NM OIL CONSERVATION

ATS-16-349

Form 3160-3 (June 2015)

OCD Artesia

MAY 1 9 2016

FORM APPROVED OMB No. 1004-013 Expires January 31, 2018

	OTHER DITTIES
HIGH	CAVEKARS TEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT
	BOILDIO OF LAND MANAGEMENT

RECEIVED

5. Lease Serial No SHL: NMNM019423; BHL: NMNM092160

6. If Indian, Allotee or Tribe Name

APPLICATION FOR PERMIT TO DRILL OR REENTER

UNITED STATES

1a. Type of Work DRILL	REENTER	7. If Unit or CA Agreement, Name and No.
ib. Type of Well Gas Well	Other	8. Lease Name and Well No.
1c. Type of Completion Hydraulic Fracturing	Single Zone Multiple Zone	Hayduke 34-27 Federal Com #6H
2. Name of Operator Cimarex Energy Co.		9. API Well No. 30 015 43795
3a. Address 202 S. Cheyenne Ave., Ste 1000, Tulsa, OK 7410	3b. Phone No. (include area code) 3 918-585-1100	10 Field and Pool, or Exploratory SC-015 G-03 525 26 36 M Wildeat: Bone Spring
4. Location of Well (Report location clearly and in accorda At Surface 2372 FNL & 1913 FE At proposed prod. Zone 330 FNL & 1980 FEL	CL; Sec 34-25S-26E	11. Sec., T. R. M. or Blk. and Survey or Area 34, 25S, 26E
14. Distance in miles and direction from nearest town or post		12. County or Parish 13. State
Loving, NM is +/- 17.2 miles Northeasterly		Eddy
15. Distance from proposed* location to 1913 nearest property or lease line, ft. (Also to nearest drig, unit line if any)	16. No of acres in lease NMNM019423=2560.00 acres NMNM092160=1320.00 acres	Spacing Unit dedicated to this well 240.00
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 20. I Pilot Hole TD: N/A 14,589 MD 7,505 TVD	BLM/BIA Bond No. in file NMB001187: NMB001188
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3373 GR	22. Approximate date work will start* 23.1	Estimated duration 35 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- Well plat certified by a registered surveyor
- A Drilling Plan
- A Surface Use Plan (if the location is on National Forest System Lands , the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).

Date

- Such other site specific information and/or plans as may be required by the BLM.

25. Sign Title

Name (Printed/Typed)

Aricka Easterling

12/10/15

Regulatory Compliance

James A. Amos Approved By (Signature) FIELD MANAGER

Name (Printed/Typed)

Date CARLSBAD FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Conditions of approval, if any, are attached

APPROVAL FOR TWO YEARS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Carlsbad Controlled Water Basin

Approval Subject to General Requirements & Special Stipulations Attached

SEE ATTACHED FOR Ch CONDITIONS OF APPROVAL

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 811 S. First St., Artesia, NM 88210

Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

AMENDED REPORT

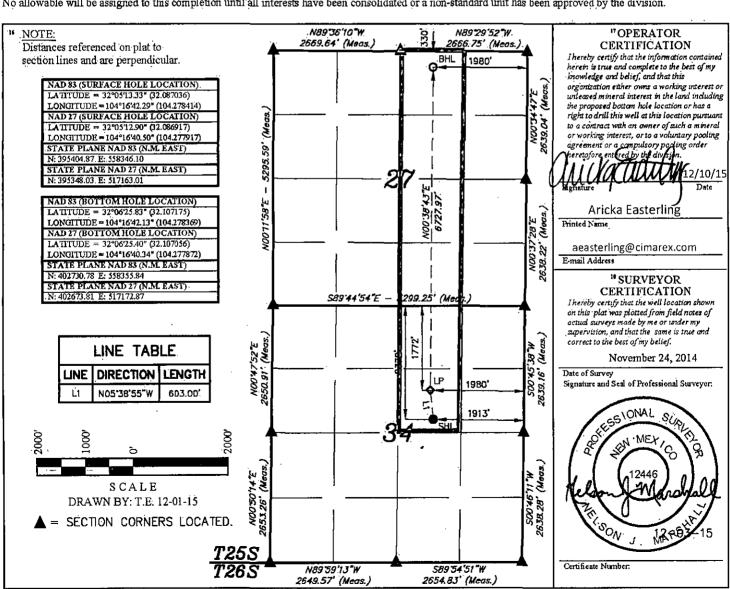
WELL LOCATION AND ACREAGE DEDICATION PLAT

30-015	13795 9	00-01	S 6035252000 3 Pooling Wildcat; E	Name. Bone Spring	•	
311 222	Property Cod Property Name HAYDUKE 34-27 FEDERAL COM					
OGRID No. 215099		1. Operator Name CIMAREX ENERGY CO.				
		" Surface Loca	tion			
UL or lot no. Section	Township Range Lot Id		rth/South line Feet from the NORTH 1913	East/West line EAST	County EDDY	

¹¹Bottom Hole Location If Different From Surface

Γ	UL or lot no.	Sect	ion	Township	Range:	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
- 1	В	2'		25S	26E		330	NORTH:	1980	EAST	EDDY
Г	12 Dedicated Acre	es	n Te	int or Infill	H Consc	didation Code	15 Order No.				
- 1	240				[· ·				

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



Operator Certification Statement Hayduke 34-27 Federal Com #6H

Cimarex Energy Co. UL: G, Sec. 34, 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. NMB001187: NMB001188.

Executed this 10 day of

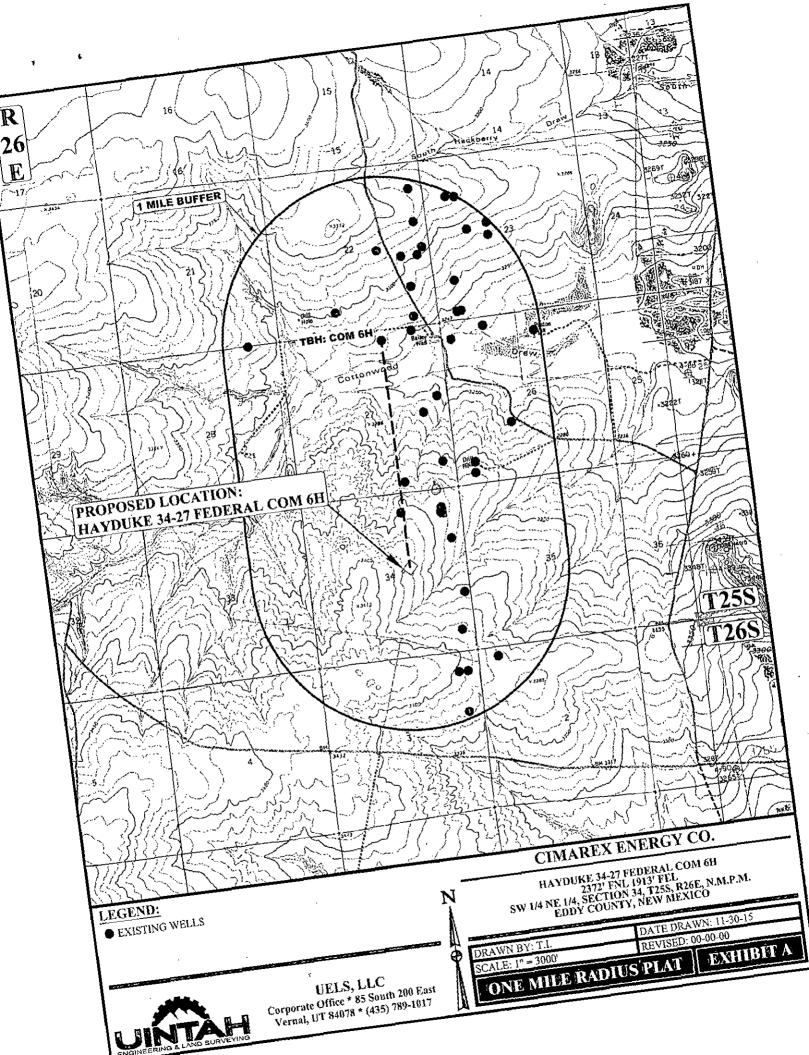
December

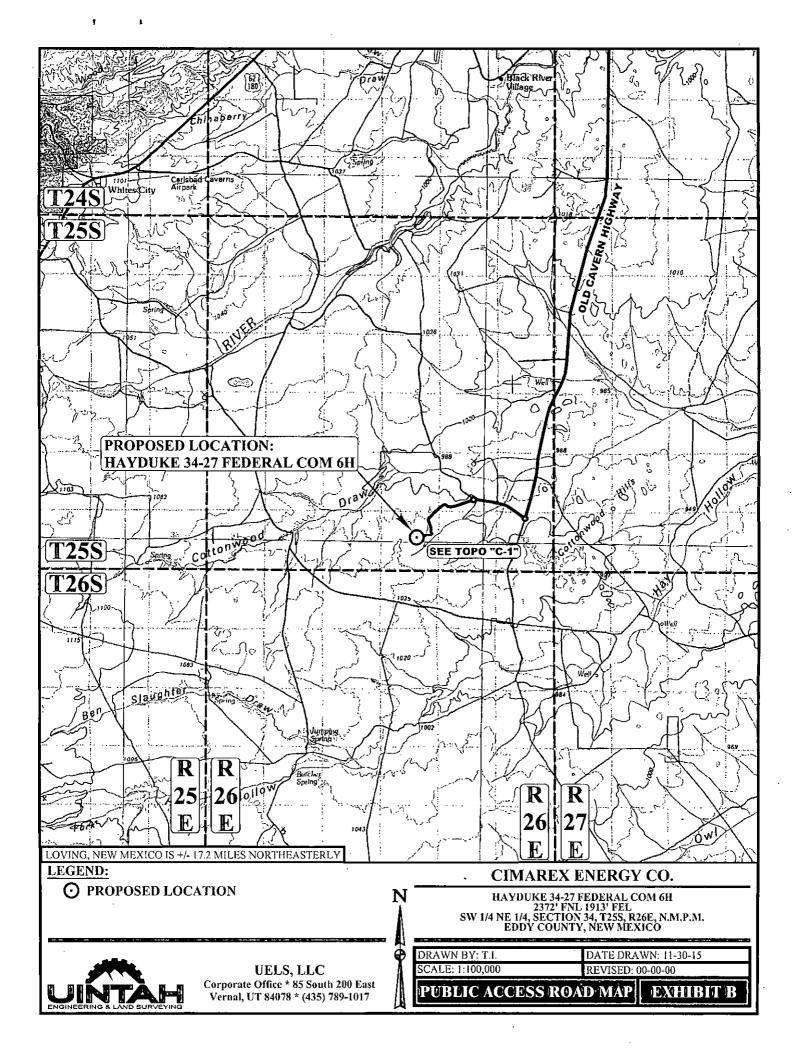
Aricka Easterling

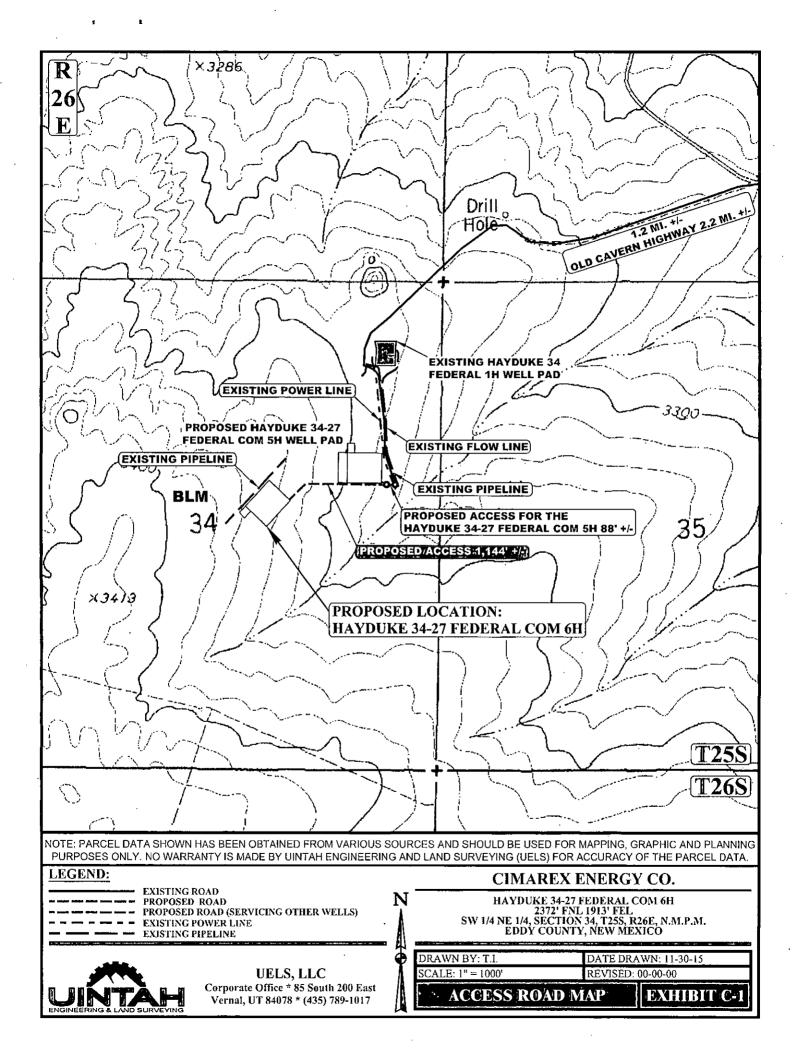
TITLE: Regulatory Compliance

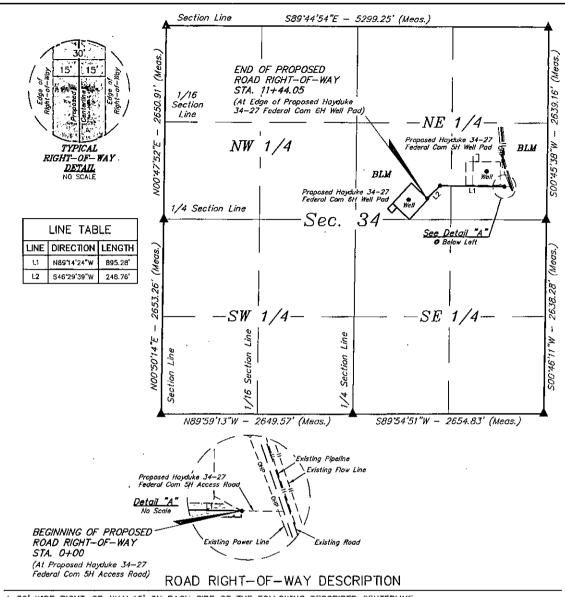
ADDRESS: 202 S. Cheyenne Ave., Ste 1000, Tulsa, OK 74103

TELEPHONE: 918-585-1100 EMAIL: AEasterling@cimarex.com Field Representative: Same as above









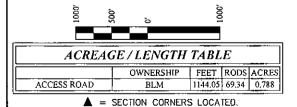
A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE SE 1/4 NE 1/4 OF SECTION 34, T25S, R26E, N.M.P.M., WHICH BEARS N51*43'44"W 733.65' FROM THE EAST 1/4 CORNER OF SAID SECTION 34, N89"14'24"W 895.28'; THENCE S46"29'39"W 248.76' TO A POINT IN THE SW 1/4 NE 1/4 OF SAID SECTION 34, WHICH BEARS N79"52'19"W 1677.76' FROM THE EAST 1/4 CORNER OF SAID SECTION 34. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.788 ACRES MORE OR LESS.

N

BEGINNING OF ROAD STA. 0+00 BEARS N51'43'44"W 733.65' FROM THE EAST 1/4 CORNER OF SECTION 34, T25S, R26E, N.M.P.M.

END OF ROAD STA. 11+44.05 BEARS N79'52'19"W 1677.76' FROM THE EAST 1/4 CORNER OF SECTION 34, T25S, R26E, N.M.P.M.



CERTIFICATES

THIS IS TO CERTIFY THAT THE ABOVEPUS YAS MEMBIND FROM THE LINGTES OF ACTUAL SURVEYS MADE BY ME OF RESTORM YOUR AND THAT THE SAME ARE TRUE AND CORRECT TO THE RESTORM KNOWLEDGE AND BELLEF.

REGISTRATE OF MEMBIND NO. 17416
STATE OF MEMBIND CO. 1. 2. 0.3. 15

Sheet 1 of 2

NOTES:
The maximum grade of existing ground for the proposed access road is ±2.6%.
Basis of bearing is a G.P.S. observation (Vertical Control Datum: NAVD88)

CIMAREX ENERGY CO.

IIAYDUKE 34-27 FEDERAL COM 6H SECTION 34, T258, R26E, N.M.P.M. EDDY COUNTY, NEW MEXICO



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

NUMBER	STATION	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
BEGIN	0+00.00	N 32°05'15.10"	W 104°16'26.79"
1	8+95.28	N 32°05'15.22"	W 104°16'37.20"
END	11+44.05	N 32°05'13.52"	W 104°16'39.29"

SECTION CORNER	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
SW COR. SEC. 34-T25S-R26E	N 32°04'44.45"	W 104°17'22.14"
W 1/4 COR. SEC. 34-T25S-R26E	N 32°05'10.70"	W 104°17'21.70"
NW COR. SEC. 34-T25S-R26E	N 32°05'36.93"	W 104°17'21.29"
NE COR. SEC. 34-T25S-R26E	N 32°05'36.72"	W 104°16'19.70"
E 1/4 COR. SEC. 34-T25S-R26E	N 32°05'10.61"	W 104°16'20.10"
SE COR. SEC. 34-T25S-R26E	N 32°04'44.51"	W 104°16'20.50"
S 1/4 COR. SEC. 34-T25S-R26E	N 32°04'44.46"	W 104°16'51.35"

Ν

CERTIFICATE SONAL SON
THIS IS TO CERTIFY THAT THE ABOVENLE WAS INTERMEDIATED FROM THE INOTES OF ACTUAL SURVEYS MADE BY ME OR EXTER MY LYBRINGSON AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF M KNOWLEDGE AND BELIEF.

REGISTRATED AND SURVEY OR BRIGISTRATED NO 17416 AS

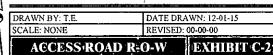
Sheet 2 of 2

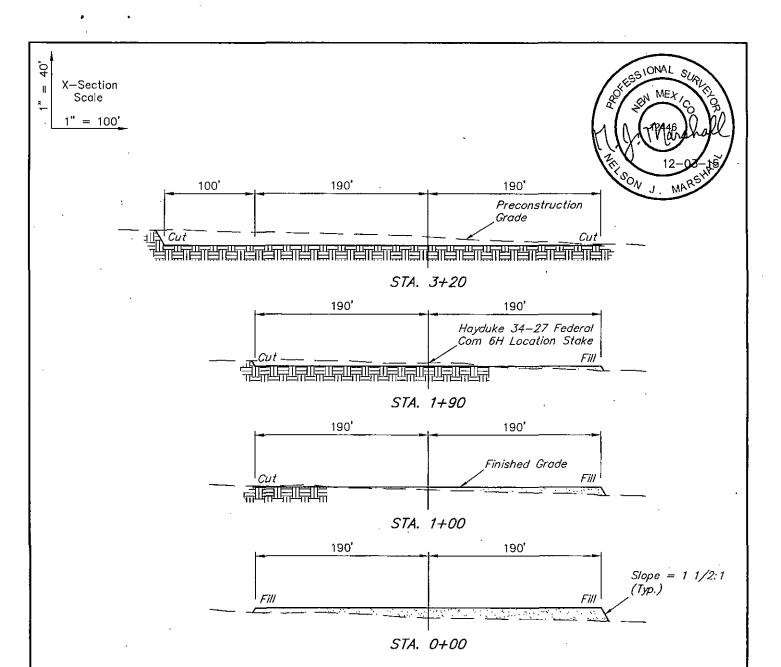
CIMAREX ENERGY CO.

HAYDUKE 34-27 FEDERAL COM 6H SECTION 34, T25S, R26E, N.M.P.M. EDDY COUNTY, NEW MEXICO



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





APPROXIMATE EARTHWORK QUANTITIES					
(4") TOPSOIL STRIPPING	1,710 Cu. Yds.				
REMAINING LOCATION	5,870 Cu. Yds.				
TOTAL CUT	7,580 Cu. Yds.				
FILL	5,870 Cu. Yds.				
EXCESS MATERIAL	1,710 Cu. Yds.				
TOPSOIL	1,710 Cu. Yds.				
EXCESS UNBALANCE (After Interim Rehabilitation)	0 Cu. Yds.				

APPROXIMATE SURFACE DISTURBANCE AREAS					
	DISTANCE	ACRES			
WELL SITE DISTURBANCE .	NA	±3.170			
30' WIDE ACCESS ROAD R-O-W DISTURBANCE	±1,144.05'	±0.788			
30' WIDE GAS LIFT PIPELINE R-O-W DISTURBANCE	±630.57'	±0.434 ·			
30' WIDE POWER LINE R-O-W DISTURBANCE	±0.986				
TOTAL SURFACE USE AREA		±5.378			

NOTES:

Fill quantity includes 5% for compaction.

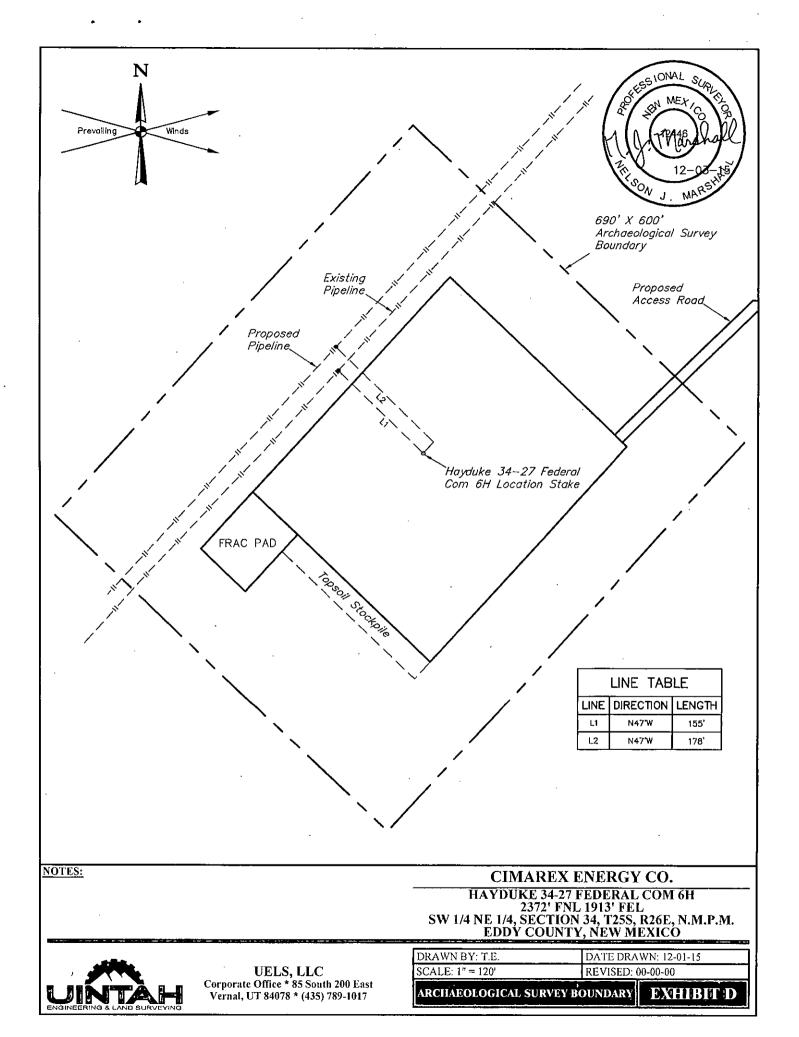
CIMAREX ENERGY CO.

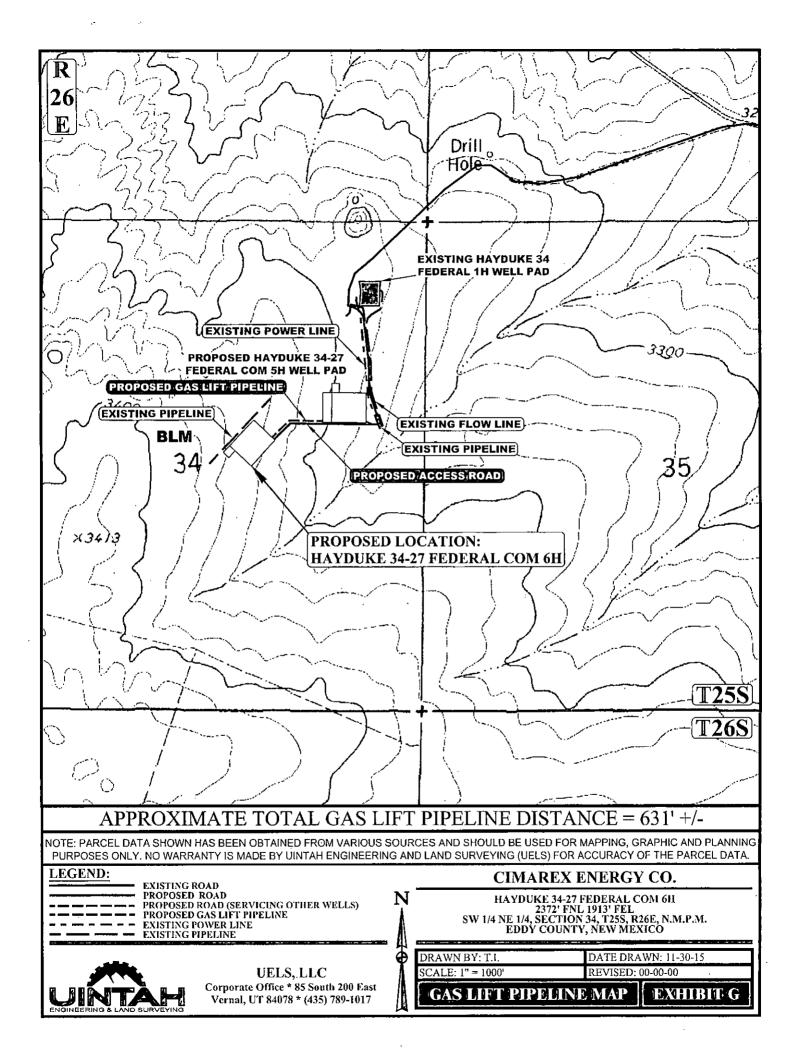
HAYDUKE 34-27 FEDERAL COM 6H 2372' FNL 1913' FEL SW 1/4 NE 1/4, SECTION 34, T25S, R26E, N.M.P.M. EDDY COUNTY, NEW MEXICO



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

TYPICAL CROSS	SECTIONS EX	HIRIT D
SCALE: AS SHOWN	REVISED: 00-00-0)0
DRAWN BY: T.E.	DATE DRAWN: 1	2-01-15
	D 4 (DE DD 4 11) 1 4	





NUMBER	STATION	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
BEGIN	0+00.00	N 32°05'13.72"	W 104°16'39.55"
1	2+61.96	N 32*05'15.51"	W 104°16'37.35"
END	6+30.57	N 32°05'15.47"	W 104°16'33.06"

SECTION CORNER	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
SW COR. SEC. 34-T25S-R26E	N 32°04'44.45"	W 104°17'22.14"
W 1/4 COR. SEC. 34-T25S-R26E	N 32°05'10.70"	W 104°17'21.70"
NW COR. SEC. 34-T25S-R26E	N 32°05'36.93"	W 104°17'21.29"
NE COR. SEC. 34-T25S-R26E	N 32°05'36.72"	W 104°16'19.70"
E 1/4 COR. SEC. 34-T25S-R26E	N 32°05'10.61"	W 104°16'20.10"
SE COR. SEC. 34-T25S-R26E	N 32°04'44.51"	W 104°16'20.50"
S 1/4 COR. SEC. 34-T25S-R26E	N 32°04'44.46"	W 104°16'51.35"

CERTIFICATES

THIS IS TO CERTIFY THAT THE ABOVEPT AT YAS A
NOTES OF ACTUAL SURVEYS MADE BY SEE OR BY
AND THAT THE SAME ARE TRUE AND CORLECT TO
KNOWLEDGE AND BELIEF.

REGISTRATION NO 1746 STATE OF NEW MEXICOMA

CIMAREX ENERGY CO.

Sheet 2 of 2

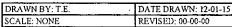
HAYDUKE 34-27 FEDERAL COM 6H SECTION 34, T258, R26E, N.M.P.M. EDDY COUNTY, NEW MEXICO



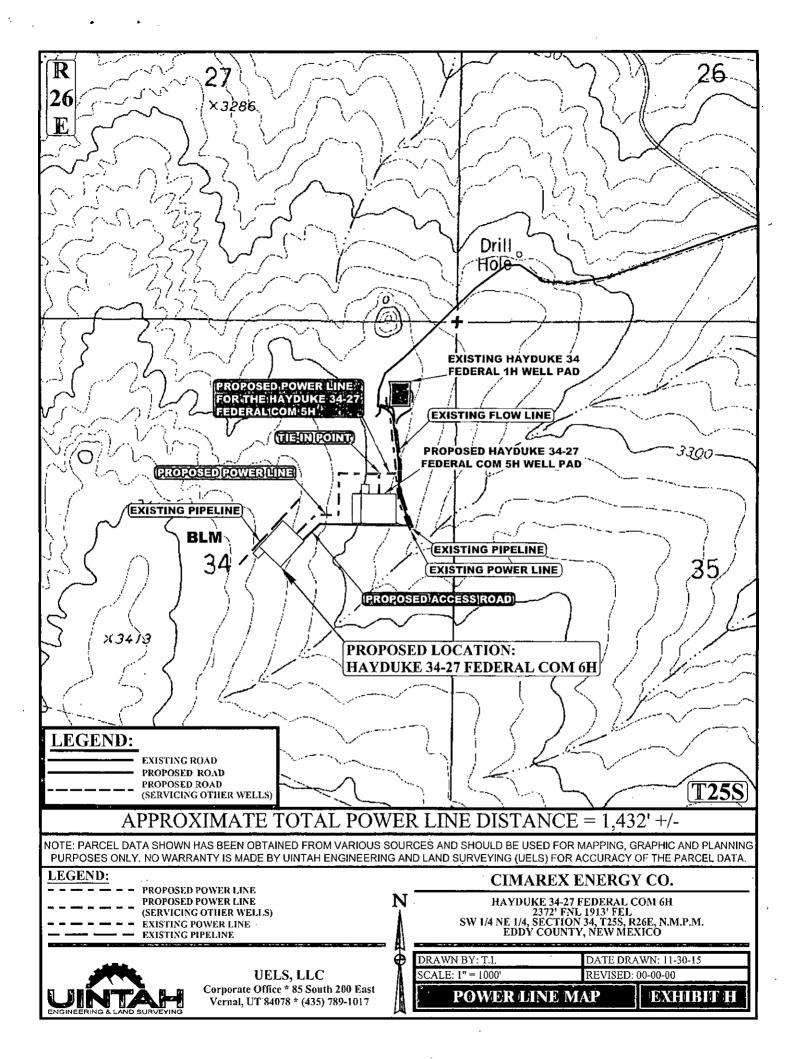
UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

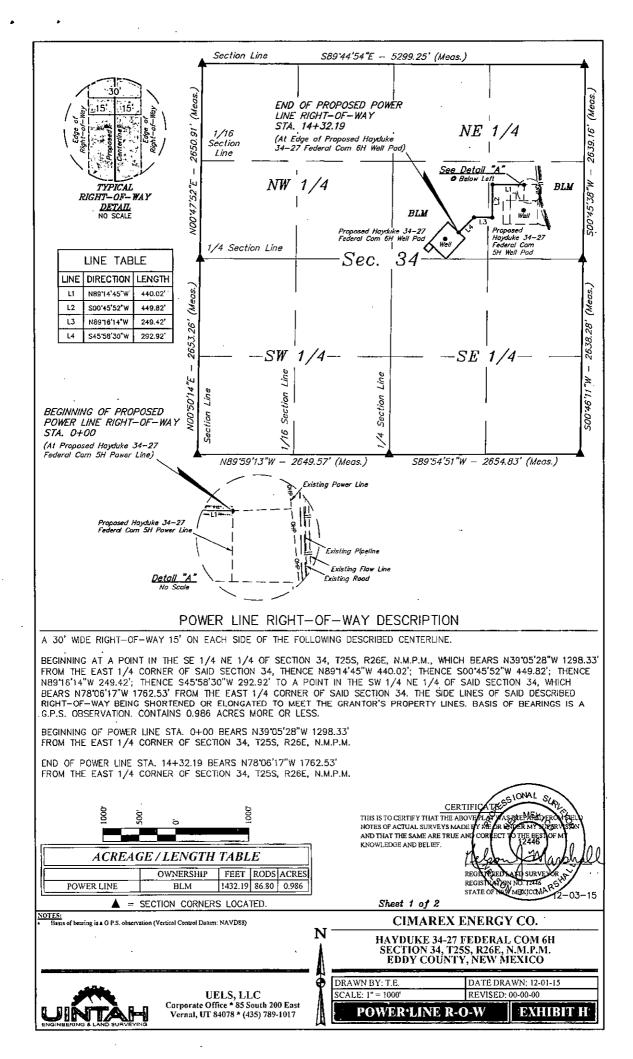


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GAS LIFT PIPELINE R-O-W EXHIBIT G





NUMBER	STATION	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
BEGIN	0+00.00	№ 32°05'20.58"	W 104°16'29.62"
1	4+40.02	N 32°05'20.63"	W 104°16'34.73"
2	8+89.84	N 32°05'16.18"	W 104°16'34.80"
3	11+39.27	N 32*05'16.21"	W 104°16'37.70"
END	14+32.19	N 32°05'14.20"	W 104°16'40.14"

SECTION CORNER	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
SW COR. SEC. 34-T25S-R26E	N 32°04'44.45"	W 104°17'22.14"
W 1/4 COR. SEC. 34-T25S-R26E	N 32°05'10.70"	W 104°17'21.70"
NW COR. SEC. 34-T25S-R26E	N 32°05'36.93" .	W 104°17'21.29"
NE COR. SEC. 34-T25S-R26E	N 32°05'36.72"	W 104°16'19.70"
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SE COR. SEC. 34-T25S-R26E	N 32°04'44.51"	W 104°16'20.50"
S 1/4 COR. SEC. 34-T25S-R26E	N 32°04'44.46"	W 104°16'51.35"

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CERTIFICATE STONAL STAND

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REGISTRATEOF MEMERICAN STATE OF M

Sheet 2 of 2

CIMAREX ENERGY CO.

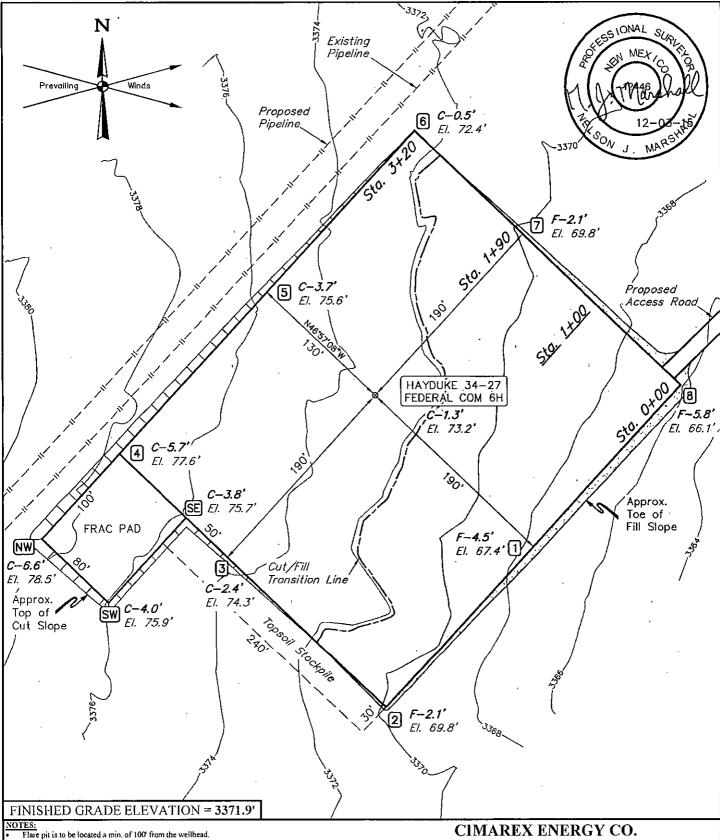
HAYDUKE 34-27 FEDERAL COM 6H SECTION 34, T25S, R26E, N.M.P.M. EDDY COUNTY, NEW MEXICO



UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017 DRAWN BY: T.E. DATE DRAWN: 12-01-15
SCALE: NONE REVISED: 00-00-00

-POWER LINE R-O-W

EXHIBIT H



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

HAYDUKE 34-27 FEDERAL COM 6H 2372' FNL 1913' FEL SW 1/4 NE 1/4, SECTION 34, T25S, R26E, N.M.P.M. EDDY COUNTY, NEW MEXICO



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

DRAWN BY: T.E.	DATE DRAWN: 12-01-15
SCALE: 1" = 80'	REVISED; 00-00-00

LOCATION LAYOUT

EXHIBIT D

1. Geological Formations

TVD of target 7,505

Pilot Hole TD N/A

MD at TD 14,589 Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	0	N/A	
OSE Groundwater	100	N/A	
Salado	1115	N/A	
Castille	1700	N/A _.	
Bell Canyon	1896	N/Á	
Cherry Canyon	2900	N/A	
Brushy Canyon	3900	N/A	
Brushy Canyon Lowre	5160	N/A	
Bone Spring	5410	Hydrocarbons	
Bone Spring A Shale	5645	Hydrocarbons	
Bone Spring C Shale	6031	Hydrocarbons	
1st Bone Spring Ss	6400	Hydrocarbons	
2nd Bone Spring Ls	- 6677	Hydrocarbons	•
2nd Bone Spring SS	6950	Hydrocarbons	
2nd BS Ss Horz Target	. 7410	Hydrocarbons	
3rd Bone Spring Limestone	7460	Hydrocarbons .	

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Casing Size	Weight (lb/ft)	Grade	Сопп.	SF Collapse	SF Burst	SF Tension
17 1/2	0	460	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	3.52	8.22	14.58
12 1/4	0	1876	9-5/8"	36.00	J-55	LT&C	2.03	3.54	6.71
8 3/4	0	6873	5-1/2"	17.00	L-80	LT&C	1.91	2.35	2.65
8 3/4	6873	14589	5-1/2"	17.00	L-80	вт&с	1.75	2.16	36.95
	•	•		BLM	Minimum Sa	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., Hayduke 34-27 Federal Com #6H

·	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.	N
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	N
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	Ν .
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?	N
If yes, are there two strings cemented to surface?	N
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	N

3. Cementing Program

Casing	# Sks	Wt. łb/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	124	14.80	1.34	6.32	9.5	Lead: Class C + LCM
	195	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	385	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	110	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	695	10.80	2.35	9.60	17:43	Lead: Tuned Light 1 Class H
	1650	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS
		!	<u>.</u>	·		

Casing String	тос	% Excess
Surface	0	34
Intermediate	0	44
Production	0 1876	16

See COA for Critical Cave Reg.

4. Pressure Control Equipment

A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

BOP installed and tested before drilling which hole?	Size	Min Required WP	Type 		Tested To
12 1/4	13 5/8	2M	Annular	Х	50% of working pressure
		Ī	Blind Ram	Х	
			Pipe Ram		2M
			Double Ram	Х	1
		1	Other		7
8 3/4	13 5/8	3M	Annular	Х	50% of working pressure
		·	Blind Ram	×	
			Pipe Ram		3M
			Double Ram	Х	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.
	N · Are anchors required by manufacturer?

5. Mud Program

Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0' to 460'	FW Spud Mud	8.30 - 8.80	28	N/C
460' to 1876'	Brine Water	9.70 - 10.20	30-32	N/C
1876' to 14589'	FW/Cut Brine .	8.70 - 9.20	30-32	N/C

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
What will be used to monitor the loss of gailt of haid:	r v i / r asony visual (violitoring

6. Logging and Testing Procedures

Logo	Logging, 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	Interval	* •		
-------------------------	----------	-----	--	--

7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	3590 psi
Abnormal Temperature	No

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

X H2S is present

X H2S plan is attached

8. Other Facets of Operation

Exhibit F-1
Hayduke 34-27 Fed Com 6H
Cimarex Energy Company
34 & 27-25S-26E
Eddy County, NM



Midwest Hose & Specialty, Inc.

INTERNA	۱	HYDROST	ATIC TEST	REPORT		
Customer:				P.O. Number	r:	
	Ode	erco Inc		odyd-	271	
,	ŀ	HOSE SPECIF	FICATIONS			
Type: Stainless	s Ste	eel Armor		·		
Choke &	Kill	l Hose		Hose Length:		15'ft.
I.D.	4	INCHES	O.D.	9	INC	CHES
WORKING PRESSURE		TEST PRESSUR	Ę	BURST PRESSU	IRE	
10,000 <i>P</i> S	3/	15,000	PSI	o d)	PSI
		COUF	PLINGS			
Stem Part No.			Ferrule No.			
ОК	_			окс		
OKO	<u>c</u>			OKC		
Type of Coupling:						
Swag	e-It					
		PROC	EDURE			
Hose assem	nbiy p	ressure tested wi	th water at ambien	t temperature.		
TIME HELD	AT T	EST PRESSURE	ACTUAL B	URST PRESSURE	:	
	15	MIN.		C)	PSI
Hose Assembly Se	erial	Number:	Hose Serial N	lumber:		
7979	33			OKC		
Comments:						
Date:	T	rested:	a : 0	Approved:		
3/8/2011		0.	Jaine Sura.	ferial	læ	

Hayduke 34-27 Fed Com 6H

Cimarex Energy Company 34 & 27-25S-26E Eddy County, NM

Internal Hydrostatic Test Graph

Coupling, Mathod
Swage
Final O.D.
6.25"
Hosa Assembly Serial =
79733 Pick Ticket #: 94260 Verification Type of Fitting 41/1610K Dia Size 6.36" Hose Serial # Standard Safety Multiplier Applies Length 45' O.D. 6.09" Burst Pressure Hose Specifications Customer: Houston Working Pressure 10000 PSI Hose Type C&K LD.

Peak Pressure 15483 PSI Actual Burst Pressure **Pressure Test** Time in Minutes Time Held at Test Pressure 11 Minutes S. S. P. Test Pressure 15000 PSI 19000 12000 10000 PSI

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

Approved By: Kim Thomas

Tested By: Zoc Mcconnell

March 3, 2011

Exhibit F-2 – Co-Flex Hose Hayduke 34-27 Fed Com 6H Cimarex Energy Company 34 & 27-25S-26E Eddy County, NM



Midwest Hose & Specialty, Inc.

Cer	tificate of Confo	ormity
Customer:	M	PO ODYD-271
	SPECIFICATIONS	
Sales Order	Dated:	
79793		3/8/2011
	·	
•		
for the referen according to the	rify that the materia ced purchase order ne requirements of t ent industry standa	to be true the purchase
Supplier: Midwest Hose 10640 Tanner Houston, Texa		
riouston, rexe	15 11041	
•		٠
Comments:		
Approved:		Date:
Some General		3/8/2011.



Exhibit F -3— Co-Flex Hose

Hayduke 34-27 Fed Com 6H

Cimarex Energy Company

34 & 27-25S-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)

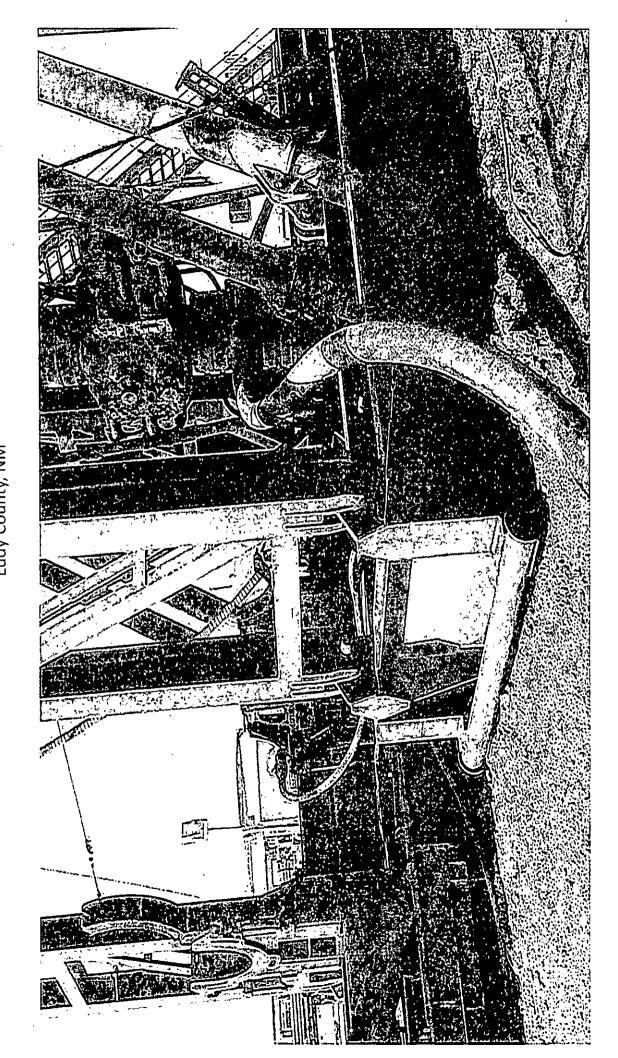


Exhibit F – Co-Flex Hose

Hayduke 34-27 Fed Com 6H

Cimarex Energy Company
34 & 27-255-26E

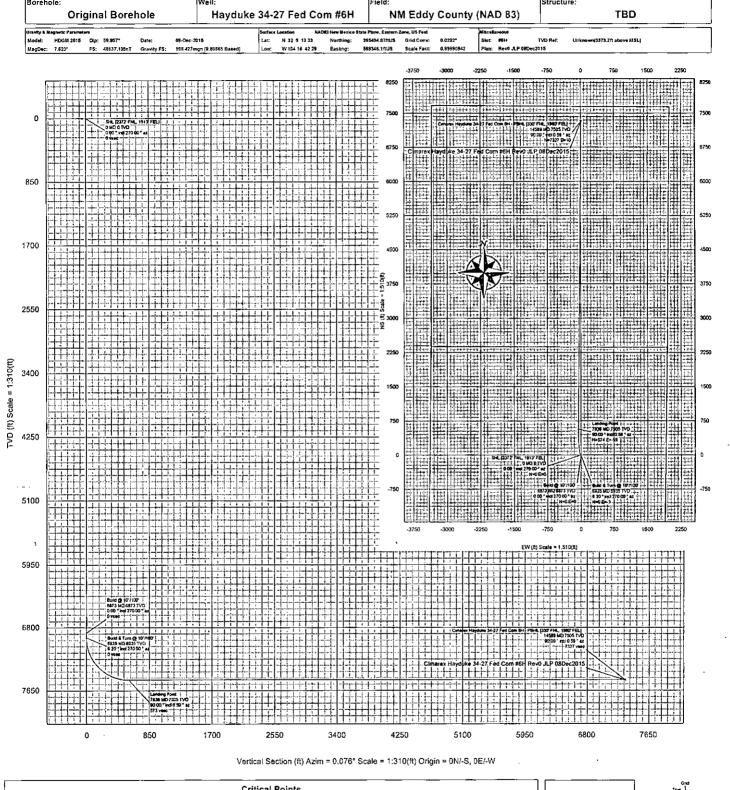
Eddy County, NM

Schlumberger

Rev0

Cimarex





			Critica	Il Points				
Critical Point	MD	INCL	AZIM	TVO	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL (2372 FNL, 1913 FEL)	0.00	0.00	270 00	0 00	0.00	0.00	0 00	
Build @ 10"/100"	6872 88	0.00	270.00	6872 88	6.00	0.00	0.00	0.00
Build & Turn & 107/1007	6934 88	6.20	270 00	6934.76	0.00	0.00	-3 35	10 00
Landing Forni	7035 51	90 DO	0.59	7505.00	573.48	573 58	-59,43	10 00
Circarex Hayduke 34-27 Fed Corn 6H - PBHL [330" FNL, 1980" FEL]	14588.89	90.00	0 54	7505 00	7326 59	7326 59	974	0.00

Caran Nasser In 19 fal Ear No Red & P Plyridds	
Consecutively Sel 37 Field Con 1911 - Labor Life	i CC
Constant Hoppins St. 27 Feet Compil - Minit,	
Comment Magnater 2017 Prof Open 691 Section Level	1 Cherri 2 Chank 3 Office 4 Office
	Copy Rustine

Gnd No L Corr (M→C Mag Dec (7 Orld Carry (0	7,5947) .8237)
NTR	OLLED
CHEST RE	PROPERTY AND COME.
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	wf 9
	W-0++-2113
- W	
	May Diec (7 Orld Carry (1 NTR

Drilling Office 2.8.572.0

Cimarex Hayduke 34-27 Fed Com #6H Rev0 JLP 08Dec2015 Proposal Geodetic Report

Schlumberger

Report Date: Client: Field:	December 08, 2015 - 08:54 AM Cimarex NM Eddy County (NAD 83)	Survey / DLS Computation: Vertical Section Azimuth: Vertical Section Origin:	Minimum Curvature / Lubinski 0.076 * (Grd North) 0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Hayduke 34-27 Fed Com #6H / Cimarex Hayduke 34-27 Fed Com #6H	TVD Reference Datum:	Unknown
Well:	Cimarex Hayduke 34-27 Fed Com #6H	TVD Reference Elevation:	3373.200 ft above MSt.
Borehole:	Original Borehole	Seabed / Ground Elevation:	3373.200 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7.623 °
Survey Name:	Cimarex Hayduke 34-27 Fed Com #6H Rev0 JLP 08Dec2015	Total Gravity Field Strength:	998.4270mgn (9.80665 Based)
Survey Date:	December 08, 2015	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	96.265 ° / 7340.194 ft / 6.138 / 0.978	Total Magnetic Field Strength:	48137.135 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.807 °
Location Lat / Long:	N 32° 5' 13,32834", W 104° 16' 42.28619"	Declination Date:	December 08, 2015
Location Grid N/E Y/X:	N 395404,870 ftUS, E 558346,100 ftUS	Magnetic Declination Model:	HDGM 2015
CRS Grid Convergence Angle:	0.0292 °	North Reference:	Grid North
Grid Scale Factor:	0.99990942	Grid Convergence Used:	0.0292 °
Version / Patch:	2.8.572.0	Total Corr Mag North->Grid North:	7.5942 °
		Local Coord Referenced To:	Structure Reference Point

Longitude (E/W * ' '')	5 13.33 W 104 16 42.29	W 104 16 42.29	W 104 16 42.29	W 104 16 42,29	W 104 16 42.29	W 104 16 42,29	5 13.33 W 104 16 42.29	5 13.33 W 104 16 42.29	W 104 16 42.29																
Latitude (N/S ° ' ")	32 5 13.33 W	32 5 13.33 W	5 13.33	5 13.33	5 13 33		32 5 13.33 W	32 5 13,33 W ·	32 5 13.33 W	32 5 13,33 W ·	32 5 13.33 W ·	32 5 13.33 W	32 5 13.33 W	32 5 13.33 W	32 5 13.33 W	32 5 13,33 W	32 5 13.33 W	32 5 13.33 W	32 5 13.33 W ·	32 5 13.33 W		32 5 13.33 W			32 5 13,33 W
Easting (ftUS)	558346,10 N	558346.10 N	558346.10 N	558346.10 N	558346.10 N	558346.10 N	558346.10 N	558346.10 N	558346,10 N	558346.10 N	558346.10 N	558346.10 N	558346.10 N	558346,10 N	558346.10 N	558346.10 N	558346,10 N	558346.10 N	558346.10 N	558346.10 N	558346,10 N	558346.10 N	558346.10 N	558346.10 N	558346.10 N
Northing (ftus)	395404.87	395404.87	395404.87	395404.87	395404.87	395404.87	395404.87	395404.87	395404.87	395404.87	395404.87	395404.87	395404.87	395404.87	395404.87	395404.87	395404.87	395404.87	395404.87	395404.87	395404.87	395404.87	395404.87	395404.87	395404.87
DLS (°/100ft)	Ą,	00:0	0.00	0.00	0.00	00.0	0.00	0.00	00'0	0.00	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	0.00	0.00
EW (ft)	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	00'0	0.00	0.00	0.00	0.00	0.00	0.00	00'0	00.0	00:0	0.00	0.00	00.0	0.00	0.00
NS (£)	0.00	0.00	0.00	0.00	00.0	00.0	00.0	00.0	0.00	0.00	0.00	00'0	00.00	00:0	0.00	00'0	00'0	00.0	0.00	00.0	0.00	00.0	0.00	0.00	0.00
VSEC (ft)	0.00	0.00	00.0	00'0	0.00	00'0	00'0	00.0	00:0	0.00	00'0	00'0	00.0	00'0	0.00	0.00	00'0	00:0	0.00	00.0	00'0	0.00	00'0	00'0	0.00
OVT (#)	00'0	100.00	200.00	300.00	400.00	200.00	900.00	700,00	800.00	900,00	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
Azim Grid	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	.270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270,00	270.00
Incl	0.00	00.00	00'0	0.00	00.0	0.00	00'0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.00	0.00	00.0	0.00	0.00	00.0	0.00
MD (#)	0.00	100.00	200,00	300,00	400.00	500.00	00.009	700.00	800.00	900.00	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
Comments	SHL [2372' FNL, 1913' FEL]																								

Latitude Longitude (N/S * ' ")	5 13.33 W	n n	5 13.33 W	5 13.33 W	5 13.33	5 13.33 W	5 13.33 W	5 13.33 W 104	5 13.33 W	5 13 33 W 104	5 13.33 W	5 13.33 W	5 13,33 W 104 16 42,29 5 13 33 W 104 16 42 29	5 13.33 W 104	5 13.33	5 13,33	מינ	5 13.33 W 104	13.33 W	5 13.33 W 104 16 42.29 5 13.33 W 104 16 42.29	5 13 33	5 13.33 W 104	5 13.33 W 104 16 42.29 5 13 33 W 104 16 42 29	13.33	5 13.33 W 104	5 13.33 W 104 16 42.29 5 13 33 W 104 16 42 29	33 W 104	ις, 1	5 13 33 W 104	5 13.33 W 104	5 13.33 W 104 16 42.29	5 13.33	5 13.33 W 104 16 42.29 5 13.33 W 104 16 42.29	5 13.33 W 104 16 42.29	5 13.33 W 104 16 42.29	5 13.33 W 104 16 42.33	5 13.36 W	5 13.56 W 104 5 13.92 W 104	5 14,44 W 104	5 15.10 W 104	5 16,74 W 104	5 17.68	5 18.65 W 104 16 42.98
Easting (ftUS)	558346.10 N 32	558346,10 N 32	zz	z	Z:	558346.10 N 32	zz		ZZ	558346.10 N 32	z	z	558346.10 N 32 558346.10 N 32	_	z	558346.10 N 32		z	z:	558346.10 N 32	z	558346.10 N 32	558346.10 N 32 558346.10 N 32	z	z:	558346.10 N 32 558346.10 N 32	558346.10 N 32	558346.10 N 32	zz	z	558346.10 N 32	zz	558346.10 N 32 558346.10 N 32	558346.10 N 32	558345.46 N 32	558342.75 N 32	-, -	558325.40 N 558315.74 N	558307.07	558299.66 N	558289.49 N	558287.02 N	558286,43 N 32
		0.00 395404.87				0.00 395404.87		395404	0.00 395404.87				0.00 395404.87				0.00 395404.87	395404		0.00 395404.87 0.00 395404.87			0,00 395404.87			0.00 395404.87		0.00 395404.87			0.00 395404.87		0.00 395404.87 0.00 395404.87	0.00 395404.87	10.00 395404.87	10.00 395404.87	10.00 395408.57	10.00 395428.50 10.00 395465.11		10.00 395583.49			0.00 395942.89
EW DLS		00.0				00.0			0.00				0.00				00.0			000	·	00	0.00			0.00		0.00			00.0		0.00	0.00	-0.64	-3,35		-20.70		46.44			-59.68
SN &	0.00	0.00	0.00	0.00	0.00	0.00	000	0.00	0.00	000	0.00	00'0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00:0	0.00	0.00	0.00	00.0	0.00	0.00	00.0	0.00	00.0	0.00	0.00	0.00	0.00	00:00	0.00	0.00	3.70	23.63	112,45	178.64	344.58	439,30	538.07
VSEC (ft)	00.0	00.00	000	0.00	00'0	0.00	00.0	00.0	0.00	0.00	00.0	0.00	0.00	0.00	00.0	0.00	00.00	00.00	0.00	00:0	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	00:0	0.00	00:0	0.00	0.00	00'0	0.00	3.68	23.60	112.40	178.58	344.51	439.22	537.99
δΣ E	2500.00	2600.00				3100.00		3400.00	3500.00	3200.00			4000.00				4500.00			5000.00			5300.00	5500.00		5700.00		6000,00	6200.00	6300.00	6400.00		6700.00		6899,99	6934.76	6999.36	7189.09				7489.14	7503.90
Azím Grid	270.00	270.00	270.00	270,00	270.00	270.00	270,00	270,00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270,00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	316.89	348.34	352.27	354.72	357.89	359.09	0.20
		00.0				00.0								00.0		00.0	000			0000					0.00			0.00			0.00		0.00	0.00	2.71	6.20	8.94				90.05 66.59		86.47
QM (#)	2500.00	2600,00	2800.00	2900.00	3000.00	3100,00	3300,00	3400.00	3500.00	3200.00	3800.00	3900.00	4000.00	4100.00	4300,00	4400.00	4500.00	4700,00	4800.00	5000.00	5100.00	5200.00	5300,00	5500,00	5600.00	5700,00	5900.00	6000.00	6200.00	6300.00	6400.00	00.0059	67 00 .00	6872.88	00.0069	6934.88	7000.00	7200.00	7300.00	7400.00	7600.00	7700.00	7800.00
Comments																																		Build @		Build & Tum @	2						Point Daint

Northing (ftUS)	396042.86 558287.33 N 32 5 19.64 W	396142.84 558288.36 N 32 5 20.63 W	396242,83 558289,38 N 32 5 21.62 W	396342.81 558290.40 N 32 5 22.61 W	396442,80 558291.42 N 32 5.23.60 W 104	39554Z.78 558Z9Z.45 N 3Z 5.24,59 W 104	0,00 396642.77 356295.47 N 32 3 25.50 W 104 16 42.63	396842.74 558295.52 N 32 5.27.56 W 104	396942.73 558296.54 N 32 5.28.55 W 104	397042.71 558297.56 N 32 5 29.54 W 104	397142,70 558298,58 N 32 5 30.53 W 104	397242,68 558299,61 N 32 531,52 W 104	397342.67 558300.63 N 32 532.51 W 104	397442.65 558301.65 N 32 5 33.50 W 104	397542.64 558302.68 N 32 5.34.48 W 104	558303,70 N 32 5 35,47 W 558304 72 N 32 5 36,46 W 1	397842 59 558305 75 N 32 5 37 45 W 104	397942.58 558306.77 N 32 5 38.44 W 104	398042,57 558307,80 N 32 539,43 W 104	558308.82 N 32 5 40.42 W	0.00 398242.54 558309.84 N 32 541.41 W 104 16 42.69	350342.32 350310.07 N 32 342.40 W 104 308443 51 668311 RD N 32 5,43 30 W 104	398542.49 558312.91 N 32 5 44.38 W	398642.48 558313.94 N 32 5 45.37 W 104	398742.46 558314.96 N 32 546.36 W 104	398842.45 558315.99 N 32 547.35 W	398942,44 558318,01 N 52 5 46,34 39 5 49,33	558319.06 N 32 5 50.32 W 104	399242.39 558320.08 N 32 551.31 W 104	0.00 399342.38 558321.11 N 32 552.30 W 104 16 42.55	399542.35 558323.15 N 32 5 54.27 W 104	399642.33 558324.18 N 32 5 55.26 W 104	399742.32 558325.20 N	× 50 × 50 × 50 × 50 × 50 × 50 × 50 × 50	400042.28 558328.N 32 5.9.22 W1	400142.26 558329.30 N 32 6 0.21 W 1	0.00 400242.25 558330.33 N 32 6 1.20 W 104 16 42.44	400542,23 338351,33 N 32 6 2,13 W 104 400442,22 558332,37 N 32 6 3.18 W 104	400542.20 558333.40 N 32 6 4.17 W 104	400642,19 558334.42 N 32 6 5.16 W 104	400742.17 558335,45 N 32 6 6.15 W 104 1	558336.47 N 32 6 7.14 W 104	400942.15 558337.50 N 32 6 8.13 W 104 16	401042.13 538536.32 1	558340 57 N 32 6 11 10 W 104 1	401342 09 558341.60 N 32 6 12.08 W 104	401442,07 558342.62 N 32 6 13.07 W 104	401542.06 558343.65 N 32 6 14.06 W 104	401642,04 558344.67 N 32 6 15.05	401742.03
NS EW D		-57.75	-56.73	-55.70	-54.68	-53,66	1238.01 -52,64 0	10.16-	-49.57	-48.54	-47.52	-46.50	-45.47	-44,45	43.43	2237.96 -42.40 U	-40.36	-39.33	-38.31	-37.28	-36.26	2937,92 -35,24 U	-33.19	-32.17	-31,14	-30.12	3537,89 -28,09 0	-27.04	-26.02		-22.95	-21.92	-20,90	4437.85 -19.87 U	-17.83	-16.80	-15.78		-12.70	-11.68	-10.65	-9.63	1.8.60	003//8 -/.58 0	, ' , ', ',	- 450	-3.48	-2.45	-1,43	-0.40
TVD VSEC	637	7505.00 737.96,	7505.00 837.96		•	•	7505.00 1237.94				•	•			5.00	7505.00 2237.90		5.00	5.00		5.00	7505 00 3037 87	5.00	5.00	5.00	5.00	7505.00 3537.85	5.00	5.00	7505,00 3937.84	900	5.00	5.00	7505.00 4437.82	5.00	5.00 4	5.00	7505 00 5037 79	5.00	5.00	505.00	505.00 5	5.00	71,1505 00.5061	505.00	7505 00 5937 76	505.00	505.00	505.00	7505 00 0027
Incl Azim Grid	90.00							90.00								90.00		90.00				80.00					90.09				80.0 00.08 90.00	90.00		90.00 90.00			90.00		90.00				90.00 0.59	90.00			0		. 90.00 0.59	00.00
Comments (ft)	7900.00	8000.00	8100.00	8200.00	8300.00	8400.00	00.0038	8200 00	8800 00	00.0068	00.0006	9100.00	9200.00	9300.00	9400.00	00,0028	00.0000	00,0086	00.0066	10000,00	10100.00	10200.00	10400.00	10500.00	10600.00	10700.00	10800.00	11000.00	11100.00	11200.00	11300.00	11500.00	11600.00	11/00/00	11900.00	12000.00	12100.00	12200.00	12400.00	12500.00	12600.00	12700.00	12800.00	13000 00	13100 00	13200 00	13300.00	13400.00	13500.00	13600 00

	MD	Incl	Azim Grid	ΔŽ	VSEC	NS	EW	DLS	Northing	Easting	Latitude	Longitude
Comments	æ	(,)	0	£	€	Œ	£	(°/100ft)	(#US)	(HUS)	(S/N)	(E/W • . ")
	13800.00	90.00	0.59	7505.00	6537.73	6537.74	1.65	00'0	401942.00	558347.75 N 3	32 6 18.02 W 104 16 42.23	04 16 42.23
	13900.00	90.00	0.59	7505.00	6637.73	6637.73	2.68	0.00	402041.99	558348.78 N 3	2 6 19.01 W 1	3 19.01 W 104 16 42.22
	14000.00	90.00	0.59	7505.00	6737.72	6737.72	3.70	00'0	402141.97	558349.80 N 3	2 6 20,00 W 104 16 42.20	04 16 42.20
	14100.00	90.00	0.59	7505.00	6837.72	6837.72	4.73	0.00	402241.96	558350.83 N 3	2 6 20.99 W 1	20.99 W 104 16 42.19
	14200.00	90.00	0.59	7505.00	6937.72	6937.71	5.75	00'0	402341.94	558351.85 N 3	2 6 21.98 W 1	21.98 W 104 16 42.18
	14300,00	90.00	0.59	7505.00	7037.71	7037.71	6.78	0.00	402441.93	558352.88 N 3	2 6 22.97 W 1	22.97 W 104 16 42.17
	14400.00	90.00	0.59	7505.00	7137.71	7137.70	7.80	00'0	402541.91	558353.90 N 3	2 6 23.96 W 1	23.96 W 104 16 42.15
	14500.00	90.06	0.59	7505.00	7237.70	7237.70	8.83	00.0	402641.90	558354.93 N 3	2 6 24.95 W 104 16 42.14	04 16 42.14
Cimarex Hayduke 34-27 Fed Com 6H - PBHL (330' FNL, 1980' FEL]	14588.89	90.00	0.59	7505.00	7326.59	7326.59	9.74	0.00	402730.78	558355.84 N 3	32 6 25.83 W 104 16 42.13	04 16 42.13
Survey Type:	Non-Def Plan	af Plan										

Borehole / Survey
Original Borehole / Cimarex
Hayduke 34-27 Fed Com #6H

Survey Tool Type

Casing Diameter (in) 30.000

> Hole Size (in)

EOU Freq (ft) 1/100.000

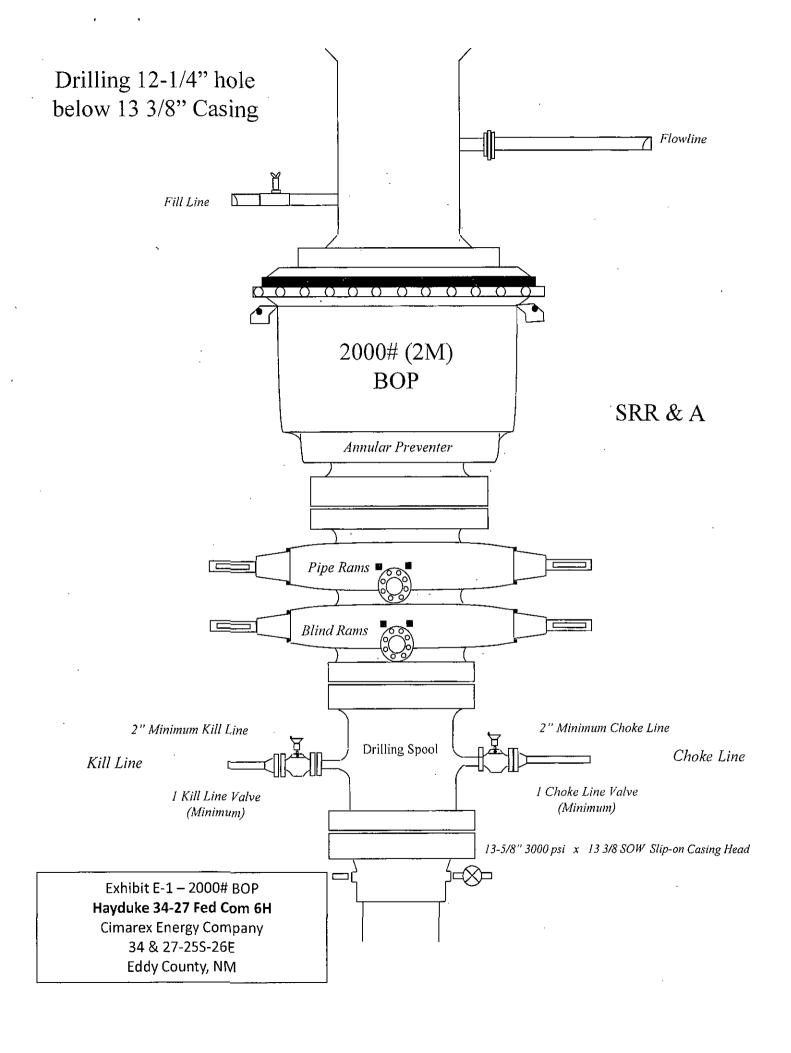
MD From (ft)

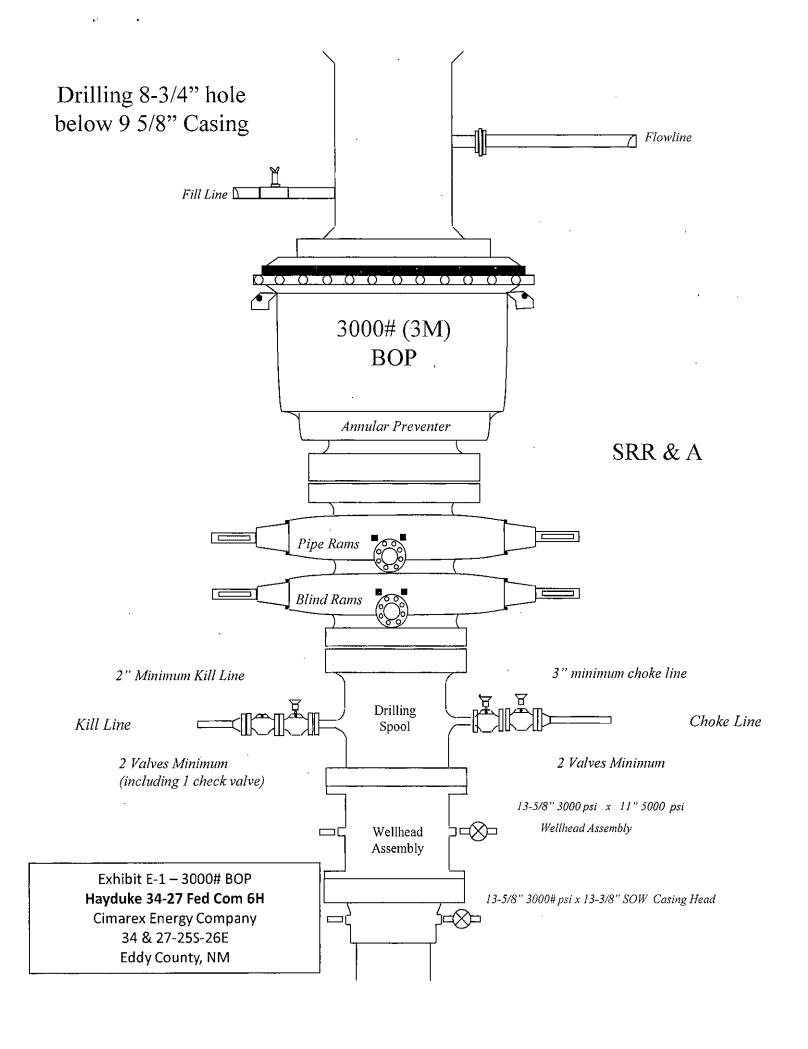
Part

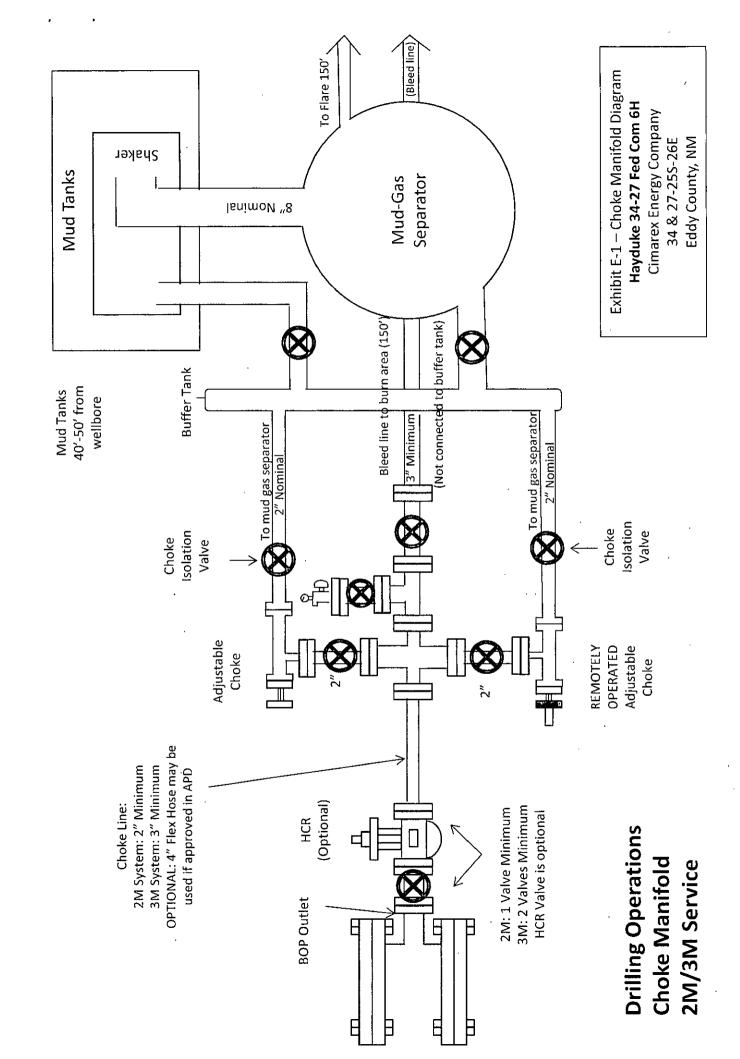
Description

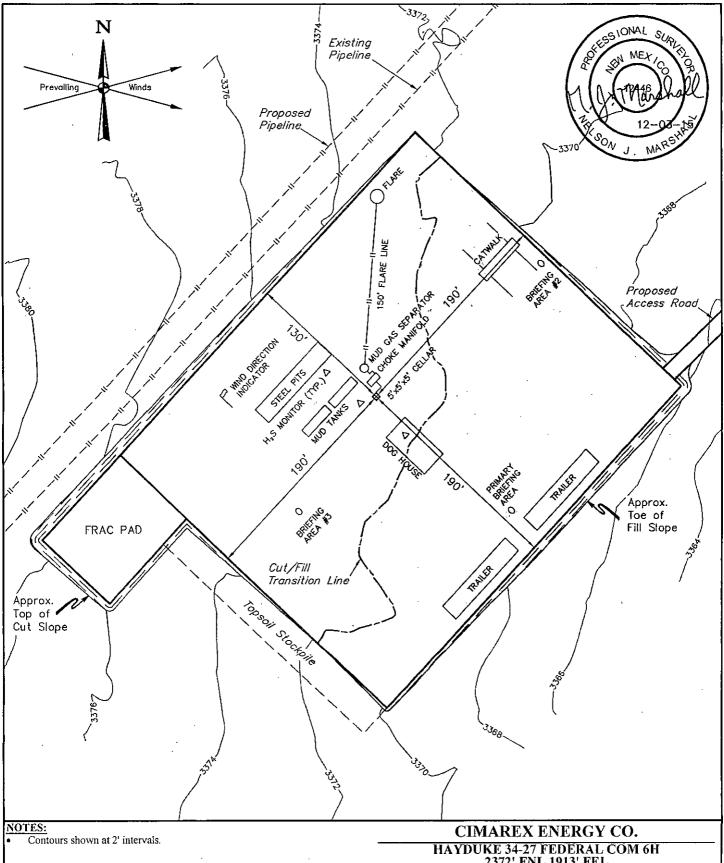
Survey Error Model: Survey Program: MD To (ft) 14588.894

ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma









HAYDUKE 34-27 FEDERAL COM 6H 2372' FNL 1913' FEL SW 1/4 NE 1/4, SECTION 34, T25S, R26E, N.M.P.M. EDDY COUNTY, NEW MEXICO

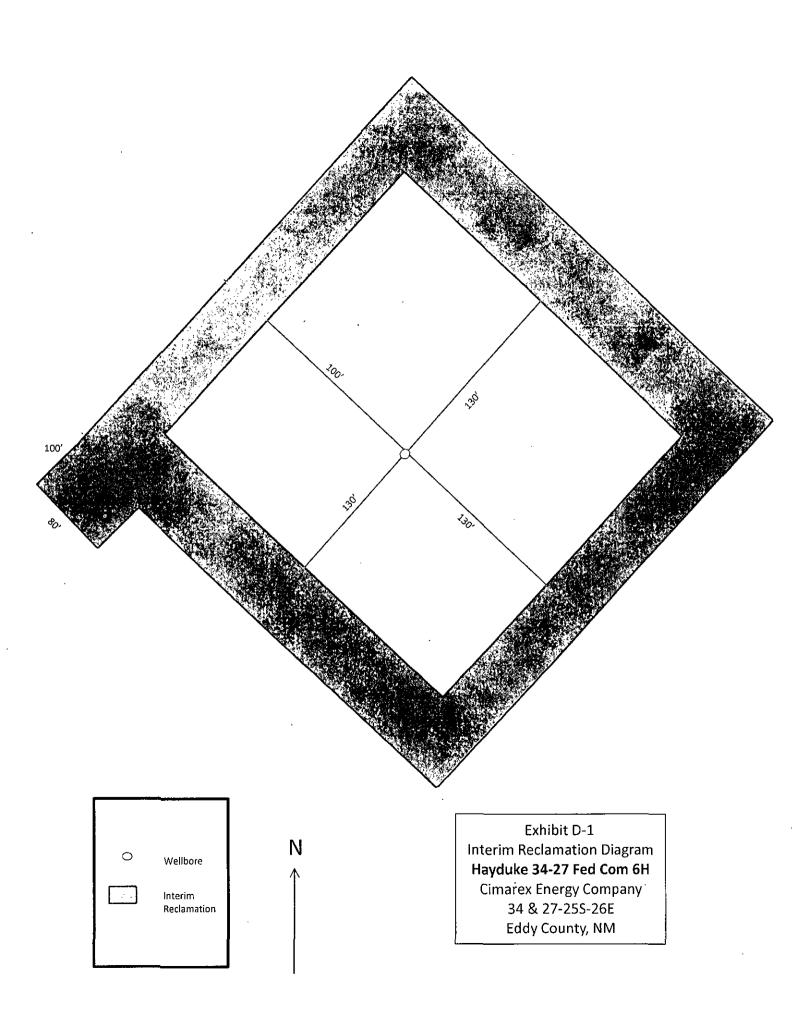


UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017
 DRAWN BY: T.E.
 DATE DRAWN: 12-01-15

 SCALE: 1" = 80'
 REVISED: 00-00-00

TYPICAL RIG LAYOUT

EXHIBIT D



Hayduke 34-27 Federal Com #6H

Cimarex Energy Co. UL: G, Sec. 34, 25S, 26E Eddy Co., NM

The following surface use plan of operations will be followed and carried out once the APD is approved. No other disturbance will be created other than what is submitted in this surface use plan without approval. If any other disturbance is needed after the APD is approved, a BLM approved sundry notice or right of way application will be submitted for approval prior to any new surface disturbance.

1. Existing Roads:

- Please see Exhibit B and C-1 for existing access road planned to be used to access the proposed project.
- Cimarex Energy will improve or maintain existing roads in a condition the same as or better than before the operations began. Cimarex Energy will repair pot holes, etc. All existing structures on the entire access route such as cattle guards, other range improvement projects, culverts, etc. will be properly repaired or replaced if they are damaged or have deteriorated beyond practical use.
- Cimarex Energy will prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or other events.
- Cimarex Energy will obtain written BLM approval prior to the application of surfactants, binding agents, or other dust suppression chemicals on the roadways.
- The maximum width of the driving surface will be 14.' The road will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1' deep with 3:1 slopes. The driving surface will be made of 6" rolled and compacted caliche.
- Existing access road route to the proposed project is depicted on the public access point map if applicable. Improvements to the driving surface will be done where necessary. No new surface disturbance will be done, unless otherwise noted in the New or Reconstructed Access Roads section of the surface use plan.

 Beginning at the intersection of Old Cavern Highway and Prickly Pear road to the Northwest located in the NW ¼ of Section 36, T25S, R26E, N.M.P.M. Proceed in a northwesterly direction approximately 1.0 miles to the junction of this road and an existing road to the southwest; turn left and proceed in a southwesterly, then northwesterly, then southwesterly, then southwesterly direction approximately 1.2 miles to the beginning of the proposed access road for the Hayduke 34-27Federal Com 5H well pad to the west; follow road flags in a westerly, direction approximately 88' to the beginning of the proposed location.

2. New of Reconstructed Access Roads:

- A new road will be constructed for this project.
- Cimarex Energy plans to construct 1144.05' of new on-lease access road to service the well. The planned access road does not cross lease boundaries, a right of way grant will not be acquired from the BLM.
- The maximum width of the driving surface will be 14'. The road will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1' deep with 3:1 slopes. The driving surface will be made of 6" rolled and compacted caliche.
- Proposed and existing access road route to the proposed wellsite is depicted on Exhibit C-2. Improvements to the driving surface will be done where necessary. No new surface disturbance will be done without prior approval from the BLM.
- The operator will prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or other events.

3. Well Radius Map

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

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 Hayduke 34-27 Federal Com 5H.
- Allocation will be based on well test. 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

· No pipeline proposed.

6. Flowlines

- Cimarex Energy plans to construct on lease flowlines to service the well.
- Specifications of Polyline: Two- 4" Steel
- Both lines will be buried 10'-20' North of the access road.
- Length of Gas Lift Line: 630.57'
- Length of Flowlines: 630.57'
- MAOP: 1440 psi.
- · Anticipated working pressure: 1100 psi.

Hayduke 34-27 Federal Com #6H

Cimarex Energy Co. UL: G, Sec. 34, 25S, 26E Eddy Co., NM

7. Salt Water Disposal

No pipeline proposed.

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 Hayduke 34-27 Federal Com 5H. The proposed electric line will be 1432.19' in length. 4-40'poles, 480 volt, 4 wire, 3 phase. The electric line will exit off the East side of the well location and travel East for 1432.19' 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.

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.

Hayduke 34-27 Federal Com #6H

Cimarex Energy Co. UL: G, Sec. 34, 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 Street, Carlsbad, NM, 88220, 575-234-5972.
- A copy of Surface Use Agreement has been given to the surface owner.
- The land is used mainly for farming, cattle ranching, recreational use, and oil and gas production.

16. Other Information:

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

17. On Site Notes and Information:

Onsite with BLM (Nick Franke & Jim Goodbar) and Cimarex (Barry Hunt) on 11/24/15. Location fell too close to our gas pipeline. Moved location 62 ft. south and 67 ft. east. V-Door Northeast. Frac pad Southwest corner (Southwest). Top soil Southwest. Interim reclamation: All sides. Access road, E-line and Gas lift/Production line staked from Northeast corner east to the #5 well.

Hydrogen Sulfide Drilling Operations Plan

Hayduke 34-27 Federal Com 6H

Cimarex Energy Co. UL: G, Sec.34, 25S, 26E Eddy Co., NM

1 All Company and Contract personnel admitted on location must be trained by a qualified H2S safety instructor to the following:

- A. Characteristics of H₂S
- B. Physical effects and hazards
- C. Principal and operation of H2S detectors, warning system and briefing areas.
- D. Evacuation procedure, routes and first aid.
- E. Proper use of safety equipment & life support systems
- F. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30 minute pressure demand air packs.

2 H2S Detection and Alarm Systems:

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

3 Windsock and/or wind streamers:

- A. Windsock at mudpit area should be high enough to be visible.
- В.

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 Hayduke 34-27 Federal Com 6H

Cimarex Energy Co. UL: G, Sec.34, 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 Hayduke 34-27 Federal Com 6H

Cimarex Energy Co. UL: G, Sec.34, 25S, 26E Eddy Co., NM

Company Office Cimarex Energy Co. of Colorado Co. Office and After-Hours Menu		800-969-4789	
Key Personnel	Tal-	Off:	na - bil -
Name	Title	Office	Mobile
Larry Seigrist	Drilling Manager	432-620-1934	580-243-8485
Doug McQuitty	Drilling Superintendent	432-620-1933	806-640-2605
Scott Lucas	. Drilling Superintendent	432-620-1989	432-894-5572
Roy Shirley	Construction Superintendent		432-634-2136
_:-:			
Artesia		011	
Ambulance		911	
State Police		575-746-2703	
City Police		575-746-2703	
Sheriff's Office		575-746-9888	
Fire Department		575-746-2701	
Local Emergency Planning Committee		575-746-2122	
New Mexico Oil Conservation Division		575-748-1283	
Carlchad			
<u>Carlsbad</u> Ambulance		911	
		575-885-3137	
State Police City Police		575-885-3137	-
		575-887-7551	-
Sheriff's Office		575-887-3798	· · · · · · · · · · · · · · · · · · ·
Fire Department			
Local Emergency Planning Committee US Bureau of Land Management		575-887-6544 575-887-6544	
OS Bureau Or Land Manag	ement	373-007-0344	
Santa Fe			
	Response Commission (Santa Fe)	505-476-9600	-
	Response Commission (Santa Fe) 24 Hrs	505-827-9126	
New Mexico Emergency Operations Center		505-476-9635	
<u>National</u>			
National Emergency Response Center (Washington, D.C.)		800-424-8802	
<u>Medical</u>			
Flight for Life - 4000 24th	St.; Lubbock, TX	806-743-9911	
Aerocare - R3, Box 49F; Lubbock, TX		806-747-8923	
Med Flight Air Amb - 2301 Yale Blvd S.E., #D3; Albuquerque, NM		505-842-4433	
	Clark Carr Loop S.E.; Albuquerque, NM	505-842-4949	
Other			
Boots & Coots IWC		800-256-9688	or 281-931-8884
Cudd Pressure Control		432-699-0139	or 432-563-3356
		575-746-2757	01 402-003-3530
Halliburton			
B.J. Services		575-746-3569	

BEGINNING AT THE INTERSECTION OF OLD CAVERN HIGHWAY AND PRICKLY PEAR RD TO THE NORTHWEST LOCATED IN THE NW 1/4 OF SECTION 36, T25S, R26E, N.M.P.M. PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 1.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY, THEN NORTHWESTERLY, THEN SOUTHWESTERLY, THEN SOUTHWESTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 1.2 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE HAYDUKE 34-27 FEDERAL COM 5H WELL PAD TO THE WEST; FOLLOW ROAD FLAGS IN A WESTERLY, DIRECTION APPROXIMATELY 88' TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE WEST; FOLLOW ROAD FLAGS IN A WESTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 1,144' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM THE INTERSECTION OF OLD CAVERN HIGHWAY AND PRICKLY PEAR RD TO THE NORTHWEST LOCATED IN THE NW 1/4 OF SECTION 36, T25S, R26E, N.M.P.M. TO THE PROPOSED LOCATION IS APPROXIMATELY 2.4 MILES.

CIMAREX ENERGY CO.

HAYDUKE 34-27 FEDERAL COM 6H 2372' FNL 1913' FEL SW 1/4 NE 1/4, SECTION 34, T25S, R26E, N.M.P.M. EDDY COUNTY, NEW MEXICO



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

ROAD DESCRI	PTION	EXHIBIT J		
	REVISED:	REVISED: 00-00-00		
DRAWN BY: T.I.	DATE DR.	DATE DRAWN: 11-30-15		

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: Cimarex Energy Co.

LEASE NO.: NMNM19423

WELL NAME & NO.: 6H-Hayduke 34-27 Federal Com

SURFACE HOLE FOOTAGE: 2372'/N & 1913'/E

BOTTOM HOLE FOOTAGE 330'/N & 1980'/E

LOCATION: Section 34, T.25 S., R.26 E., NMPM

COUNTY: Eddy County, New Mexico

TABLE OF CONTENTS

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

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

Cave and Karst Conditions of Approval

** Depending on location, additional Drilling, Casing, and Cementing procedures may be required by engineering to protect critical karst groundwater recharge areas.

Cave/Karst Surface Mitigation

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

Construction:

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

No Blasting:

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

Pad Berming:

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

- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g. caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.

- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised. (Any access road crossing the berm cannot be lower than the berm height.)

Tank Battery Liners and Berms:

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

Leak Detection System:

A method of detecting leaks is required. The method could incorporate gauges to measure loss, 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.

Watershed

- The entire well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The berm shall be maintained through the life of the well and after interim reclamation has been completed.
- Any water erosion that may occur due to the construction of the well pad during the life of the well will be corrected within two weeks and proper measures will be taken to prevent future erosion.

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

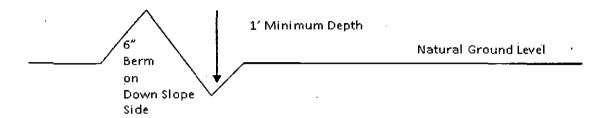
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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



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:
$$\frac{400'}{4\%}$$
 + 100' = 200' lead-off ditch interval

Cattleguards

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

Fence Requirement

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

Public Access

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

Construction Steps

- 1. Salvage topsoil
- 3. Redistribute topsoil
- 2. Construct road
- 4. Revegetate slopes

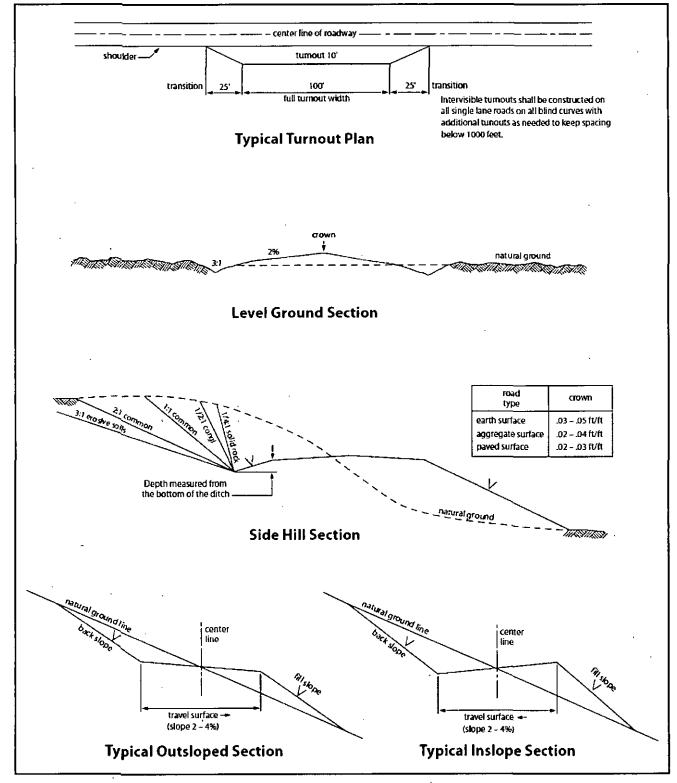


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

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

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

Eddy County

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

- 1. Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

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

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

Wait on cement (WOC) for Water Basin:

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

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

Possibility of water flows in the Castile.

Possibility of lost circulation in the Castile and Delaware.

CRITICAL CAVE/KARST – A MINIMUM OF THREE CASING STRINGS CEMENTED TO SURFACE IS REQUIRED IN CRITICAL CAVE/KARST AREAS. THE CEMENT MUST BE IN A SOLID SHEATH THEREFORE, ONE INCH OPERATIONS WILL NOT BE PERMITTED. CONTACT BLM WITH MODIFICATIONS TO CEMENT PROGRAM AS NEEDED.

- 1. The 13-3/8 inch surface casing shall be set at approximately 460 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: Excess calculates to 20% Additional cement may be required.
 - 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 5 1/2 inch production casing is:

 \[\int \text{ 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. Excess calculates to 2% Additional cement may 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

- All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 2000 (2M) psi.
- 4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 intermediate casing shoe shall be 3000 (3M) psi.
- 5. 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.

D. DRILL STEM TEST

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

E. WASTE MATERIAL AND FLUIDS

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

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

CLN 051216

VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Exclosure Netting (Open-top Tanks)

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

Chemical and Fuel Secondary Containment and Exclosure Screening

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

Open-Vent Exhaust Stack Exclosures

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

Containment Structures

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

Painting Requirement

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

B. PIPELINES

BURIED PIPELINE STIPULATIONS

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

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

- 1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.
- 5. All construction and maintenance activity will be confined to the authorized right-of-way.

- inches between the top of the 6. The pipeline will be buried with a minimum cover of 36 pipe and ground level. 7. The maximum allowable disturbance for construction in this right-of-way will be 30 feet: Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 20 feet. The trench is included in this area. (Blading is defined as the complete removal of brush and ground vegetation.) • Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.) The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (Compressing can be caused by vehicle tires, placement of equipment, etc.) 8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding. 9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer. 10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade. 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices. 12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.
- 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.

() seed mixture 1() seed mixture 2

() seed mixture 2/LPC

() seed mixture 3

(X) seed mixture 4

() Aplomado Falcon Mixture

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

permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

- 15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.
- 16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.
- 17. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
- 18. <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 1 LINES

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

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

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

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

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

6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When

necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

- 7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
- 8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.
- 9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
- 10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.
- 11. Special Stipulations:
 - For reclamation remove poles, lines, transformer, etc. and dispose of properly.
 - Fill in any holes from the poles removed.

IX. INTERIM RECLAMATION

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

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road

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

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

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

X. FINAL ABANDONMENT & RECLAMATION

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

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

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

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

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Mixture 4, for Gypsum Sites

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

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

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

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

~DWS: DeWinged Seed

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

7

^{*}Pounds of 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.