Form 3160-3 (June 2015)			OC RW ALC	TESIA DISTRICT	FORM AP OMB No. Expires Janu	1004-0137	
*	DEPARTMEN	ED STATES OF THE INTERIC AND MANAGEME	DR N	AY 05 2016	5, Lease Serial No. Other: Fee; Other; NMN NMNM090476	JM019423; SHL\	BHL:
	APPLICATION FOR PER	MIT TO DRILL O	R REENTER	RECEIVED	6. If Indian, Allotee or 7	ribe Name	
la, Type of Work		REENTER	······································	<u></u>	7. If Unit or CA Agreem	ent, Name and N	0.
16. Type of Well	Gas Well	Other			8. Lease Name and Well	1 No,	
Ic. Type of Completion	Hydraulic Fracturing	Single Zone	Multiple Zone		Pintail 23-26 Fed Co	m 10H	
2. Name of Operator	······			<u> </u>	9, API Well No.	1 -	
Cimarex Energy Co.					- 30-015	<u>- 437</u>	<u>23</u>
3a. Address		3b. Phone No	5. (include area code)		10. Field and Pool, or E		
202 S, Cheyenne Av	e., Ste 1000, Tulsa, OK 74103	918-585-11	00	546	E DRAW :	Wolfca	mp
4. Location of Well (Report At Surface	t location clearly and in accordan 330 FNL & 1980 FWL		ments.*)		11. Sec., T. R.M. or Bik	:. and Survey or A	vrea 96
At proposed prod, Zone	330 FSL & 2300 FWL	Sec. 26-25S-26E	Wolfcamp		23, 258, 26E		
14 Distance in miles and d	irection from nearest town or post o	flice*			12, County or Parish	13, State	·
Carlsbad NM is 21.2 m	iles Northerly				Eddy	NM	
 Distance from propos nearest property or lea nearest drig, unit line 	ise line, ft. (Also to	16. No of acres in lease NMNM090476=360.0 Fee=0.00 acres NMNM019423=2560		17. Spacing Unit dedicated to	this well	320.00	
 Distance from propos nearest well, drilling, applied for, on this lease. 	completed, Pintail 23-26	19. Proposed Depth Pilot Hole TD: N/A 19,325 MD	9,650 TVD	20. BLM/BIA Bond No. in fi	le NMB001187; N	IMB001188	ce ter form
	her DF, KDB, RT, GL, etc.) 299 GR	22. Approximate date we		23. Estimated duration	35 days		e Plan noti veb site un of the GCF
			24. Attachments	<u> </u>			apture the we copy o
The following, completed i	n accordance with the requirements	of Onshore Oil and Gas C	rder No. 1, and the Hyd	raulic Fracturing rule per 43 CF	R 3162.3-3 (as applicable)		No SC
1. Well plat certified by	a registered surveyor		4. Bond to cove	the operations unless covered	by an existing bond on file (s	ee Item 20 above	CD Gas posted i
2. A Drilling Plan	(felse lound) i al di al l'anna	Contained and the	5. Operator Cert				DC DC P
	if the location is on National Forest with the appropriate Forest Service (Such other sit 	e specific information and/or pl	ans as may be required by the	BLM.	The NMOCD Ga nas been posted Announcements.
25, Signature	h. Nil	Name	(Printed-Typed)		Date		*≓≌≷
	WNR		Ryan He	mpton	2/5/1	6	<u> </u>
Title	E'S.	-					
	George MacDone	l	During a left on a la		MAY	2 2016	<u>.</u>
		<u> </u>	(Printed'Typed)		Date		<u>.</u>
Title Application approval does	FIELD MANAGER not warrant or certify that the applic	Office int holds legal or equitable	e title to those rights in t	HELD OFFICE			ARS
Conditions of approval, if a	my, are attached.			API			
Title 1811 S.C. Section 10	01 and Title 43 U.S.C. Section 1212	, make it a crime for any r	erson knowingly and w	illfully to make to any departme	nt or agency of the United		

Causdan connonen wa

Approval Subject to General Requirements & Special Stipulations Attached

SEE ATTACHED FOR CONDITIONS OF APPROVAL

,

*(Instructions on page 2)

Operator Certification Statement **Pintail 23-26 Fed Com 10H** Cimarex Energy Co. UL: C, 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. <u>NMB001187; NMB001188</u>.

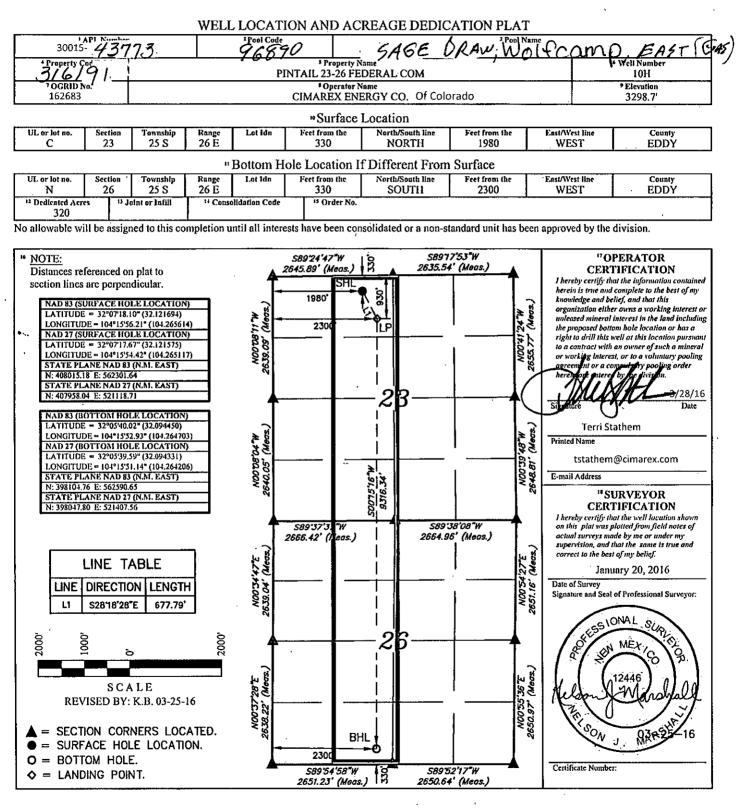
Executed this 5 day of February NAME: Aricka Easterling

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., Artesin, 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



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 TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 564' TO THE PROPOSED LOCATION.

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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 2.3 MILES.

		CIM	<u>AREX EN</u>	ERGY CO.	
		NE 1/4 NW 1/4, 5	330' FNL 19 SECTION 2	3, T25S, R26E, N	
		EDDY	COUNTY, I	NEW MEXICO	
		SURVEYED BY	DATE	REVISED BY	DATE
		C.J., A.H.	01-20-16		
4 - •		DRAWN BY	DATE		
	UELS, LLC	Z.H.F.	<u>01-</u> 26-16		
	Corporate Office * 85 South 200 East	SCALE			
INTAH	Vernal, UT 84078 * (435) 789-1017	RO	AD DES	CRIPTION	

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.

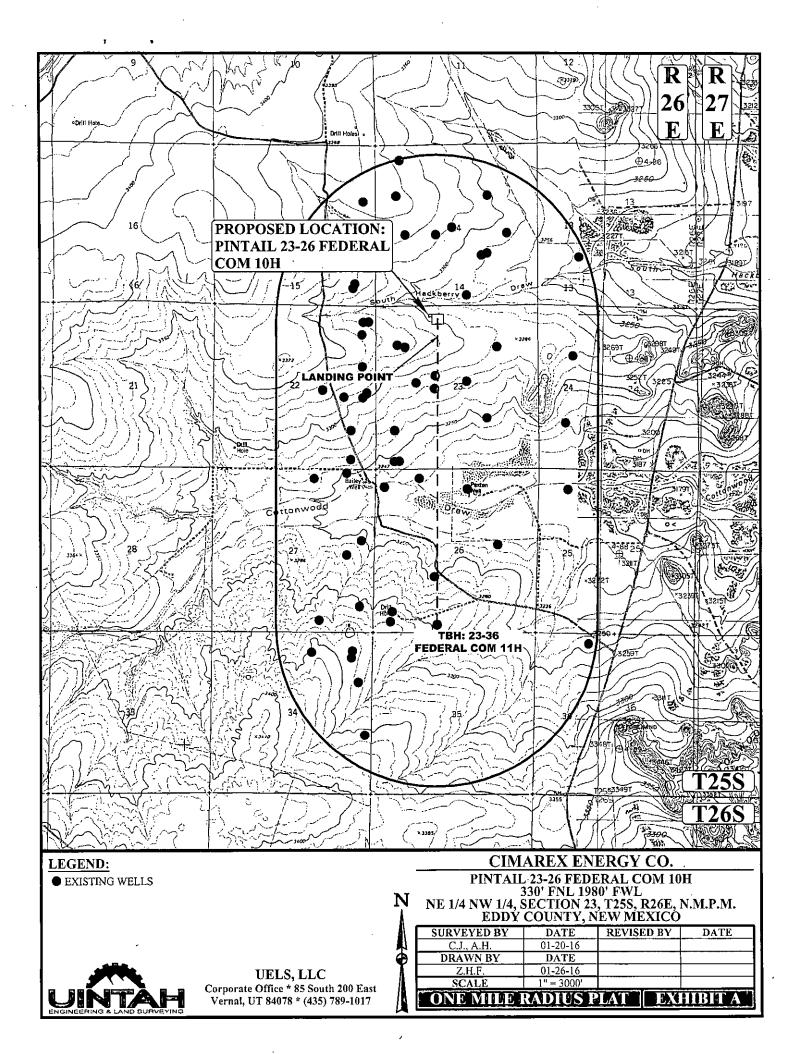
PINTAIL 23-26 FEDERAL COM BATTERY N 1/2 N 1/2, SECTION 23, T25S, R26E, N.M.P.M. EDDY COUNTY, NEW MEXICO

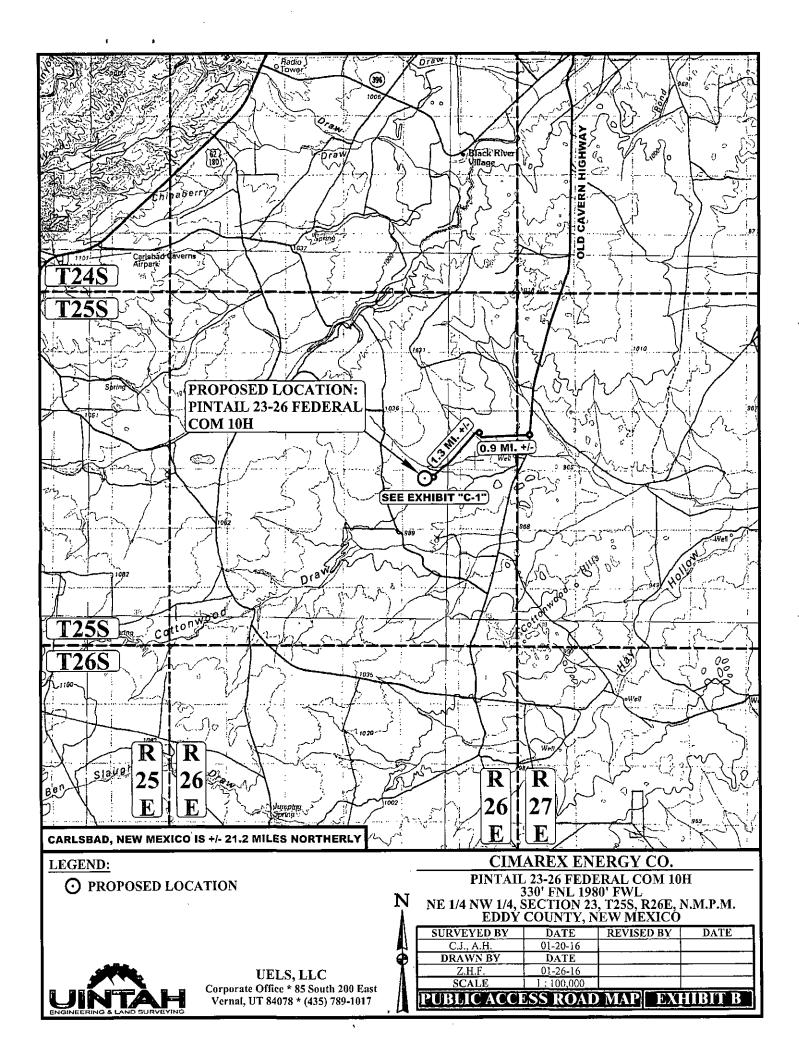
SURVEYED BY	DATE	REVISED BY	DATE	
C.J., A.H.	01-20-16			
DRAWN BY	DATE			
Z.H.F.	01-25-16			
	-			
1ROAD DESCRIPTION				

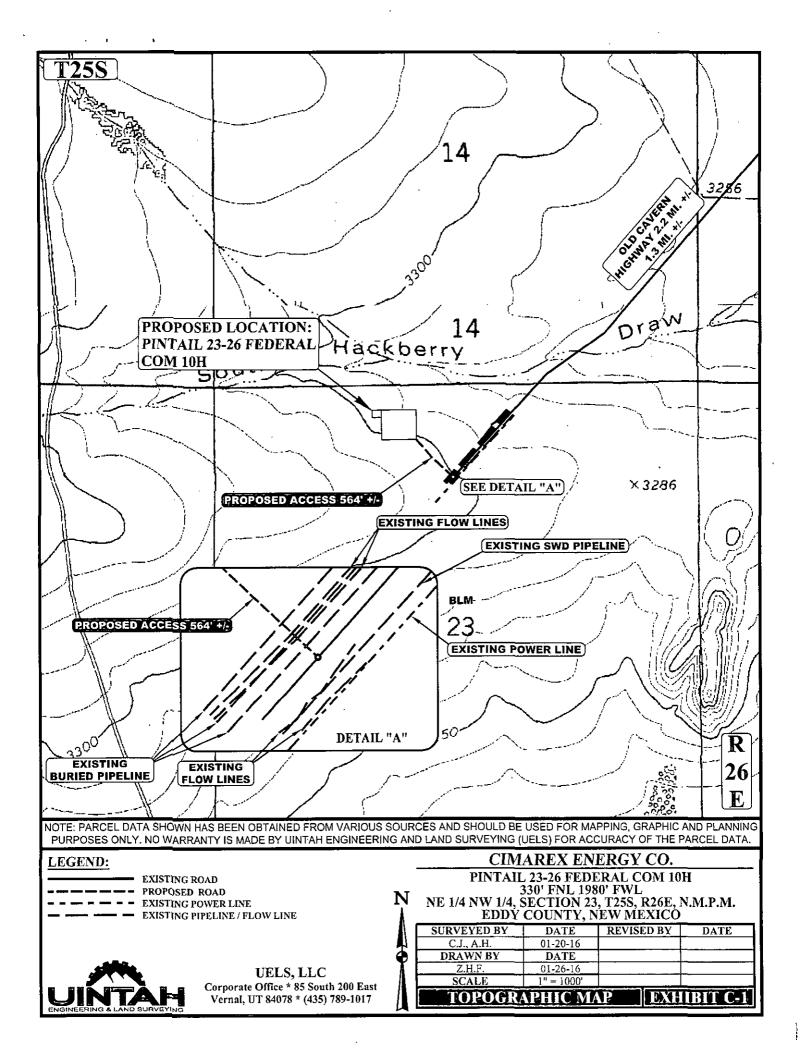


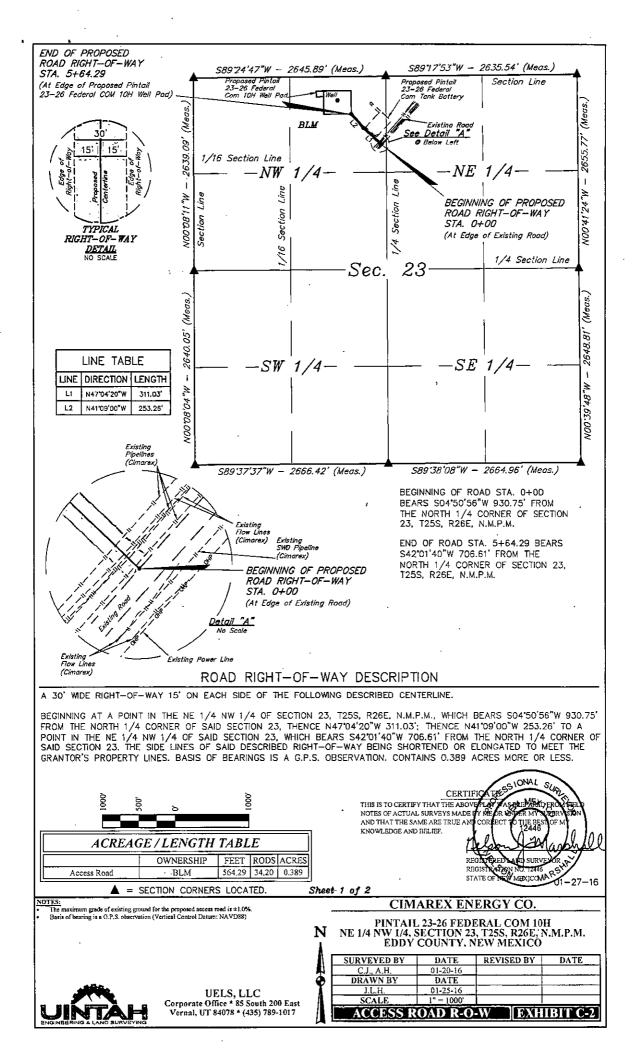
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UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017









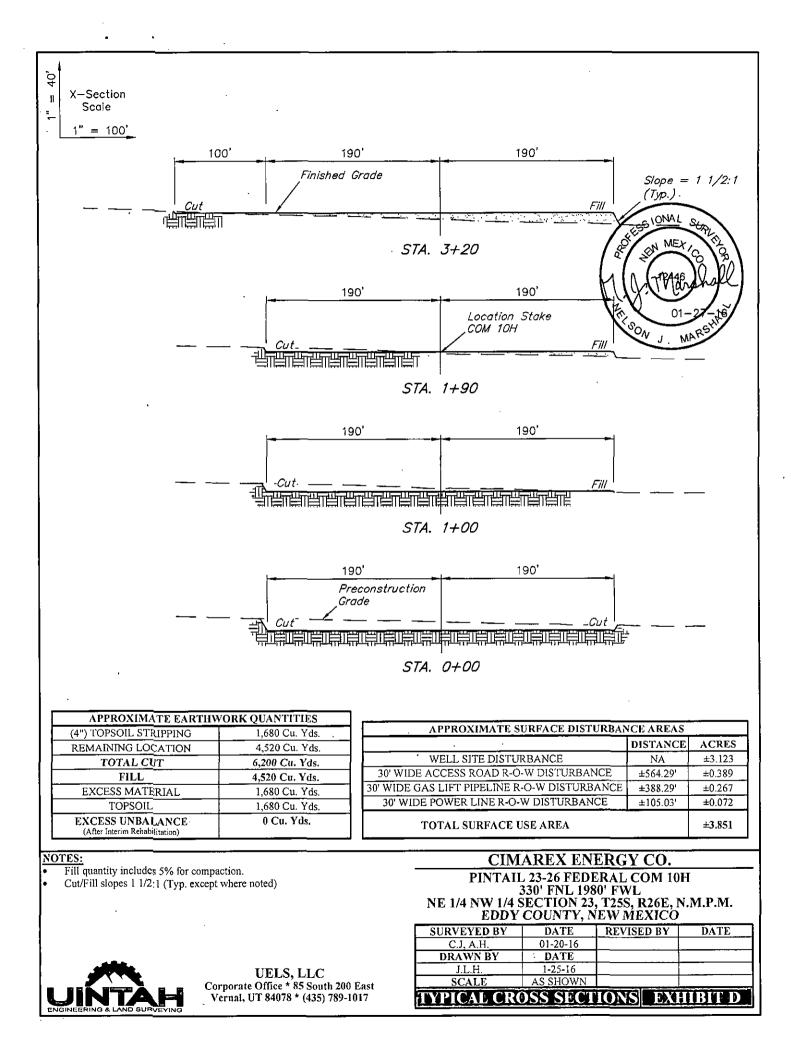
	Shee	et 2 of 2	RF RE ST.	GINERED AND SURVI GISTERATION NO. 12446 ATE OF NEW MEXICOM	ARSHA 01-27-16
 		CIM	AREX EN	ERGY CO.	
	N	PINTAII NE 1/4 NW 1/4, S EDDY	23-26 FEDI SECTION 23 COUNTY, N	ERAL COM 10 5, T25S, R26E, N IEW MEXICO	H N.M.P.M.
	A	SURVEYED BY	DATE	REVISED BY	DATE
	1	C.J., A.H.	01-20-16		
	Ψ	DRAWN BY	DATE 01-25-16		
UELS, LLC	A	SCALE	1" = 1000'		
Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017		ACCESS R		W EXH	IBIT C-2

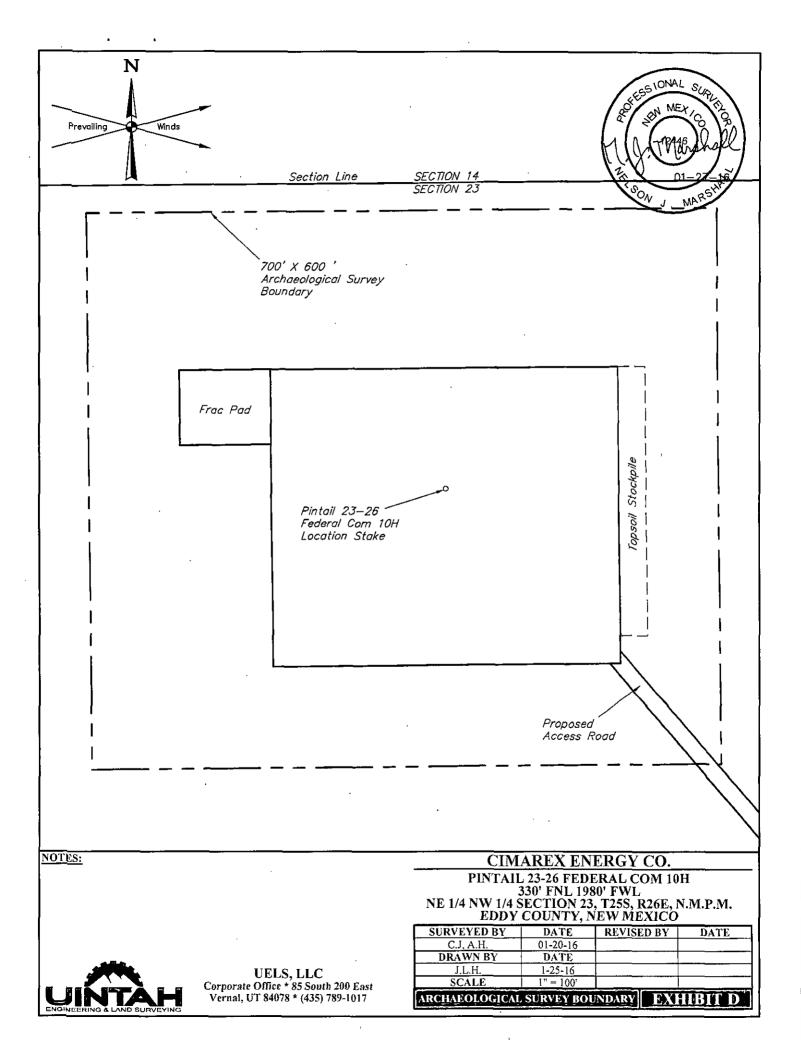
- IONAL U.S CERTIFIC CERTIFICAL THIS IS TO CERTIFY THAT THE ABOVEPLAT NOTES OF ACTUAL SURVEYS MADE BY ME AND THAT THE SAME ARE TRUE AND COR KNOWLEDGE AND BELIEF. 0 100

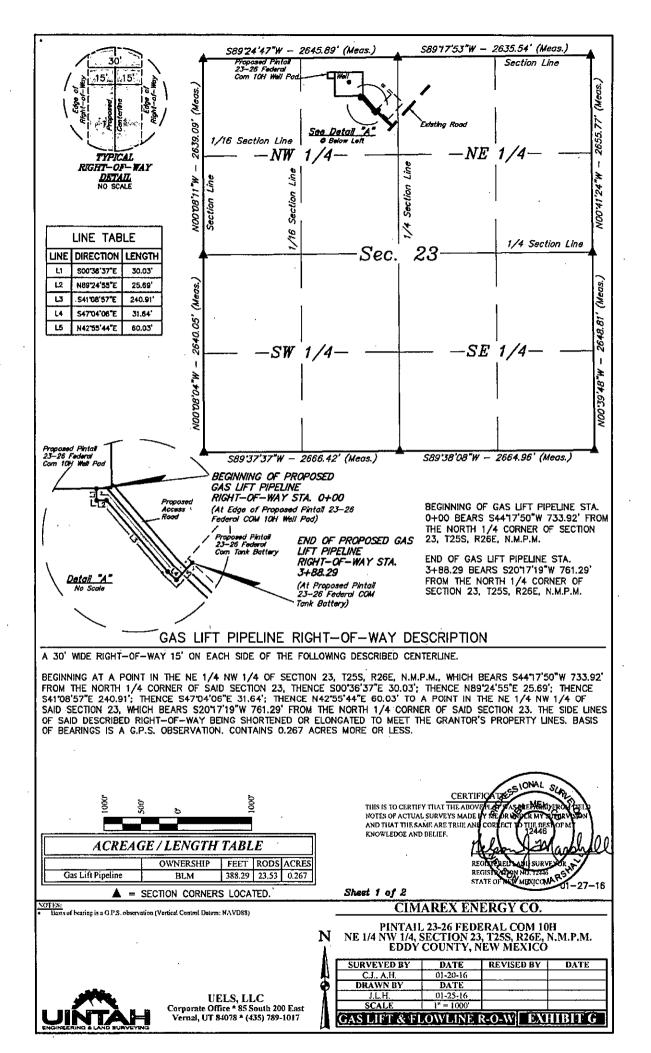
NUMBER	STATION	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
BEGIN	0+00.00	N 32°07'12.26"	W 104°15'49.39"
1	3+11.03	N 32°07'14.35"	W 104°15'52.04"
END	5+64.29	N 32°07'16.24"	W 104°15'53.98"
		•	

SECTION CORNER	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
SW COR. SEC. 23-T255-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-T255-R26E	N 32°06'29.28"	W 104°15'17.10"
\$ 1/4 COR. SEC. 23-T25S-R26E	N 32°06'29.11"	W 104°15'48.08"

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SECTION CORNER	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
SW COR. SEC. 23-T25S-R26E	N 32°06'28.93"	W 104°16'19.08"
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\$ 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*07'16.24"	W 104*15'54.44"
1	0+30.03	N 32°07'15.94"	W 104*15'54.44"
2	0+55.71	N 32°07'15.94"	W 104°15'54.14"
3	2+96.62	N 32°07'14.15"	W 104°15'52.29"
4	3+28.26	N 32°07'13.93"	W 104°15'52.03"
END	3+88.29	N 32°07'14.37"	W 104°15'51.55"

ONAL CERTIFIC CERTIFY THIS IS TO CERTIFY THAT THE ABOVE NOTES OF ACTUAL SURVEYS MADE F AND THAT THE SAME ARE TRUE AND KNOWLEDGE AND BELIEF. Q MERICOMARSHI REG Ê UEL REGISTE STATE OF Stoj 01-27-16 Sheet 2 of 2 CIMAREX ENERGY CO.

PINTAIL 23-26 FEDERAL COM 10H NE 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M. EDDY COUNTY, NEW MEXICO Ν SURVEYED BY ₽ ₽



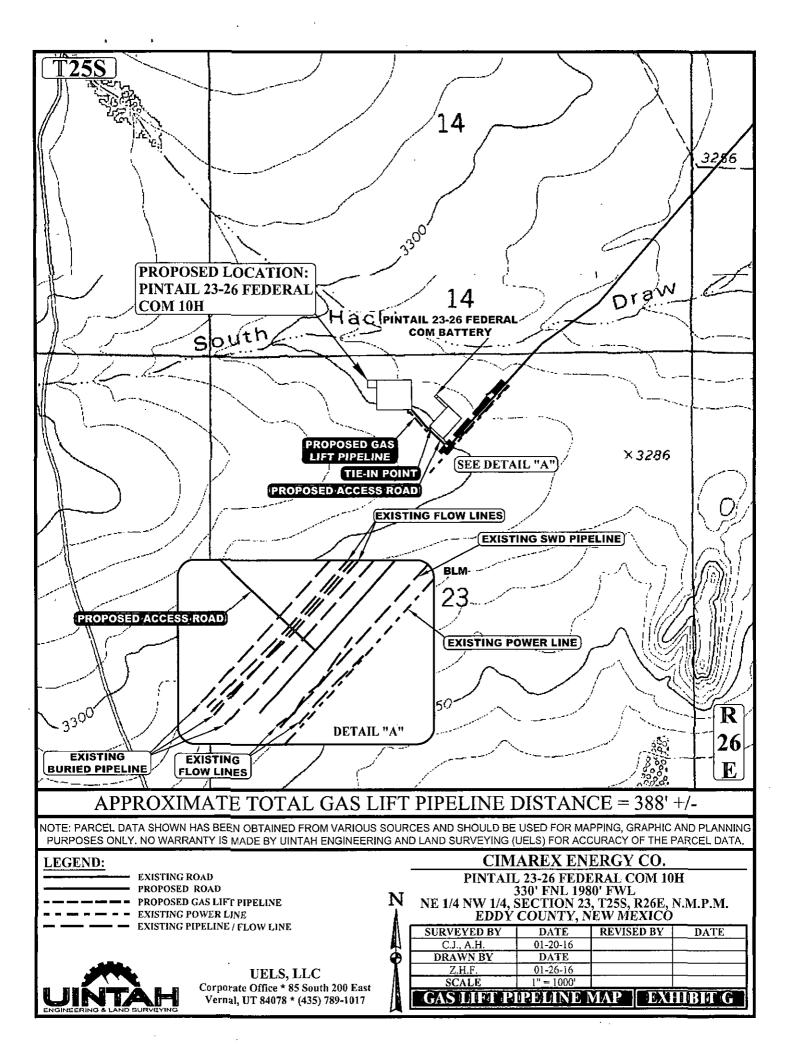
UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

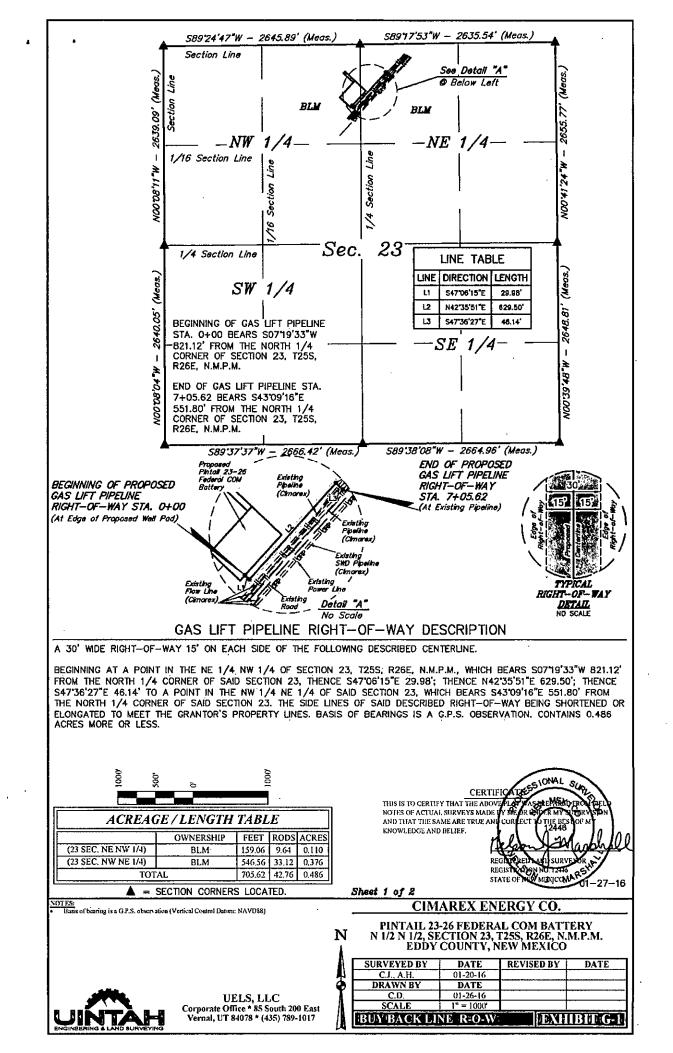
C.J., A.H. DRAWN BY J.L.H. SCALE 01-25-16 1"=1000' GAS LIFT & FLOWLINE R-O-W EXHIBIT G

REVISED BY

DATE

DATE 01-20-16 DATE

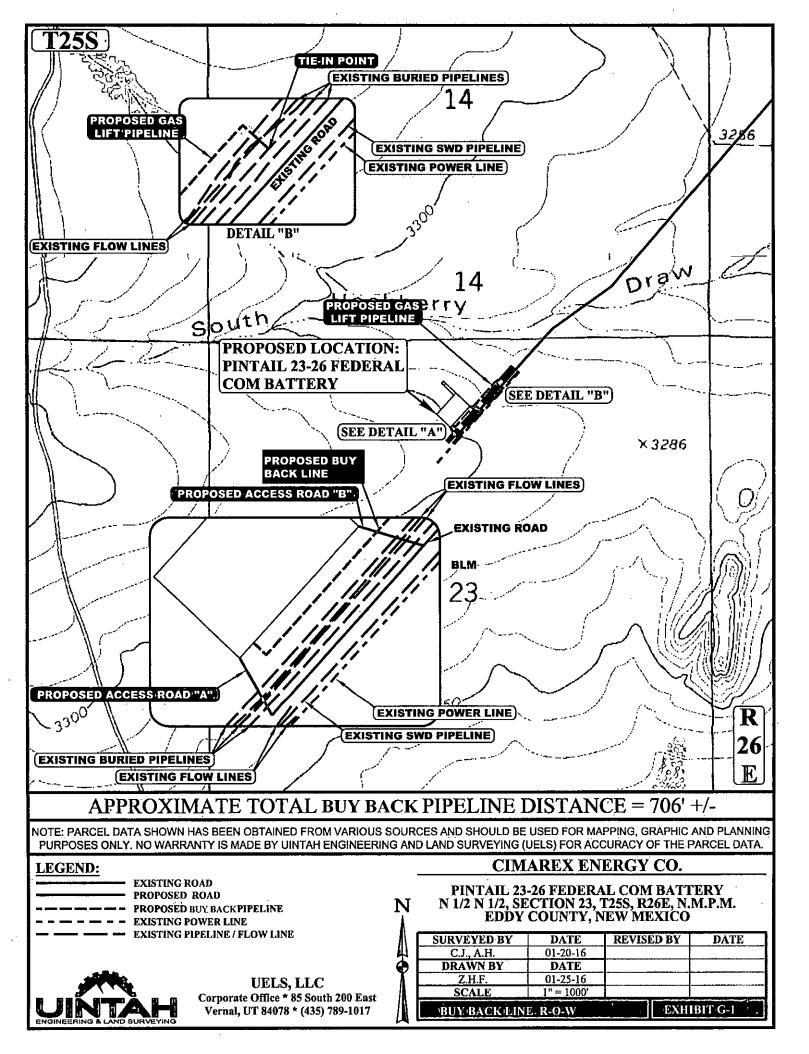


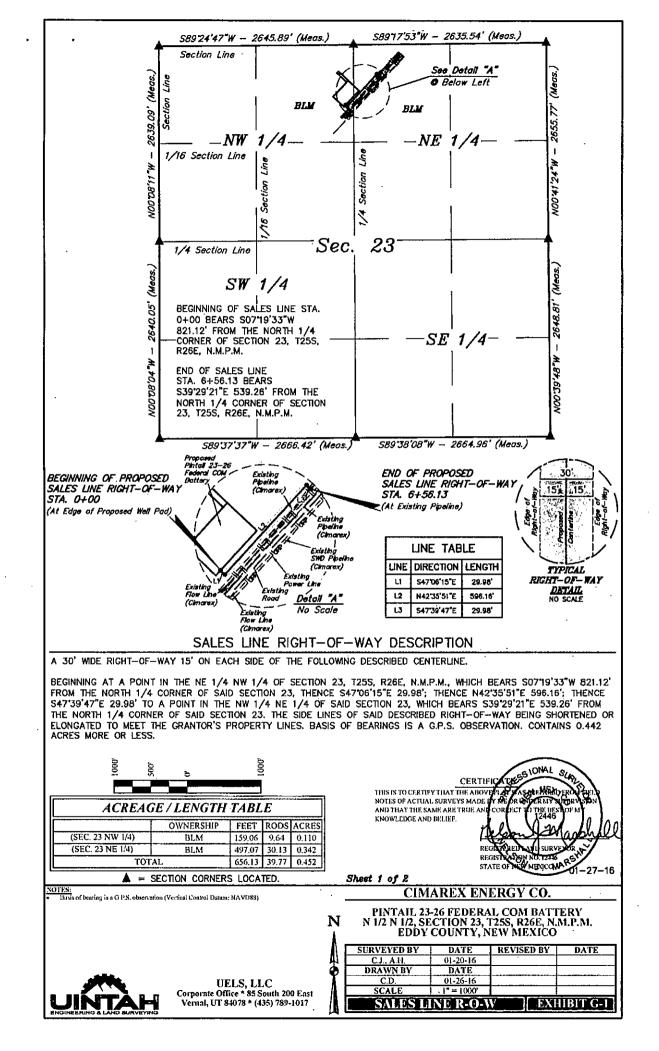


SECTION CORNER	LATÍTUDE (NAD 83)	LONGITUDE (NAD 83)
SW COR. SEC. 23, T25S, R26E	N 32*06'28.93"	W 104°16'19.08"
W 1/4 COR. SEC. 23, T25S, R26E	N 32*06'55.05"	W 104*16'19.16"
NW COR. SEC. 23, T255, R26E	N 32*07'21.16"	W 104*16'19.24"
N 1/4 COR. SEC. 23, T255, R26E	N 32°07'21.44"	W 104°15'48.48"
NE COR. SEC. 23, T255, R26E	N 32°07'21.76"	W 104°15'17.84"
E 1/4 COR. SEC. 23, T255, 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"
Ż	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"

UESS IONAL CERTIFIÇ THIS IS TO CERTIFY THAT THE ABOVE NOTES OF ACTUAL SURVEYS MADE H AND THAT THE SAME ARE TRUE AND KNOWLEDGE AND BELIEF. REGISTERED AND SURVEYOR , REGISTERED NO 12416 , ST STATE OF NEW MERICONAL ()-01-27-16 Sheet 2 of 2 NOTES: Bass 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 N REVISED BY SURVEYED BY DATE DATE 01-20-16 DATE C.J., A.H. DRAWN BY 01-26-16 N/A UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017 C.D. SCALE Ш BUY BACK LINE R-O-W EXHIBIT G-1



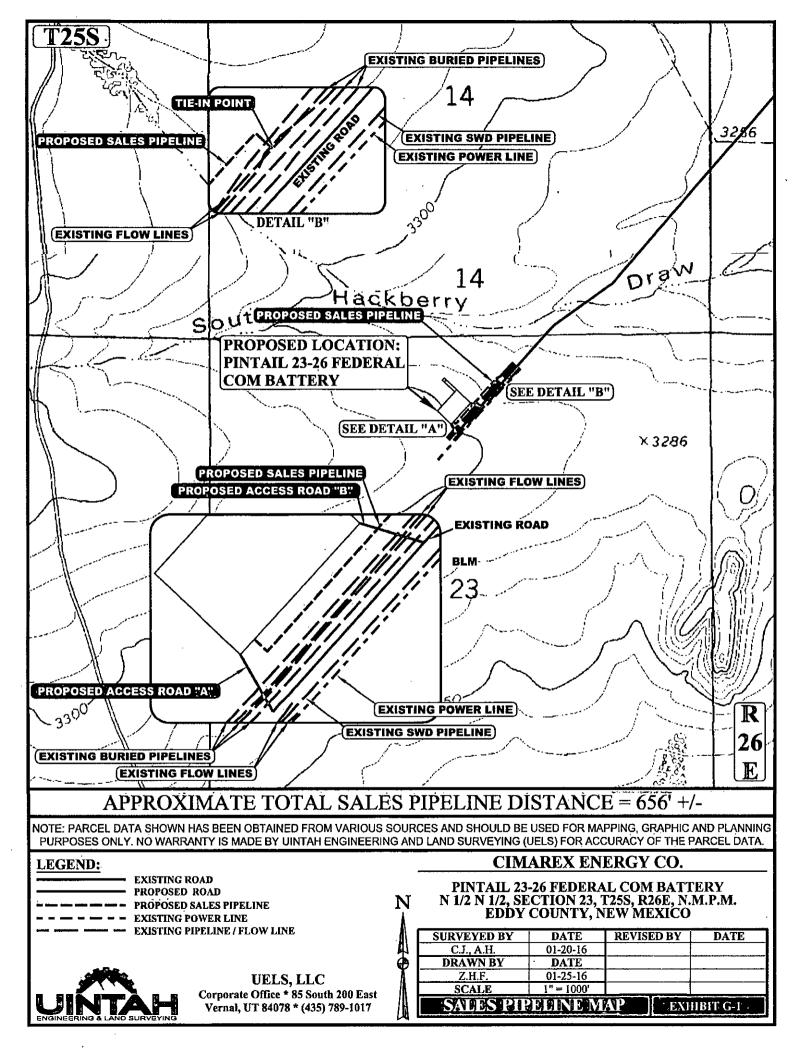


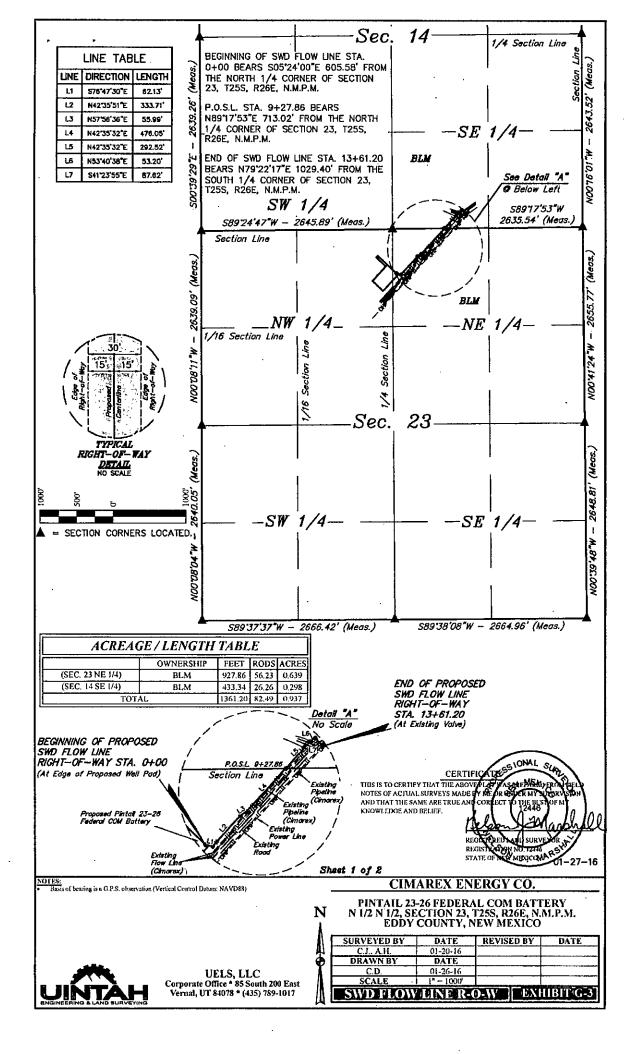
SECTION CORNER	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
SW COR. SEC. 23, T255, R26E	N 32*06'28.93"	W 104°16'19.08"
W 1/4 COR. SEC. 23, T25S, R26E	N 32°06'55.05"	W 104*16'19.16"
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SE COR. SEC. 23, T255, R26E	N 32°06'29.28"	W 104"15'17.10"
S 1/4 COR. SEC. 23, T255, 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"

THESSIONAL SUN CERTIFIC THIS IS TO CERTIFY THAT THE ABOVE ō. NOTES OF ACTUAL SURVEYS MADE AND THAT THE SAME ARE TRUE AND KNOWLEDGE AND BELIEF. 00 REGISTICATION NO. 12445 REGISTICATION NO. 12445 STATE OF NEW MERCICANA BU

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 Ν SURVEYED BY REVISED BY DATE DATE C.J., A.H. DRAWN BY 01-20-16 DATE C.D. SCALE 01-26-16 N/A UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017 SALES LINE R-O-W EXHIBIT G-1





SWD FLOW LINE RIGHT-OF-WAY DESCRIPTION

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

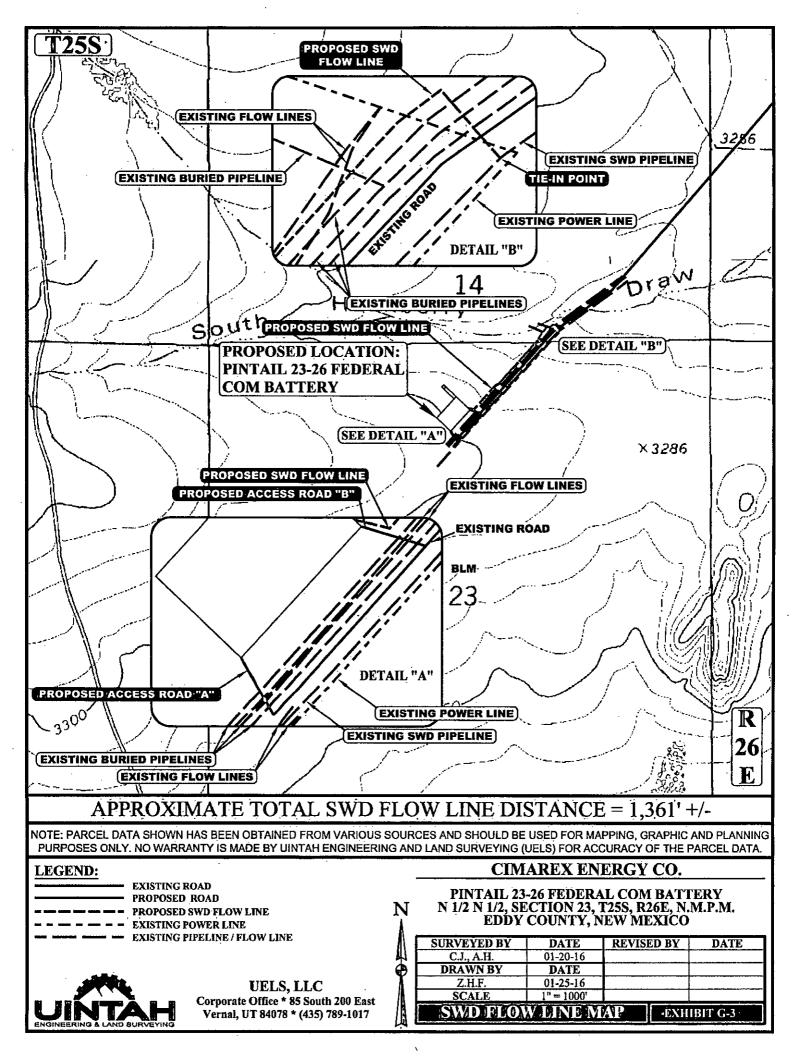
BEGINNING AT A POINT IN THE NW 1/4 NE 1/4 OF SECTION 23, T25S, R26E, N.M.P.M., WHICH BEARS S05'24'00"E 605.58' FROM THE NORTH 1/4 CORNER OF SAID SECTION 23, THENCE S76'47'30"E 62.13'; THENCE N42'35'51"E 333.71'; THENCE N57'56'36"E 55.99'; THENCE N42'35'32"E 476.05' TO A POINT ON THE NORTH LINE OF THE 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.

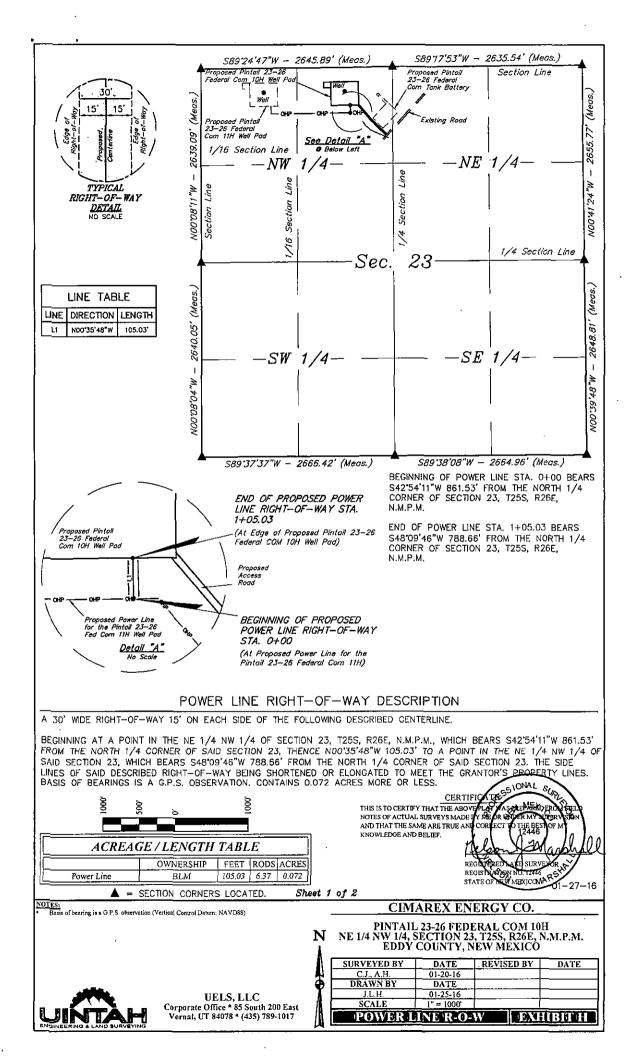
SECTION CORNER	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
SW COR. SEC. 23, T255, R26E	N 32*06'28.93"	W 104*16'19.08"
W 1/4 COR. SEC. 23, T255, R26E	N 32*06'55.05"	W 104°16'19.16"
NW COR. SEC. 23, T255, R26E	N 32°07'21.16"	W 104:16'19.24"
N 1/4 COR. SEC. 23, T25S, R26E	N 32°07'21.44"	W 104°15'48.48"
NE COR. 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, T255, 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, T255, 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"
EŃD	13+61.20	N 32*07'23.32"	W 104*15'36.72"

ONAL CERTIFIC THIS IS TO CERTIFY THAT THE ABOVE NOTES OF ACTUAL SURVEYS MADE AND THAT THE SAME ARE TRUE AN KNOWLEDGE AND BELIEF. SURVE PONNOT 12416 RSH REGIST STATE OF 27 16

Shert z of z							
NOTES: Basis of bearing is a O.P.S. observation (V	NOTES: Basis of bearing is a C.P.S. observation (Vertical Control Datum NAVD88)			CIMAREX ENERGY CO.			
		N	PINTAIL 23 N 1/2 N 1/2, SH EDDY	-26 FEDER ECTION 23, COUNTY, I	AL COM BATT T258, R26E, N.I NEW MEXICO	ERY M.P.M.	
		A	SURVEYED BY	DATE	REVISED BY	DATE	
		A)	C.J., A.H.	01-20-16			
		Ð	DRAWN BY	DATE			
	UELS, LLC	A	C,D,	01-26-16			
	Corporate Office * 85 South 200 East		SCALE	N/A			
	Vernal, UT 84078 * (435) 789-1017		SWD FLOW	/UINER-	O-W EXH	IIBIT G-3	

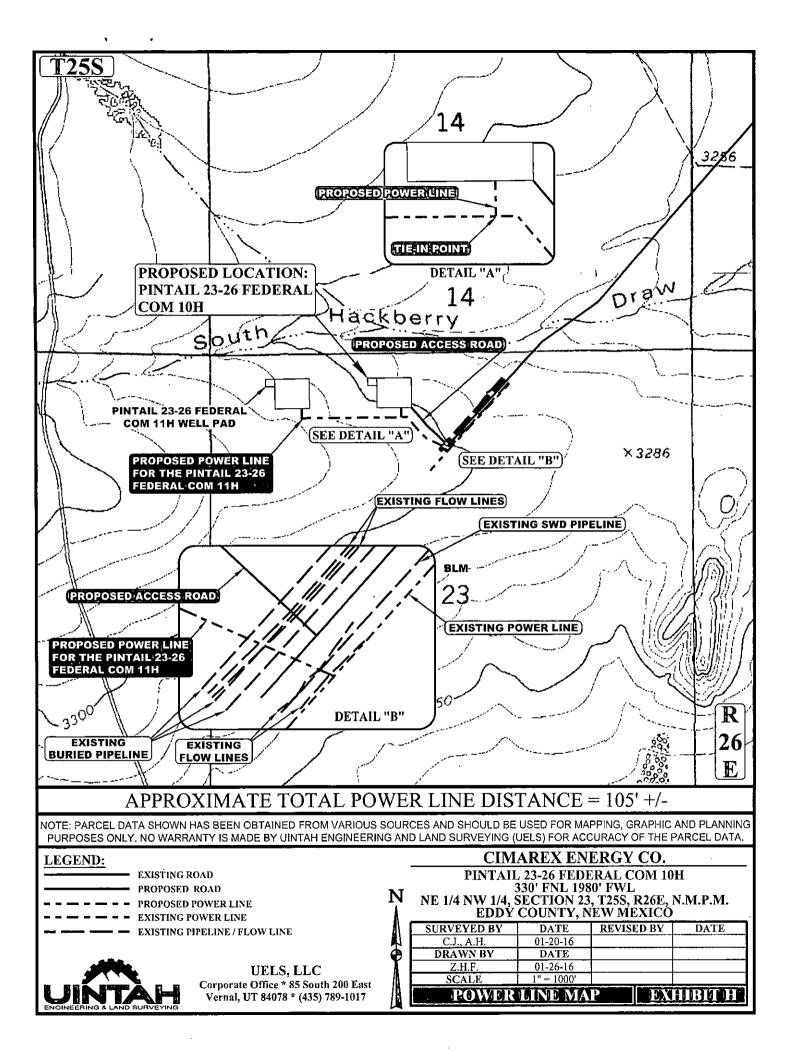


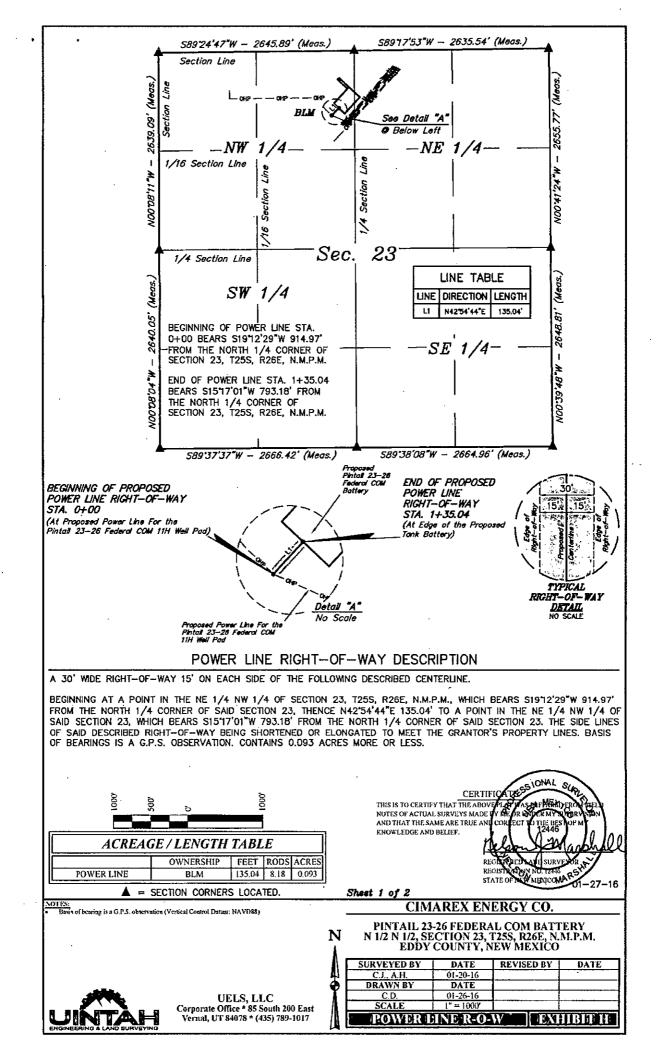


SECTION CORNER	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
SW COR. SEC. 23-T25S-R26E	N 32°06'28.93"	W 104°16′19.08"
W 1/4 COR. SEC. 23-T25S-R26E	N 32°06'55.05"	W 104*16'19.16"
NW COR. SEC. 23-T25S-R26E	N 32°07'21.16"	W 104°16'19.24"
N 1/4 COR. SEC. 23-T25S-R26E	N 32°07'21.44"	W 104°15'48.48"
NE COR. SEC. 23-T25S-R26E	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°07'15.19"	W 104°15'55.30"
END	1+05.03	N 32°07'16.23"	W 104°15'55.31"

	CERTIFICATES ⁵ IONAL SCA THIS IS TO CERTIFY THAT THE ABOVEFLAY A SALEMENT PEOPHER NOTES OF ACTUAL SURVEYS MADE BY ME REFORM Y NOR NOTAN AND THAT THE SAME ARE TRUE AND CORFECT TO THE RESTOR M XNOWLEDGE AND BELIEF. REGISTIVED AND SURVEYS R. REGISTIVED AND NO TAKE STATE OF NEW MEXICOM POID 27-16 Sheet 2 of 2
UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017	CIMAREX ENERGY CO. PINTAIL 23-26 FEDERAL COM 10H N NE 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M. EDDY COUNTY, NEW MEXICO SURVEYED BY DATE C.J. A.H. OLATE C.J. A.H. OLATE C.J. A.H. OLATE DATE C.J. A.H. OLATE DATE J.L.H. OL2:25:16 SCALE POWIER LINIE R-O-W

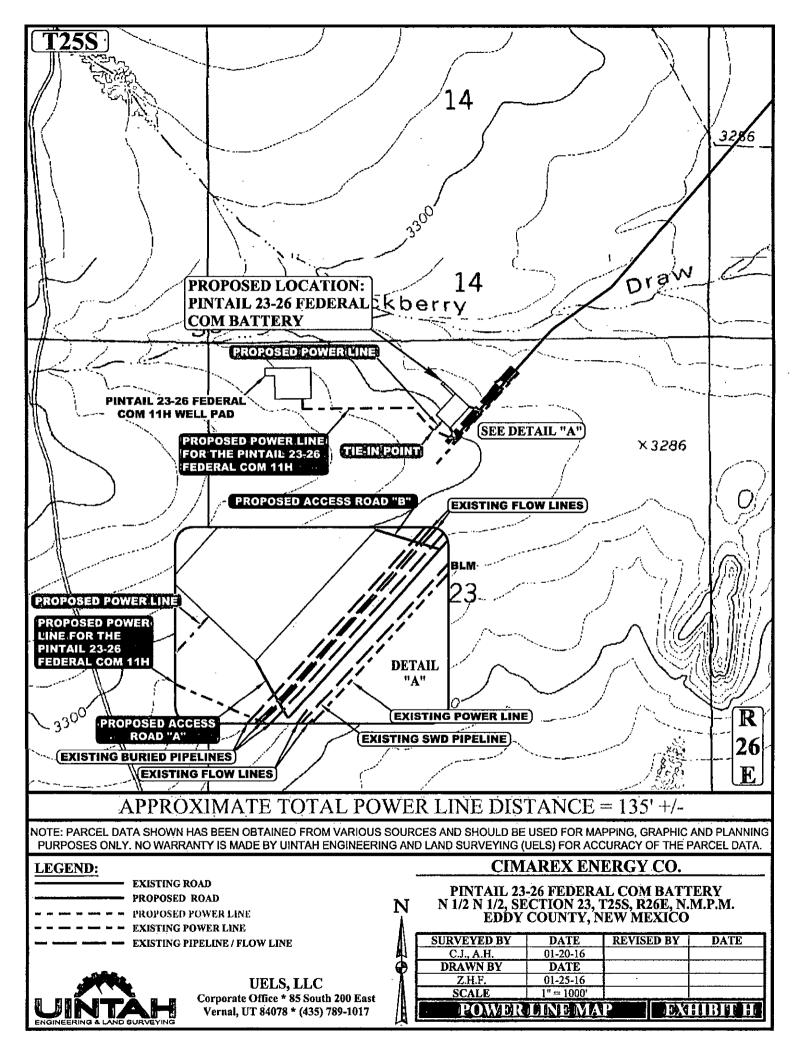


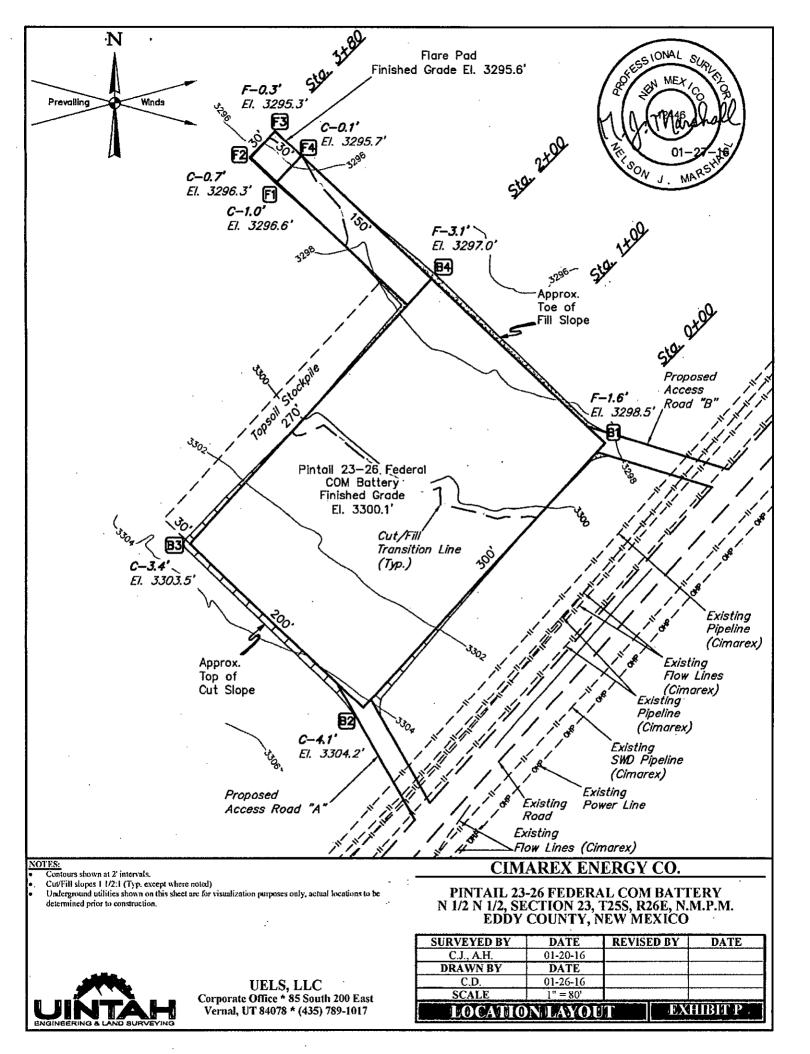


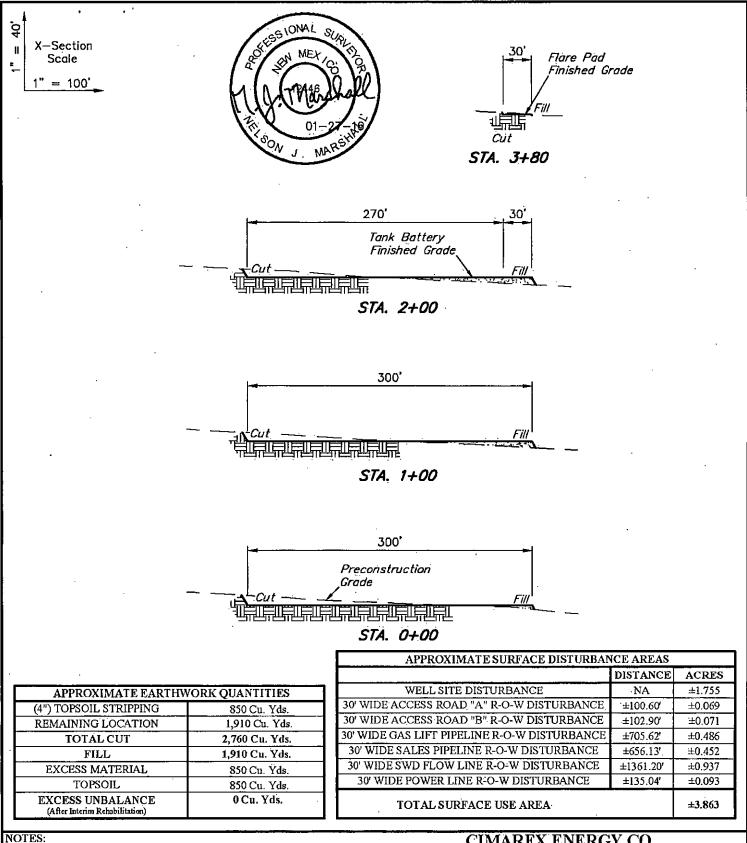
SECTION CORNER	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
SW COR. SEC. 23, T255, R26E	Ň 32°06'28.93"	W 104*16'19.08"
W 1/4 COR. SEC. 23, T25S, R26E	N 32°06'55,05".	W 104°16'19.16"
NW COR, SEC. 23, T255, R26E	N 32°07'21.16"	W 104°16'19.24"
N 1/4 COR. SEC. 23, T255, R26E	N 32°07'21.44"	W 104*15'48.48"
NE COR. SEC. 23, T255, R26E	N 32*07'21.76"	W 104*15'17.84"
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SE COR. SEC. 23, T255, R26E	N 32*06'29.28"	W 104*15'17.10"
S 1/4 COR. SEC. 23, T255, 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"

CERTIFICATESS IONAL SLAD LER TIFICAL THIS IS TO CERTIFY THAT THE ABOVEN A NOTES OF ACTUAL SURVEYS MADE BY BE AND THAT THE SAME ARE TRUE AND CORD KNOWLEDGE AND BELIEF. REGISTERED AND SURVEYER A REGISTERED NO. 17445 STATE OF THE MERICOMPOSITION OF 1-27-16 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 Ν DATE 01-20-16 DATE 01-26-16 N/A SURVEYED BY C.J., A.H. DRAWN BY REVISED BY DATE C.D. SCALE UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017 POWER LINE R-O-W EXHIBIT H







Fill quantity includes 5% for compaction.

Cut/Fill slopes 1 1/2:1 (Typ. except where noted)

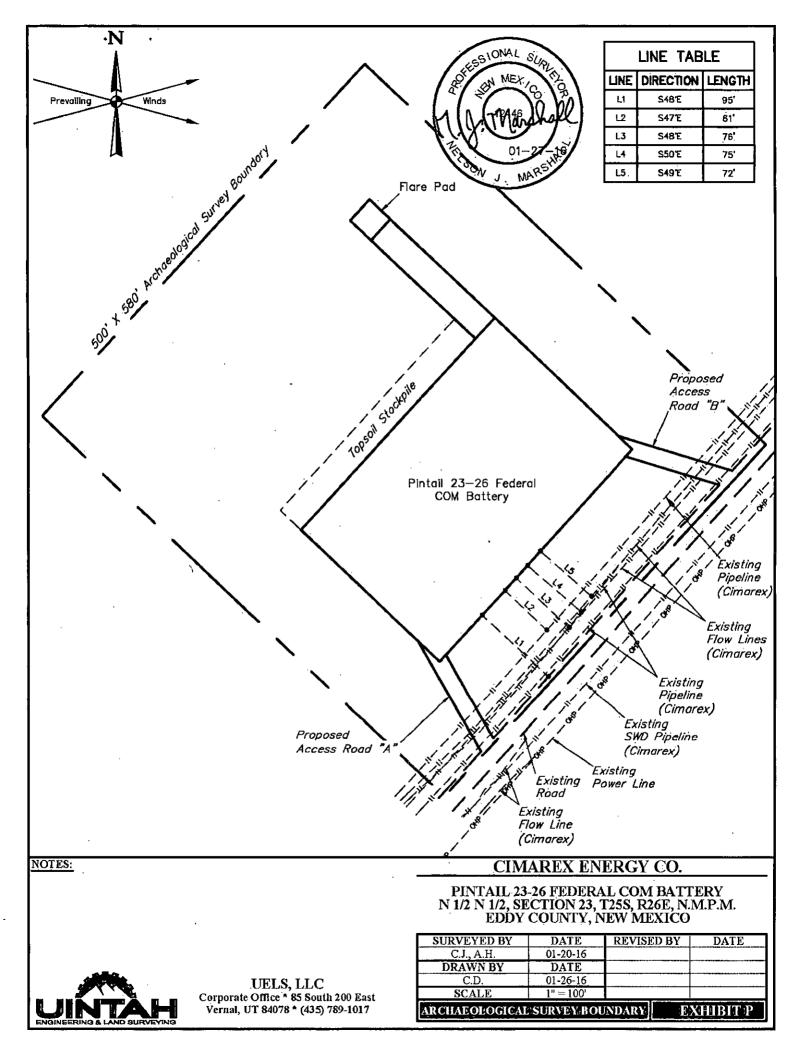
CIMAREX ENERGY CO.

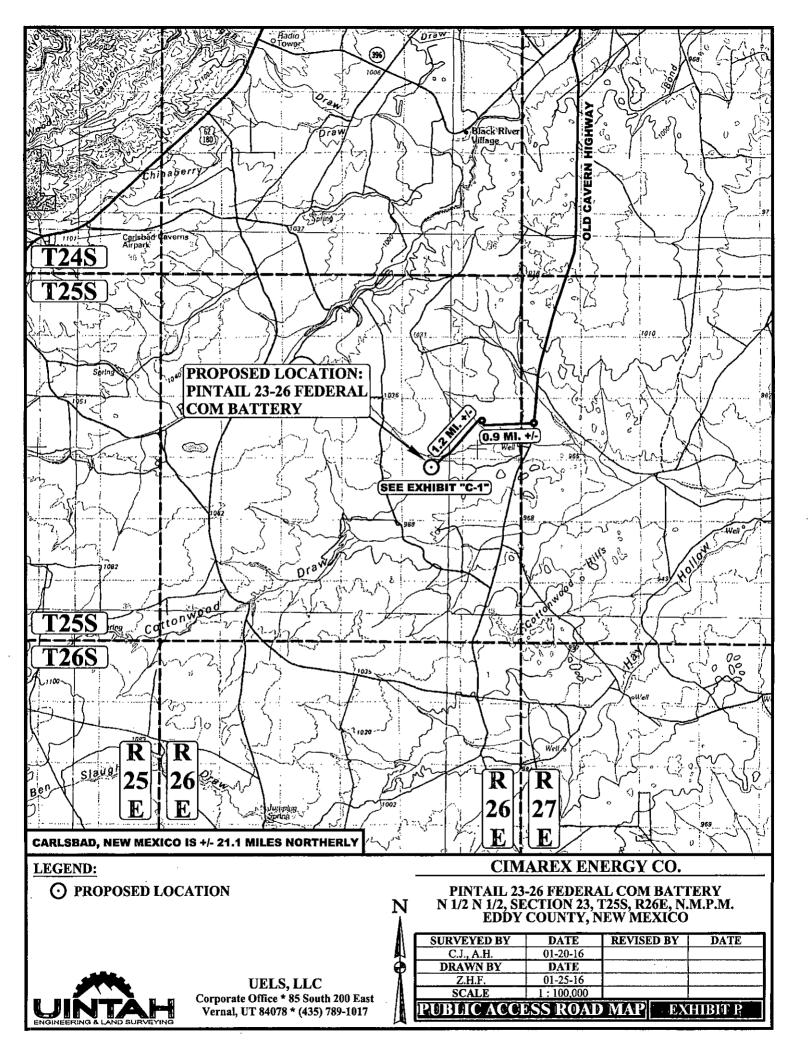
PINTAIL 23-26 FEDERAL COM BATTERY N 1/2 N 1/2, SECTION 23, T25S, R26E, N.M.P.M. EDDY COUNTY, NEW MEXICO

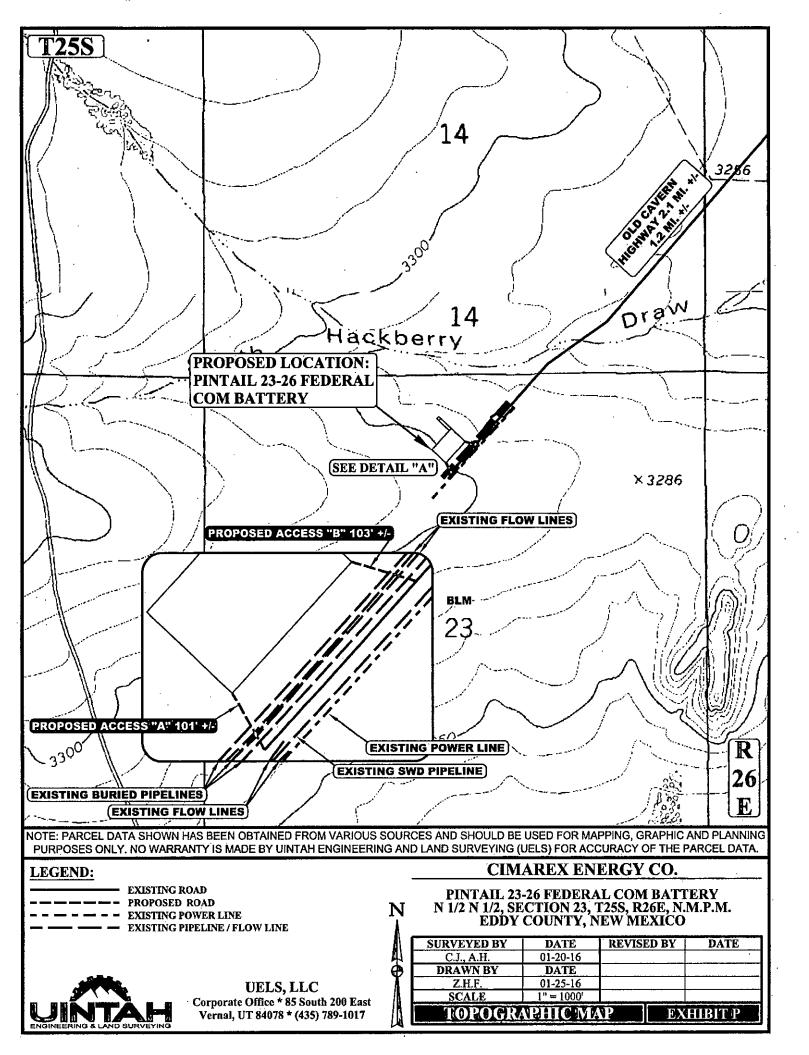
SURVEYED BY	DATE	REVISED BY	DATE		
C.J., A.H.	01-20-16				
DRAWN BY	DATE				
C.D.	01-26-16				
SCALE	ASSHOWN				
TYPICAL CR	TYPICAL CROSS SECTIONS EXHIBIT P				

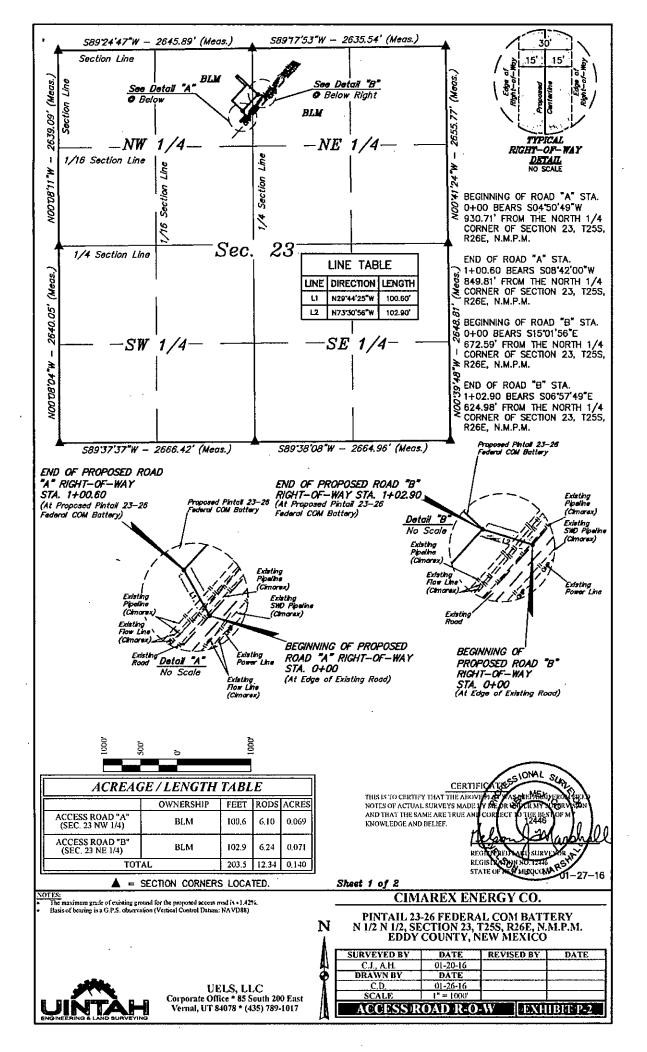


UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017









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

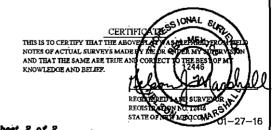
A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

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 N73'30'66''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, T255, R26E	N 32*06'28.93"	W 104*16'19.08"
W 1/4 COR. SEC. 23, T255, R26E	N 32*06*55.05"	W 104*16'19.16"
NW COR. SEC. 23, T255, R26E	N 32'07'21.16"	W 104*16'19.24"
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S 1/4 COR. SEC. 23, T255, R26E	N 32*06'29.11"	W 104*15'48.08"

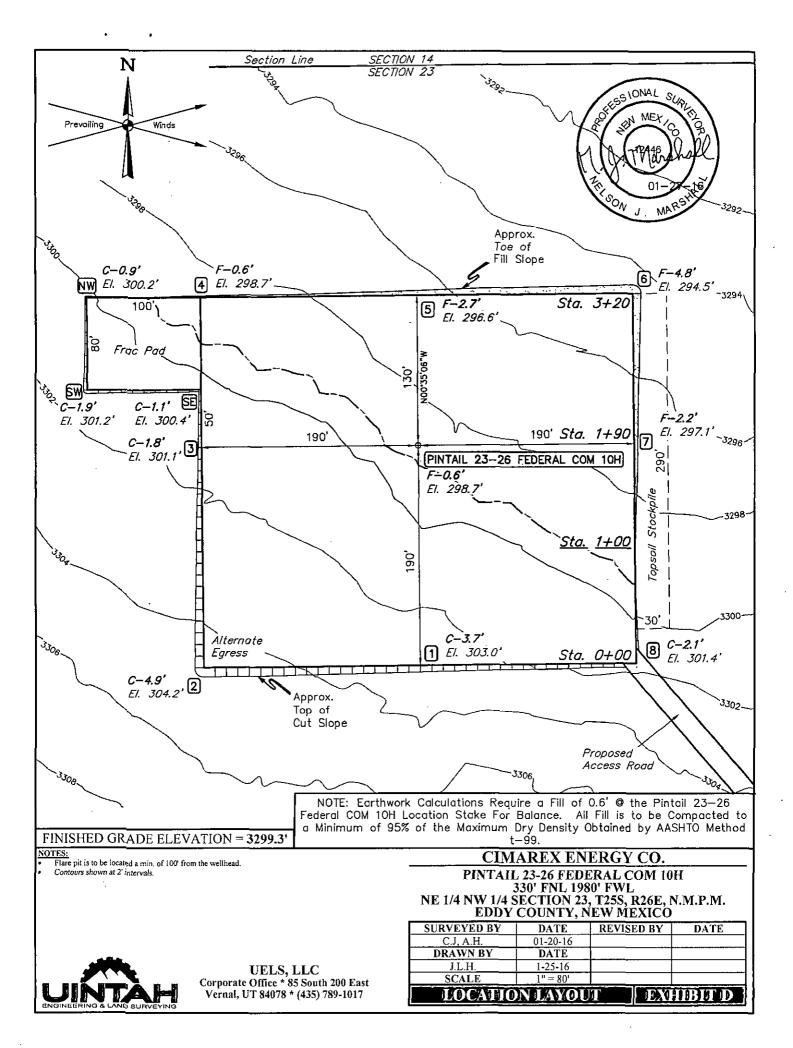
	PROPOSED /	ACCESS ROAD "A"	
NUMBER	STATION	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
BEGIN	0+00.00	N 32*07'12.26"	W 104*15'49.39"
END	1+00.60	N 32°07'13.12"	W 104°15'49.98"

	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"



Sheet 2 of 2

			CIM	AREX EN	ERGY CO).
		N	PINTAIL 23 N 1/2 N 1/2, SE EDDY	CTION 23,	AL COM BA T25S, R26E, VEW MEXIC	N.M.P.M.
		A	SURVEYED BY	DATE	REVISED B	Y DATE
		*	C.J., A.H.	01-20-16		
		Ψ	C.D.	DATE 01-26-16		
	UELS, LLC Corporate Office * 85 South 200 East	A	SCALE	. N/A	1	
UINTAH	Vernal, UT 84078 * (435) 789-1017		ACCESSIR	OAD R-O	W E	XHIBIT P-2



• **1. Geological Formations**

.

TVD of target 9,650 MD at TD 19,325

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	<u>.</u>	1135	N/A	
Castille		1700	N/A	
Bell Canyon		1900	N/A	
Cherry Canyon		2706	N/A	
Brushy Canyon		3764	N/A	
Bone Spring		5420	Hydrocarbons	
1st Bone Spring Ss		6420	Hydrocarbons	· · · · · · · · · · · · · · · · · · ·
2nd Bone Spring Ls		6650	Hydrocarbons	
2nd Bone Spring Ss		6950	Hydrocarbons	
3rd Bone Spring Limestone		7320	Hydrocarbons	
3rd Bone Spring		8300	Hydrocarbons	
Wolfcamp		8645	Hydrocarbons	
Wolfcamp B		9280	Hydrocarbons	
Wolfcamp C		9450	Hydrocarbons	
Wolfcamp D		9545	Hydrocarbons	
Wolfcamp E		9900	Hydrocarbons	

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Casing Size	Weight (Ib/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	450	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	3.59	8.40	14.91
12 1/4	0	1875	9-5/8"	36.00	J-55	l.T&C	2.03	3.54	6.71
8 3/4	· 0	9001	7"	32.00	L-80	LT&C	2.00	2,10	2.19
8 3/4	9001	9863	7"	32.00	L-80	BT&C	1.88	1.85	40.84
6	9001	19325	4-1/2"	11.60	P-110	BT&C	1.26	1.78	48.75
		·		BLM	Minimum S	afety Factor	1.125	1	1.6 Dry 1.8 Wet

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

Cimarex Energy Co., Pintail 23-26 Fed Com 10H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	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

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Casing	# Sks	Wt. Ib/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description				
Surface	91	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	353	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bent	tonite			
	109	14.80	1.34	6.32	9.5	Tail: Class C + LCM				
Production	585	10.80	2.35	9.60	17:43	Lead: Tuned Light I Class H				
	110	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bento	onite + Fluid Loss + Dispersant + SMS			
Completion System	661	14.50	, 1.30 ,	5.79	20	Tail: 50:50 (Poz:H) + Salt + Bento + Retarder + Antifoam	onite + Fluid Loss + Dispersant + Expanding Agent			
Casing String			•	тос			% Excess	1		
Surface						<u>.</u> 0	33	N		
Intermediate					·	0	44			
Production					1675					
Completion System				900/ 10237						
						See COA		-		

3 Drilling Plan

4. Pressure Control Equipment

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BOP installed and tested before drilling which hole?	Size	Min Required WP	Туре		Tested To
	۶ 	7	· · ·		**
12 1/4	13 5/8	2M	Annular	х	50% of working pressure
			Blind Ram	X	
			Pipe Ram		2M
			⁻ Double Ram	х]
			Other		
8 3/4	13 5/8	3M	Annular	x	50% of working pressure
			Blind Ram	х	······································
			Pipe Ram		3М
			Double Ram	х	
			Other		
6	13 5/8	3M	Annular	x	50% of working pressure
			Blind Ram	x	
			Pipe Ram		3М
			Double Ram	x	1
			Other		-1

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.

Are anchors required by manufacturer?

Ν

5. Mud Program

Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0' to 450'	FW Spud Mud	8.30 - 8.80	28	N/C
450' to 1875'	Brine Water	9.70 - 10.20	30-32	N/C
1875' to 9863'	FW/Cut Brine	8.70 - 9.20		N/C
10234' to 19325'	Oil Based Mud	11.50 - 12.00	50-70	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.

para de la companya de		
What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring	

6. Logging and Testing Procedures

r

Log	ging, Coring and Testing
х	Will run GR/CNL fromTD 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

7. Drilling Conditions

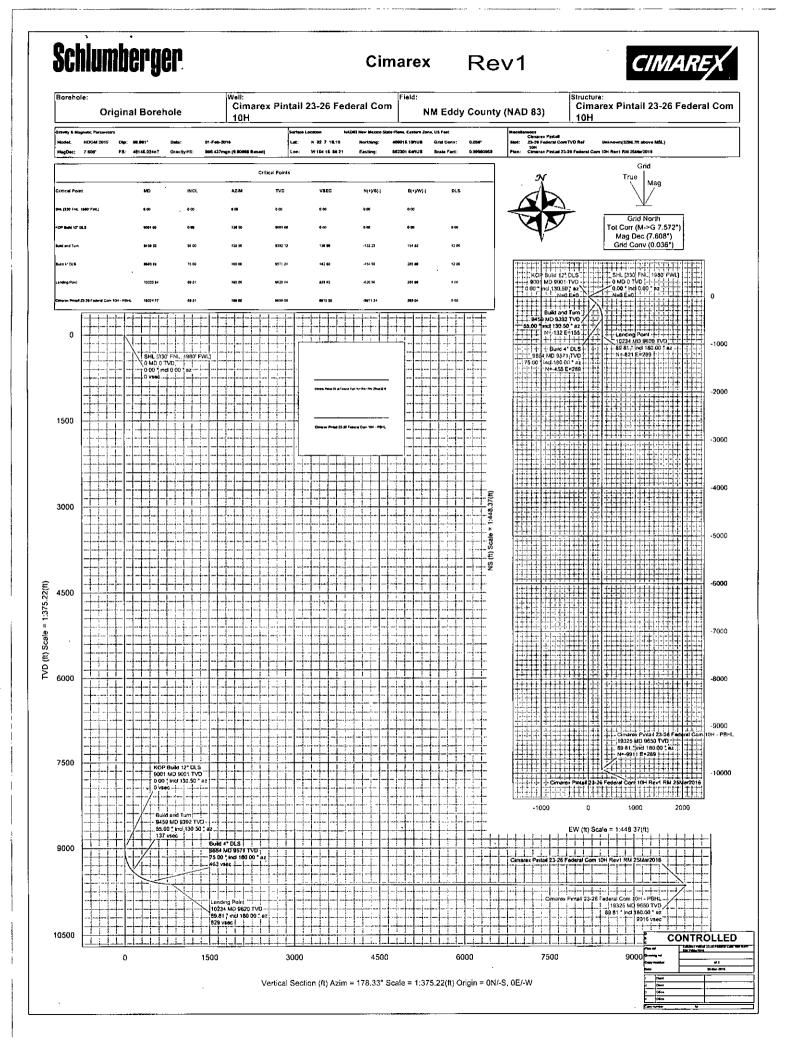
Condition	
BH Pressure at deepest TVD	4578 psi
Abnormal Temperature	No

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.

х H2S is present

х H2S plan is attached

8. Other Facets of Operation



Report Date: Cilent: Field: Structure / Slot: Well: Borehole: UWI / AP#: Survey Name: Survey Date: Tort / AHD / DDI / ERD Ratio: Coordinate Reference System: Location Lat / Long: Location Lat / Long: Coordinate Reference Angle: Grid Scale Factor: Version / Patch:) Ratio: ∋ System: (; ce Angle:	March 28, 2016 - 09:55 AM Cimarex NM Eddy County (NAD 83) Cimarex Pintail 23-26 Federal Com 10H / Cimarex Pintail Cimarex Pintail 23-26 Federal Com 10H Cimarex Pintail 23-26 Federal Com 10H Original Borehole Unknown / Unknown Cimarex Pintail 23-26 Federal Com 10H Rev1 RM 25Mar2 February 01, 2016 118,336 ° / 10020.479 ft / 6.376 / 1.038 NADB3 New Mexico State Plane, Eastern Zone, US Feet N 32° 7' 18.10082°, W 104° 15' 56.21358° NADB3 New Mexico State Plane, Eastern Zone, US Feet N 32° 7' 18.10082°, W 104° 15' 56.21358° N 408015.180 ftUS, E 562301.640 ftUS 0.0360 ° 0.0360 ° 0.0360 ° 0.3650 °	55 AM (D 83) 6 Federal Com 10) 6 Federal Com 10) 5 Federal Com 10) 9 ft / 6.376 / 1.038 State Plane, Easte W 104 * 15' 56.21; 2 562301.640 ftUS E 562301.640 ftUS	imarex Pintall v1 RM 25Mar2 one, US Feet	23-26 Federal 2016	Survey / DLS Computation: Vertical Section Azimuth: Vertical Section Origin: TVD Reference Elevation: Seabed / Ground Elevation: Seabed / Ground Elevation: Magnetic Declination: Total Gravity Field Strength: Gravity Model: Total Magnetic Field Strength: Magnetic Dip Angle: Declination Date: Magnetic Declination Model: Magnetic Declination Model: Magnetic Declination Model: North Reference: Grid Convergence Used: Total Corr Mag North->Grid North:	: : : : : : : : : : : : : : : : : : :	Minimum Curvature / Lubinski 178.330 ° (Grid North) 0.000 ft, 0.000 ft Unknown 3298.700 ft above MSL 3298.700 ft above MSL 3298.700 ft above MSL 3298.700 ft above MSL 3298.4373mgn (9.80665 Based) 998.4373mgn (9.80665 Based) 6ARM 48145.024 nT 59.861 ° 59.861 ° February 01, 2016 HDGM 2015 Grid North 0.0360 ° 7.5718 °	/Lubinski SL SL i65 Based) Point			
Comments	Q₩ ₩	Inci (*)	Azim Grid (*)	0,£ 0,₿)	VSEC (ft)	SN (ff)	EW (ff)	(1)001/2) STO	Northing (ftUS)	Easting (ftUS)	Latitude (N/S * * ")	Longitude (E/W * ")
SHL [330' FNL, 1980' FWL]	0.00	0.00	0.00	0.00	00.0	0.00	0.00	N/A	408015.18	562301.64		W 104 15 56.21
KOP Build 12° DI S	9001.00	0.00	130.50	9001.00	0.00	00.0	0.00	0.00	408015.18	562301.64	N 32 718.10	W 104 15 56.21
Build and Turn Build 4° DLS	9459.33 9863.69	55.00 75.00	130.50 180.00	9392.12 9571.24	136.69 462.80	-132.23 -454.58	154.82 288.86	12.00 12.00	407882.96 407560.65		N 32 716.79 N 32 713.60	W 104 15 54.41 W 104 15 52.86
Landing Point Cimarex Pintail	10233.94		180.00	9620.04	828.63		288.86	4.00	407194.70		32 7 9.98	W 104 15 52.8
23-26 Federal Com 10H - PBHL	19324.77	89.81	180.00	.9650.00	9915.55	-9911.34	289.04	00.00	398104.76	562590.65	N 32 5 40.02	5 40.02 W 104 15 52.93
Survey Type:		Non-Def Plan										
Survey Error Model: Survey Program:		ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma	-D 95.000% Confid	lence 2.7955 sigma							·	
Description	E	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size Casing Diameter (in) (in)		Expected Max Inclination (deo)	Survey Tool Type	Type	Borehole / Survey	Survey
		-	0.00	19324 767	1/100-000	30,000	30.000		SI R MWD-STD		Original Borehole / Cimarex Pintail	Cimarex Pinta

...Original Borehole\Cimarex Pintail 23-26 Federal Com 10H Rev1 RM 25Mar2016

3/28/2016 10:53 AM Page 1 of 1

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Cimarex Pintail 23-26 Federal Com 10H Rev1 RM 25Mar2016 Proposal **Geodetic Report**

CINAREX

		(Non-Def Plan)	
Report Date:	March 28, 2016 - 09:57 AM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Cimarex	Vertical Section Azimuth:	178.330 ° (Grid North)
Field:	NM Eddy County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Pintail 23-26 Federal Com 10H / Cimarex Pintail 23-26 Federal Com 10H	TVD Reference Datum:	Unknown
Well:	Cimarex Pintail 23-26 Federal Com 10H	TVD Reference Elevation:	3298.700 ft above MSL
Borehole:	Original Borehole	Seabed / Ground Elevation:	3298.700 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7,608 °
Survey Name:	Cimarex Pintail 23-26 Federal Com 10H Rev1 RM 25Mar2016	Total Gravity Field Strength:	998.4373mgn (9.80665 Based)
Survey Date:	February 01, 2016	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	118.336 ° / 10020.479 ft / 6.376 / 1.038	Total Magnetic Field Strength:	48145.024 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.861 *
Location Lat / Long:	N 32° 7' 18.10082", W 104° 15' 56.21358"	Declination Date:	February 01, 2016
Location Grid N/E Y/X:	N 408015.180 ftUS, E 562301.640 ftUS	Magnetic Declination Model:	HDGM 2015
CRS Grid Convergence Angle:	0.0360 °	North Reference:	Grid North
Grid Scale Factor:	0.99990959	Grid Convergence Used:	0.0360 °
Version / Patch:	2.9.365.0	Total Corr Mag North->Grid North:	7.5718 °
		Local Coord Referenced To:	Structure Reference Point

Longitude (E/W ° ' '')	W 104 15 56.21	W 104 15 56.21	W 104 15 56.21	W 104 15 56.21	W 104 15 56.21	W 104 15 56.21	W 104 15 56.21	W 104 15 56.21	W 104 15 56.21	W 104 15 56.21	W 104 15 56.21	W 104 15 56.21	W 104 15 56.21	W 104 15 56.21	W 104 15 56.21	W 104 15 56.21	W 104 15 56.21	W 104 15 56.21	W 104 15 56.21	W 104 15 56.21	W 104 15 56.21	W 104 15 56.21	W 104 15 56.21	W 104 15 56.21	W 104 15 56.21	W 104 15 56.21
Latitude (N/S ° * ")	N 32 718.10	N 32 718.10	N 32 718.10	N 32 718.10	N 32 718.10	N 32 718.10	N 32 718.10	N 32 718.10	N 32 718.10	N 32 718.10	N 32 718.10		N 32 718.10	N 32 718,10	N 32 718.10	N 32 718.10	N 32 718.10	N 32 718.10	N 32 7 18.10	N 32 718.10	N 32 718.10					
Easting (ftUS)	562301.64	562301.64	562301.64	562301.64	562301.64	562301.64	562301.64	562301.64	562301.64	562301.64	562301.64	562301.64	562301.64	562301.64	562301.64	562301.64	562301.64	562301.64	562301.64	562301.64	562301.64	562301.64	562301.64	562301.64	562301.64	562301.64
Northing (ftUS)	408015.18	408015.18	408015.18	408015.18	408015.18	408015.18	408015.18	408015.18	408015.18	408015.18	408015.18	408015.18	408015.18	408015.18	408015.18	408015.18	408015.18	408015.18	408015.18	408015,18	408015,18	408015.18	408015.18	408015.18	408015.18	408015.18
DLS (*/100ft)	N/A	00'0	00'0	0.00	0.00	0.00	0.00	0.00	00.0	00'0	0.00	0.00	0.00	0.00	0.00	0.00	00.0	00'0	00'0	00'0	0.00	0.00	0.00	0.00	0.00	00'0
ĒŴ. (ft)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.0	00.00	0.00	0.0	0.0	0.00	0.00	00.00	0.00	0.00	0.00	0.0	0.00
NS (ff)	, 0.00	0.00	0.00	0.00	00.0	0.00	0.00	00.0	00.0	00.0	00.0	0.00	0.00	0.00	00.0	00.0	0.00	0.00	00'0	00.0	00.00	00.00	00.00	0.00	00.0	0.00
VSEC (ft)	00'0	0.00	00.0	0.00	0.00	0.00	00'0	00.0	0.00	0,00	0.00	00'0	0.00	0.00	0.00	0.0	0.00	00'0	00.00	00'0	00.00	0.00	0.00	0.00	00'0	00'0
TVD (#)	0.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00	900.006	1000.00	1100.00	1200.00	1300.00	1400.00	1500.00	1600.00	1700,00	1800.00	1900.00	2000.00	2100.00	2200.00	2300.00	2400.00	2500.00
Azim Grid (°)	0.00	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50
Incl (°)	0.00	0.00	0.00	00.0	00.0	00.0	00.0	0.00	00.0	00.0	00.0	0.00	0.00	00.0	00.00	0.00	0.00	00°0	0,00	0.00	0.00	0.00	0.00	0,00	0.00	0.00
MD (ff)	0.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00	900.006	1000.00	1100.00	1200.00	1300.00	1400.00	1500.00	1600.00	1700.00	1800.00	1900.00	2000.00	2100.00	2200.00	2300.00	2400.00	2500,00
Comments	SHL [330' FNL, 1980' FWL]																									

Longitude (F/W * * *')	104 15 56.21 -	4 15 56.21	5	5	ŝ	51	4 15 56.21 4 15 56 21	Ξť	ŝ	ŝ	ŝ	ά	4	÷ 1	ມ 1	<u>6</u>	÷,	4 15 35 21 1	эų	ъю	4 15 56.21	S I	.	ŝ	ŝ	104 15 56.21	13	; 13	5;		<u> </u>		13	15	15	5,	4 10 00.41		15	15	5	4 15 56.21 A 15 56 24	ΞĻ	ដ	5	15 56	15	ŝ	4 15 56.21 4 15 56 21	15 56	15	15 56.
Latitude /N/S ° ' ")	7 18.10 W	7 18.10 W	7 18.10 W	7 18.10 W	7 18.10 W	7 18.10 W	2 / 18.10 W 104	7 18 10 W	7 18.10 W	7 18.10 W	7 18.10 W	2 7 18.10 W 104	~	7 18.10 W	7 18.10 W	7 18.10 W	7 18.10 W	2 7 18.10 W 104	7 18 10 W	7 18.10 W	7 18.10	2	2 7 18.10 W 104	7 18.10	7 18.10 W	7 18.10	7 18.10	7 18.10 W	7 18.10 W	2 / 18.10 W 104	7 18 10 W	7 18.10 W	7 18.10 W	7 18.10	7 18.10 W	7 18.10 W	2 7 18 10 W 104	7 18.10 W	7 18.10	7 18.10 W	7 18.10 W	2 / 18.10 W 104	7 18 10 W	7 18.10 W	7 18.10 W	7 18.10	7 18.10 W	7 18.10 W	7 18.10 W 104	7 18.10 W	7 18.10 W	2 7 18,10 W 104
Easting (ftUS)	z	z	64 N	64 N	4 I	2 Z Z	562301.64 N 32 562301.64 N 32	4 N 1 0	2 7 8 7	2 Z	64 N	.64 N	.64 N	64 N	64 N	. S	2 Z Z	501.64 N 32 201.64 N 32	z z	zz	64 N	64 N	.64 N	64 N	64 N	64 S	z :	. S	z z	201.04 N 32 001.64 N 32	zz	z	.64 N	z	z	Z 2	562301.64 N 32	z	z	,64 N	z	562301.04 N 32 562301.64 N 32	5 7 2	64 N 3	.64 N	64	.64 N	z	562301.64 N 32	: Z	64 N 3	
			8	18	8	<u></u>	ρα	<u> </u>	<u> </u>	<u></u>		.18 562301	. 18	8	8			.10 0023U1. 18 562201												105205 01.				-,					·					<u>8</u>	.18 562301	.18 562301.						
Northing (ftus)	4080		408015	408015	408015	408015.	408015.	408015	408015	408015	408015.18	408015	408015.	408015	408015.	408015.18	408015.	400015.10 408015.18			408015.18	408015.18	408015.18	408015.18	408015.18	408015.18	408015.18	408015.18	408015.18	400015.10	408015.18	408015.18	408015.18	408015.18	408015.18	408015.18	408015.10 408015.18	408015.18	408015.18	408015.18	408015.	408015.10	408015	408015.18	408015.18	408015.18	408015.18	408015.18 409045 40	408015.18	408015.18	408015.18	408015.18
DLS (*/100ft)	0.00	00.0	0.00	0.00	0.00	0.00	0.00	000	00.0	0.00	0.00	00.00	00.00	0.00	0.00	0.00			00.0	0.0	0.00	0.00	00'0	0.00	00.00	0.00	0.00	0.00	00.0	00.0		00.0	0.00	0.00	0.00		00.0	0.00	00.0	0.00	0.00		00.0	0.00	00.0	00.0	0.00	0.00	0000	0,00	0.00	0.00
EW (ft)	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.0	000	000	0.00	0.00	0.00	0.00	0.00	000	0.00	0.00	0.00	0.00	800	00'0	0.00	0.00	0.00	0.00	0.0	00.0	00.0	0.00	0.00
SN (#)	0.00	0,00	0.00	0.00	0.00	. 0.00		000	00.00	0.00	0.00	00.00	0.00	0.00	0.00	0.00	0.00		00.0	00.0	0.00	00.0	00.00	00.0	0.00	0.00	0.00	0.00	0.00	000	000	0.0	00.0	00'0	0.00	00'D		0.0	0.00	00.0	0.00		0.0	0.00	0.00	0.00	0.00	00.0	000	00.0	0.00	0.00
VSEC (ft)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	000	00.0	00.0	0.00	00.0	0.00	0.00	0.00	0.00	0.00		000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	000	000	0.0	00.0	0.00	0.00	00.0	0.00	00.0	0.00	0.00	0.00	0.00		00.0	0.00	0.00	0.00	0.00	0.00	00.0	00.0	0.00	0.00
d∑t ∰	2600.00	2700.00	2800.00	2900.00	3000.00	3100.00 2220.00	3200.00	3400.00	3500.00	3600.00	3700.00	3800.00	3900,00	4000.00	4100.00	4200.00	4300.00	4400.00 4500.00	4600.00	4700.00	4800.00	4900.00	5000.00	5100.00	5200.00	5300.00	5400.00	5500.00	2600,000	5800.00 5800.00	5900.00	6000.00	6100.00	6200.00	6300.00	6400.00 6500 00	6600.00 6600.00	6700.00	6800,00	6900.00	/000.00	7200.00	7300.00	7400.00	7500.00	7600.00 .	7700.00	7800.00	8000.00	8100.00	8200.00	8300.00
id C																																-																				
Azim Grid (*)	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130,50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130,50	130.50	130,50	130.50	130.50	130.50	130.50	130.	130.50	130.	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130.50	130,50	130,50	130.50	130.50
Incl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.0	00.0	0,00	00.00	0.00	0.00	0.00	0.00	0.00	0.00	00.0	0.00	00.0	0.00	00'0	00'0	0.00	0,00	0.00		0.00	0.00	800	0.00	0.00	0.00	0.00	0.00	00.0	000	0.00	0.00	0.00	00.0		00.0	0.00	0.00	0.00	0.00	0.0	. 00.0	0.00	0.00	, 0.00
MD (ff)	2600.00	2700.00	2800.00	2900.00	3000.00	3100.00	3300.00	3400.00	3500,00	3600,00	3700.00	3800.00	3900.00	4000.00	4100.00	4200.00	4300.00	4500.00	4600.00	4700,00	4800.00	4900.00	5000.00	5100.00	5200.00	5300.00	5400.00		5600.00		5900.00	6000.00	6100.00	6200.00	6300.00	6400.00	6600.00	6700,00	6800.00	6900.00	/000.00	7200.00	7300,00	7400.00	7500.00	7600.00	7700.00	7900.00	8000.00 8000.00	8100.00	8200.00	8300.00
ts																																																				
Comments																																																				

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Comments	MD (ff)	Inci (°)	Azim Grid (°)	Q (₽)	VSEC (ft)	(tt)	EW (ft)	(_/100ft) DLS	Northing (ftUS)	_	Latitude N/S ° 1 ")	Longitude (E/W * * ")
	8400.00 8500.00	0.0 0.0	130.50 130.50	8400.00 8500.00	0.00	0.00	0.0	0.00	408015.18 408015.18	562301.64 N 562301.64 N	32 718.10 W1 32 718.10 W1	104 15 56.21 + 104 15 56.21
	8600.00	0.00	130.50	8600.00	0.00	0.00	0.00	0.00	408015.18		7 18.10 W	104 15 56.21
	- 8700.00 8800.00	0.0	130.50 130.50	8700.00 8800.00	0.00	0.0	0.00	0.0	408015.18 408015.18	562301.64 N 562301.64 N	32 7 18.10 W 1 32 7 18.10 W 1	104 15 56.21
	00.000	0.0	130.50	8900.00	0.0	00.0	0.00	0.00	408015.18		7 18.10	2 12 1
KOP Build 12°	9000.00 6001.00	00.0	130.50	9000.00	00.0		0.00	0.00	408015.18	562301.64 N	\$ 3	104 15 56.21
DLS		11 80	130.50		0.00 8	0.0	0 0 1 0 0	0.00	40000 13.10		7 10.10 W	<u> </u>
	9200.00	23.88	130.50	9194 29	27.44	-0.04 26.55	31.08	12.00	407988.64	562332772 N	33	104 15 55 85 104 15 55 85
	9300.00	35.88	130.50	9280.84	60.82	-58.84	68.89	12.00	407956.34	_	7 17.52 W	
	9400.00	47.88	• 130.50	9355.16	105.56	-102.12	119.56	12.00	407913.07	562421.19 N	7 17.09 W	-
Build and Turn	9459.33	55.00	130.50	9392.12	136.69	-132.23	154.82	12.00	407882.96	562456.45 N	7 16.79 W	15
	9500.00 9600.00	56.10 59.87	136.27	9415.13 9468.31	160.41 229.44	-155.25 -222 83	179.17 229 85	12.00	407859.94 407792 37	562480.79 N 562531.47 N	32 7 16.56 W 1 32 7 15 80 W 1	104 15 54.13 404 46 69 64
	9700.00	64.90	162.02	9514.79	311.16	-303.54	265.76	12.00	407711.67		7 15.10 W	
	9800.00	70.86	173.28	9552.53	402.00	-393.85	285.34	12.00	407621.37	_	7 14.20 W	· •
Build 4° DLS	9863.69	75.00	180.00	9571.24	462.80	-454.58	288.86	12.00	407560.65	562590.48 N	7 13.60 W	÷.
	9900.00 10000.00	70.45 80.45	180.00	9580.20 9600 21	497.95 505.80	-489.75	288.85 288.86	00.4	40/525.46 407437 51	562590.48 N	32 / 13.25 W 1	104 15 52.86 104 15 52.86
	10100.00	84,45	180.00	9613.34	694,96	-586,83	288.86	00,4	407328.41	562590.48 N	7 11.30 W	
	10200.00	88.45	180.00	9619.53	794.71	-786.62	288.86	4,00	407228.63	562590.48 N	7 10.32 W	-
Landing Point	10233.94	89.81	180.00	9620.04	828.63	-820.56	288.86	4,00	407194.70	562590.48 N	7 9.98 W	
	10300,00	89.81 90.01	180.00	9620.26 0620.60	894.66 004 67	-886,62	288.86	0.00	407128.64	562590.48 N	7 9.33	
	10500.00	08.01 89.81	180.00	9620.93	384.02 1094 57	-300.02	288.86 288.86		407028.65 406928.66	N 84.080200	32 / 8.34 W 104 32 7 7 35 W 104	104 15 52.86 104 15 52 86
	10600.00	89.81	180.00	9621.26	1194.53	-1186,62	288.86	0.00	406828.67	562590.48 N	7 6.36 W	
	10700.00	89.81	180.00	9621.59	1294.49	-1286.62	288.86	0.00	406728.68	562590.48 N	7 5.37 W	· -
	10800.00	89.81	180.00	9621.92	1394.45	-1386.61	288.86	0.00	406628.69	562590.48 N	≥	104 15 52.87
	10900.00	89.81	180.00	9622.25	1494.40	-1486.61	288.86	0.00	406528.70	562590.48 N	7 3.39 W	Ţ
	11000.00	89.81	180.00	9622.58	1594.36	-1586.61	288.86	0.00	406428.71	562590.48 N	7 2.40 W	<u> </u>
	11200.00	80.81 80.81	180.00	9623.25	1794.32	-1585.61 -1786.61	288.87	0.00	406328.72 406778.73	562590.48 N	32 7 1.41 W 1 32 7 0 42 W 1	104 15 52.87 104 15 52 87
	11300.00	89.81	180.00	9623.58	1894.23	-1886.61	288.87	00.0	406128.74	562590.48 N	6.59.43 W	
	11400.00	89.81	180.00	9623.91	1994.19	-1986.61	288.87	0.00	406028.75	562590.48 N	6 58.44 W	
	11500.00	89.81	180.00	9624.24	2094.14	-2086.61	288.87	0.00	405928.76	562590.48 N	6 57.45 W	-
	11600.00	89.81	180.00	9624.57	2194.10	-2186.61	288.87	0.00	405828.77	562590.48 N	6 56.46 W	<u> </u>
	11800.00	80.81 80.81	180.00	9625,30 0625,23	2294.05 7394.07	-2286.61	288.87	000	405/28.78 405628.70	562590.48 N	32 655.47 W 1 32 654.48 W 1	104 15 52.87
	11900.00	89.81	180.00	9625.56	2493.97	-2486.61	288.87	0.00	405528.80	562590.48 N	6 53.49 W	
	12000.00	89.81	180.00	9625.89	2593.93	-2586.61	288.87	0.00	405428.81	562590.48 N	6 52.50 W	-
	12100.00	89.81 80.91	180.00	9626.22 Dene fe	2693.89	-2686.61	288.87	0.00	405328.82	562590.48 N	6 51.51 W	
	12300.00	89.81 89.81	180.00	9626.89	2/ 33.04	-2/ 00.01	288.87	0000	405128.83 405128.84	567590.49 N	32 6 20.52 W1 32 6 49 54 W1	104 15 52.88 104 15 52 88
	12400.00	89.81	180,00	9627.22	2993.76	-2986,61	288.87	00'0	405028.85	562590.49 N	6 48.55 W	
	12500,00	89.81	180.00	9627.55	3093.71	-3086,61	288.87	00'0	404928.86	_	647.56 W	-
	12600.00	89.81	180.00	9627.88	3193.67	-3186.60	288.88	0.00	404828.87	562590.49 N	646.57 W	15
	12/00.00	89.81 80.81	180.00	9628.21 0620 54	3293.63	-3286.60	288.88	0.00	404728.88	562590.49 N	6 45.58 W	15
	12900.00	89.81 89.81	180.00	9628.87	3493.54	-3486.60	288.88	0000	404528.690	562590.49 N	32 644.59 W 1 32 643.60 W 1	104 15 52.88 104 15 52 88
	13000,00	89.81	180.00	9629.20	3593.50	-3586.60	288.88	0.00	404428.91		6 42.61 W	5 5
	13100.00	89.81 -	180.00	9629.53	3693,46	-3686.60	288.88	0.00	404328.92		6 41.62 W	15
	13200.00	89.81	180.00	9629.86	3793.41	-3786,60	288.88	0.00	404228.93	562590.50 N	6 40.63 W	<u> </u>
	13300.00	89.81 90.91	180.00	9630.19 0630.62	3893.37	-3886.60	288.88	0.00	404128.94	562590.50 N	6 39.64 W	5, 5
	13500.00	89.81	180.00	9630.85	4093.28	-3300.00	288.89	0.00	404020.93 403928.96	562500 50 N	6 38.05 W	104 15 52.88 104 15 52 88
	13600,00	89.81	180.00	9631.18	4193.24	-4186.60	288.89	00.0	403828.97	562590.50 N	36.67 W	5 12

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Comments																																																		

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Longitude (E/W ° • ")	5 40.02 W 104 15 52.93			Irvey	marex Pintall 0H Rev1 RM
Latitude (N/S ° * ")	32			Borehole / Survey	Uriginal Borehole / Cimarex Printail 23-26 Federal Com 10H Rev1 RM
Easting (ftUS)	562590.65 N				
Northing (ftUS)	398104.76			Survey Tool Type	SLB_MWD-STD
DLS (*/100ft)	00'0			Expected Max Inclination (deg)	
(ft) EV	289.04			Hole Size Casing Diameter (in)	30.000
SN (E)	-9911.34			Hole Size Ca (in)	30,000
VSEC (#)	9915.55			EOU Freq (ft)	1/100.000
Ð Ð	9650.00		ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma	MD To (ft)	19324.767
Azim Grid (°)	180.00		D 95.000% Confide	MD From (ft)	0.000
lncl C	89.81	Non-Def Plan	WSA Rev 0 *** 3-	Part	-
MD (ff)	19324.77	N	ISC	-	
Comments	Cimarex Pintail 23-26 Federal Com 10H - PBHL	Survey Type:	Survey Error Model: Survey Program:	Description	

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...Original Borehole/Cimarex Pintail 23-26 Federal Com 10H Rev1 RM 25Mar2016

3/28/2016 10:54 AM Page 5 of 5

Cimar 2	Exhibit F-1 23-26 Fed C ex Energy Co 3 & 26-255-2 Idy County, N	mpany 6E		N "						
			Midwes & Specia							
	11	NTERNAL	HYDROST	ATIC TEST	REPO	RT				
	Custome		derco Inc		P.O. Num	nber: lyd-27 [,]	1			
			HOSE SPECI	FICATIONS						
	Туре:	Stainless : Choke & M	Steel Armor (ill Hose		Hose Leng	gth:	45'ft.			
	I.D.	4		0.D.	9	<u> </u>	VCHÈS			
		PRESSURE	TEST PRESSUR		BURST PRE	ESSURE	PSI			
	10,000) <u>PSi</u>	15,000	PLINGS						
	Stem Pa	rt No.		Ferrule No.						
		OKC OKC			OKC OKC					
	OKC OKC Type of Coupling: Swage-It									
			PRO	CEDURE						
		<u>Hose assembl</u>	y pressure tested w	ith water at ambien	t temperature					
		TIME HELD AT	TEST PRESSURE	ACTUAL E	URST PRESS	URE:				
	Hose As	<u>18</u> sembly Seri 79793	al Number:	Hose Serial I	Number: OKC	0	PSI			
	Commer									
	Date: 3/t	3/2011	Tested:	Jaim Sam	Approved:	ist fe				

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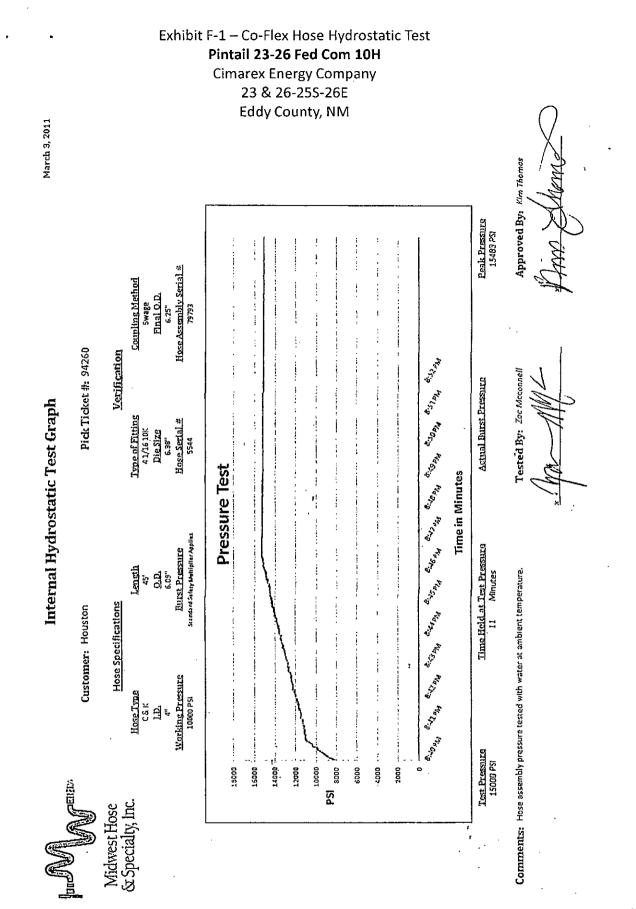


Exhibit F-2 – Co Pintail 23-26 Fe Cimarex Energ 23 & 26-2	ed Com 10H	M			
Eddy Coun	nty, NM				
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[icate of Confe		<u> </u>	
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· · · ·	DEM			DYD-271	
Sales		Dated:	<u>s</u>		2 (Constant)
	79793		3/8/2011	1	
				<u>,</u>	
	We hereby cerify				
· .	for the referenced according to the			9	
	order and current	t industry standa	ards		
	Supplier: Midwest Hose &				
	10640 Tanner Ro Houston, Texas 7				
		•			
Comn	nents:		<u>`</u>		
	ed:		Date:	/8/2011	
Approve	Sand Genera		3		11 11 11 11



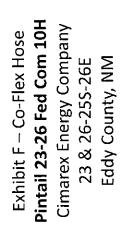
Exhibit F -3- Co-Flex Hose **Pintail 23-26 Fed Com 10H** Cimarex Energy Company 23 & 26-25S-26E Eddy County, NM

Specification Sheet Choke & Kill Hose

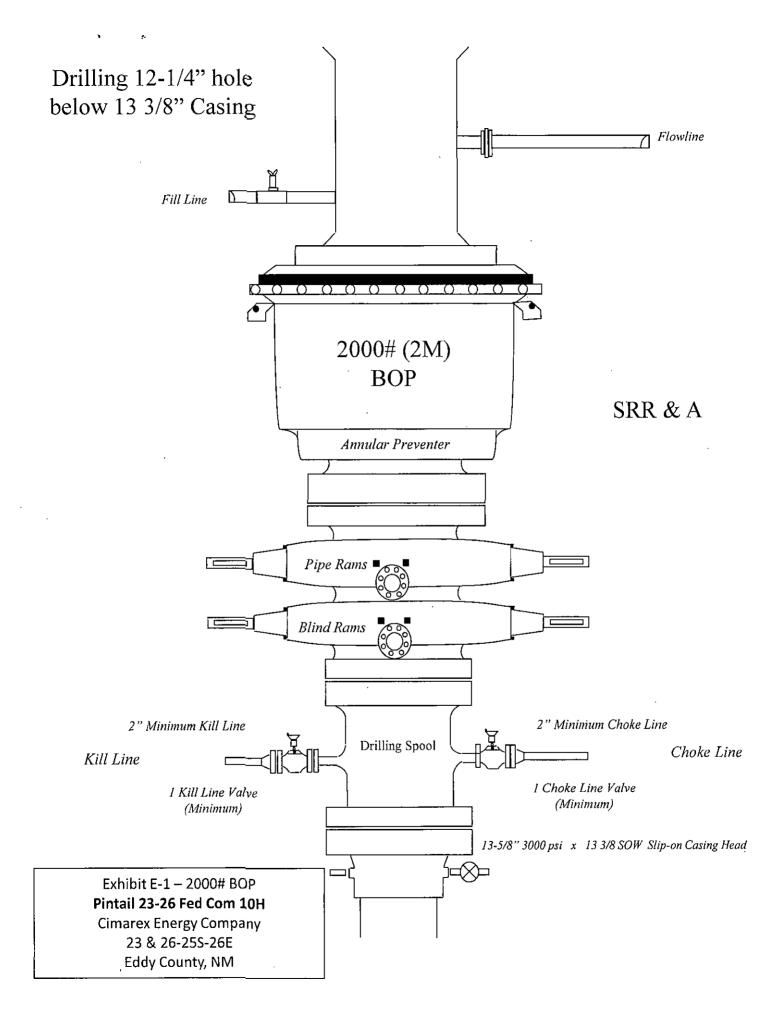
The Midwest Hose & Specialty Choke & Kill hose is manufactured with only premium componets. The reinforcement cables, inner liner and cover are made of the highest quality material to handle the tough drilling applications of today's industry. The end connections are available with API flanges, API male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

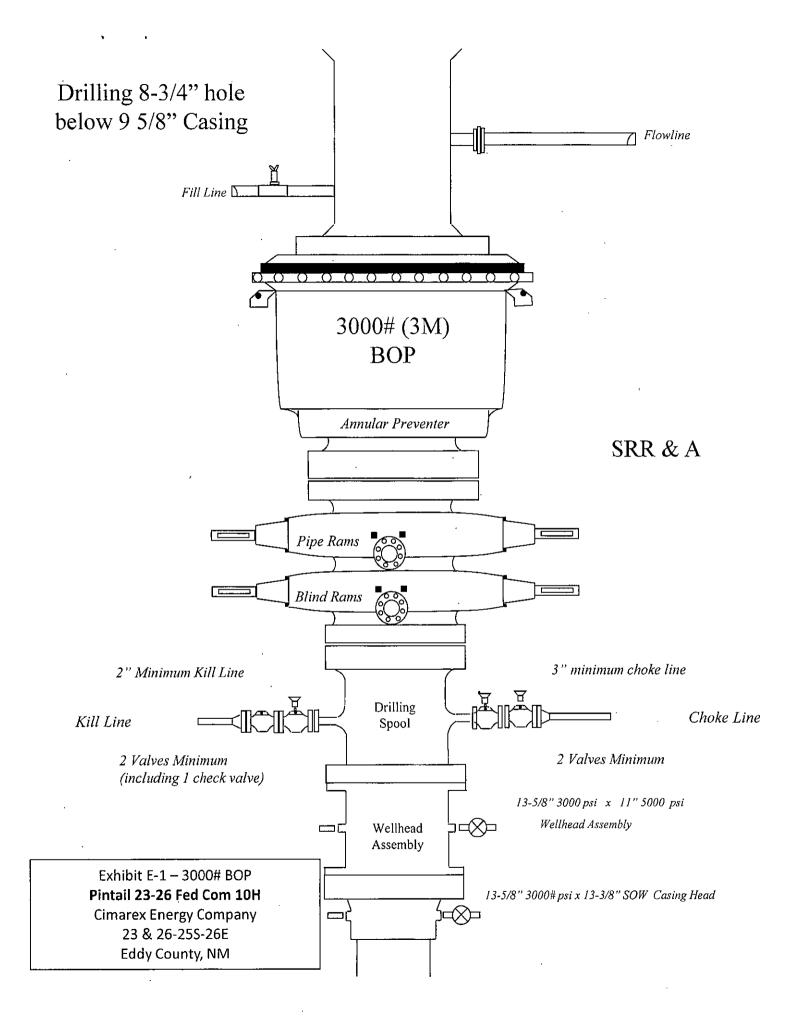
Working Pressure;	5,000 or 10,000 psi working pressure
Test Pressure:	10,000 or 15,000 psi test pressure
Reinforcement:	Multiple steel cables
Cover:	Stainless Steel Armor
Inner Tube:	Petroleum resistant, Abrasion resistant
End Fitting:	API flanges, API male threads, threaded or butt weld hammer unions, 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)

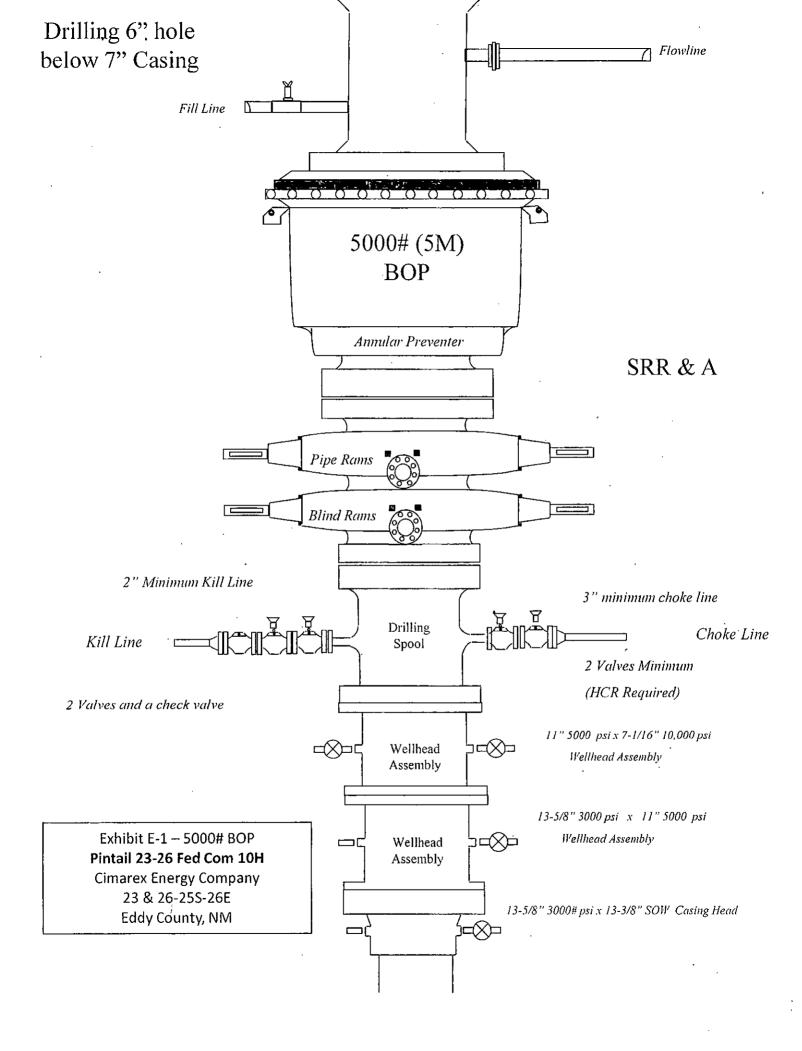
P.O. Box 96558 - 1421 S.E. 29th St. Oklahoma City, OK 73143 * (405) 670-6718 * Fax: (405) 670-6816

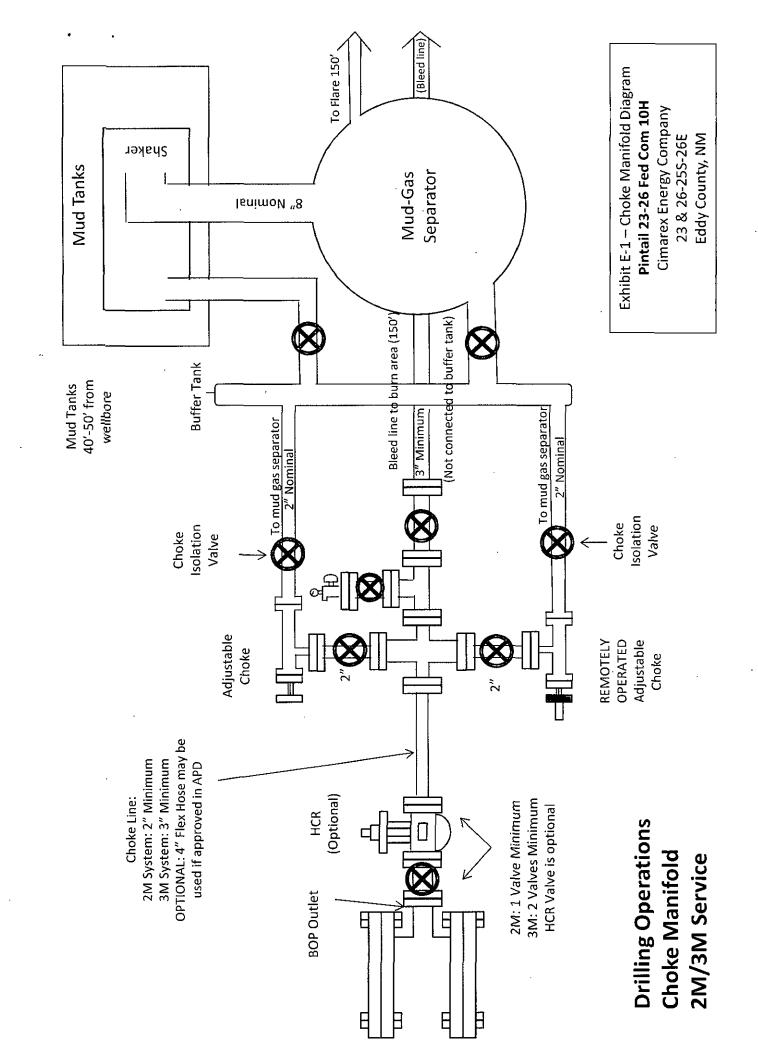


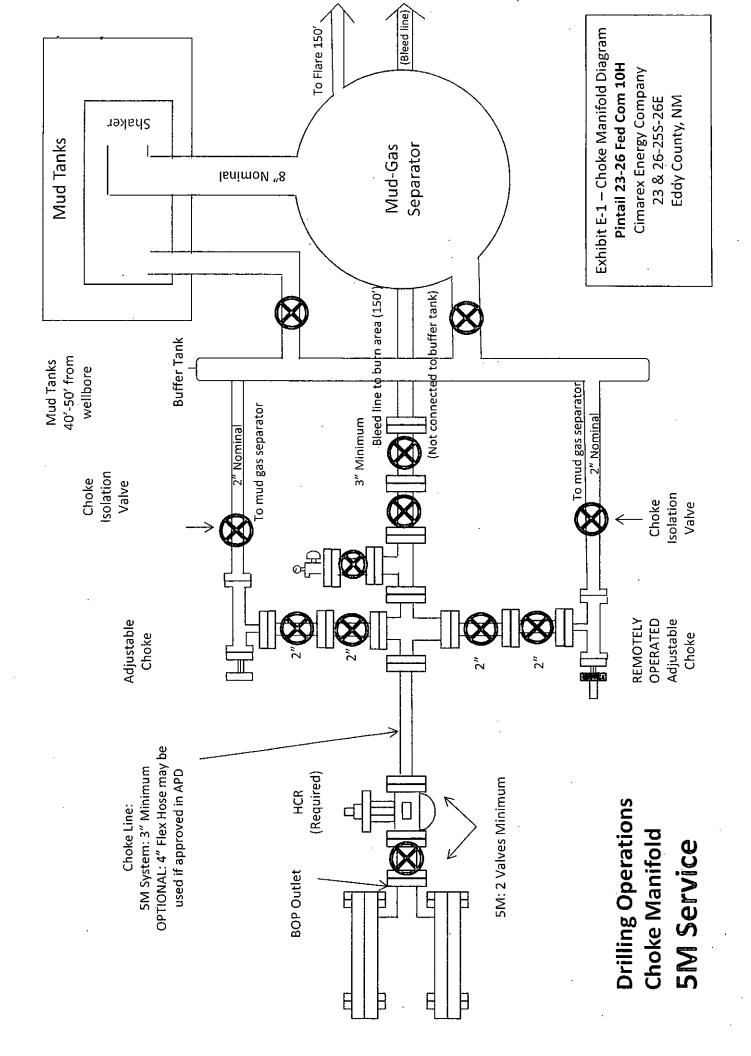












- 1 <u>All Company and Contract personnel admitted on location must be trained by a qualified</u> <u>H2S safety instructor to the following:</u>
 - A. Characteristics of H₂S
 - B. Physical effects and hazards
 - C. Principal and operation of H2S detectors, warning system and briefing areas.
 - D. Evacuation 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.
 - ₿. ∙
- 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 10H** Cimarex Energy Co. UL: C 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.

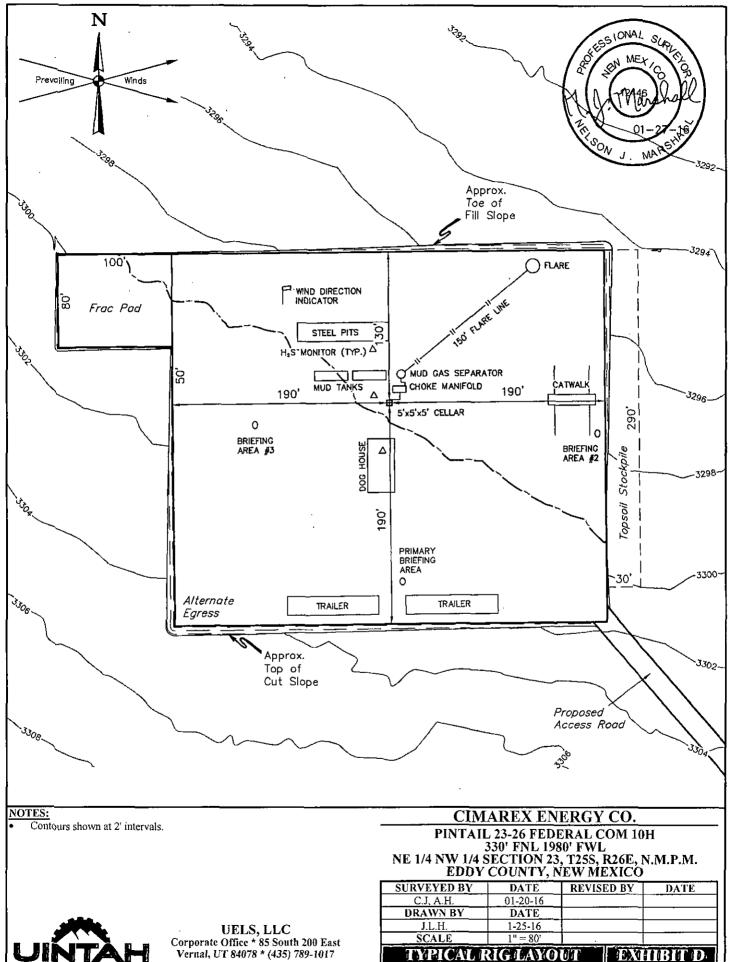
Contacting Authorities

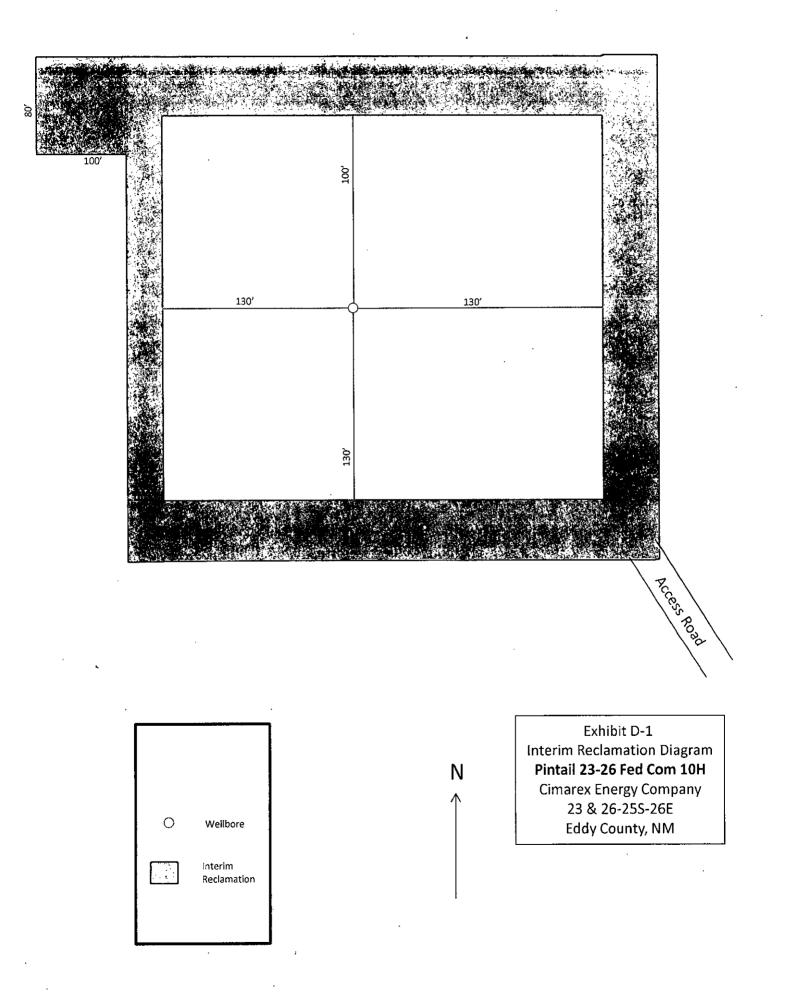
Cimarex Energy Co. of Colorado's personnel must liaise with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, 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 10H** Cimarex Energy Co. UL: C Sec. 23, 25S, 26E Eddy Co., NM

Cimarex Energy Co. of Color	800-969-4789			
Co. Office and After-Hours				
_				
<u>Key Personnel</u>		- .		
Name	Title	Office		Mobile
arry 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	575-746-2122			
New Mexico Oil Conserva	575-748-1283			
Carlsbad				
Ambulance		911		
State Police		575-885-3137	· · ·	
City Police	575-885-2111		_ <u>.</u>	
Sheriff's Office	575-887-7551			
Fire Department	575-887-3798			
Local Emergency Planning	575-887-6544			
US Bureau of Land Manag	gement	575-887-6544		
Santa Fe				
New Mexico Emergency Response Commission (Santa Fe)		505-476-9600		•
New Mexico Emergency I	505-827-9126			
New Mexico State Emerg	505-476-9635			
National				
	oonse Center (Washington, D.C.)	800-424-8802		
			_	
Medical	Challenge TV	006 742 0011		
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		
5B Air Med Service - 2505	S Clark Carr Loop S.E.; Albuquerque, NM	505-842-4949		ü
<u>Other</u>				
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		







Cimarex Energy Co. UL: C, 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 cattleguards, 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 TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 564' TO THE PROPOSED LOCATION.

2. New of Reconstructed Access Roads:

- A new road will be constructed for this project.
- Cimarex Energy plans to construct 564.29' 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.

Cimarex Energy Co. UL: C, 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.
- An additional off lease road 203.5' to access the battery will be constructed. Please see Exhibit P-2.
- Allocation will be based on well test. Flowline route is on lease, please see Exhibit G. 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

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- Cimarex plans to construct an off lease gas pipeline to service this battery location.
- Please see Exhibit G-1 for pipeline routes.
- Specification of pipeline: 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' South of the access road.
- Length of Gas Lift Line: 388.29'
- · Length of Flowlines: 388.29'
- MAOP: Flowline 1500 psi, Gas lift 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: 4" 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 240.07' in length. 1-40'poles, 12,470 volt, 4 wire, 3 phase. The electric line will exit off the SE side of the well location and travel SE for 240.07' 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.

Cimarex Energy Co. UL: C, 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.

Cimarex Energy Co. UL: C, 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. Revegetation procedures will comply with BLM standards.
- If the well is a dry hole, the pad and road area will be recountoured to match the existing terrain. Topsoil will be spread to the extent possible. Revegetation will comply with BLM standards.
- Should the well be a producer, those areas of the location not essential to production facilities and operations will be reclaimed and seeded per BLM requirements. 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 1¹/₂ 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. OK where staked. V-Door East. Frac pad northwest corner (West). Top soil east. Interim reclamation: All sides. Berm pad. Access road off southeast corner, south, to lease road and off-site battery. Staked an E-line and buried Gas lift/Production pipeline to follow access road to battery and existing E-line at lease road (South side). 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 also 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 & 2300'/W, sec. 26			
LOCATION:	Section 23, T. 25 S., R. 26 E., NMPM			
COUNTY:	Eddy County, New Mexico			

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

General Provisions Permit Expiration Archaeology, Paleontology, and Historical Sites Noxious Weeds Special Requirements Communitization Agreement Cave/Karst **Construction** Notification Topsoil Closed Loop System Federal Mineral Material Pits Well Pads Roads **Road Section Diagram** Drilling **Cement Requirements** High Cave/Karst Logging Requirements Waste Material and Fluids **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. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

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 $1\frac{1}{2}$ 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, situating values 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 values, 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 cavebearing 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 outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

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

Cross Section of a Typical Lead-off Ditch 6" Berm on Down Slope Side

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 foot road with 4% road slope: 400' + 100' = 200' lead-off ditch interval 4%

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.

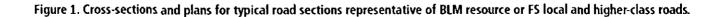
Fence Requirement

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 3. Redistribute topsoil 1. Salvage topsoil 4. Revegetate slopes 2. Construct road center line of roadway shoulder tumout 10' transition 100 25' transition 25 full turnout width Intervisible turnouts shall be constructed on all single lane roads on all blind curves with additional tunouts as needed to keep spacing below 1000 feet. **Typical Turnout Plan** σown natural ground A REAL AND A STATE OF A ANTIA THAN STATES THE **Level Ground Section** road crown type earth surface .03 - .05 ft/ft .02 – .04 ft/ft aggregate surface paved surface .02 - .03 ft/ft Depth measured from the bottom of the ditch **Side Hill Section** THE REAL center line center line travel surface travel surface ---(slope 2 - 4%) (slope 2 - 4%) **Typical Outsloped Section Typical Inslope Section**



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 <u>8 hours</u>. 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

<u>A MINIMUM OF TWO CASING STRINGS CEMENTED TO SURFACE IS</u> <u>REQUIRED IN HIGH CAVE/KARST AREAS.</u> 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.

- 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.

- 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.
- 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.

CRW 042516

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 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, <u>Shale Green</u> from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

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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 <u>et seq.</u> (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, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, <u>et seq</u>.) 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 $\underline{30}$ 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 <u>30</u> 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.*)

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.

(X) seed mixture 1	() seed mixture 3
() seed mixture 2	() seed mixture 4
() seed mixture 2/LPC	() 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-ofway 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. <u>Escape Ramps</u> - 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 <u>et seq</u>. (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, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, <u>et seq</u>.) 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

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>	lb/acre
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 *Newl* 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.

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