Must be in compliance with NMOCD Rule 5.9 prior to transporting/selling product.

UNORTHODOX LOCATION

OCD Artes

wa w	•					Y
Form 3160-3 (March 2012)	gament to the				FORM APP OMB No. 10 Expires Octobe	ROVED 004-0137
DEPARTMENT	ED STATES FOF THE INTERIOR AND MANAGEMENT			5. Lease S SHL: NMN	Serial No. IM114350; BHL: 1	NMNM117116
APPLICATION FOR PER	MIT TO DRILL OR RE	ENTER		6. If India	n, Allotee or Tr	ibe Nane
1a. Type of Work RILL	REENTER			7. If Unit	or CA Agreeme	ent, Name and No.
1b, Type of Well Gas Well Gas Well	Other	Single Zone	Multiple Zone	1	Name and Well k 29 Federal (No. Com#6H - 404
Name of Operator Cimarex Energy Co.		4	215099>	9. API W	ell No.	42328
3a. Address 202 S. Cheyenne Ave., Ste 1000, Tulsa, OK 74103	3b. Phone No. (incl.) 918-585-1100	lude area code)		10. Field Wildcat,	G-08	\$252436Mj
4. Location of Well (Report location clearly and in accordant At Surface 210 FNL & 1470 FWL	.; Sec 29, 26S, 27E				•	and Survey and Area
At proposed prod. Zone 330 FSL & 2020 FWL		Bone Spring		29, 26E,	27E	
14. Distance in miles and direction from nearest town or post of 38.2 miles to Carlsbad, NM	ffice*			12. Count	y or Parish	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line if any) 210	16. No of acres in lease NMMH11350=1200.00 acres NMNM117116=1365.00 acres		17. Spacing Unit dedicated to	o this well 구하다하다.	223.13	Barrier Land
18. Distance from proposed* location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth Pilot Hole TD: 7,950 14,150 MD 7,41	1 TVD	20. BLM/BIA Bond No. on NM2575; NMB0008			EIVED
40' to the #5H	7,41	1100	INWIZS7S, INWIBOUG	33	APK	2 1 2014
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3250 GR	22. Approximate date work will 3/31/14	l start*	23. Estimated duration 35	days	NMOC	DARTES A
	24. A	ttachments	<u> </u>			
 The following, completed in accordance with the requirements Well plat certified by a registered surveyor A Drilling Plan A Surface Use Plan (if the location is on National Forest SUPO shall be filed with the appropriate Forest Service 	System Lands, the	4. Bond to co	shed to this form: over the operations unless cove Certification site specific information and/	•	-	
25. Signature Un au la Tille	Name (Printe	ed/Typed) Hope K		Date	10/31/1	13 *****
Regulatory Compliance						:
Approved By (Signature)	PHEN J. CAPPEN	ed/Typed)		Date APR	1 2 20	14
Title FIELD MANAGER	Office C/	ARLSBAD FI	eld office			
Application approval does not warrant or certify that the applic conduct operations thereon. Conditions of approval, if any, are attached.	ant holds legal or equitable title to	to those rights in t	• •			O YEARS

Title 18 U.S.S. 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.

Approval Subject to General Requirements

& Special Stipulations Attached

SEE ATTACHE

Operator Certification Statement Medwick 29 Federal Com #6H

> Cimarex Energy Co. UL: C, Sec. 29, 26E, 27E 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.

Executed this 30 day of ___

October , 20

Aricka Easterling

TITLE: Regulatory Compliance

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

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

District I 1625 N. French Dr.; Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u> 811 S. Fust St., Artesia, NM 88210

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

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

_		WELL LOCATION.AT	WACKEAUF DEDICATION LAT					
1	API Number	122290 Code	WICOUN L-13 Pools	Jame 525263571, 65				
L	30-015	72328 71818	₩ildcat Bone	Spring				
Г	/ Brogerty Gode	5,1	6 Well Number					
	411450	MEDWICE	MEDWICK 29 FEDERAL COM					
	7 OGRID No.		Opérator Name	9 Elevation				
	215099	CIMAR	REX ENERGY CO.	3250'				

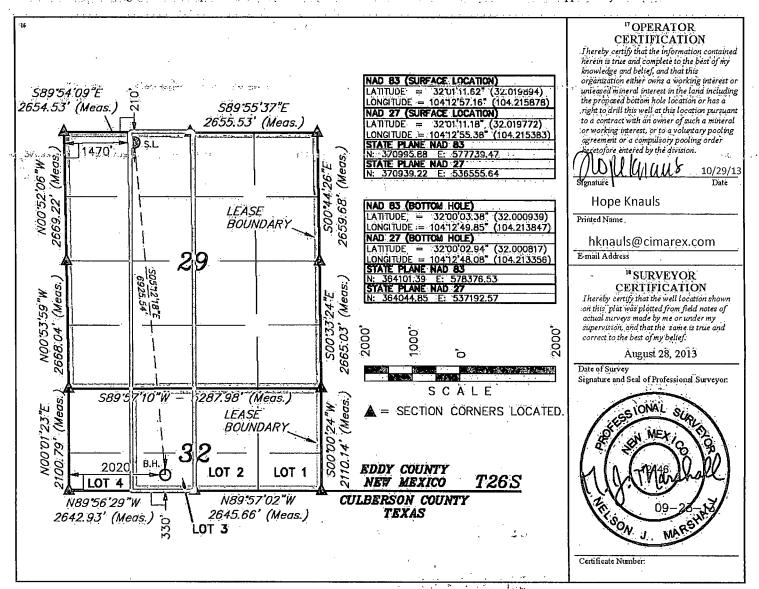
in Surface Location

UL or lot no. C	Section 29	Township 26S	Range 27E	Lot Idn	Feet from the 210	North/South line NORTH	Feet from the 1470	East/West line WEST	County EDDY	
										_

"Bottom Hole Location If Different From Surface

UL or lot no. F	Section 32	Township 26 S	Range 27E	Lot Idn	Feet from the 330	North/South line SOUTH	Feet from the 2020	East/West line WEST	County EDDY	
Dedicated Acre	rs 13 J	oint or Infill	14 Consc	didation Code	15 Order No.	NSL Pending	5 5			

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.



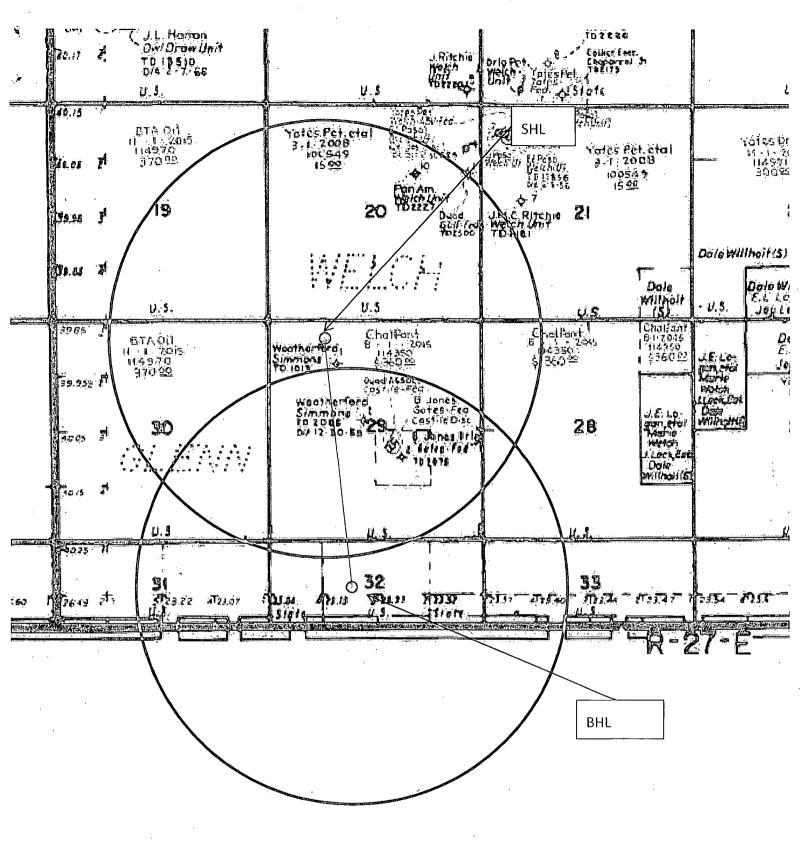
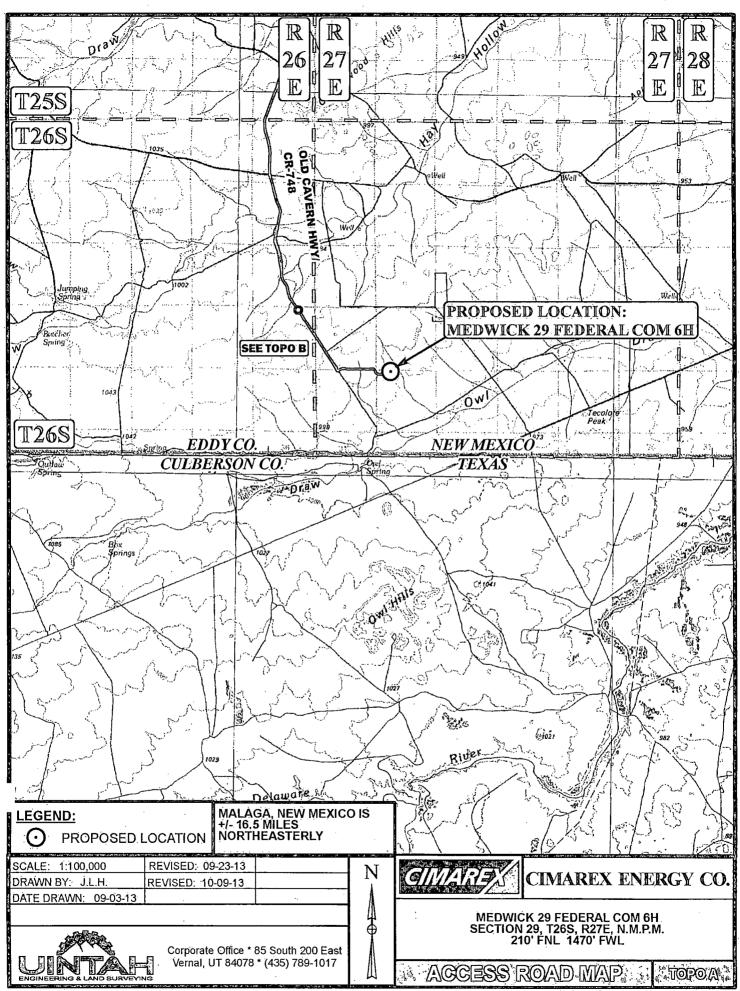


Exhibit A – One Mile Radius Map
Medwick 29 Fed Com 6H
Cimarex Energy Co.
29-26S-27E
SHL 210 FNL & 1470 FWL
BHL 330 FSL & 2020 FWL
Eddy County, NM



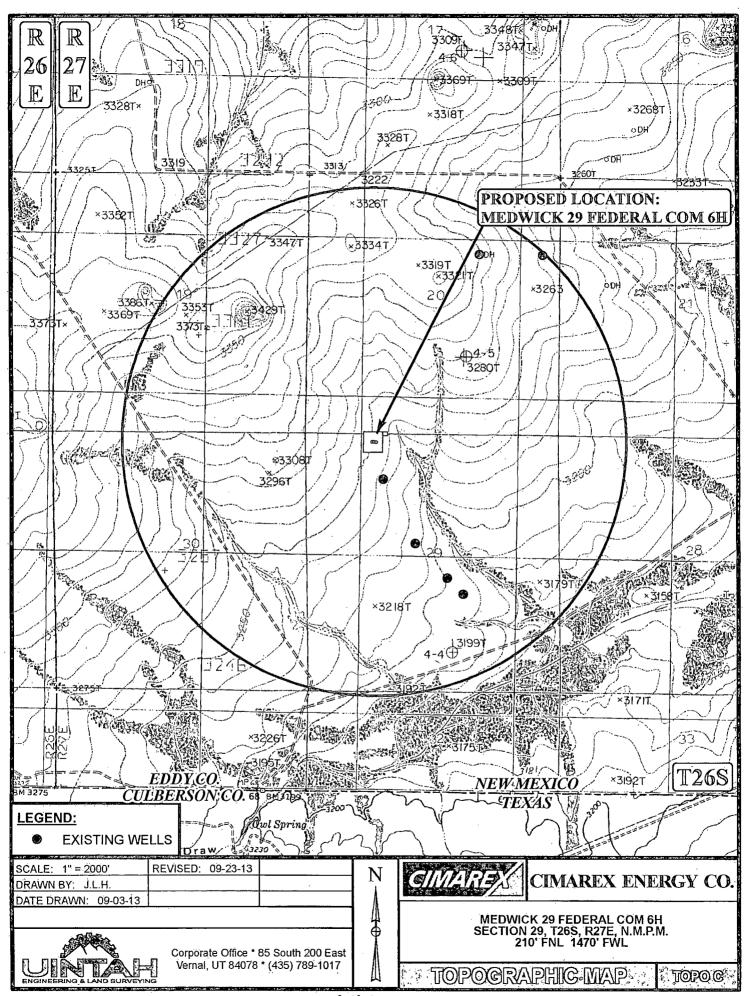
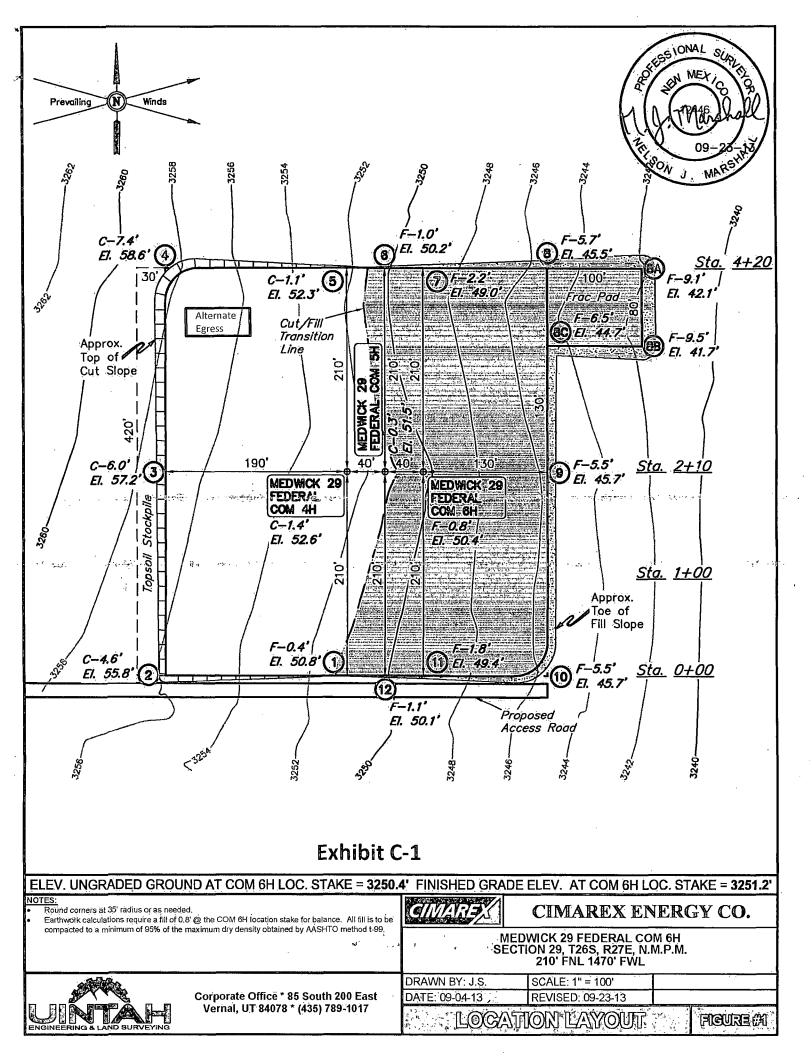
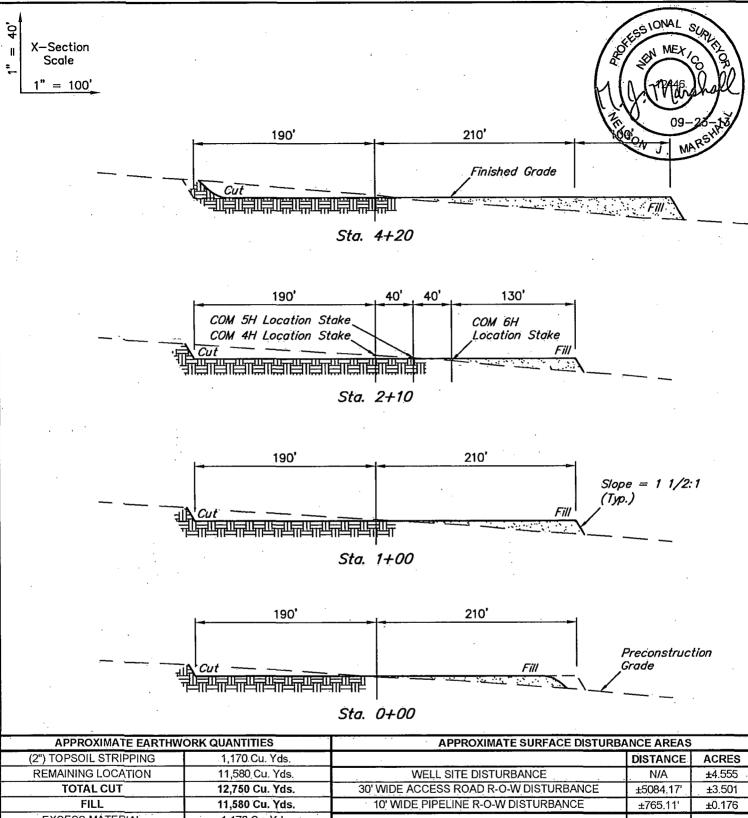


Exhibit C





APPROXIMATE EARTHW	ORK QUANTITIES	APPROXIMATE SURFACE DISTUR	BANCE AREAS		
(2") TOPSOIL STRIPPING	1,170 Cu. Yds.		DISTANCE	ACRES	
REMAINING LOCATION	11,580,Cu. Yds.	WELL SITE DISTURBANCE	. N/A	±4.555	
TOTAL CUT	12,750 Cu. Yds.	30' WIDE ACCESS ROAD R-O-W DISTURBANCE	±5084.17'	±3.501	
FILL	11,580 Cu. Yds.	10' WIDE PIPELINE R-O-W DISTURBANCE	±765.11'	±0.176	
EXCESS MATERIAL	1,170 Cu. Yds.	TOTAL CURFACE USE AREA	. 50 40 601	10.000	
TOPSOIL	1,170 Cu. Yds.	TOTAL SURFACE USE AREA	±5849.28'	±8.232	
EXCESS UNBALANCE	0 Cu. Yds.				

NOTES:
Fill quantity includes 5% for compaction.

Topsoil should not be stripped below finished grade on substructure area.



CIMAREX ENERGY CO.

MEDWICK 29 FEDERAL COM 6H SECTION 29, T26S, R27E, N.M.P.M. 210' FNL 1470' FWL



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

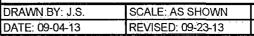
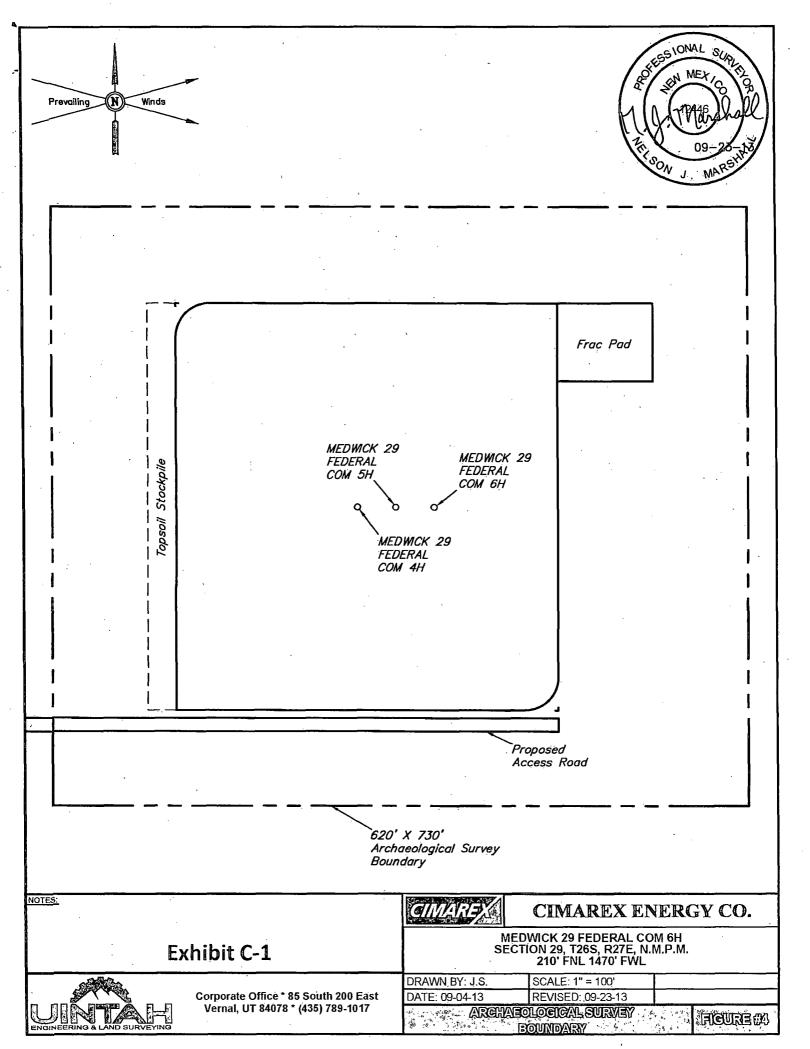


FIGURE (12



ROAD RIGHT-OF-WAY DESCRIPTION

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

BEGINNING AT A POINT IN THE NE 1/4 NW 1/4 OF SECTION 30, T26S, R27E, N.M.P.M., WHICH BEARS S70'39'40"W 608.72' FROM THE NORTH 1/4 CORNER OF SAID SECTION 30, THENCE N56'07'17"E 332.54'; THENCE N73'00'53"E 8.82'; THENCE S89'45'14"E 290.11' TO A POINT ON THE EAST LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 30, WHICH BEARS S00'59'46"E 14.88' FROM THE NORTH 1/4 CORNER OF SAID SECTION 30, THENCE S89'45'14"E 2576.72'; THENCE S41'36'01"E 104.19'; THENCE S26'16'51"E 10.64' TO A POINT ON THE EAST LINE OF THE NE 1/4 NE 1/4 OF SAID SECTION 30, WHICH BEARS S00'52'06"E 102.16' FROM THE NORTHEAST CORNER OF SAID SECTION 30, THENCE S26'16'51"E 136.18'; THENCE S36'59'04"E 160.69'; THENCE S63'12'58"E 184.13'; THENCE S89'54'11"E 1280.13' TO A POINT IN THE NE 1/4 NW 1/4 OF SECTION 29, T26S, R27E, N.M.P.M., WHICH BEARS S67'36'27"W 1137.26' FROM THE NORTH 1/4 CORNER OF SAID SECTION 29. 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 3.501 ACRES MORE OR LESS.

RIGHT-OF-WAY LENGTHS										
PROPERTY OWNER	FEET	ACRES	RODS							
BLM	5084.17	3.501	308.13							



Sheet 1 of 4

NOTES:

The maximum grade of existing ground for the proposed access road is ±5%.

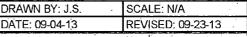


CIMAREX ENERGY CO.

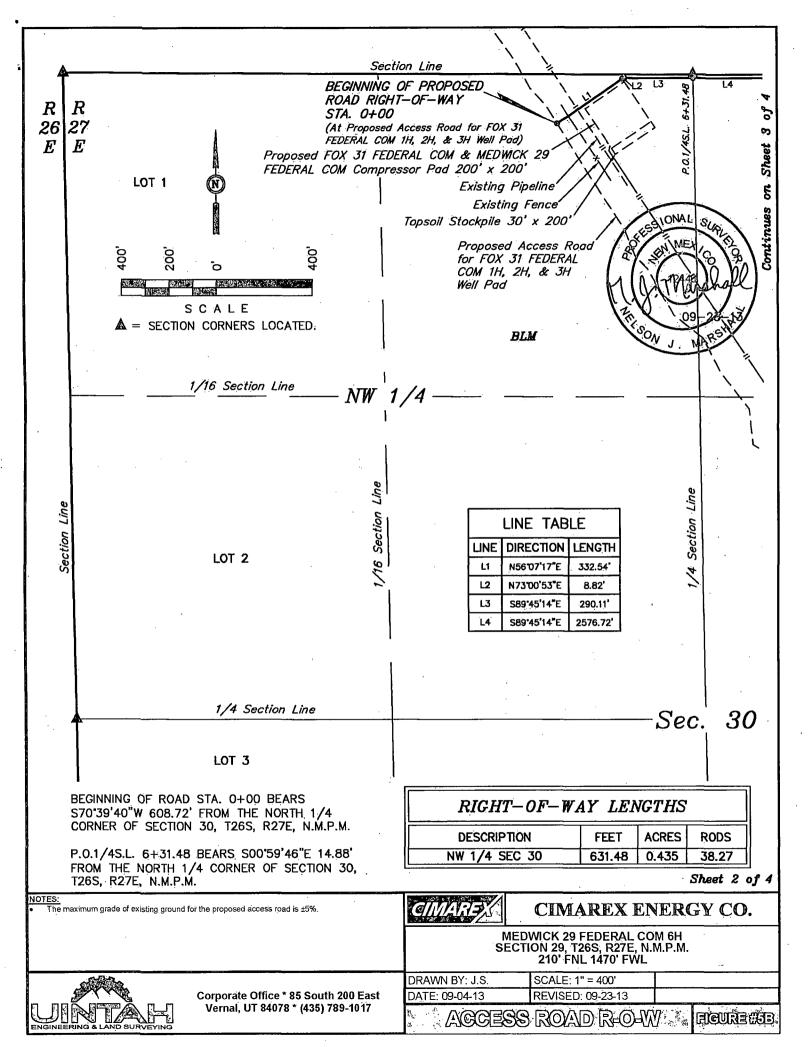
MEDWICK 29 FEDERAL COM 6H SECTION 29, T26S, R27E, N.M.P.M. 210' FNL 1470' FWL

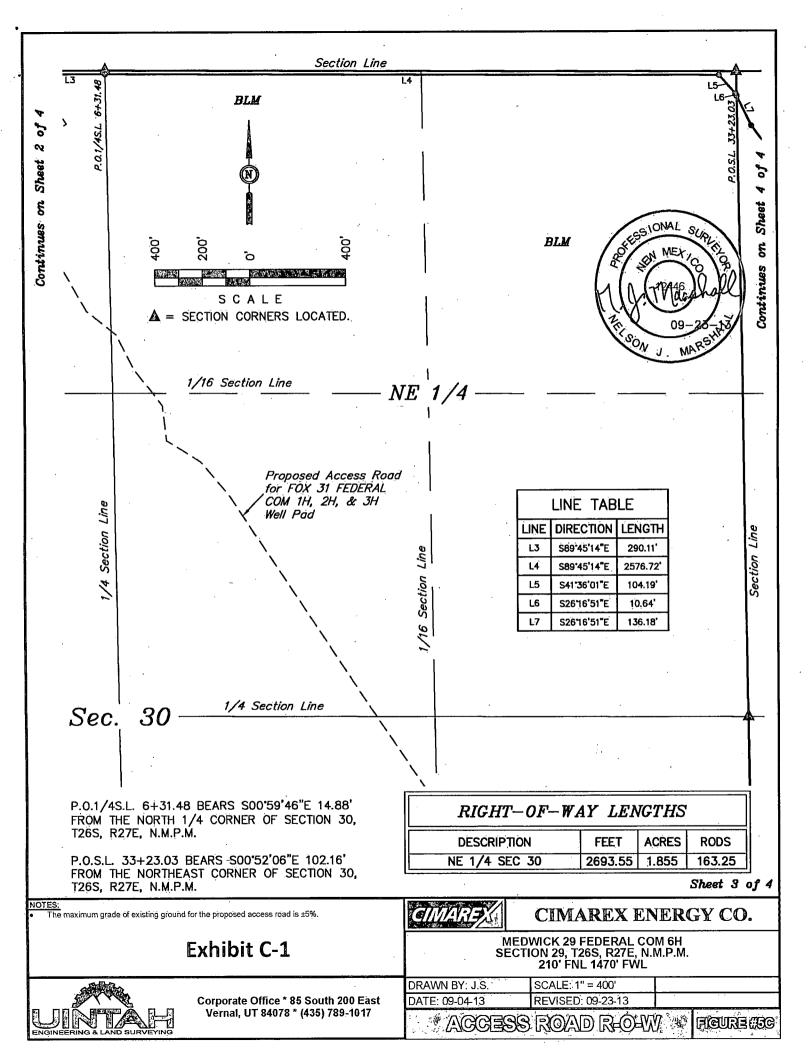


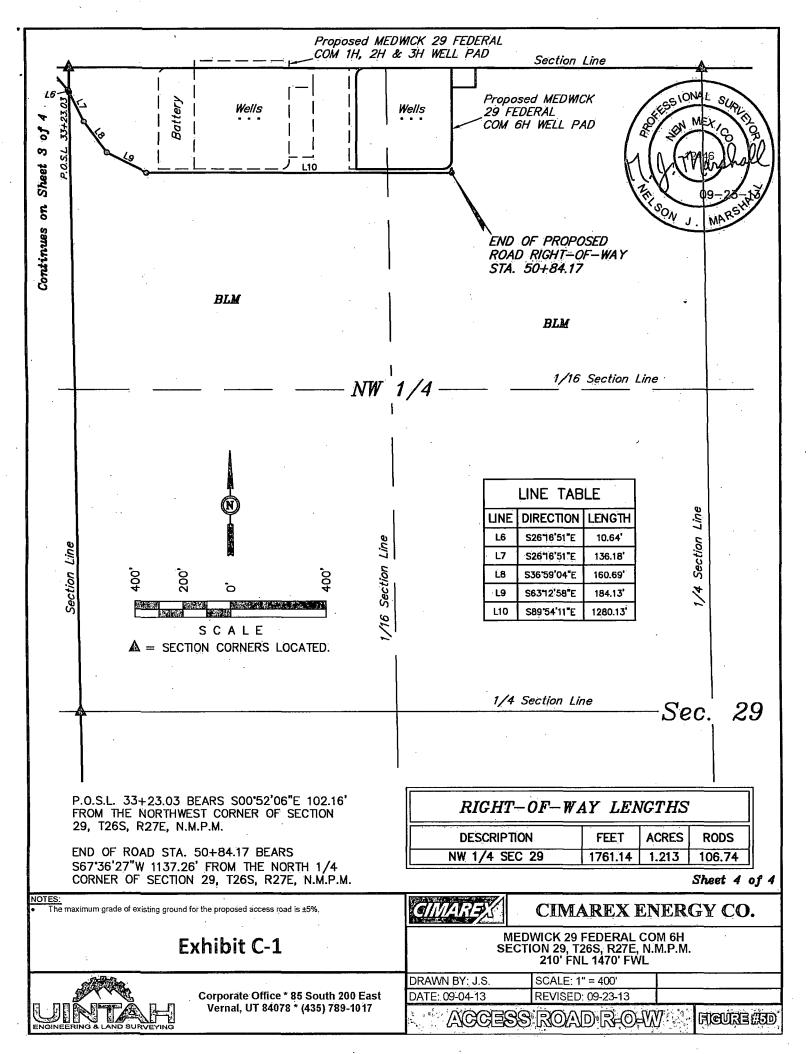
Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017



CESS ROAD REOAW FROM







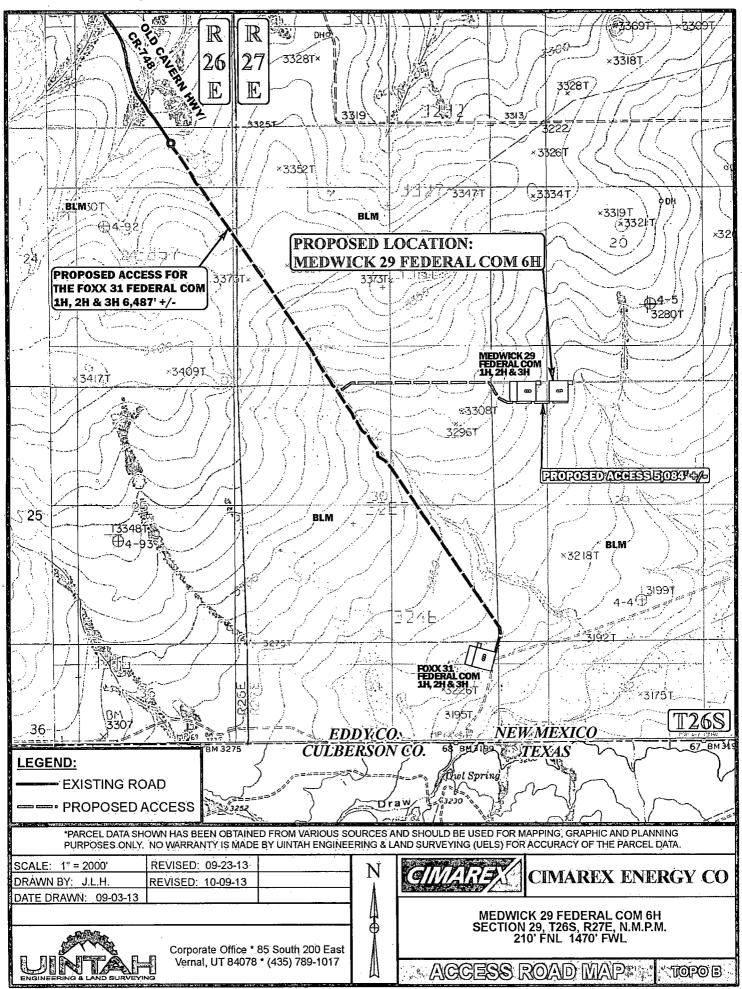
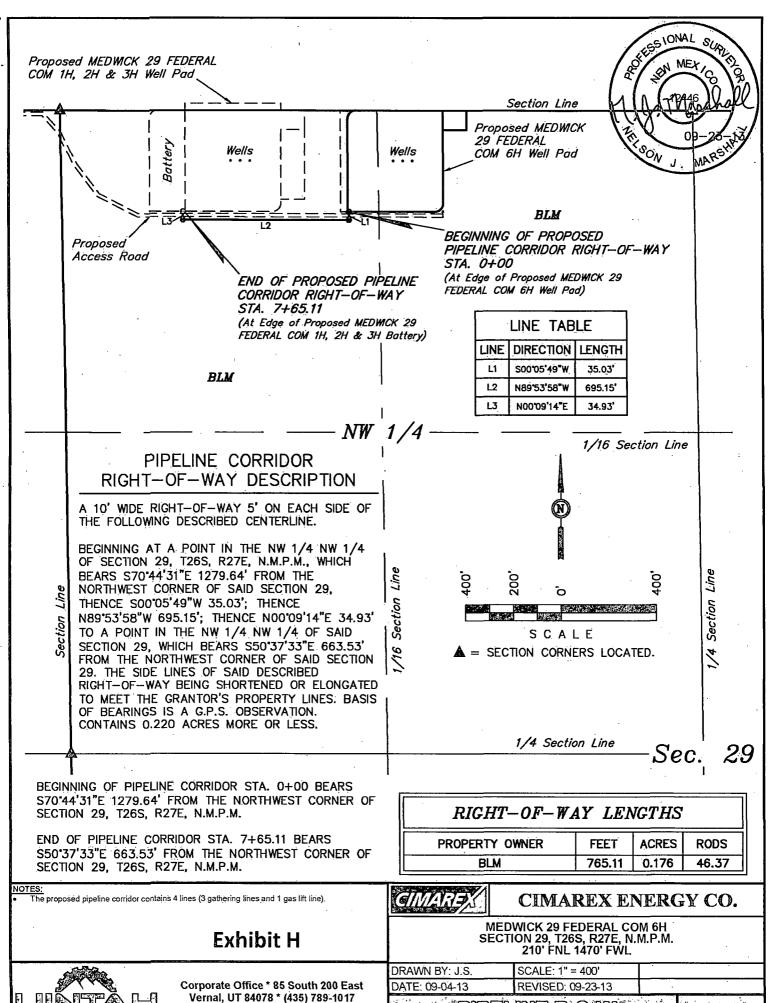


Exhibit G



PIPEUNE REO-W

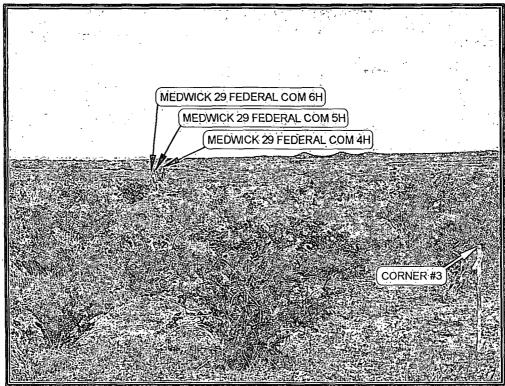


PHOTO: VIEW FROM CORNER #3 TO LOCATION STAKES

CAMERA ANGLE: EASTERLY

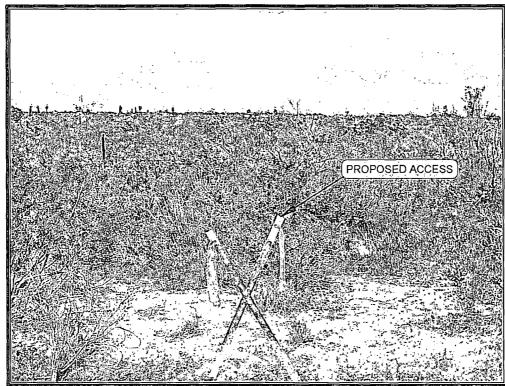


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHEASTERLY

NOTES:

CIMAREX

CIMAREX ENERGY CO.

MEDWICK 29 FEDERAL COM 6H SECTION 29, T26S, R27E, N.M.P.M. 210' FNL 1470' FWL



Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017 TAKEN BY: J.C. DATE: 08-27-13

DRAWN BY; J.L.H.

REVISED: 09-23-13

DATE: 09-03-13

Application to Drill

Medwick 29 Federal Com #6H

Cimarex Energy Co. UL: C, Sec. 29, 26E, 27E Eddy Co., NM

In response to questions asked under Section II B of Bulletin NTL-6, the following information is provided for your consideration:

1. Location:

SHL 210 FNL & 1470 FWL; Sec 29, 26S, 27E

BHL 330 FSL & 2020 FWL; Sec. 32, 26S, 27E

2. Elevation Above Sea Level: 3,250' GR

3. Geologic Name of Surface Formation: Quaternary Alluvium Deposits

4. Drilling Tools and Associated Equipment: Conventional rotary drilling rig using fluid as a circulating medium for solids removal

5. Proposed Drilling Depth: 14,150 MD 7,411 TVD Pilot Hole TD: 7,950

6. Estimated Tops of Geological Markers:

Formation	Est Top	Bearing
Salado	1438	N/A
Castille	1898	N/A
Bell Canyon	2060	N/A
Cherry Canyon	3049	N/A
Brushy Canyon	4194	N/A :
Brushy Canyon Lower	5466	N/A , • ·
Bone Spring	5658	Hydrocarbons
Bone Spring A Shale	5787	Hydrocarbons
Bone Spring C Shale	6266	Hydrocarbons
1st Bone Spring Ss	6607	Hydrocarbons #14 50 50 50
2nd Bone Spring Ss '	7057	Hydrocarbons
2nd BS Ss Horz Target	7431	Hydrocarbons
3rd BS Limestone	7578	Hydrocarbons
TD (Pilot Hole)	7950	Hydrocarbons

7. Possible Mineral Bearing Formation: Shown above

7A. OSE Ground Water Estimated Depth: 100'

8. Casing Program:

Name Casing Depth From (ft)	Casing Setting Depth (ft) MD Casing Setting Depth (ft) IVD	Open Hole Size (inches) Casing Size (inches)	Casing Weight (lb/ft) Casing Grade	Thread	BHP (psig)	Anticipated Mud Weight (ppg) Collapse SF at Full Fvacuation(1.125)	Collapse SF at 1/3 Evacuation(1.125)	Burst SF (1.125)	Weignt Cumulative 'Bouyed Weight (lbs)	Bouyant Tension SF (1.8)
Surface 0	400 400	17 1/2 13-3/8	48.00 H-40	ST&C New	172	8.3	29	10.02, 1	9,200 16,767	19.20
Intermediate 0	20304 (2030	12 1/4 9-5/8"	36.00 J-55	LT&C New	1055	10.0	1.91	3.331 7	3,080 61,923	7.32
Production 0	6953 6953	8 3/4 5-1/2"	17.00 L-80	LT&C New	3254	9.0 1.	93	2.38 12	5,987 108,676	3.11
Production 6953	14150 7411	8 3/4 5-1/2"	17.00 L-80	BT&C New			81;	2.23	7,786 6,716	59.11

Note: Operator may drill a 8-1/2" OH from end of curve to TD of the well. This is to reduce the need to ream the conventionally drilled curve to run a RSS assembly into the lateral.

Application to Drill

Medwick 29 Federal Com #6H

Cimarex Energy Co. UL: C, Sec. 29, 26E, 27E Eddy Co., NM

8A. Casing Design and Casing Loading Assumptions:

Surface	Tension	A 1.8 design factor with effects of buoyancy: 8.30 ppg.
	Collapse	A 1.125 design factor with full internal evacuation and a collapse force equal to a 8.30 ppg mud gradient.
	Burst	A 1.125 design with a surface pressure equal to the fracture gradient at setting depth less gas gradient to surface.
Intermediate	Tension	A 1.8 design factor with effects of buoyancy: 10:00 ppg.
·	Collapse.	A 1.125 design factor evacuated 1/3 TVD of next casing string with a collapse force equal to a 10.00 ppg mud gradient.
	Burst	A 1.125 design with a surface pressure equal to the fracture gradient at setting depth less gas gradient to surface.
Production and\or	Tension	A 1.8 design factor with effects of buoyancy: 9.00 ppg.
Production Completion System	Collapse Burst	A 1.125 design factor with full internal evacuation of next casing string with a collapse force equal to a 9.00 ppg mud gradient. A 1.125 design with a surface pressure equal to the fracture gradient at setting depth less gas gradient to surface.

9. Cementing Program:

Casing Type	Туре	Sacks	Yield	Weight	Cubic Feet		Cement Blend			
Surface	Lead	79	1.75	13.50		138	Class C + Bentonite + Calcium Chloride + LCM, 8.829 gps water			
E00-00	Tail	195	1.34	14.80		260	Class C + LCM, 6.32 gps water			
20(84	TOC: 0		44% Ex	cess			Centralizers per Onshore Order 2.III.B.1f			
Intermediate	Lead	475	1.88	12.90		892	35:65 (poz/C) + Salt + Bentonite + LCM + retarder, 9.65 gps water			
	Tail	118	1.34	14.80		158	Class C + retarder + LCM, 6.32 gps water			
,	TOC: 0		82% Ex	cess			,			
Production	Lead	604	2.40	11.90			35:65 (poz/H) + salt + Sodium Metasilcate + Bentonite + Fluid Loss + Dispersant + LCM + Retarder, 13:80 gps water			
	Tail	1961	1.24	14.50		2431	50:50 (poz/H) + Bentonite + Salt + Fluid Loss + Dispersant + LCM + Retarder, 5.55 gps water			
COA	TOC: 18	3 0	25% Ex	cess			No centralizers planned in the lateral section. 1 every jt from EOC to KOP. 1 every 4th joint from KOP to 500' inside previous casing.			

Cement volumes will be adjusted depending on hole size

9a. Proposed Drilling Plan:

Pilot Hole TD: 7,950'

KOP: 6,953'

EOC: 7,705'

Set OH mechanical whipstock w/ 947 ft of 2.875 tubing and pump 30 bbls of Mudpush @ 12 ppg, followed by 443 sks Type H cement, dispersant 0.080 gals/sk, retarder 0.045 gals/sk @ 17.50 ppg, 0.94 cuft/sk, & 0% excess from pilot hole TD to KOP. KO lateral and drill through the curve to TD. Run production csg to TD and cement.

Application to Drill

Medwick 29 Federal Com #6H

Cimarex Energy Co. UL: C, Sec. 29, 26E, 27E Eddy Co., NM

10. Pressure Control Equipment:

Exhibit "E-1". A BOP consisting of two rams with blind rams and pipe rams, and one annular preventer. Below the surface casing, a 2M system will be used. Below the intermediate casing, a 3M system will be used. See attachments for BOP and choke manifold diagrams. An accumulator that meets the requirements in Onshore Order #2 for the pressure rating of the BOP stack. A Rotating head may be installed as needed. A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

BOP and associated equipment will be installed, used, maintained, and tested in a manner necessary to assure well control and shall be in place and operational prior to drilling the surface casing shoe. The Annular Preventer shall be functioned at least weekly. The pipe and blind rams will be operated each trip. No abnormal pressure or temperature is expected while drilling.

BOPS will be tested by an independent service company. The ram preventers, choke manifold, and safety valves will be tested as follows: On the surface casing, pressure tests will be made to 250 psi low and 2000 psi high. On the intermediate casing, pressure tests will be made to 250 psi low and 3000 psi high.

The Annular Preventer will be tested to 250 psi low and 1000 psi high on the surface casing, and 250 low and 1500 high on the intermediate casing.

Cimarex Energy Co. of Colorado requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached (please see Exhibit F, F-1, F-2, F-3). The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used.

11. Proposed Mud Circulating System:

Depth	lviud Weight	Visc	Fluid Loss	Type Mud	
0' to 400'	8.30	28	NC	FW Spud Mud	•
400' to 2050' 1950	10.00	30-32	NC	Brine Water	
2038 to 14150'	9.00	30-32	NC	FW/Cut Brine	

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs.

The Mud Monitoring System is an electronic Pason System satisfying requirements of Onshore Order 1.

12. Testing, Logging and Coring Program:

- A. Mud logging program: 2 man unit from 2030 to TD
- B. Electric logging program: CNL / LDT / CAL / GR, DLL /GR -- Inter. Csg. to TD

CNL /GR -- Surf to Inter. Csg

- C. No DSTs or cores are planned at this time
- D.CBL w/ CCL from as far as gravity will let it fall to TOC

13. Potential Hazards:

No abnormal pressures or temperatures are expected. In accordance with Onshore Order 6, Cimarex does not anticipate that there will be enough H_2S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of an " H_2S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H_2S Safety package on all wells, attached is an " H_2S Drilling Operations Plan." Adequate flare lines will be installed off the mud / gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

Estimated BHP: 3578 psi

Estimated BHT: 140°

14. Construction and Drilling:

Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take: 35 days.

If production casing is run an additional 30 days will be required to complete and construct surface facilities.

15. Other Facets of Operations:

If production casing is run an additional 30 days will be required to complete and construct surface facilities.

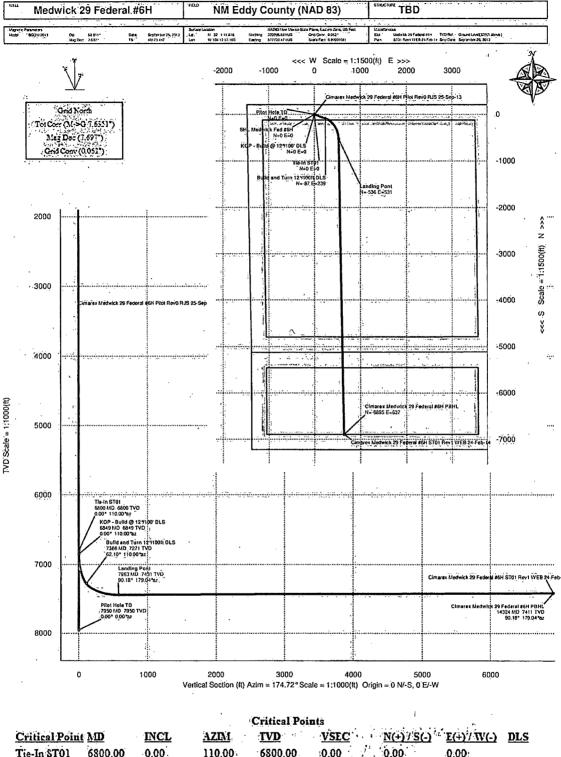
Bone Spring pay will be perforated and stimulated.

The proposed well will be tested and potentialed as Oil



Cimarex





Critical Point	MD	INCL	AZIM	<u>TVD</u>	VSEC	N(+)/S(-)	E(+) / W(-)	<u>DLS</u>
Tie-In \$T01	6800.00	0.00	110.00	6800.00	0.00	0.00	0.00:	
KOP - Build @ 123/100 DLS	6343.80	0.00	110.00	6848.80	0.00	:0.00	0.00	0.00
Build and Turn 127/1000 DLS	7366.30	62.10 ¹	110.00	7270.77	108.49	-86.89	238.72	12.00
Landing Pont	7963.48	90.18	179.04	7431.00	582.36	-535.79	530.80	12.00
Cimarex Medwick 29 Federal #6H	ã 4 323.73	90.18	179.04	7411.00	6924,49	-6895.12	637.12	0.00



Cimarex Medwick 29 Federal #6H ST01 Rev1 WEB 24-Feb-14 Proposal Geodetic Report 100' Interpolated (Non-Def Plan)

Report Date: Client:

Field:

Structure / Slot:

Well: Borehole:

UWI / API#:

Survey Name:

Survey Date:

Tort / AHD / DDI / ERD Ratio:

Coordinate Reference System: Location Lat / Long:

Location Grid N/E Y/X:

CRS Grid Convergence Angle:

Grid Scale Factor:

February 24, 2014 - 05:00 PM

Cimarex

NM Eddy County (NAD 83)

Cimarex Medwick 29 Federal #6H / Cimarex Medwick 29 Federal #6H

Cimarex Medwick 29 Federal #6H

ST01 Borehole

Unknown / Unknown

Cimarex Medwick 29 Federal #6H ST01 Rev1 WEB 24-Feb-14

September 25, 2013

133,764 ° / 7182.935 ft / 6,268 / 0.967

NAD83 New Mexico State Plane, Eastern Zone, US Feet

N 32° 1"11.61594", W 104° 12' 57.15998"

N.370995:880 ftUS, E.577739:470 ftUS

0.0623 *

0.99991061

Survey / DLS Computation: Vertical Section Azimuth:

Vertical Section Origin:

TVD Reference Datum:

TVD Reference Elevation: Seabed / Ground Elevation:

Total Gravity Field Strength: Total Magnetic Field Strength:

Magnetic Dip Angle: Declination Date:

Magnetic Declination:

Magnetic Declination Model:

North Reference:

Grid Convergence Used:

Minimum Curvature / Lubinski 174.720 ° (Grid North)

0.000 ft. 0.000 ft

Ground Level

3250,000 ft above 3250.000 ft above

998.4851mgn (9.80665 Based)

48173.387 nT

59.811 °

September 25, 2013

BGGM.2013 Grid North

0.0623°

Total Corr Mag North->Grid North: 7.6351 °

Local Coord Referenced To:

Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS: (°/100ft):	Northing (ftUS)	Easting (ftUS)	Latitude (N/S °''')	Longitude (E/W ° ' ")
Tie-In:ST01	6800.00	0:00	110.00	6800.00	0.00	0.00	0.00	N/A	370995.88			W 104 12:57.16
KOP - Build @ 12°/100' DLS	6848.80	, 0 ;00.	110.00	6848.80	0.00	0.00	0.00	0.00	370995.88	577739:47 N	32 1 11.62	W 104, 12:57.16 ¹
	6900.00 7000.00 7100.00	6.14 18.14 30:14	110.00 110.00 110.00	6899.90 6997.49 7088.57	1.17 10.14 27.57	-0.94 -8:12 -22.08	2.58 22.31 60.68	12:00 12:00 12:00	370994:94 370987:76 370973:80	577761.78 N	32 1 11.54	W 104 12 57.13 W 104 12 56.90 W 104 12 56.46
77.	7200.00 7300.00	42:14 54.14	110.00 110.00	7169.18 7235.78	52.72 84.46	-42.22 -67.65	1,16.00 ,185.86	12.00 12.00	370953.66 370928.24	577855.46 N 577925.31 N		W 104 12 55.81 W 104 12 55.00
Build and Turn 12°/100ft DLS	7366.30	(62)10	110.00	7270.77	108.49	-86.89	238.72	12:00	370909:00	577978.17 N	32 1 10.75	W 104 12 54:39
12 710011,013	7400.00 7500.00	62:90 66:05	114.47 127.31	7286.33 7329.57	122.30 175.50	-98.20 -144.50	266.38 343.52	12:00 12:00	370897.69 370851.39	578005.83 N 578082.96 N	**	W 104 12 54:07' W 104 12 53:17
	7600.00 .7700.00 7800.00 7900.00	70:21 75:15: 80:63 86:42	139.44 150.91 161.83 172.41	7366.93 7396.78 7417.81 7429.12	245.09 328.01 420.65 518.97	-208.17 -286.44 -375.87 -472.56	410.70 464.99 504.02 526.08	12:00 12:00 12:00 12:00	370787.72. 370709.47 370620.05 370523:36:	578150.14 N 578204:42 N 578243.44 N 578265:50 N	32 1 8.78 32 1 7.89	W 104 12:52:39 W 104 12:51.76 W 104 12:51.31 W 104 12:51:06
Landing Pont	7963.48	90.18	179.04	7431.00	582:36	-535.79	530.80	12.00	370460.14	578270.22 N		W 104 12 51.00
	8000.00 8100.00 8200.00 8300.00 8400.00	:90.18 :90.18 :90.18 :90.18 :90.18	179.04 179.04 179.04 179.04 179.04	7430.89 7430.57 7430.26 7429.94 7429.63	618.78 718.49 818.21 917.92 1017.64	-572.30 -672:29 -772:27 -872:26 -972:25	531.41 533.09 534.76 536.44 538.11	0:00 0:00 0:00 0:00 0:00	370423.63° 370323.65° 370223.68 370123.70 370023.72	578272.51 N 578274.18 N 578275.86 N 578277.53 N	32 1 4.96 32 1 3.97 32 1 2.98 32 1 1.99	W 104 12 51:00 W 104 12 50:98 W 104 12 50:96 W 104 12 50:94 W 104 12 50:92
	8500.00	90.18	179.04	7429.31	1117.35	-1072.23	539.79	.0:00	369923.75	5/82/9.21 N	32 1 1.00	W 104 12 50 90

\$100.00	Comments	MD (ft)	inçi (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/:100ft)	Northing (ftUS)	Easting (ftUS)	Latitude:	Longitude (E/W ****)
## 179,010 90.18 179.04 7428.08 918.28 127220 54314 0.00 389223.79 \$78282.28 10 32 0.9802 W10-12.28 1													
890,000 99.18 178.04 178.05 191622 1-1072.19 544.61 0.00 39823.82 578284.23 N 32 0.58.03 N 104.12.00 1 178.04 178.05 191622 1-1072.17 544.05 1910.00 1 178.04 178.05 1910.00 1 178.04 1742.74 1915.83 1-1672.66 548.15 0.00 389423.87 578285.8 N 32 0.58.05 N 104.12.00 1 178.04 1742.74 1915.83 1910.00 90.18 178.04 1742.74 1915.83 1910.00 90.18 178.04 1742.74 1915.83 1910.00 90.18 178.04 1742.74 1915.83 1910.00 90.18 178.04 1742.74 1915.83 1910.00 90.18 178.04 1742.74 1910.00 1910.00 90.18 178.04 1742.74 1910.00 1910.00 90.18 178.04 1742.74 1910.00 90.18 178.04 1742.74 1910.00 90.18 178.04 1742.74 1910.00 90.18 178.04 1742.74 1910.00 90.18 178.04 1742.74 1910.00 90.18 178.04 1742.74 1910.00 90.18 178.04 1742.74 1910.00 90.18 178.04 1742.14 1910.00 90.18 178.04 1742.14 1910.00 90.18 178.04 1742.14 1910.00 90.18 178.04 1742.14 1910.00 90.18 178.04 1742.14 1910.00 90.18 178.04 1742.14 1910.00 90.18 178.04 1742.14 1910.00 90.18 178.04 1742.14 1910.00 90.18 178.04 1742.14 1910.00 90.18 178.04 1742.14 1910.00 90.18 178.04 1742.14 1910.00 90.18 178.04 1742.14 1910.00 90.18 178.04 1742.14 1910.00 90.18 178.04 1742.14 1910.00 90.18 178.04 1742.23 1910.00 90.18 178.04 1742.2													
980000 90.18 178.04 7428.06 166.922 -1472.77 8844.8 0.00 399232.84 578285.90 N 32 0.8507.9 M 174 1200.00 1901.00 10.00 1													
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920.00 90.18 17004 7427.11 1815.38 -1772.13 551.51 0.00 38022.38 75280.03 17.20 60.00 1007.20 75 840.00 90.18 17004 7428.00 1915.08 1707.10 1915.08 19													
9500.00 90.18 1750.4 7428.80 1915.08 1327.21 593.18 0.00 38922.54 57822.62 N 32 053.08 W.104 1250.7 \$600.00 90.18 1750.4 7428.40 2714.61 2707.00 \$66.31 0.00 38922.68 \$7292.55 N 3.0 45.10 VIII.41 25.07 970.00 90.18 1730.4 7425.62 2313.44 2272.06 \$800.00 38924.00 \$7409.25 N 3.0 45.11 VIII.41 25.07 970.00 90.18 1730.4 7425.62 2313.44 2272.06 \$800.00 38924.00 \$7409.25 N 3.0 45.11 VIII.41 25.07 970.00 90.18 1790.4 7425.62 2313.44 2272.06 \$800.00 38924.00 \$7720.25 N 3.0 45.11 VIII.41 25.07 970.00 90.18 1790.4 7425.20 2313.44 2272.06 \$800.00 38924.00 \$7720.25 N 3.0 41.11 VIII.41 25.07 970.00 90.18 1790.4 7425.21 2313.55 0.00 38924.00 \$8720.25 N 3.0 41.11 VIII.41 25.07 970.00 90.18 1790.4 7425.21 2313.57 2-677.05 \$68.22 0.00 38924.00 \$7720.26 N 3.0 041.11 VIII.41 25.07 970.00 90.18 1790.4 7425.21 2513.37 2-677.05 \$68.22 0.00 38924.00 \$7720.26 N 3.0 041.11 VIII.41 25.05 970.00 90.18 1790.4 7424.00 2712.00 2672.00 \$66.87 0.00 38924.00 \$7720.26 N 3.0 041.11 VIII.41 25.05 970.00 90.18 1790.4 7425.20 2712.00 2672.00 \$66.87 0.00 38924.15 \$7720.00 90.18 1790.4 7425.20 2712.00 2672.00 \$66.87 0.00 38924.15 \$7720.00 90.18 1790.4 7423.25 971.20 2672.00 \$66.87 0.00 38924.15 \$7720.00 90.18 1790.4 7423.00 2812.31 1277199 \$69.91 0.00 38924.15 \$7720.00 90.18 1790.4 7423.00 90.19													
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9600.00	.'	^เ ล4บูป:บุบ	90,18	179.04	7.426:49	2014.79	-19/2.10	554.85	0,00	369023.96	578294.27	N -32 (0.52:10)	W 104 12 50.74
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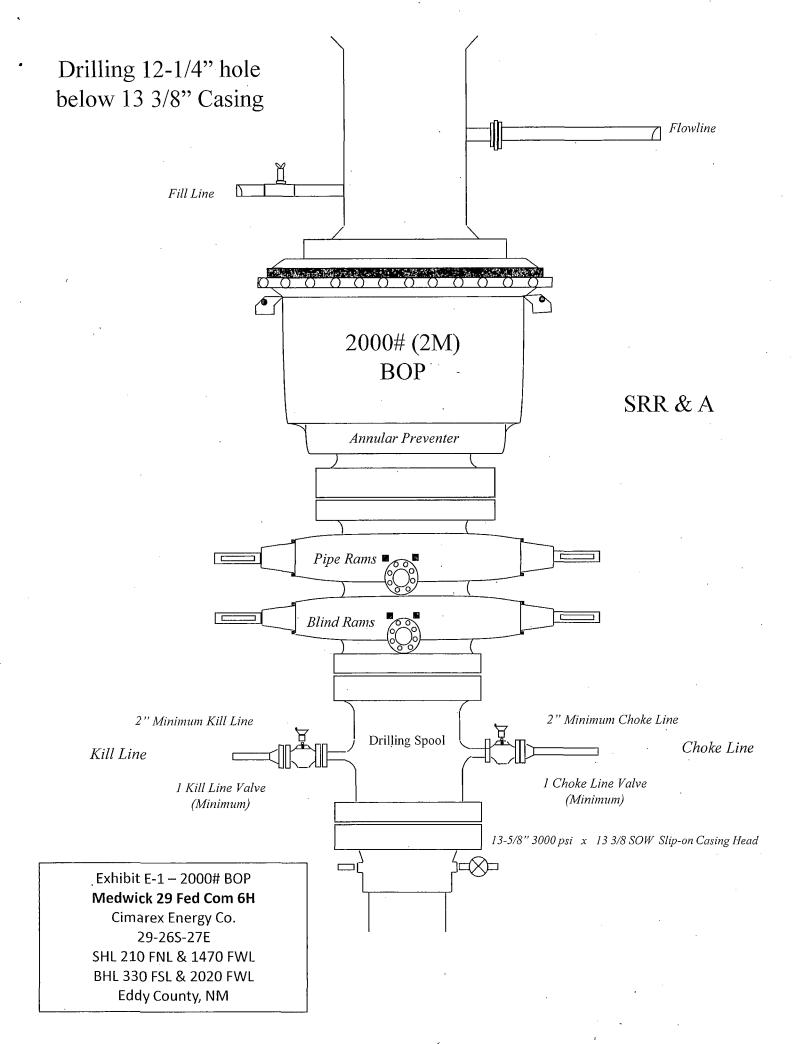
Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	:DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° '''')	Longitude (E/W ° ' ")
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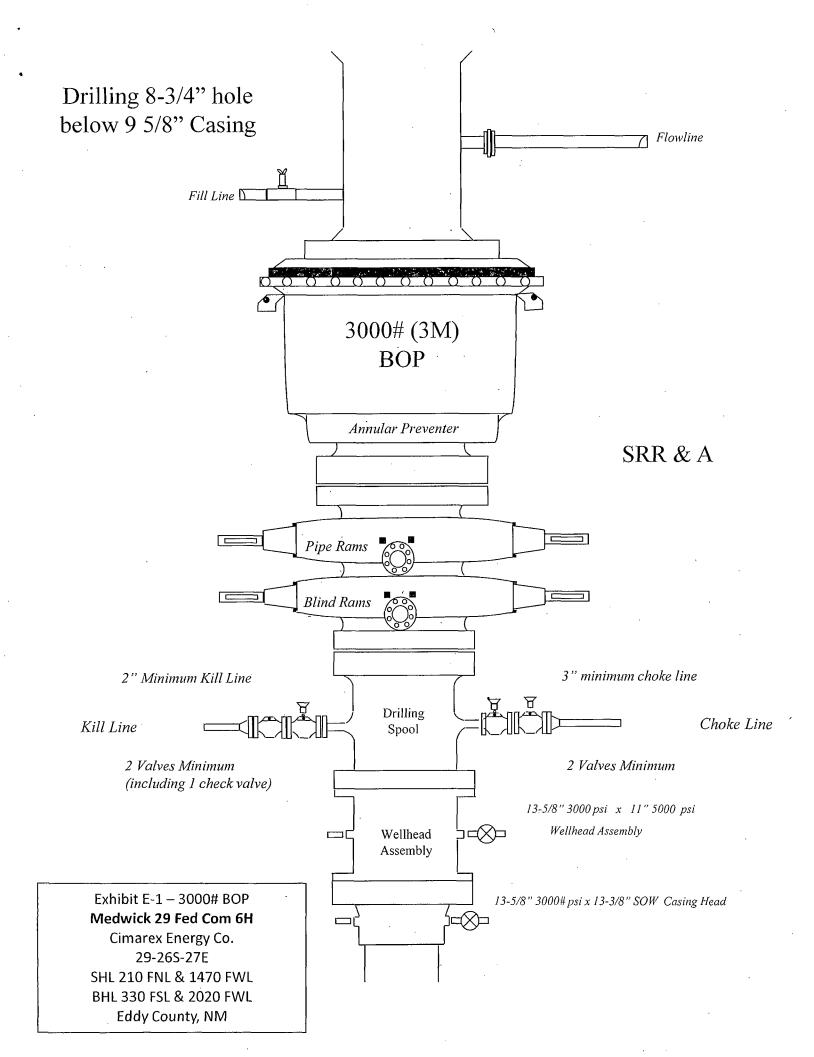
Survey Type:

Non-Def Plan

Survey Error Model: Survey Program: ISCWSA Rev:0 *** 3-D 95.000% Confidence 2:7955 sigma

			•				
Description	MD From (ft)	MD To: (ft)	EOU Freq (ft)	Hole Size Cași (în)	ing Diameter (in)	Survey Tool Type	^f Borehole / Survey
	0:000	6800.000	:1/100:000	30:000-	30,000	SLB_MWD-STD	Pilot Borehole / Cimarex Medwick 29 Federal #6H Pilot Revo RJS
्र अर्था सर् क्रेन	6800,000	14150:366	1/100,000	30:000	30,000	SLB <u>.</u> MWD-STD	ST01 Börehőle / Cimarex Medwick 29 Federal #6H ST01





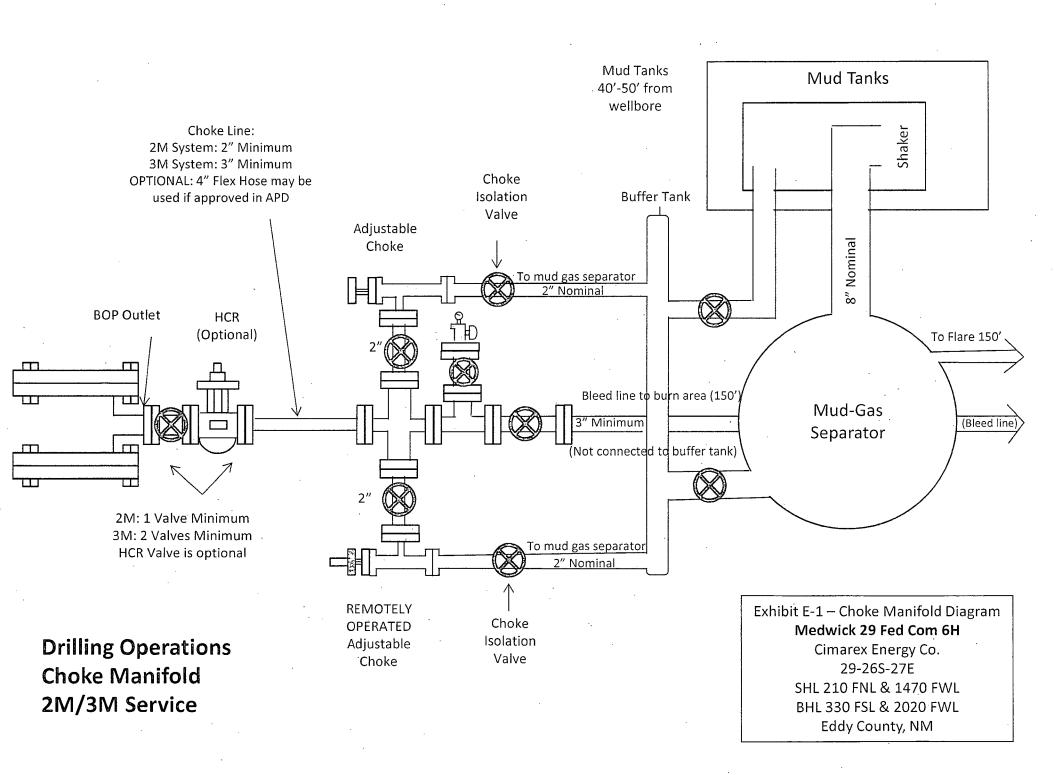


Exhibit F-1 – Co-Flex Hose Hydrostatic Test

Medwick 29 Fed Com 6H

Cimarex Energy Co. 29-26S-27E SHL 210 FNL & 1470 FWL BHL 330 FSL & 2020 FWL Eddy County, NM



Midwest Hose & Specialty, Inc.

INTE	ERNAL	HYDROST	ATIC TES	report	
Customer:	<u>·</u>	P.O. Number:			
	Oderco Inc				71
		HOSE SPECII	FICATIONS		
Type: Sta	ainless S	teel Armor			
Ch	oke & Ki	ill Hose		Hose Length:	45'ft.
I.D.	4	INCHES	O.D.	9	INCHES
WORKING PRES	SSURE	TEST PRESSUR	E ′	BURST PRESSUR	RE
10,000	DOI.	15 000		,	DÓ!
10,000	PSI	15,000	PSI	<u> </u>	<i>PSI</i>
		COUP	PLINGS		
Stem Part No	0,		Ferrule No.		
	ОКС			окс	
Tribin of Con-	OKC			ОКС	····
Type of Cou	piing:				
·	Swage-I	t			
		PROG	EDURE		•
					•
		pressure tested wi TEST PRESSURE		<u>t temperature</u> . BURST PRESSURE:	
		120. I MEGOGINE	AOTOALI	OCHOT I RECOURE.	
	15	MIN:		. 0	PSI
Hose Assem	bly Seria 79793	al Number:	Hose Serial I	Number: OKC	
Comments:					
Date:		Tested:	1 - 0	Approved:	_
3/8/201	11	1 O. 3	Jain Some	LEVIN !	

Exhibit F-1 – Co-Flex Hose Hydrostatic Test

Medwick 29 Fed Com 6H

Cimarex Energy Co. 29-26S-27E SHL 210 FNL & 1470 FWL BHL 330 FSL & 2020 FWL Eddy County, NM

Internal Hydrostatic Test Graph

March 3, 2011

Customer: Houston

Pick Ticket #: 94260

Verification	Coupling Mathod Swage Enal O.D. 6.25" Hose Assembly Serial #
Verif	Type of Litting 41/16 10K Die Size 6:38" Hose Serial # 5544
cifications	Length 45' Q.D. 6.09" Antel Pressure
Hose Specifical	Hose Type C3 K LD. 4" Working Pressure 10000 PSI

15000 14000 15000	
---	--

Tested By: Zoc Mcconnell

Approved By: Kim Thomas

Peak Pressure 15483 PSI

Actual Burst Pressure

Time Held at Test Pressure 11 Minutes

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

Exhibit F-2 – Co-Flex Hose

Medwick 29 Fed Com 6H

Cimarex Energy Co.
29-26S-27E

SHL 210 FNL & 1470 FWL

BHL 330 FSL & 2020 FWL

Eddy County, NM



Midwest Hose & Specialty, Inc.

Certificate of Conformity						
Custome		, 	PO			
	DEM			ODYD-271		
		PECIFICATI				
Sales Ord		Dated	: `			
·	79793			3/8/2011		
	•					
				·		
	•					
	We hereby cerify for the referenced according to the reorder and current	purchase o equirements	order to be of the p	e true		
	ojuci and current	mudstry sta	muarus	•		
	Supplier:					
	Midwest Hose & S		C.			
	10640 Tanner Ro					
	Houston, Texas 7	7041				
	·					
				•		
Comme	nts:			-		
Approved:				Date:		
	James Glarcia			3/8/2011		



Exhibit F -3 - Co-Flex Hose Medwick 29 Fed Com 6H Cimarex Energy Co. 29-26S-27E SHL 210 FNL & 1470 FWL BHL 330 FSL & 2020 FWL 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

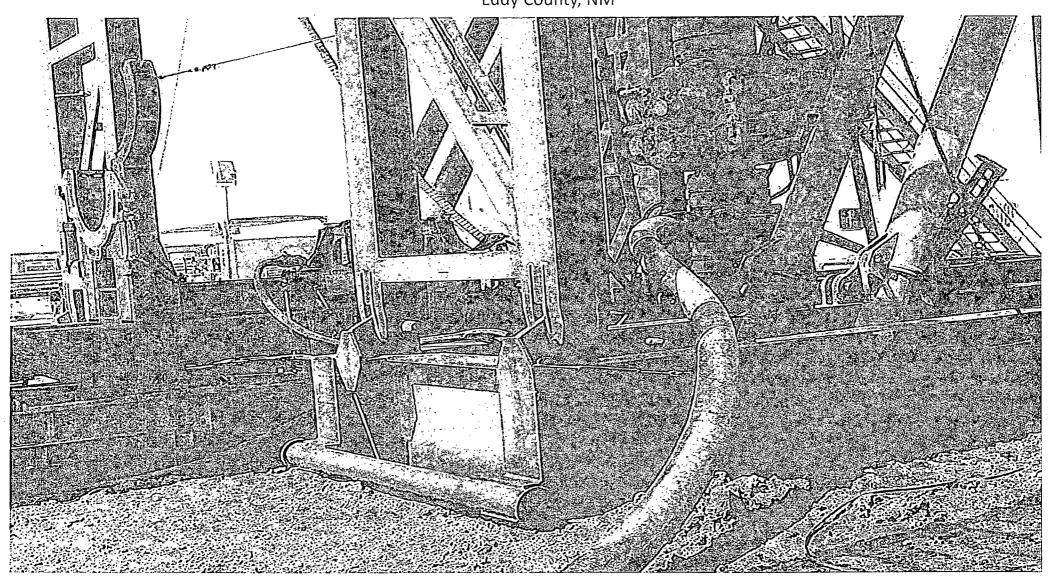
Medwick 29 Fed Com 6H

Cimarex Energy Co.
29-26S-27E

SHL 210 FNL & 1470 FWL

BHL 330 FSL & 2020 FWL

Eddy County, NM



Hydrogen Sulfide Drilling Operations Plan

Medwick 29 Federal Com 6H

Cimarex Energy Co. UL: C, Sec. 29-26S-27E Eddy Co., NM

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

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

2 H₂S Detection and Alarm Systems:

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

3 Windsock and/or wind streamers:

- A. Windsock at mudpit area should be high enough to be visible.
- 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 <u>Drillstem Testing:</u>

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 seperator will be brought into service along with H₂S scavengers if necessary.

H₂S Contingency Plan Medwick 29 Federal Com 6H

Cimarex Energy Co. UL: C, Sec. 29-26S-27E 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

Common	Chemical	Specific	Threshold	Hazardous	Lethal
Name	Formula	Gravity	Limit	Limit	Concentration
Hydrogen Sulfide	H₂S	1.189 Air=1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air=1	2 ppm	N/A	1000 ppm

Contacting Authorities

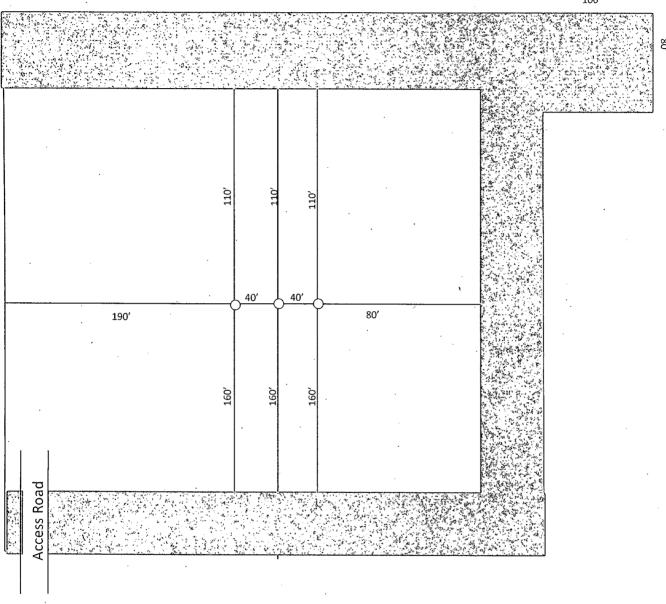
Cimarex Energy Co. of Colorado's personnel must liaise with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, 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 Medwick 29 Federal Com 6H

Cimarex Energy Co. UL: C, Sec. 29-26S-27E Eddy Co., NM

Cimarex Energy Co. of Colorado		800-969-4789		
Co. Office and After-Hours Men	u			
W Danaannal				
<u>Key Personnel</u> Name	Title	Office		Mobile
	············			
Larry Seigrist	Drilling Manager	432-620-1934		580-243-8485 806-640-2605
Doug McQuitty Scott Lucas	Drilling Superintendent Drilling Superintendent	432-620-1933 432-620-1989		
Conner Cromeens	Construction Foreman	432-620-1989		432-894-5572 432-270-0313
Roy Shirley	Construction Superintendent		-	432-270-0313
коу эпшеу	Construction Superintendent	,	 ,	452-034-2130
	ON TREATE AN ADDRESS AN ADDRESS OF PROPERT OF EMELON IN ENGINE AN ADDRESS IN EXCESS OF E		***************************************	
	2 Land II healt it have it man it came it came it man it man it man it is came it is cam			
<u>Artesia</u>				
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 Co		575-746-2122		
New Mexico Oil Conservation	Division	575-748-1283		
<u>Carlsbad</u>		044		
Ambulance		911		
State Police		575-885-3137		
City Police		575-885-2111		
Sheriff's Office		575-887-7551		
Fire Department		575-887-3798		
Local Emergency Planning Co		575-887-6544		
US Bureau of Land Managem	ent	575-887-6544		
Canta Fo				
<u>Santa Fe</u> New Mexico Emergency Resp	Anna Commission (Conta Fo)	505-476-9600		
	oonse Commission (Santa Fe) 24 Hrs	505-827-9126		
New Mexico State Emergency		505-476-9635		
New Mexico State Lineigene	y Operations center			· · · · · · · · · · · · · · · · · · ·
National				
National Emergency Respons	e Center (Washington, D.C.)	800-424-8802		
Tradional Emergency (Respons	- c deficer (videsinington)			
 M <u>edical</u>				
Flight for Life - 4000 24th St.;	Lubbock, TX	806-743-9911		
Aerocare - R3, Box 49F; Lubb		806-747-8923		· · · · · · · · · · · · · · · · · · ·
	le Blvd S.E., #D3; Albuquerque, NM	505-842-4433		
	irk Carr Loop S.E.; Albuquerque, NM	505-842-4949		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Other				
		800-256-9688	or	281-931-8884
Boots & Coots IWC		000-230-3000		Z01-231-0004
Boots & Coots IWC Cudd Pressure Control		******		
Boots & Coots IWC Cudd Pressure Control Halliburton		432-699-0139 575-746-2757	or	432-563-3356





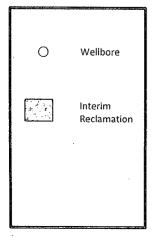




Exhibit D-1
Interim Reclamation Diagram
Medwick 29 Fed Com 6H
Cimarex Energy Co.
29-26S-27E
SHL 210 FNL & 1470 FWL
BHL 330 FSL & 2020 FWL
Eddy County, NM

CIMAREX ENERGY CO. MEDWICK 29 FEDERAL COM 4H SECTION 29, T26S, R27E, N.M.P.M.

BEGINNING AT THE INTERSECTION OF GREENE STREET AND CANAL ST. IN A SOUTHERLY. THEN SOUTHEASTERLY, SOUTHWESTERLY DIRECTION FROM CARLSBAD, NEW MEXICO ALONG U.S. HIGHWAY 180/U.S. HIGHWAY 62 APPROXIMATELY 14.9 MILES TO THE JUNCTION OF THIS ROAD AND BLACK RIVER ROAD/COUNTY ROAD 720 TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 7.0 MILES TO THE JUNCTION OF THIS ROAD AND OLD CAVERN HIGHWAY/COUNTY ROAD 748 TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY. THEN SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 14.1 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE FOX 31 FEDERAL 1, 2 & 3 TO THE SOUTHEAST, FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 6.487' TO THE BEGINNING OF THE PROPOSED ACCESSES TO THE EAST: FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 5.084' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM CARLSBAD, NEW MEXICO TO THE PROPOSED LOCATION IS APPROXIMATELY 38.2 MILES.

Surface Use Plan Medwick 29 Federal Com #6H

Cimarex Energy Co. UL: C, Sec. 29, 26E, 27E 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:

Area maps: Exhibit "B" - reproduction of Eddy Co. General Highway Map. Exhibit "C" - reproduction of a USGS Topographic Map. Exhibit "C-1" - well site layout map. Exhibits "C," C-1" - existing roads map.

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 otherwiswe noted in the New or Reconstructed Access Roads section of the surface use plan.

drive to well

If existing roads are used, the operator will improve or maintain existing roads in a condition the same as or better than before the operations began. The operator will repair pot holes, etc. All existing structures on the entire access route such as cattleguards, other range improvement projects, culverts, etc. will be properly repaired or replaced if they are damaged or have deterioated beyond practical use.

The operator will prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or other events.

2. New or Reconstructed Access Roads:

A new road will be constructed for this project.

Cimarex Energy plans to construct 5086.17' of new on-lease access road to service the well.

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.

New access road route to the proposed project is depicted on the public access point map and Exhibit C-1. 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. Planned Electric Line:

No new electric lines are planned.

4. Location of Existing Well in a One-Mile Radius - Exhibit A:

- Water Wells None known
- Disposal Wells None known
- Drilling Wells None known
- Producing Wells As shown on Exhibit A
- Abandoned Wells As shownd on Exhibit A

Surface Use Plan Medwick 29 Federal Com #6H

Cimarex Energy Co. UL: C, Sec. 29, 26E, 27E Eddy Co., NM

5. Location of Existing or Proposed 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 Medwick 29 Federal Com 1H. Cimarex Energy proposes to install two 4 inch buried HP polylines down existing lease road to the Medwick 29 Federal Com 1H battery.

Cimarex Energy plans to construct on lease flowlines to service the well.

Specifications of Polyline: 1 HP polyline for oil, gas, and water production. 1 HP polyline for gas lift.

Both lines will be buried 25'-35' South of the access road.

Length: 765'

MAOP: 1500 psi. Anticipated working pressure: 200-300 psi.

Allocation will be based on well test. Route is on lease, please see Exhibit G & H. Any changes to on lease route will be submited via sundry notice.

6. Location and Type of Water Supply:

Water will be purchased locally from a commercial source and trucked over the access roads.

7. Source of 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 a BLM-approved caliche pit.

8. Ancillary Facilities:

No camps or airstrips to be constructed.

9. Well Site Layout:

- Exhibit "D" shows location and rig layout.
- 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.

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
COUNT

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 Site
Noxious Weeds
Special Requirements
Lesser Prairie-Chicken Timing Stipulations
Ground-level Abandoned Well Marker
Aplomado Falcon
Cave/Karst
VRM
Cultural
Communitization Agreement
☐ Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
☐ Road Section Diagram
☑ Drilling
Cement Requirements
Medium Cave/Karst
Logging Requirements
Waste Material and Fluids
Production (Post Drilling)
Well Structures & Facilities
Pipelines
Electric Lines
Interim Reclamation

	Final	Abande	onment &	& Rec	lamation
		T WIND STATE OF A	JAMANICAL 4		

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)

Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

<u>Ground-level Abandoned Well Marker to avoid raptor perching</u>: 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. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

Communitization Agreement

A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales. In addition, the well sign shall include the surface and bottom hole lease numbers. If the Communitization Agreement number is known, it shall also be on the sign. If not, it shall be placed on the sign when the sign is replaced.

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

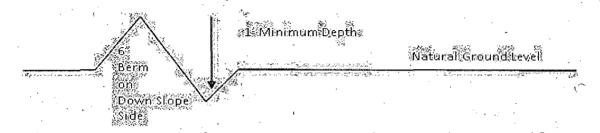
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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
- center line of roadway turnout 10' shouldertransition 100 full turnout width Intervisible tumouts shall be constructed on all single lane roads on all blind curves with additional tunouts as needed to keep spacing below 1000 feet. ' **Typical Turnout Plan** natural ground **Level Ground Section** crown earth surface .03 - .05 ft/ft aggregate surface .02 - .04 ft/ft paved surface .02 - .03 ft/ft Depth measured from the bottom of the ditch Side Hill Section center line center line travel surface travel surface ---(slope 2 - 4%) (slope 2 - 4%) **Typical Outsloped Section Typical Inslope Section**

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. Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. If Hydrogen Sulfide is encountered, report measured amounts 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 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) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. IF OPERATOR DOES NOT HAVE THE WELL SPECIFIC CEMENT DETAILS ONSITE PRIOR TO PUMPING THE CEMENT FOR EACH CASING STRING, THE WOC WILL BE 30 HOURS. 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.

Medium Cave/Karst Possibility of water flows in the Castile and Delaware. Possibility of lost circulation in the Salado and Delaware.

- 1. The 13-3/8 inch surface casing shall be set at approximately 400 feet and cemented to the surface. If salt is encountered, set casing at least 25 feet above the salt. Excess calculates to 20% 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, which shall be set at approximately 1950 feet, is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

If 75% or greater lost circulation occurs while drilling the intermediate casing hole, the cement on the production casing must come to surface.

Centralizers approved as written.

The pilot hole plugging procedure is approved as written. Note plug top on Subsequent Report sundry of drilling activities.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.
- 4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

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

- 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.

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VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1½ 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 1½ 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).

VRM Facility Requirement

Low-profile tanks not greater than eight-feet-high shall be used.

- B. PIPELINES
- ³ C. ELECTRIC LINES

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.

Seed Mixture 4, for Gypsum Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <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:

<u>Species</u>	<u>lb/acre</u>
Alkali Sacaton (Sporobolus airoides)	1.0
DWS Four-wing saltbush (Atriplex canescens)	5.0

DWS: DeWinged Seed

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

^{*}Pounds of pure live seed: