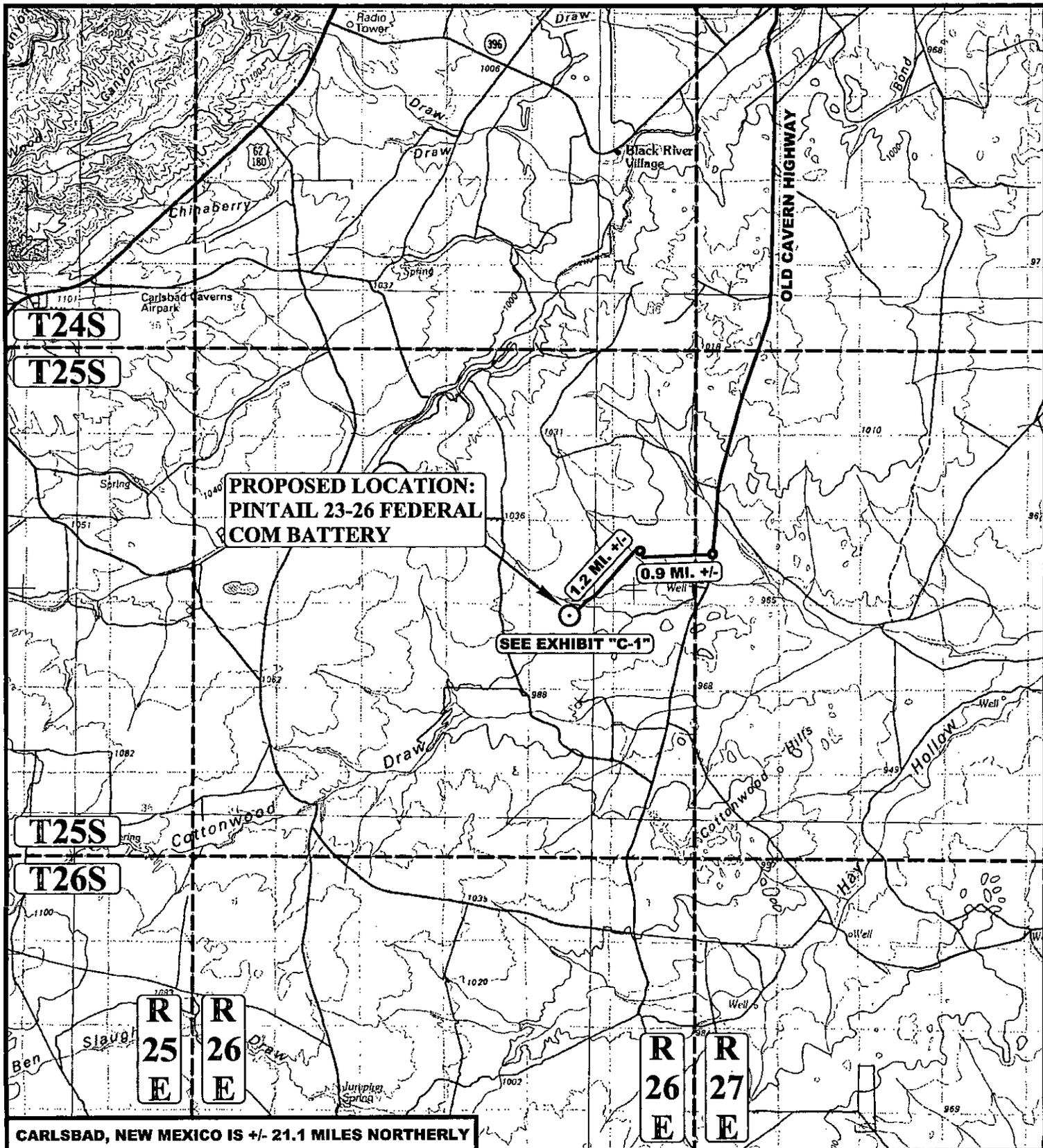
PINTAIL 23-26 FEDERAL COM BATTERY
 N 1/2 N 1/2, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16		
DRAWN BY	DATE		
C.D.	01-26-16		
SCALE	N/A		

ACCESS ROAD R-O-W EXHIBIT P-2



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



LEGEND:

○ PROPOSED LOCATION



CIMAREX ENERGY CO.

PINTAIL 23-26 FEDERAL COM BATTERY
N 1/2 N 1/2, SECTION 23, T25S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

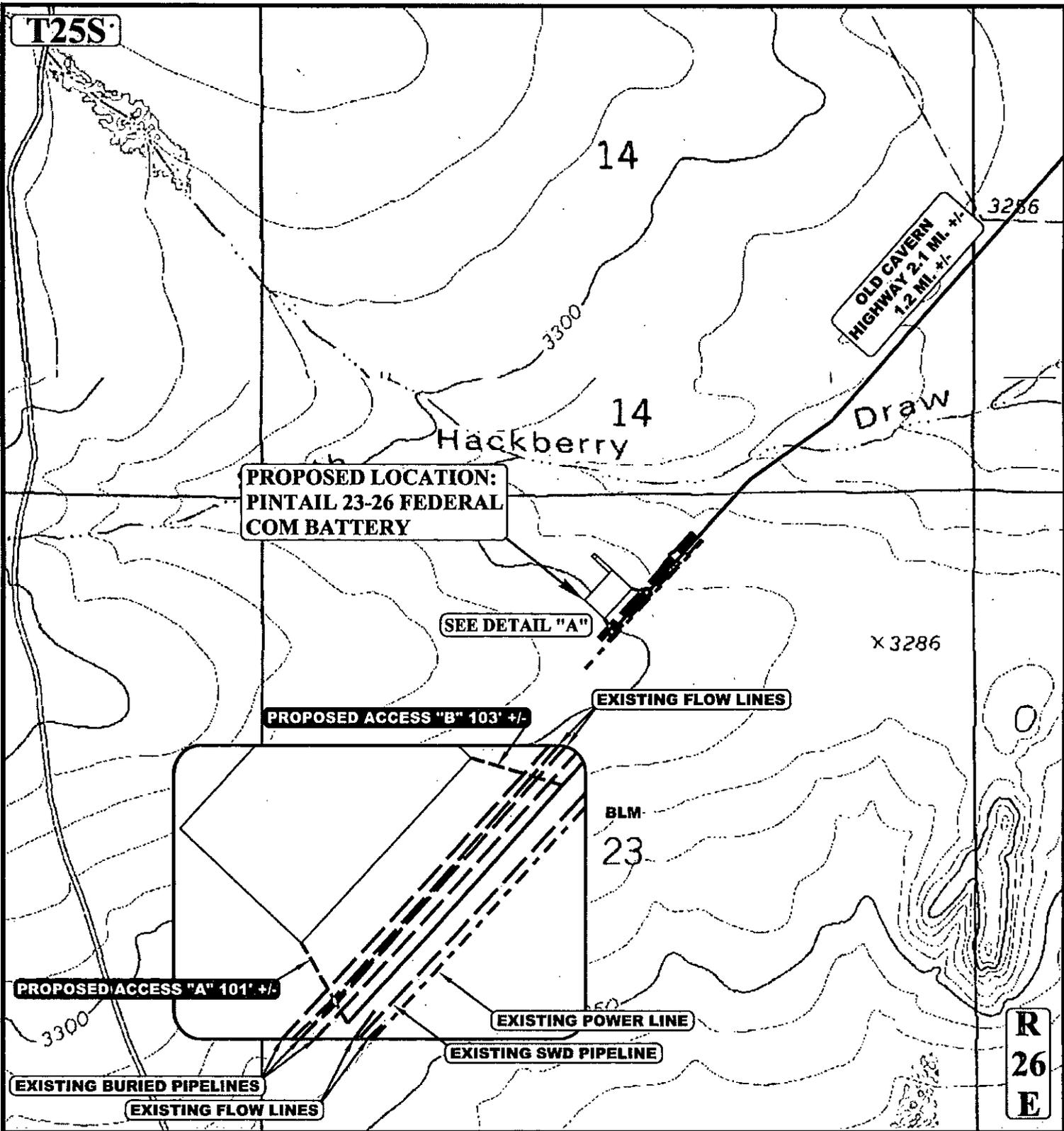
SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16		
DRAWN BY	DATE		
Z.H.F.	01-25-16		
SCALE	1 : 100,000		

PUBLIC ACCESS ROAD MAP **EXHIBIT P**



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

T25S



**PROPOSED LOCATION:
PINTAIL 23-26 FEDERAL
COM BATTERY**

SEE DETAIL "A"

PROPOSED ACCESS "B" 103' +/-

EXISTING FLOW LINES

PROPOSED ACCESS "A" 101' +/-

BLM
23

EXISTING POWER LINE

EXISTING SWD PIPELINE

EXISTING BURIED PIPELINES

EXISTING FLOW LINES

R
26
E

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
- - - - - EXISTING POWER LINE
- - - - - EXISTING PIPELINE / FLOW LINE

CIMAREX ENERGY CO.

PINTAIL 23-26 FEDERAL COM BATTERY
N 1/2 N 1/2, SECTION 23, T25S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

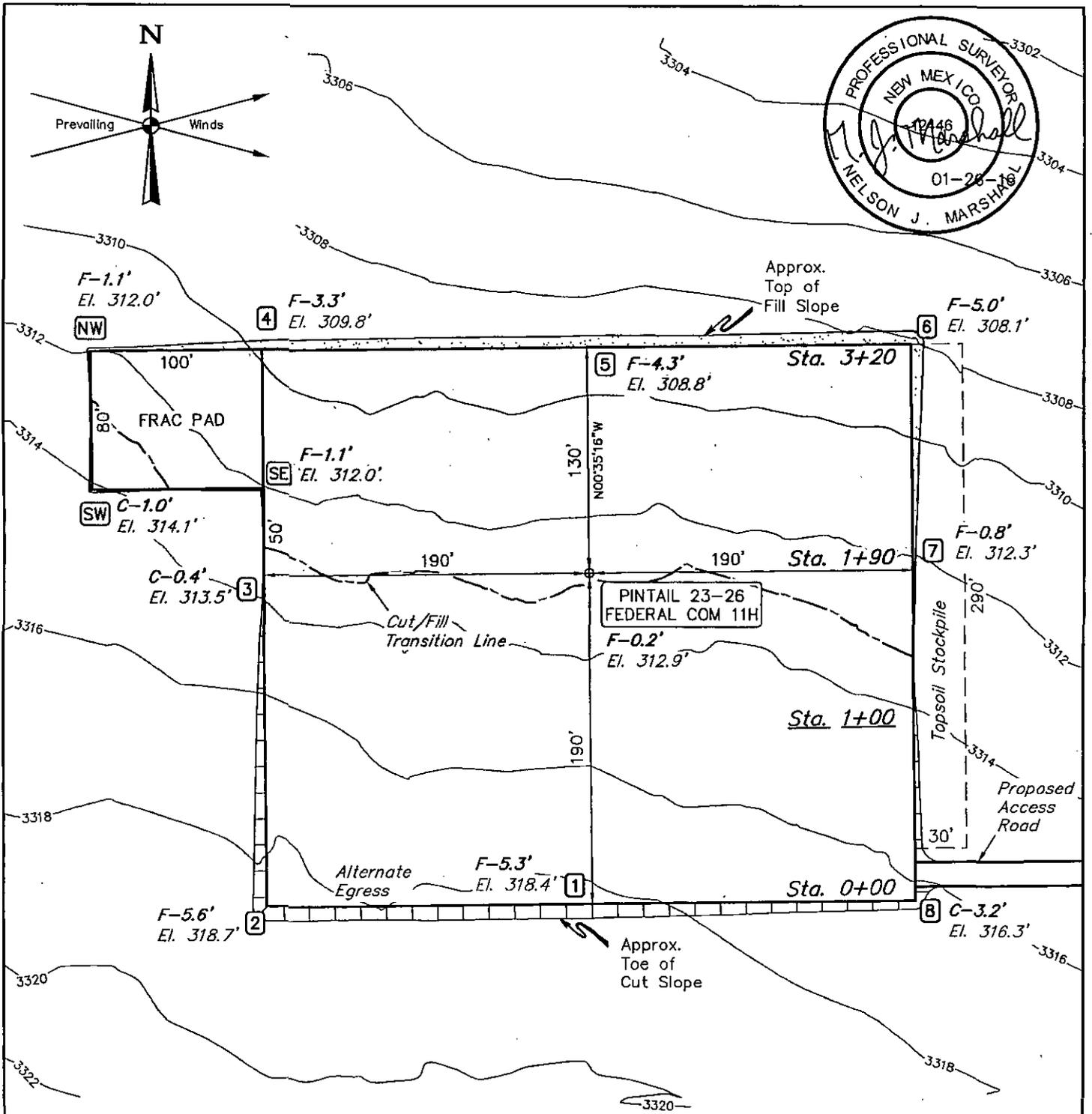
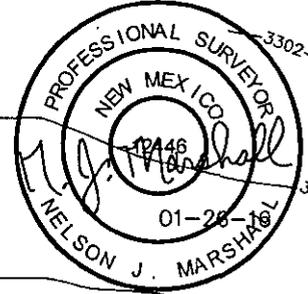
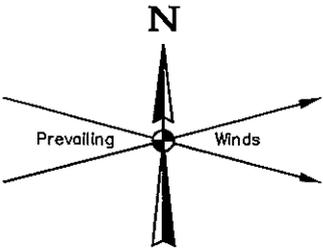


SURVEYED BY	DATE	REVISED BY	DATE
C.J. A.H.	01-20-16		
DRAWN BY	DATE		
Z.H.F.	01-25-16		
SCALE	1" = 1000'		



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

TOPOGRAPHIC MAP **EXHIBIT P**



NOTE: Earthwork Calculations Require a Fill of 0.2' @ the Pintail 23-26 Federal Com 11H Location Stake For Balance. All Fill is to be Compacted to a Minimum of 95% of the Maximum Dry Density Obtained by AASHTO Method t-99.

FINISHED GRADE ELEVATION = 3313.1'

- NOTES:
- Flare pit is to be located a min. of 100' from the wellhead.
 - Contours shown at 2' intervals.
 - Cut/Fill slopes 1 1/2:1 (Typ).

CIMAREX ENERGY CO.
PINTAIL 23-26 FEDERAL COM 11H
 330' FNL 860' FWL
 NW 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

SURVEYED BY	DATE	REVISED BY	DATE
C.J., A.H.	01-20-16		
DRAWN BY	DATE		
T.E.	01-25-16		
SCALE	1" = 80'		



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

LOCATION LAYOUT EXHIBIT

1. Geological Formations

TVD of target 7,240
MD at TD 16,927

Pilot Hole TD N/A
Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	0	N/A	
OSE Groundwater	50	N/A	
Salado	1135	N/A	
Castille	1690	N/A	
Delaware	1885	N/A	
Bell Canyon	2040	N/A	
Cherry Canyon	2840	N/A	
Brushy Canyon	3850	N/A	
Bone Spring	5410	Hydrocarbons	
1st Bone Spring Ss	6420	Hydrocarbons	
2nd Bone Spring Ls	6650	Hydrocarbons	
2nd Bone Spring Ss	6950	Hydrocarbons	
2nd BS Ss Horz Target	7240	Hydrocarbons	
3rd Bone Spring Limestone	7320	Hydrocarbons	

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	440	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	3.68	8.59	15.25
12 1/4	0	1865	9-5/8"	36.00	J-55	LT&C	2.04	3.56	6.75
8 3/4	0	6521	5-1/2"	17.00	L-80	LT&C	2.02	2.48	2.75
8 3/4	6521	16927	5-1/2"	17.00	L-80	BT&C	1.82	2.23	32.48
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 HLB.1.h

Cimarex Energy Co., Pintail 23-26 Fed Com 11H

	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.	N
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?	N
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	N
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	N
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	N
Is 2nd string set 100' to 600' below the base of salt?	N
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	N

3. Cementing Program

Casing	# Sks	Wt. lb/gal	Yld ft ³ /sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	85	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	195	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	352	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	109	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	649	10.80	2.35	9.60	17:43	Lead: Tuned Light I Class H
	2225	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS

Casing String	TOC	% Excess
Surface		0
Intermediate		0
Production		1665

See COA

33

44

15

4. Pressure Control Equipment

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	2M	Annular	X	50% of working pressure
			Blind Ram	X	
			Pipe Ram		2M
			Double Ram	X	
			Other		
8 3/4	13 5/8	3M	Annular	X	50% of working pressure
			Blind Ram	X	3M
			Pipe Ram		
			Double Ram	X	
			Other		

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.

	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.
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.
N	Are anchors required by manufacturer?

5. Mud Program

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' to 440'	FW Spud Mud	8.30 - 8.80	28	N/C
440' to 1865'	Brine Water	9.70 - 10.20	30-32	N/C
1865' to 16927'	FW/Cut Brine	8.70 - 9.20	30-32	N/C

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

Logging, Coring and Testing	
X	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test?
	Coring?

Additional Logs Planned	Interval

7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	3463 psi
Abnormal Temperature	No

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.	
X	H2S is present
X	H2S plan is attached

8. Other Facets of Operation

Exhibit F-1
 Pintail 23-26 Fed Com 11H
 Cimarex Energy Company
 23 & 26-25S-26E
 Eddy County, NM



Midwest Hose & Specialty, Inc.

INTERNAL HYDROSTATIC TEST REPORT		
Customer: Oderco Inc		P.O. Number: odyd-271
HOSE SPECIFICATIONS		
Type:	Stainless Steel Armor Choke & Kill Hose	Hose Length: 45'ft.
I.D.	4 INCHES	O.D. 9 INCHES
WORKING PRESSURE	TEST PRESSURE	BURST PRESSURE
10,000 PSI	15,000 PSI	0 PSI
COUPLINGS		
Stem Part No.	Ferrule No.	
OKC OKC	OKC OKC	
Type of Coupling:		
Swage-It		
PROCEDURE		
<i>Hose assembly pressure tested with water at ambient temperature.</i>		
TIME HELD AT TEST PRESSURE	ACTUAL BURST PRESSURE:	
15 MIN.	0 PSI	
Hose Assembly Serial Number:	Hose Serial Number:	
79793	OKC	
Comments:		
Date:	Tested:	Approved:
3/8/2011	<i>A. Jaime Garcia</i>	<i>[Signature]</i>

March 3, 2011

Internal Hydrostatic Test Graph

Customer: Houston

Pick Ticket #: 94260



Midwest Hose & Specialty, Inc.

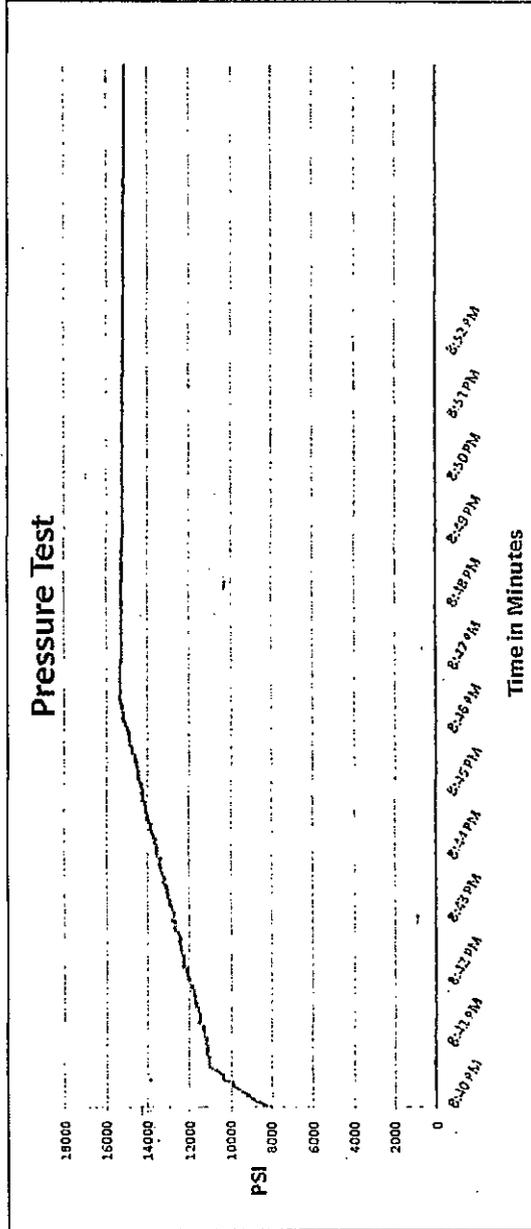
Hose Specifications

Hose Type: C & K
 Length: 45'
 O.D.: 6.09"
 I.D.: 4"
 Working Pressure: 10000 PSI
 Burst Pressure: Standards of Safety/Multiplier Appendix

Verification

Type of Fittings: 41/16 10K
 Coupling Method: Swage
 Final O.D.: 6.75"
 Die Size: 6.38"
 Hose Serial #: 5544
 Hose Assembly Serial #: 79793

Exhibit F-1 – Co-Flex Hose Hydrostatic Test
 Pintail 23-26 Fed Com 11H
 Cimarex Energy Company
 23 & 26-25S-26E
 Eddy County, NM



Test Pressure: 15000 PSI
 Time Held at Test Pressure: 11 Minutes
 Actual Burst Pressure: 15483 PSI
 Peak Pressure: 15483 PSI

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

Tested By: Zac McConnell

Approved By: Kim Thomas

Exhibit F-2 – Co-Flex Hose
Pintail 23-26 Fed Com 11H
Cimarex Energy Company
23 & 26-25S-26E
Eddy County, NM



Midwest Hose & Specialty, Inc.

Certificate of Conformity

Customer:		PO	
DEM		ODYD-271	
SPECIFICATIONS			
Sales Order		Dated:	
79793		3/8/2011	
<p>We hereby certify that the material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards</p> <p>Supplier: Midwest Hose & Specialty, Inc. 10640 Tanner Road Houston, Texas 77041</p>			
Comments:			
Approved:		Date:	
<i>Samuel Garcia</i>		3/8/2011	



Exhibit F -3- Co-Flex Hose
Pintail 23-26 Fed Com 11H
Cimarex Energy Company
23 & 26-25S-26E
Eddy County, NM

Specification Sheet Choke & Kill Hose

The Midwest Hose & Specialty Choke & Kill hose is manufactured with only premium components. The reinforcement cables, inner liner and cover are made of the highest quality material to handle the tough drilling applications of today's industry. The end connections are available with API flanges, API male threads, hubs, hammer unions or other special fittings upon request. Hose assembly is manufactured to API 7K. This assembly is wrapped with fire resistant vermiculite coated fiberglass insulation, rated at 2000 degrees with stainless steel armor cover.

Working Pressure:	5,000 or 10,000 psi working pressure
Test Pressure:	10,000 or 15,000 psi test pressure
Reinforcement:	Multiple steel cables
Cover:	Stainless Steel Armor
Inner Tube:	Petroleum resistant, Abrasion resistant
End Fitting:	API flanges, API male threads, threaded or butt weld hammer unions, unibolt and other special connections
Maximum Length:	110 Feet
ID:	2-1/2", 3", 3-1/2", 4"
Operating Temperature:	-22 deg F to +180 deg F (-30 deg C to +82 deg C)

Pintail 23-26 Fed Com Sec. 23 & 26 -25S-26E

NMNM:026105
480 acres

NMNM:090476
360 acres

NMNM:094839
1480 acres

NMNM:019423
2560 acres

NMNM:019423
2560 acres

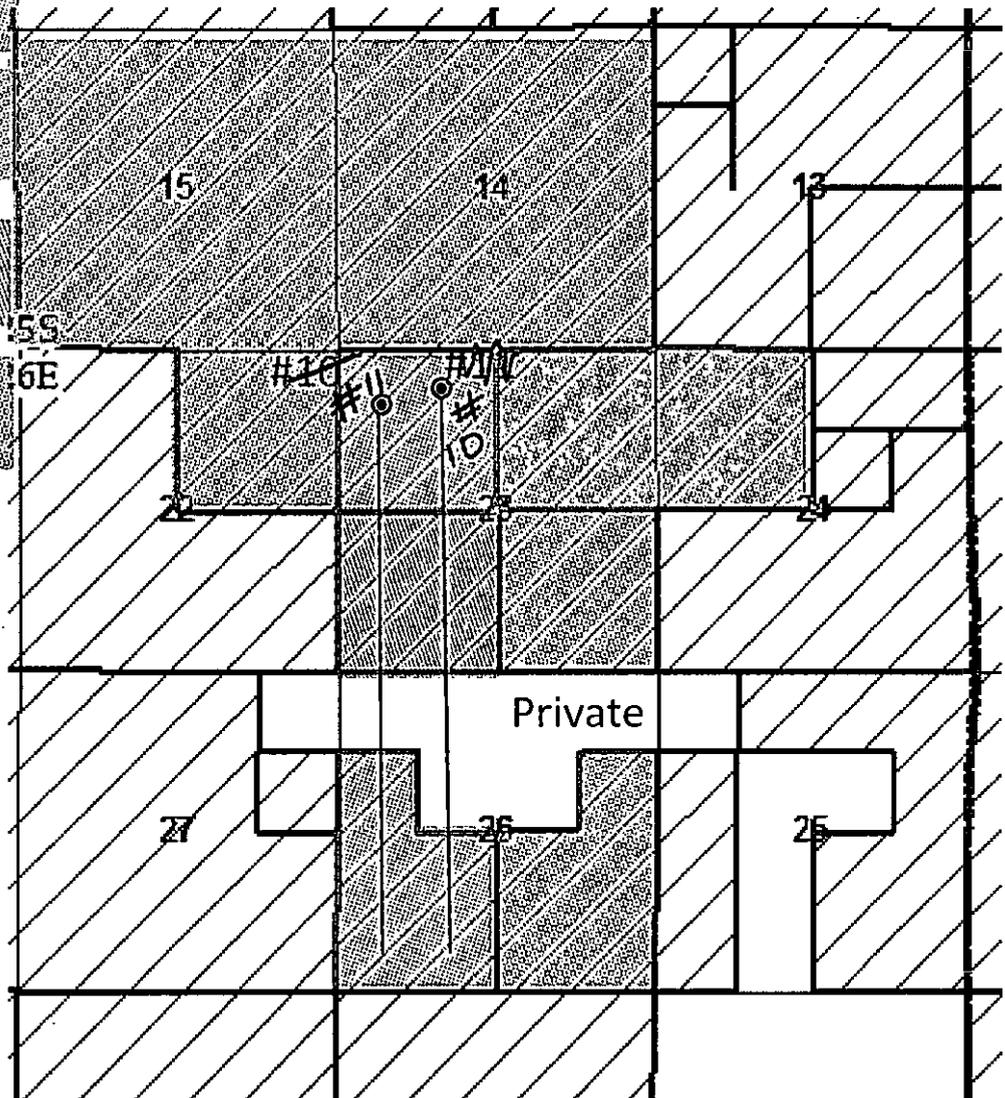
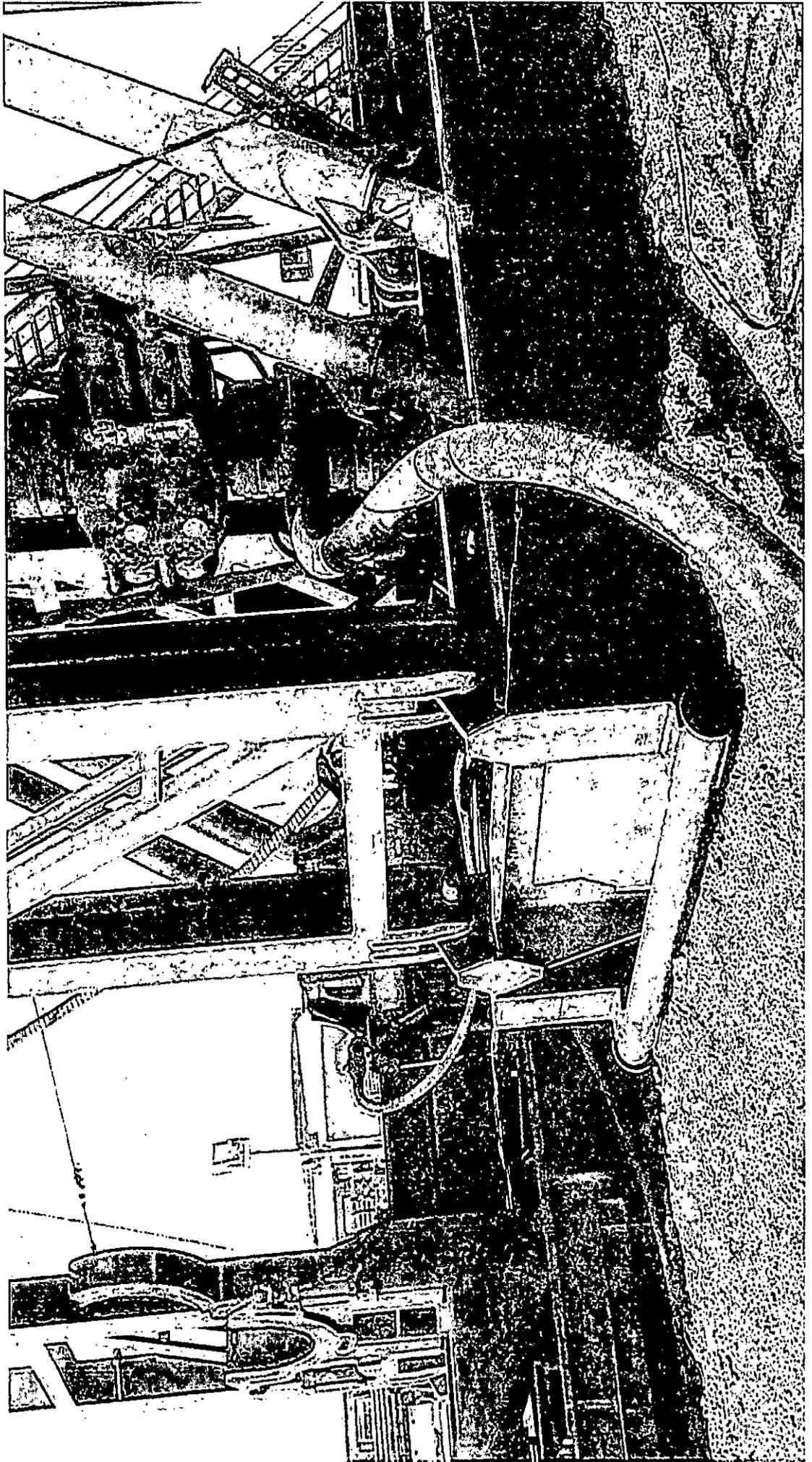
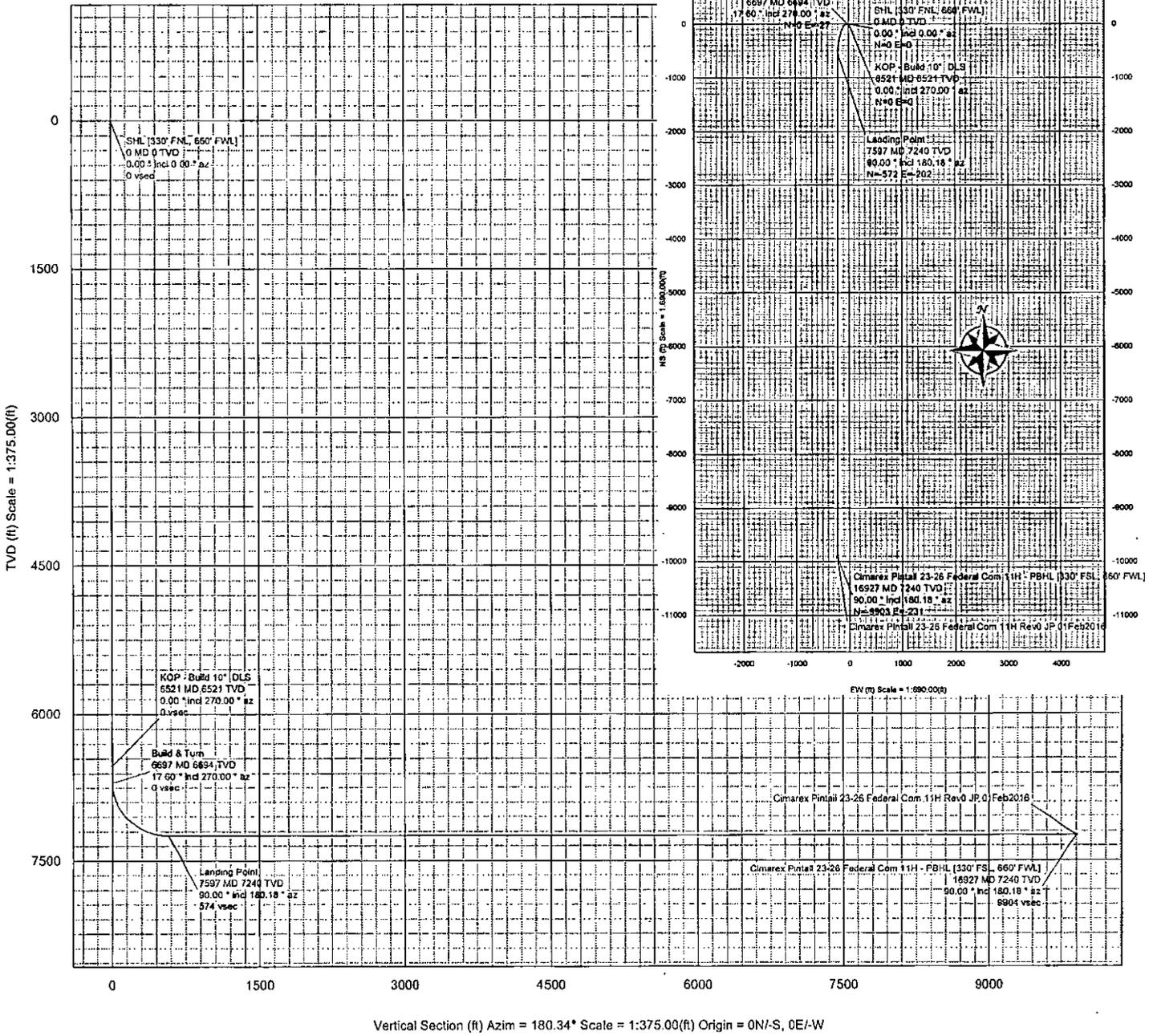


Exhibit F – Co-Flex Hose
Pintail 23-26 Fed Com 11H
Cimarex Energy Company
23 & 26-25S-26E
Eddy County, NM

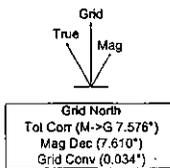


Borehole: Original Borehole	Well: Pintail 23-26 Federal Com 11H	Field: NM Eddy County (NAD 83)	Structure: Pintail 23-26 Federal Com 11H
---------------------------------------	---	--	--

Gravity & Magnetic Parameters Model: HQM 2015 Gp: 69.88 Date: 01-Feb-2018 MagDec: 7.61° FS: 48143.091m Gravity FS: 998.43mgal (\$ 80466 Based)	Surface Location Lat: N 32 7 17.88 Lon: W 104 18 9 23	NAD83 New Mexico State Plane, Eastern Zone, US Feet Northing: 408202.7115 Grid Conv: 0.0341° Easting: 861181.92115 Scale Fact: 0.9999954	Miscellaneous Slot: 11H TVD Ref: Unknown(3112.8ft above 455L) Plan: Rev0 JP 01Feb2018
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Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL [330° FNL, 660° FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
KOP - Build 10° DLS	6521.14	0.00	270.00	6521.14	0.00	0.00	0.00	0.00
Build & Turn	6697.14	17.60	270.00	6694.39	0.83	0.00	-26.82	10.00
Landing Point	7596.59	90.00	180.18	7240.00	576.96	-572.41	-201.70	10.00
Cimarex Pintail 23-26 Federal Com 11H - PBHL [330° FSL, 660° FWL]	16928.98	90.00	180.18	7240.00	9905.44	-9902.75	-231.03	0.00



CONTROLLED	
Plan ref	Cimarex Pintail 23-26 Federal Com 11H Rev0 JP 01Feb2018
Drawing ref	
Copy number	01
Date	01-Feb-2018
1	Check
2	Check
3	Issue
4	Issue
5	Issue
Copy number	01

Cimarex Pintail 23-26 Federal Com 11H Rev0 JP 01Feb2016 Proposal

Geodetic Report

(Non-Def Plan)



Report Date: February 01, 2016 - 10:06 AM
Client: Cimarex
Field: NM Eddy County (NAD 83)
Structure / Slot: Cimarex Pintail 23-26 Federal Com 11H / Cimarex Pintail 23-26 Federal Com 11H
Well: Cimarex Pintail 23-26 Federal Com 11H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Cimarex Pintail 23-26 Federal Com 11H Rev0 JP 01Feb2016
Survey Date: February 01, 2016
Tort / AHD / DDI / ERD Ratio: 107.546° / 9985.958 ft / 6.400 / 1.379
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 7' 17.98409", W 104° 16' 9.23459"
Location Grid N/E Y/X: N 408002.700 ftUS, E 561181.920 ftUS
CRS Grid Convergence Angle: 0.0341°
Grid Scale Factor: 0.99990954
Version / Patch: 2.9.365.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 181.336° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: Unknown
TVD Reference Elevation: 3312.900 ft above MSL
Seabed / Ground Elevation: 3312.900 ft above MSL
Magnetic Declination: 7.610°
Total Gravity Field Strength: 998.4363mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48143.091 nT
Magnetic Dip Angle: 59.860°
Declination Data: February 01, 2016
Magnetic Declination Model: HDGM 2015
North Reference: Grid North
Grid Convergence Used: 0.0341°
Total Corr Mag North->Grid North: 7.5756°
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL [330' FNL, 660' FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	100.00	0.00	270.00	100.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	200.00	0.00	270.00	200.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	300.00	0.00	270.00	300.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	400.00	0.00	270.00	400.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	500.00	0.00	270.00	500.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	600.00	0.00	270.00	600.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	700.00	0.00	270.00	700.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	800.00	0.00	270.00	800.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	900.00	0.00	270.00	900.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	1000.00	0.00	270.00	1000.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	1100.00	0.00	270.00	1100.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	1200.00	0.00	270.00	1200.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	1300.00	0.00	270.00	1300.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	1400.00	0.00	270.00	1400.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	1500.00	0.00	270.00	1500.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	1600.00	0.00	270.00	1600.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	1700.00	0.00	270.00	1700.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	1800.00	0.00	270.00	1800.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	1900.00	0.00	270.00	1900.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	2000.00	0.00	270.00	2000.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	2100.00	0.00	270.00	2100.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	2200.00	0.00	270.00	2200.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	2300.00	0.00	270.00	2300.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	2400.00	0.00	270.00	2400.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23
	2500.00	0.00	270.00	2500.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98 W 104 16	9.23

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S °.′.″)	Longitude (E/W °.′.″)
	2600.00	0.00	270.00	2600.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	2700.00	0.00	270.00	2700.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	2800.00	0.00	270.00	2800.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	2900.00	0.00	270.00	2900.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	3000.00	0.00	270.00	3000.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	3100.00	0.00	270.00	3100.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	3200.00	0.00	270.00	3200.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	3300.00	0.00	270.00	3300.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	3400.00	0.00	270.00	3400.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	3500.00	0.00	270.00	3500.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	3600.00	0.00	270.00	3600.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	3700.00	0.00	270.00	3700.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	3800.00	0.00	270.00	3800.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	3900.00	0.00	270.00	3900.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	4000.00	0.00	270.00	4000.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	4100.00	0.00	270.00	4100.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	4200.00	0.00	270.00	4200.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	4300.00	0.00	270.00	4300.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	4400.00	0.00	270.00	4400.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	4500.00	0.00	270.00	4500.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	4600.00	0.00	270.00	4600.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	4700.00	0.00	270.00	4700.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	4800.00	0.00	270.00	4800.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	4900.00	0.00	270.00	4900.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	5000.00	0.00	270.00	5000.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	5100.00	0.00	270.00	5100.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	5200.00	0.00	270.00	5200.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	5300.00	0.00	270.00	5300.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	5400.00	0.00	270.00	5400.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	5500.00	0.00	270.00	5500.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	5600.00	0.00	270.00	5600.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	5700.00	0.00	270.00	5700.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	5800.00	0.00	270.00	5800.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	5900.00	0.00	270.00	5900.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	6000.00	0.00	270.00	6000.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	6100.00	0.00	270.00	6100.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	6200.00	0.00	270.00	6200.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	6300.00	0.00	270.00	6300.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	6400.00	0.00	270.00	6400.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
	6500.00	0.00	270.00	6500.00	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
KOP - Build 10°	6521.14	0.00	270.00	6521.14	0.00	0.00	0.00	0.00	408002.70	561181.92	N 32 7 17.98	W 104 16 9.23
DLS	6600.00	7.89	270.00	6599.75	0.13	0.00	-5.42	10.00	408002.70	561176.50	N 32 7 17.98	W 104 16 9.30
Build & Turn	6697.14	17.60	270.00	6694.39	0.63	0.00	-26.82	10.00	408002.70	561155.10	N 32 7 17.98	W 104 16 9.55
	6700.00	17.60	269.05	6697.11	0.65	-0.01	-27.68	10.00	408002.69	561154.24	N 32 7 17.98	W 104 16 9.56
	6800.00	20.33	239.07	6791.90	10.55	-9.21	-57.78	10.00	407993.49	561124.14	N 32 7 17.89	W 104 16 9.91
	6900.00	26.65	219.38	6883.70	37.56	-35.54	-86.99	10.00	407967.16	561094.94	N 32 7 17.63	W 104 16 10.25
	7000.00	34.65	207.50	6969.74	80.84	-78.20	-114.41	10.00	407924.51	561067.52	N 32 7 17.21	W 104 16 10.57
	7100.00	43.40	199.78	7047.40	139.10	-135.89	-139.23	10.00	407866.82	561042.70	N 32 7 16.64	W 104 16 10.85
	7200.00	52.53	194.25	7114.31	210.55	-206.86	-160.68	10.00	407795.86	561021.26	N 32 7 15.94	W 104 16 11.10
	7300.00	61.86	189.95	7168.45	293.03	-288.96	-178.11	10.00	407713.77	561003.83	N 32 7 15.13	W 104 16 11.31
	7400.00	71.30	186.33	7208.17	384.03	-379.68	-180.99	10.00	407623.05	560990.94	N 32 7 14.23	W 104 16 11.46
	7500.00	80.80	183.13	7232.26	480.79	-476.28	-198.94	10.00	407526.46	560983.00	N 32 7 13.27	W 104 16 11.55
Landing Point	7596.59	90.00	180.18	7240.00	576.96	-572.41	-201.70	10.00	407430.34	560980.24	N 32 7 12.32	W 104 16 11.58
	7600.00	90.00	180.18	7240.00	580.36	-575.82	-201.70	0.01	407426.94	560980.23	N 32 7 12.29	W 104 16 11.58
	7700.00	90.00	180.18	7240.00	680.34	-675.81	-202.02	0.00	407326.95	560979.91	N 32 7 11.30	W 104 16 11.59
	7800.00	90.00	180.18	7240.00	780.32	-775.81	-202.34	0.00	407226.96	560979.60	N 32 7 10.31	W 104 16 11.59
	7900.00	90.00	180.18	7240.00	880.30	-875.81	-202.65	0.00	407126.97	560979.29	N 32 7 9.32	W 104 16 11.60

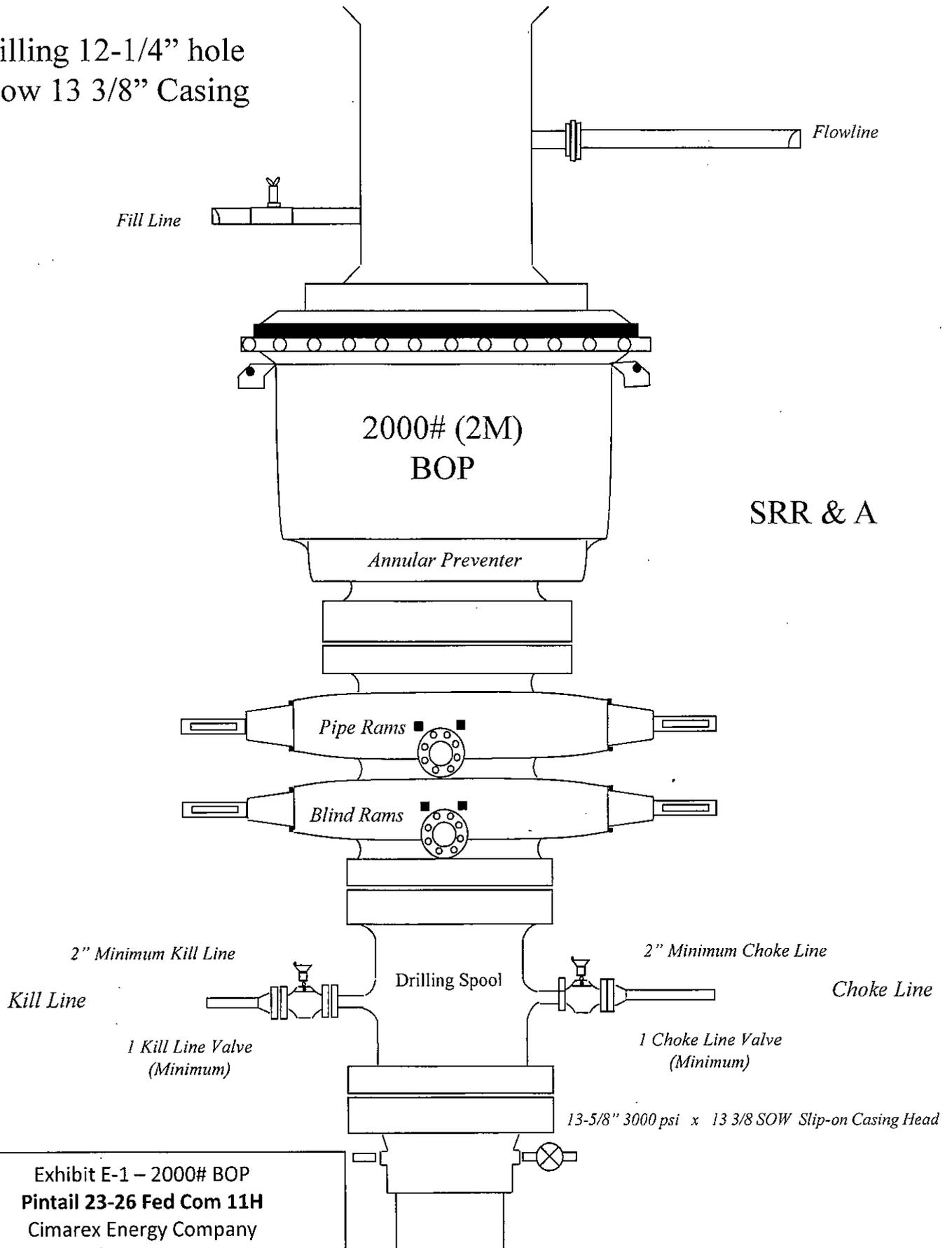
MD	Incl	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	Easting	Latitude	Longitude
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(ftUS)	(ftUS)	(N/S °.')	(E/W °.')
8000.00	90.00	180.18	7240.00	980.28	-975.81	-202.97	0.00	407026.98	560978.97	N 32 7 8.33	W 104 16 11.60
8100.00	90.00	180.18	7240.00	1080.26	-1075.81	-203.28	0.00	408926.98	560978.66	N 32 7 7.34	W 104 16 11.61
8200.00	90.00	180.18	7240.00	1180.24	-1175.81	-203.60	0.00	408827.00	560978.34	N 32 7 6.35	W 104 16 11.61
8300.00	90.00	180.18	7240.00	1280.22	-1275.81	-203.91	0.00	408727.01	560978.03	N 32 7 5.36	W 104 16 11.61
8400.00	90.00	180.18	7240.00	1380.20	-1375.81	-204.23	0.00	408627.02	560977.71	N 32 7 4.37	W 104 16 11.62
8500.00	90.00	180.18	7240.00	1480.18	-1475.81	-204.54	0.00	408527.03	560977.40	N 32 7 3.38	W 104 16 11.62
8600.00	90.00	180.18	7240.00	1580.16	-1575.81	-204.85	0.00	408427.04	560977.09	N 32 7 2.39	W 104 16 11.63
8700.00	90.00	180.18	7240.00	1680.14	-1675.81	-205.17	0.00	408327.05	560976.77	N 32 7 1.40	W 104 16 11.63
8800.00	90.00	180.18	7240.00	1780.12	-1775.81	-205.48	0.00	408227.06	560976.46	N 32 7 0.41	W 104 16 11.64
8900.00	90.00	180.18	7240.00	1880.10	-1875.81	-205.80	0.00	408127.06	560976.14	N 32 6 59.42	W 104 16 11.64
9000.00	90.00	180.18	7240.00	1980.08	-1975.81	-206.11	0.00	408027.07	560975.81	N 32 6 58.43	W 104 16 11.64
9100.00	90.00	180.18	7240.00	2080.06	-2075.81	-206.43	0.00	407927.08	560975.51	N 32 6 57.44	W 104 16 11.65
9200.00	90.00	180.18	7240.00	2180.04	-2175.81	-206.74	0.00	407827.09	560975.20	N 32 6 56.46	W 104 16 11.65
9300.00	90.00	180.18	7240.00	2280.02	-2275.81	-207.05	0.00	407727.10	560974.88	N 32 6 55.47	W 104 16 11.66
9400.00	90.00	180.18	7240.00	2380.00	-2375.81	-207.37	0.00	407627.11	560974.57	N 32 6 54.48	W 104 16 11.66
9500.00	90.00	180.18	7240.00	2479.98	-2475.81	-207.68	0.00	407527.12	560974.26	N 32 6 53.49	W 104 16 11.67
9600.00	90.00	180.18	7240.00	2579.96	-2575.81	-208.00	0.00	407427.13	560973.94	N 32 6 52.50	W 104 16 11.67
9700.00	90.00	180.18	7240.00	2679.94	-2675.81	-208.31	0.00	407327.14	560973.63	N 32 6 51.51	W 104 16 11.68
9800.00	90.00	180.18	7240.00	2779.92	-2775.81	-208.63	0.00	407227.15	560973.31	N 32 6 50.52	W 104 16 11.68
9900.00	90.00	180.18	7240.00	2879.89	-2875.81	-208.94	0.00	407127.16	560973.00	N 32 6 49.53	W 104 16 11.68
10000.00	90.00	180.18	7240.00	2979.87	-2975.81	-209.26	0.00	407027.17	560972.68	N 32 6 48.54	W 104 16 11.69
10100.00	90.00	180.18	7240.00	3079.85	-3075.81	-209.57	0.00	406927.18	560972.37	N 32 6 47.55	W 104 16 11.69
10200.00	90.00	180.18	7240.00	3179.83	-3175.81	-209.88	0.00	406827.19	560972.06	N 32 6 46.56	W 104 16 11.70
10300.00	90.00	180.18	7240.00	3279.81	-3275.81	-210.20	0.00	406727.20	560971.74	N 32 6 45.57	W 104 16 11.70
10400.00	90.00	180.18	7240.00	3379.79	-3375.81	-210.51	0.00	406627.21	560971.43	N 32 6 44.58	W 104 16 11.71
10500.00	90.00	180.18	7240.00	3479.77	-3475.81	-210.83	0.00	406527.22	560971.11	N 32 6 43.59	W 104 16 11.71
10600.00	90.00	180.18	7240.00	3579.75	-3575.81	-211.14	0.00	406427.23	560970.80	N 32 6 42.60	W 104 16 11.71
10700.00	90.00	180.18	7240.00	3679.73	-3675.81	-211.46	0.00	406327.24	560970.48	N 32 6 41.61	W 104 16 11.72
10800.00	90.00	180.18	7240.00	3779.71	-3775.81	-211.77	0.00	406227.25	560970.17	N 32 6 40.62	W 104 16 11.72
10900.00	90.00	180.18	7240.00	3879.69	-3875.81	-212.08	0.00	406127.26	560969.86	N 32 6 39.63	W 104 16 11.73
11000.00	90.00	180.18	7240.00	3979.67	-3975.81	-212.40	0.00	406027.27	560969.54	N 32 6 38.64	W 104 16 11.73
11100.00	90.00	180.18	7240.00	4079.65	-4075.81	-212.71	0.00	405927.28	560969.23	N 32 6 37.65	W 104 16 11.74
11200.00	90.00	180.18	7240.00	4179.63	-4175.81	-213.03	0.00	405827.29	560968.91	N 32 6 36.66	W 104 16 11.74
11300.00	90.00	180.18	7240.00	4279.61	-4275.81	-213.34	0.00	405727.30	560968.60	N 32 6 35.67	W 104 16 11.74
11400.00	90.00	180.18	7240.00	4379.59	-4375.81	-213.66	0.00	405627.31	560968.28	N 32 6 34.69	W 104 16 11.75
11500.00	90.00	180.18	7240.00	4479.57	-4475.81	-213.97	0.00	405527.32	560967.97	N 32 6 33.70	W 104 16 11.75
11600.00	90.00	180.18	7240.00	4579.55	-4575.81	-214.28	0.00	405427.33	560967.65	N 32 6 32.71	W 104 16 11.76
11700.00	90.00	180.18	7240.00	4679.53	-4675.79	-214.60	0.00	405327.34	560967.34	N 32 6 31.72	W 104 16 11.76
11800.00	90.00	180.18	7240.00	4779.51	-4775.79	-214.91	0.00	405227.35	560967.03	N 32 6 30.73	W 104 16 11.77
11900.00	90.00	180.18	7240.00	4879.49	-4875.79	-215.23	0.00	405127.36	560966.71	N 32 6 29.74	W 104 16 11.77
12000.00	90.00	180.18	7240.00	4979.47	-4975.79	-215.54	0.00	405027.37	560966.40	N 32 6 28.75	W 104 16 11.77
12100.00	90.00	180.18	7240.00	5079.45	-5075.79	-215.86	0.00	404927.38	560966.08	N 32 6 27.76	W 104 16 11.78
12200.00	90.00	180.18	7240.00	5179.43	-5175.79	-216.17	0.00	404827.39	560965.77	N 32 6 26.77	W 104 16 11.78
12300.00	90.00	180.18	7240.00	5279.41	-5275.79	-216.49	0.00	404727.40	560965.45	N 32 6 25.78	W 104 16 11.79
12400.00	90.00	180.18	7240.00	5379.39	-5375.79	-216.80	0.00	404627.41	560965.14	N 32 6 24.79	W 104 16 11.79
12500.00	90.00	180.18	7240.00	5479.37	-5475.79	-217.11	0.00	404527.42	560964.83	N 32 6 23.80	W 104 16 11.80
12600.00	90.00	180.18	7240.00	5579.34	-5575.79	-217.43	0.00	404427.43	560964.51	N 32 6 22.81	W 104 16 11.81
12700.00	90.00	180.18	7240.00	5679.32	-5675.79	-217.74	0.00	404327.43	560964.20	N 32 6 21.82	W 104 16 11.81
12800.00	90.00	180.18	7240.00	5779.30	-5775.79	-218.06	0.00	404227.44	560963.88	N 32 6 20.83	W 104 16 11.81
12900.00	90.00	180.18	7240.00	5879.28	-5875.79	-218.37	0.00	404127.45	560963.57	N 32 6 19.84	W 104 16 11.81
13000.00	90.00	180.18	7240.00	5979.26	-5975.79	-218.69	0.00	404027.46	560963.25	N 32 6 18.85	W 104 16 11.82
13100.00	90.00	180.18	7240.00	6079.24	-6075.79	-219.00	0.00	403927.47	560962.94	N 32 6 17.86	W 104 16 11.82
13200.00	90.00	180.18	7240.00	6179.21	-6175.79	-219.31	0.00	403827.48	560962.63	N 32 6 16.87	W 104 16 11.83
13300.00	90.00	180.18	7240.00	6279.20	-6275.79	-219.63	0.00	403727.49	560962.31	N 32 6 15.88	W 104 16 11.83
13400.00	90.00	180.18	7240.00	6379.18	-6375.79	-219.94	0.00	403627.50	560962.00	N 32 6 14.89	W 104 16 11.84
13500.00	90.00	180.18	7240.00	6479.16	-6475.79	-220.26	0.00	403527.51	560961.68	N 32 6 13.91	W 104 16 11.84
13600.00	90.00	180.18	7240.00	6579.14	-6575.79	-220.57	0.00	403427.52	560961.37	N 32 6 12.92	W 104 16 11.84
13700.00	90.00	180.18	7240.00	6679.12	-6675.79	-220.89	0.00	403327.53	560961.05	N 32 6 11.93	W 104 16 11.85

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	13800.00	90.00	180.18	7240.00	6779.10	-8775.78	-221.20	0.00	401227.54	560960.74	N 32 6 10.94	W 104 16 11.85
	13900.00	90.00	180.18	7240.00	6879.08	-8875.78	-221.52	0.00	401127.55	560960.43	N 32 6 9.95	W 104 16 11.86
	14000.00	90.00	180.18	7240.00	6979.06	-8975.78	-221.83	0.00	401027.56	560960.11	N 32 6 8.96	W 104 16 11.86
	14100.00	90.00	180.18	7240.00	7079.04	-7075.78	-222.14	0.00	400927.57	560959.80	N 32 6 7.97	W 104 16 11.87
	14200.00	90.00	180.18	7240.00	7179.02	-7175.78	-222.46	0.00	400827.58	560959.48	N 32 6 6.98	W 104 16 11.87
	14300.00	90.00	180.18	7240.00	7279.00	-7275.78	-222.77	0.00	400727.59	560959.17	N 32 6 5.99	W 104 16 11.87
	14400.00	90.00	180.18	7240.00	7378.98	-7375.78	-223.09	0.00	400627.60	560958.85	N 32 6 5.00	W 104 16 11.88
	14500.00	90.00	180.18	7240.00	7478.96	-7475.78	-223.40	0.00	400527.61	560958.54	N 32 6 4.01	W 104 16 11.88
	14600.00	90.00	180.18	7240.00	7578.94	-7575.78	-223.72	0.00	400427.62	560958.22	N 32 6 3.02	W 104 16 11.89
	14700.00	90.00	180.18	7240.00	7678.92	-7675.78	-224.04	0.00	400327.63	560957.91	N 32 6 2.03	W 104 16 11.89
	14800.00	90.00	180.18	7240.00	7778.90	-7775.78	-224.34	0.00	400227.64	560957.60	N 32 6 1.04	W 104 16 11.90
	14900.00	90.00	180.18	7240.00	7878.88	-7875.78	-224.66	0.00	400127.65	560957.28	N 32 6 0.05	W 104 16 11.90
	15000.00	90.00	180.18	7240.00	7978.86	-7975.78	-224.97	0.00	400027.66	560956.97	N 32 5 59.06	W 104 16 11.91
	15100.00	90.00	180.18	7240.00	8078.84	-8075.78	-225.29	0.00	399927.67	560956.65	N 32 5 58.07	W 104 16 11.91
	15200.00	90.00	180.18	7240.00	8178.82	-8175.78	-225.60	0.00	399827.68	560956.34	N 32 5 57.08	W 104 16 11.92
	15300.00	90.00	180.18	7240.00	8278.80	-8275.78	-225.92	0.00	399727.69	560956.02	N 32 5 56.09	W 104 16 11.92
	15400.00	90.00	180.18	7240.00	8378.77	-8375.78	-226.23	0.00	399627.70	560955.71	N 32 5 55.10	W 104 16 11.92
	15500.00	90.00	180.18	7240.00	8478.75	-8475.78	-226.55	0.00	399527.71	560955.40	N 32 5 54.11	W 104 16 11.93
	15600.00	90.00	180.18	7240.00	8578.73	-8575.78	-226.86	0.00	399427.72	560955.08	N 32 5 53.13	W 104 16 11.93
	15700.00	90.00	180.18	7240.00	8678.71	-8675.78	-227.17	0.00	399327.73	560954.77	N 32 5 52.14	W 104 16 11.94
	15800.00	90.00	180.18	7240.00	8778.69	-8775.77	-227.49	0.00	399227.74	560954.45	N 32 5 51.15	W 104 16 11.94
	15900.00	90.00	180.18	7240.00	8878.67	-8875.77	-227.80	0.00	399127.75	560954.14	N 32 5 50.16	W 104 16 11.94
	16000.00	90.00	180.18	7240.00	8978.65	-8975.77	-228.12	0.00	399027.76	560953.82	N 32 5 49.17	W 104 16 11.95
	16100.00	90.00	180.18	7240.00	9078.63	-9075.77	-228.43	0.00	398927.77	560953.51	N 32 5 48.18	W 104 16 11.95
	16200.00	90.00	180.18	7240.00	9178.61	-9175.77	-228.75	0.00	398827.78	560953.20	N 32 5 47.19	W 104 16 11.96
	16300.00	90.00	180.18	7240.00	9278.59	-9275.77	-229.06	0.00	398727.79	560952.88	N 32 5 46.20	W 104 16 11.96
	16400.00	90.00	180.18	7240.00	9378.57	-9375.77	-229.37	0.00	398627.80	560952.57	N 32 5 45.21	W 104 16 11.97
	16500.00	90.00	180.18	7240.00	9478.55	-9475.77	-229.69	0.00	398527.80	560952.25	N 32 5 44.22	W 104 16 11.97
	16600.00	90.00	180.18	7240.00	9578.53	-9575.77	-230.00	0.00	398427.81	560951.94	N 32 5 43.23	W 104 16 11.97
	16700.00	90.00	180.18	7240.00	9678.51	-9675.77	-230.32	0.00	398327.82	560951.62	N 32 5 42.24	W 104 16 11.98
	16800.00	90.00	180.18	7240.00	9778.49	-9775.77	-230.63	0.00	398227.83	560951.31	N 32 5 41.25	W 104 16 11.98
	16900.00	90.00	180.18	7240.00	9878.47	-9875.77	-230.95	0.00	398127.84	560950.99	N 32 5 40.26	W 104 16 11.99
Cimarex Pintail 23-26 Federal Com 11H - PBHL [330' FSL, 660' FWL]	16926.98	90.00	180.18	7240.00	9905.44	-9902.75	-231.03	0.00	398100.87	560950.91	N 32 5 39.99	W 104 16 11.99

Survey Type: Non-Def Plan
 Survey Error Model: ISCSWA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
 Survey Program: SLB_MWD-STD

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	16926.976	1/100.000	30.000		SLB_MWD-STD	Original Borehole / Cimarex Pintail 23-26 Federal Com 11H Rev0 JP

Drilling 12-1/4" hole
below 13 3/8" Casing



SRR & A

Exhibit E-1 – 2000# BOP
Pintail 23-26 Fed Com 11H
Cimarex Energy Company
23 & 26-25S-26E
Eddy County, NM

Drilling 8-3/4" hole
below 9 5/8" Casing

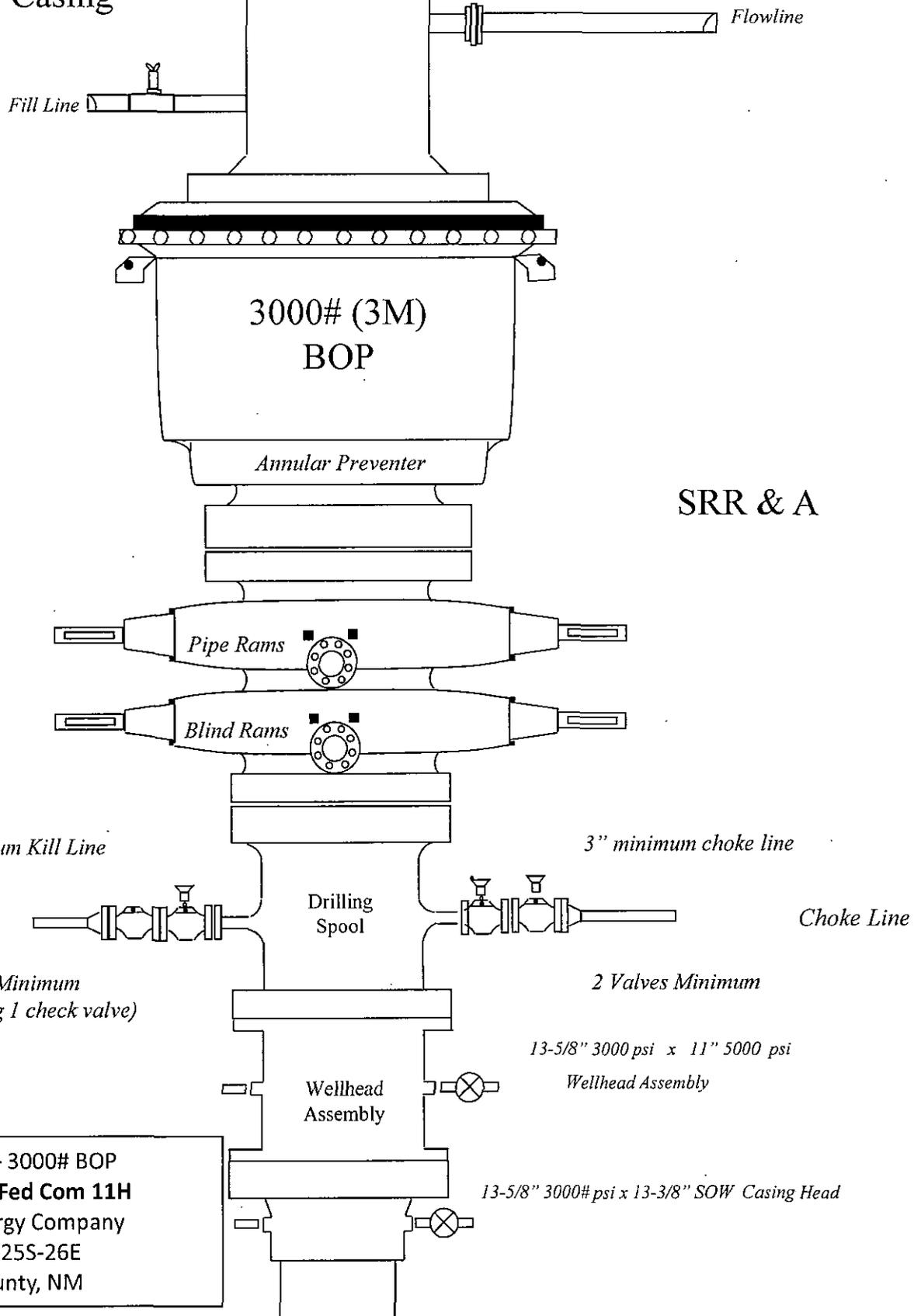
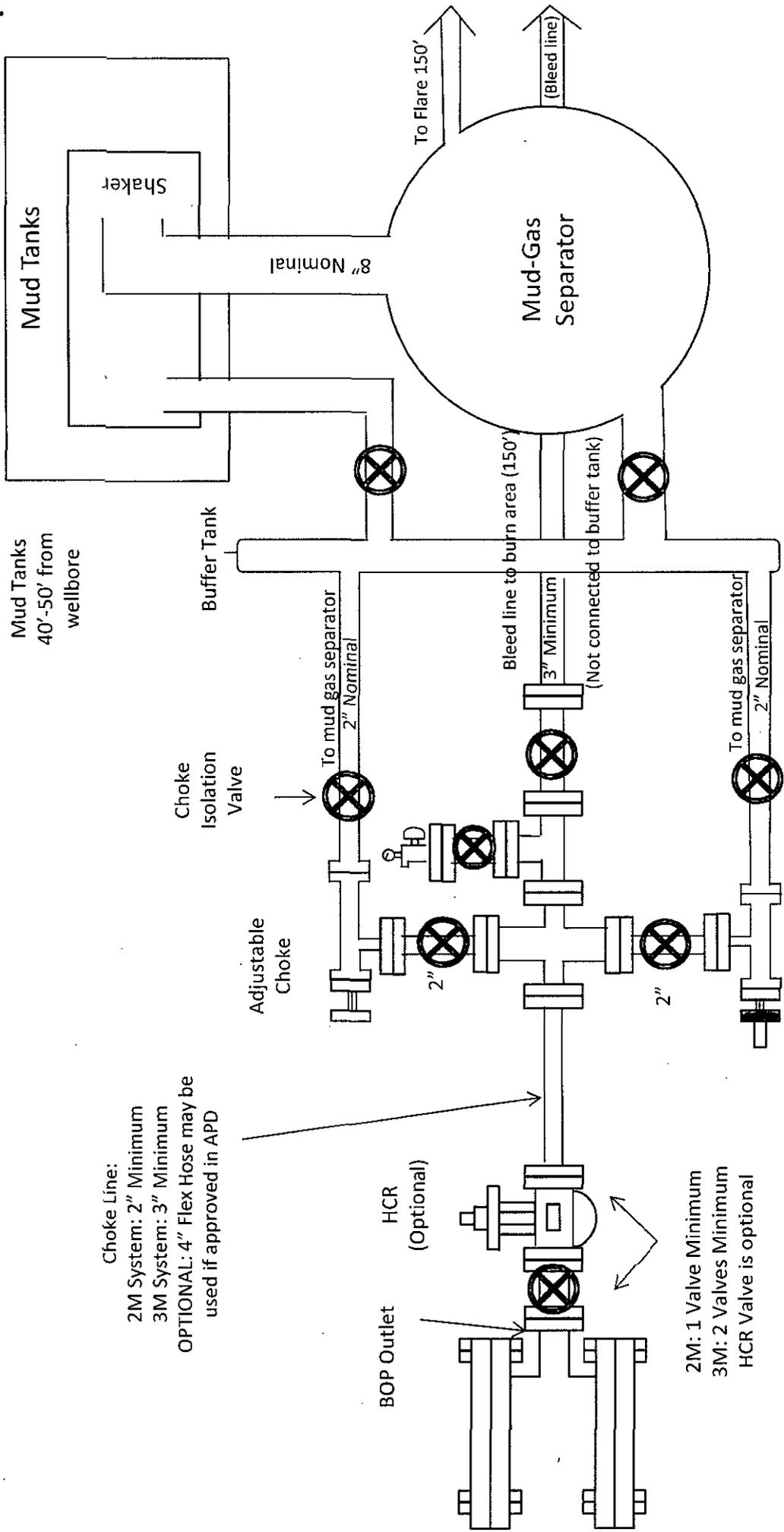


Exhibit E-1 – 3000# BOP
Pintail 23-26 Fed Com 11H
Cimarex Energy Company
23 & 26-25S-26E
Eddy County, NM



Choke Line:
 2M System: 2" Minimum
 3M System: 3" Minimum
 OPTIONAL: 4" Flex Hose may be used if approved in APD

2M: 1 Valve Minimum
 3M: 2 Valves Minimum
 HCR Valve is optional

**Drilling Operations
 Choke Manifold
 2M/3M Service**

Exhibit E-1 – Choke Manifold Diagram
Pintail 23-26 Fed Com 11H
 Cimarex Energy Company
 23 & 26-25S-26E
 Eddy County, NM

Hydrogen Sulfide Drilling Operations Plan

Pintail 23-26 Federal Com 11H

Cimarex Energy Co.

UL: D Sec. 23, 25S, 26E

Eddy Co., NM

- 1 All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety instructor to the following:
 - A. Characteristics of H₂S
 - B. Physical effects and hazards
 - C. Principal and operation of H₂S detectors, warning system and briefing areas.
 - D. Evacuation procedure, routes and first aid.
 - E. Proper use of safety equipment & life support systems
 - F. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30 minute pressure demand air packs.

- 2 H₂S Detection and Alarm Systems:
 - A. H₂S sensors/detectors to be located on the drilling rig floor, in the base of the sub structure/cellar area, on the mud pits in the shale shaker area. Additional H₂S detectors may play placed as deemed necessary.
 - B. An audio alarm system will be installed on the derrick floor and in the top doghouse.

- 3 Windsock and/or wind streamers:
 - A. Windsock at mudpit area should be high enough to be visible.
 - B. Windsock on the rig floor and / or top doghouse should be high enough to be visible.

- 4 Condition Flags and Signs
 - A. Warning sign on access road to location.
 - B. Flags to be displayed on sign at entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates danger (H₂S present in dangerous concentration). Only H₂S trained and certified personnel admitted to location.

- 5 Well control equipment:
 - A. See exhibit "E-1"

- 6 Communication:
 - A. While working under masks chalkboards will be used for communication.
 - B. Hand signals will be used where chalk board is inappropriate.
 - C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.

- 7 Drillstem Testing:

No DSTs r cores are planned at this time.

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

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

H₂S Contingency Plan
Pintail 23-26 Federal Com 11H
Cimarex Energy Co.
UL: D Sec. 23, 25S, 26E
Eddy Co., NM

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must:

- « Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- « Evacuate any public places encompassed by the 100 ppm ROE.
- « Be equipped with H₂S monitors and air packs in order to control the release.
- « Use the "buddy system" to ensure no injuries occur during the response.
- « Take precautions to avoid personal injury during this operation.
- « Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- « Have received training in the:
 - Detection of H₂S, and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas.

Characteristics of H₂S and SO₂

Please see attached International Chemical Safety Cards.

Contacting Authorities

Cimarex Energy Co. of Colorado's personnel must liaise with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Cimarex Energy Co. of Colorado's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

H₂S Contingency Plan Emergency Contacts
Pintail 23-26 Federal Com 11H
 Cimarex Energy Co.
 UL: D Sec. 23, 25S, 26E
 Eddy Co., NM

Company Office			
Cimarex Energy Co. of Colorado		800-969-4789	
Co. Office and After-Hours Menu			
Key Personnel			
Name	Title	Office	Mobile
Larry Seigrist	Drilling Manager	432-620-1934	580-243-8485
Doug McQuitty	Drilling Superintendent	432-620-1933	806-640-2605
Scott Lucas	Drilling Superintendent	432-620-1989	432-894-5572
Roy Shirley	Construction Superintendent		432-634-2136
Artesia			
Ambulance		911	
State Police		575-746-2703	
City Police		575-746-2703	
Sheriff's Office		575-746-9888	
Fire Department		575-746-2701	
Local Emergency Planning Committee		575-746-2122	
New Mexico Oil Conservation Division		575-748-1283	
Carlsbad			
Ambulance		911	
State Police		575-885-3137	
City Police		575-885-2111	
Sheriff's Office		575-887-7551	
Fire Department		575-887-3798	
Local Emergency Planning Committee		575-887-6544	
US Bureau of Land Management		575-887-6544	
Santa Fe			
New Mexico Emergency Response Commission (Santa Fe)		505-476-9600	
New Mexico Emergency Response Commission (Santa Fe) 24 Hrs		505-827-9126	
New Mexico State Emergency Operations Center		505-476-9635	
National			
National Emergency Response Center (Washington, D.C.)		800-424-8802	
Medical			
Flight for Life - 4000 24th St.; Lubbock, TX		806-743-9911	
Aerocare - R3, Box 49F; Lubbock, TX		806-747-8923	
Med Flight Air Amb - 2301 Yale Blvd S.E., #D3; Albuquerque, NM		505-842-4433	
SB Air Med Service - 2505 Clark Carr Loop S.E.; Albuquerque, NM		505-842-4949	
Other			
Boots & Coots IWC		800-256-9688	or 281-931-8884
Cudd Pressure Control		432-699-0139	or 432-563-3356
Halliburton		575-746-2757	
B.J. Services		575-746-3569	

BEGINNING AT THE INTERSECTION OF OLD CAVERN HIGHWAY AND AN EXISTING ROAD TO THE WEST (LOCATED IN THE NW 1/4 OF SECTION 18, T25S, R27E, N.M.P.M.), PROCEED IN A WESTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 0.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN LEFT AND PROCEED IN A WESTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 1.3 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD FOR THE PINTAIL 23-26 FEDERAL COM 10H TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 564' TO THE PROPOSED PINTAIL 23-26 FEDERAL COM 10H & THE BEGINNING OF THE PROPOSED ACCESS TO THE WEST; FOLLOW ROAD FLAGS IN A WESTERLY DIRECTION APPROXIMATELY 740' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM THE INTERSECTION OF OLD CAVERN HIGHWAY AND AN EXISTING ROAD TO THE WEST (LOCATED IN THE NW 1/4 OF SECTION 18, T25S, R27E, N.M.P.M.) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 2.4 MILES.

CIMAREX ENERGY CO.

**PINTAIL 23-26 FEDERAL COM 11H
330' FNL 860' FWL
NW 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO**

SURVEYED BY	DATE	REVISED BY	DATE
C.J., A.H.	01-20-16		
DRAWN BY	DATE		
Z.H.F.	01-26-16		
SCALE			

ROAD DESCRIPTION



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

BEGINNING AT THE INTERSECTION OF OLD CAVERN HIGHWAY AND AN EXISTING ROAD TO THE WEST (LOCATED IN THE NW 1/4 OF SECTION 18, T25S, R27E, N.M.P.M.), PROCEED IN A WESTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 0.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN LEFT AND PROCEED IN A WESTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 1.2 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 103' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM THE INTERSECTION OF OLD CAVERN HIGHWAY AND AN EXISTING ROAD TO THE WEST (LOCATED IN THE NW 1/4 OF SECTION 18, T25S, R27E, N.M.P.M.) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 2.1 MILES.

CIMAREX ENERGY CO.

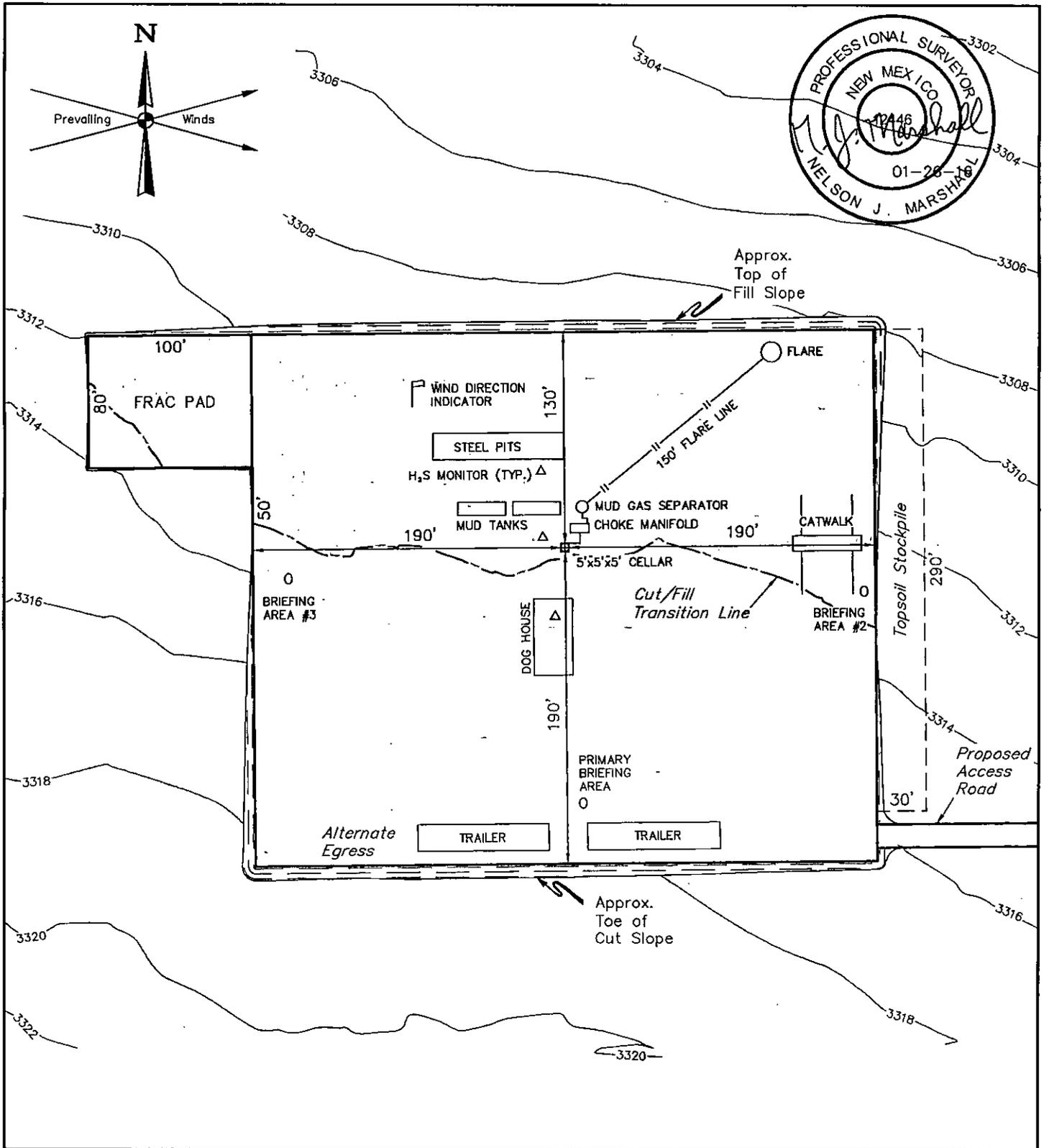
**PINTAIL 23-26 FEDERAL COM BATTERY
N 1/2 N 1/2, SECTION 23, T25S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO**

SURVEYED BY	DATE	REVISED BY	DATE
CJ, A.H.	01-20-16		
DRAWN BY	DATE		
Z.H.F.	01-25-16		

ROAD DESCRIPTION



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



NOTES:
 • Contours shown at 2' intervals.

CIMAREX ENERGY CO.

PINTAIL 23-26 FEDERAL COM 11H
 330' FNL 860' FWL
 NW 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

SURVEYED BY	DATE	REVISED BY	DATE
C.J., A.H.	01-20-16		
DRAWN BY	DATE		
T.E.	01-25-16		
SCALE	1" = 80'		



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

TYPICAL RIG LAYOUT EXHIBIT D

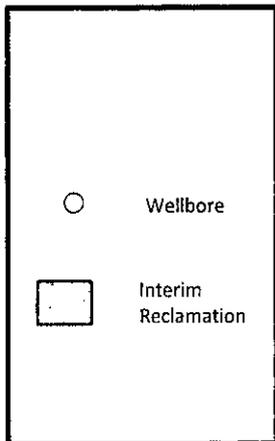
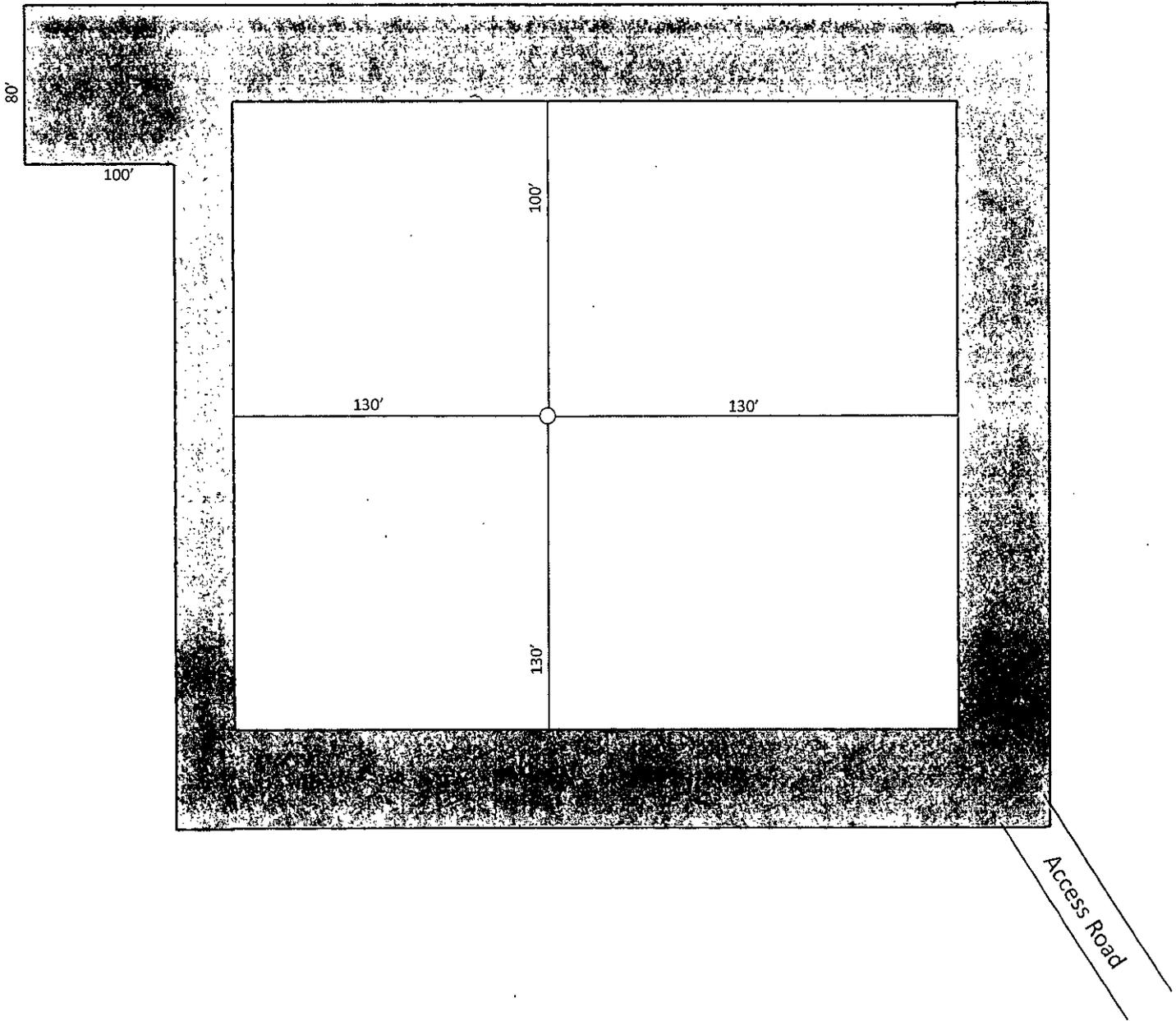


Exhibit D-1
 Interim Reclamation Diagram
Pintail 23-26 Fed Com 11H
 Cimarex Energy Company
 23 & 26-25S-26E
 Eddy County, NM

Pintail 23-26 Fed Com 11H

Cimarex Energy Co.

UL: D, Sec. 23, 25S, 26E

Eddy Co., NM

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 is submitted in this surface use plan without approval. If any other disturbance is needed after the APD is approved, a BLM approved sundry notice or right of way application will be submitted for approval prior to any new surface disturbance.

1. Existing Roads:

- Please see Exhibit B and C-1 for existing access road planned to be used to access the proposed project.
- Cimarex Energy will improve or maintain existing roads in a condition the same as or better than before the operations began. Cimarex Energy will repair pot holes, etc. All existing structures on the entire access route such as cattle guards, other range improvement projects, culverts, etc. will be properly repaired or replaced if they are damaged or have deteriorated beyond practical use.
- Cimarex Energy will prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or other events.
- Cimarex Energy will obtain written BLM approval prior to the application of surfactants, binding agents, or other dust suppression chemicals on the roadways.
- The maximum width of the driving surface will be 14'. The road will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1' deep with 3:1 slopes. The driving surface will be made of 6" rolled and compacted caliche.
- Existing access road route to the proposed project is depicted on the public access point map if applicable. 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 the surface use plan.

BEGINNING AT THE INTERSECTION OF OLD CAVERN HIGHWAY AND AN EXISTING ROAD TO THE WEST (LOCATED IN THE NW 1/4 OF SECTION 18, T25S, R27E, N.M.P.M.), PROCEED IN A WESTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 0.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN LEFT AND PROCEED IN A WESTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 1.3 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD FOR THE PINTAIL 23-26 FEDERAL COM 10H TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 564' TO THE PROPOSED PINTAIL 23-26 FEDERAL COM 10H & THE BEGINNING OF THE PROPOSED ACCESS TO THE WEST; FOLLOW ROAD FLAGS IN A WESTERLY DIRECTION APPROXIMATELY 740' TO THE PROPOSED LOCATION.

2. New or Reconstructed Access Roads:

- A new road will be constructed for this project.
- Cimarex Energy plans to construct 740.04' of new on-lease access road to service the well. The planned access road does not cross lease boundaries, a right of way grant will not be acquired from the BLM.
- The maximum width of the driving surface will be 14'. The road will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1' deep with 3:1 slopes. The driving surface will be made of 6" rolled and compacted caliche.
- Proposed and existing access road route to the proposed wellsite is depicted on Exhibit C-2. Improvements to the driving surface will be done where necessary. No new surface disturbance will be done without prior approval from the BLM.
- The operator will prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or other events.

3. Well Radius Map

Please see Exhibit A for wells within one mile of the proposed well SHL and BHL.

Pintail 23-26 Fed Com 11H

Cimarex Energy Co.

UL: D, Sec. 23, 25S, 26E

Eddy Co., NM

4. Proposed or Existing Production Facilities:

- If on completion this well is a producer, a tank battery will be used and the necessary production equipment will be installed and production will be sent to the Pintail 23-26 Federal Com.
- Please see Exhibit P and Exhibit P-1 for location of the off pad central tank battery.
- Cimarex Energy proposes to install two 4 inch buried HP steel down existing lease road to the Pintail 23-26 Federal Com battery.
- Two lease roads will be constructed to access the battery. Eastern off lease road: 100.6' and Western on lease road: 102.9'. Please see Exhibit P-2.
- Allocation will be based on well test. Flowline route is on lease, please see Exhibit G-1. Any changes to on lease route will be submitted via sundry notice. If route is off lease, a right of way will be submitted to the BLM for approval.

5. Gas Pipeline

- Cimarex plans to construct an off lease gas pipeline to service this battery location.
- Please see Exhibit G-1 for pipeline routes.
- Specification of pipelines: 12" Steel for Gas and 4" steel for Buy Back from purchaser.
- Lines will be buried and will require a construction width of 30'.
- Length of Gas line: 657'
- Length of Buy Back line: 705.62'
- MAOP: Gas line: 1440 psi, Buy Back line : 1440 psi
- Anticipated working pressure: Gas line 300 psi, Buy Back line 1100 psi.

6. Flowlines

- Cimarex Energy plans to construct on lease flowlines to service the well.
- Specifications of Polyline: 1 HP steel for oil, gas, and water production. 1 HP steel for gas lift.
- Both lines will be buried 10'-20' North of the access road.
- Length of Gas Lift Line: 1483.79'
- Length of Flowlines: 1483.79'
- MAOP: 1500 psi.
- Anticipated working pressure: flowlines 200-300 psi, gas lift 1100 psi.

7. Salt Water Disposal

- Cimarex plans to construct an off lease SWD pipeline to service this battery location.
- SWD well name: Liberty 24 Fed Com, Well Number: 1 SWD
- Operator of SWD: Cimarex Energy Co. Of Colorado
- API of SWD well: 30-015-33094
- SWD Permit #: SWD-1216
- Please see Exhibit G-3 for pipeline route.
- Specification of pipeline: 10" poly
- Line will not be buried and will require a construction width of 30'.
- Length: 1362'
- MAOP: 125 psi.
- Anticipated working pressure: 100 psi.
- Pipeline will be constructed 20-30' from and parallel to an existing route.

8. Electric Lines

- Cimarex Energy plans to construct a new on lease electric line to service the well.
- Cimarex Energy plans to install an on lease overhead electric line from the proposed well to an existing overhead electric line at the Pintail 23-26 Federal Com. The proposed electric line will be 1990.4' in length. 5-40' poles, 12,470 volt, 4 wire, 3 phase. The electric line will exit off the East side of the well location and travel East for 1990.4' along the access road until it would intercept the existing electric line. The electric line will be routed on the south side of the access road and 25-35' from and parallel to the access road. Please see Exhibit H for proposed route information.

9. Water

Cimarex Energy plans to purchase fresh water from a 3rd party company. A local commercial source will truck water utilizing the access road. Please see Exhibit C-1 for access road route.

Pintail 23-26 Fed Com 11H

Cimarex Energy Co.

UL: D, Sec. 23, 25S, 26E

Eddy Co., NM

10. Construction Material

If possible, native caliche will be obtained from the excavation of drill site. The primary way of obtaining caliche will be by "turning over" the location. This means caliche will be obtained from the actual well site. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2400 cu yds is the max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel:

- The top 6 inches of topsoil is pushed off and stockpiled along the side of the location.
- An approximate 120' x 120' area is used within the proposed well site to remove caliche.
- Subsoil is removed and piled alongside the 120' by 120' area within the pad site.
- When caliche is found, material will be stockpiled within the pad site to build the location and road.
- Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road.
- Once well is drilled, the stockpiled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stockpiled outside of the well pad. Topsoil will be stockpiled along the edge of the pad as depicted in Exhibit D – Rig Layout Diagram.

In the event that no caliche is found onsite, caliche will be hauled in from BLM-approved caliche pit.

11. Methods of Handling Waste

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

12. Ancillary Facilities:

No camps or airstrips to be constructed.

13. Well Site Layout:

- Exhibit D: Rig Layout
- Exhibit D-2: Well Site layout plat
- Mud pits in the closed circulation system will be steel pits and the cuttings will be stored in steel containment pits.
- Cuttings will be stored in steel pits until they are hauled to a state-approved disposal facility.
- If the well is a producer, those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements. Exhibit D-1: Interim Reclamation Diagram.

Pintail 23-26 Fed Com 11H

Cimarex Energy Co.

UL: D, Sec. 23, 25S, 26E

Eddy Co., NM

14. Interim and Final Reclamation

- Rehabilitation of the location will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or a dry hole.
- In areas planned for interim and final reclamation, surfacing materials will be removed and returned to a mineral pit or recycled to repair or build roads and well pads.
- Drainage systems, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may need to be modified in certain circumstances to prevent inundation of the location's pad and surface facilities. After the area has been shaped and contoured, topsoil from the spoil pile will be placed over the disturbed area to the extent possible. The area will be reclaimed and seeded within 6 months of well completion.
- If the well is a dry hole, the pad and road area will be recontoured to match the existing terrain. Topsoil will be spread to the extent possible. The location will be reclaimed and seeded within 6 months of well abandonment.
- Should the well be a producer, those areas of the location not essential to production facilities and operations will be reclaimed and seeded within 6 months of well completion. Exhibit D-1 illustrates the proposed Interim Reclamation.

15. Surface Ownership:

- The wellsite is on surface owned by Bureau of Land Management, 620 E Greene St. Carlsbad, NM 88220, 575-234-5972.
- A copy of Surface Use Agreement has been given to the surface owner.
- The land is used mainly for farming, cattle ranching, recreational use, and oil and gas production.

16. Other Information:

- Topography consists of a sloping plane with loose tan sands. Vegetation is mainly yucca, mesquite and shin oak.
- Archeological survey will be conducted for the well pad/location and proposed road and the arch report will be filed with the BLM.
- There are no known dwellings within 1½ miles of this location.

17. On Site Notes and Information:

Onsite Results: Onsite with BLM, CHEMM, & Cimarex (Barry Hunt) on 1/14/16 for wells and off site battery. Location was moved 200 ft. east due to northwest corner falling off contour to a draw area to the north. V-Door East. Frac pad northwest corner (West). Top soil east. Interim reclamation: All sides. Berm pad. Access road southeast corner, east, to southwest corner of the #10H well. Staked a buried Gas lift/Production pipeline and E-line to follow access road to the battery and proposed E-line at the 10H. PINTAIL FEDERAL COM 23-26 OFF-SITE BATTERY. 300' x 200' plus 180' x 30' flare line off northeast corner. Location is southeast of 10H well, alongside Cimarex lease road and utility corridor all on north side of lease road. Location begins just east of the beginning of the 10H access road. Battery to be bermed. The battery will have an E-line tying into the proposed line to 10H at northeast corner. There will also be buried gas sales line and buy back line (Two lines in same ditch) from battery, east, following lease road and pipelines, to the existing gas line valve. There will be a gas lift/production line (two lines in one ditch) from battery to the 10H & 11H wells following the proposed access roads. There will be a 4" surface SWD line from the battery, east, following the lease road and pipelines to the existing SWD line valve. There will also be a short access road off southeast corner to lease road and one off southwest corner to lease road (utilizing the proposed 10H access road).

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Cimarex Energy Co
LEASE NO.:	NM90476
WELL NAME & NO.:	10H-Pintail 23 26 Fed Com
SURFACE HOLE FOOTAGE:	330'/N & 1980'/W
BOTTOM HOLE FOOTAGE:	330'/S & 1980'/W, sec. 26
LOCATION:	Section 23, T. 25 S., R. 26 E., NMPM
COUNTY:	Eddy County, New Mexico

TABLE OF CONTENTS

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

- General Provisions**
- Permit Expiration**
- Archaeology, Paleontology, and Historical Sites**
- Noxious Weeds**
- Special Requirements**
 - Communitization Agreement
 - Cave/Karst
- Construction**
 - Notification
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- Road Section Diagram**
- Drilling**
 - Cement Requirements
 - High Cave/Karst
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- Production (Post Drilling)**
 - Well Structures & Facilities
 - Pipelines
 - Electric Lines
- Interim Reclamation**
- Final Abandonment & Reclamation**

I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

IV. NOXIOUS WEEDS

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

V. SPECIAL REQUIREMENT(S)

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.

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 entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.

- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g. caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised. (Any access road crossing the berm cannot be lower than the berm height.)

Tank Battery Liners and Berms:

Tank battery locations and all facilities 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.

Powerlines:

Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems. Larger powerlines will adjust their pole spacing to avoid cave and karst features. The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction and no further construction will be done until clearance has been issued by the Authorized Officer. Special restoration stipulations or realignment may be required.

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

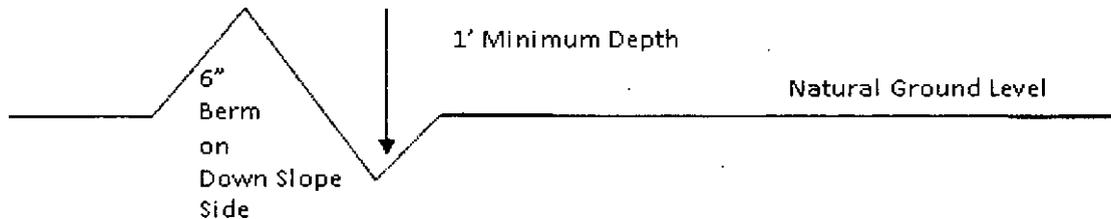
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill out-sloping and in-sloping, 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

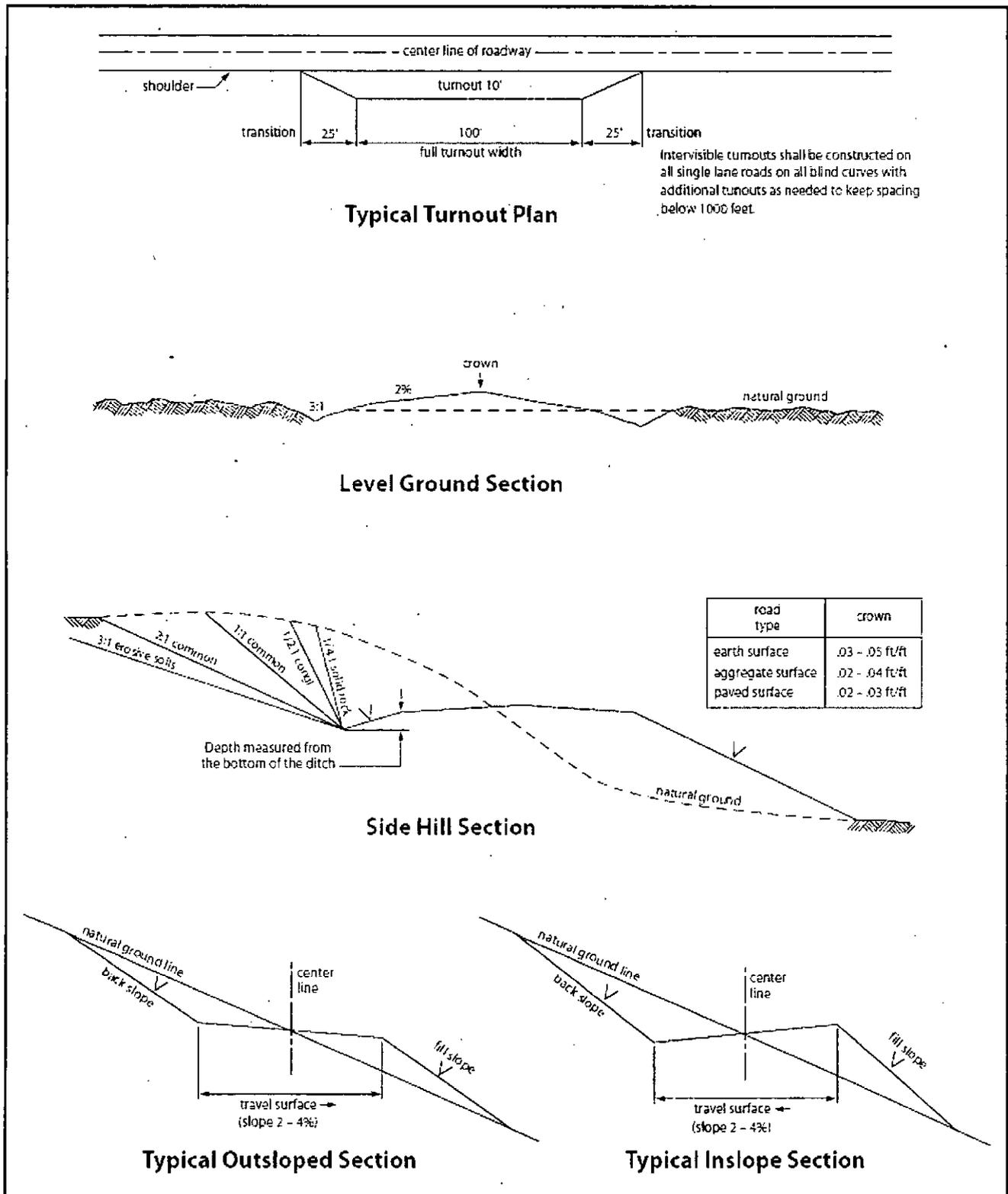


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or F5 local and higher-class roads.

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 (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, 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. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
4. **The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.**

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. 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.).

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

Wait on cement (WOC) for Water Basin:

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

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

Possibility of water flows in the Salado and Castile.

Possibility of lost circulation in the Delaware.

HIGH CAVE/KARST

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. ON A THREE STRING DESIGN; 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 450 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. Excess calculates to 14% - Additional cement may be required.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**
3. The minimum required fill of cement behind the 7 inch production casing is:
- Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. **Excess calculates to 22% - Additional cement may be required.**

Formation below the 7" 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.

4. The minimum required fill of cement behind the 4-1/2 inch production liner is:
- Cement should tie-back to the top of the liner. Operator shall provide method of verification. **Excess calculates to negative 4% - Additional cement will be required.**
4. 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 RP 53 Sec. 17.

2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M) psi.**
4. 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 **3000 (3M) psi.**
5. 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.**
6. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer.** The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (18 hours) or potash (24 hours) or 500 pounds compressive strength,

whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- d. The results of the test shall be reported to the appropriate BLM office.
- e. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- 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.

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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.

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

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

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

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

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

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

18. Escape Ramps - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps,

ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

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

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

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

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

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

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

4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.

5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006 . The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

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

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

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

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

10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all

operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

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

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 1 for Loamy Sites

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 shall 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 shall be either certified or registered seed. The seed container shall be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed shall be planted using a drill equipped with a depth regulator to ensure proper depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture shall be evenly and uniformly planted over the disturbed area (small/heavier seeds have a tendency to drop the bottom of the drill and are planted first). Holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed shall be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre shall be doubled. The seeding shall be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth may 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>
Plains lovegrass (Eragrostis intermedia)		0.5
Sand dropseed (Sporobolus cryptandrus)	1.0	
Sideoats grama (Bouteloua curtipendula)	5.0	
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.