Form 3160-3 (March 2012) INORTHODOX LOCATION

OCD Artesia

ATS-14-244

OMB No. 1004-0137 Expires October 31, 2014

5. Lease Serial No. BHL-NMLC0068905

6. If Indian, Allotee or Tribe Name

BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER

UNITED STATES

DEPARTMENT OF THE INTERIOR

APPLICATION FOR PERMIT TO	DRILL OI	R REENTER		please see pg 1 of for full lease info	f 8 pt drilling prog)ram
la. Type of work: DRILL REENTE	ER			7 If Unit or CA Agreement, Name and No. Poker Lake Unit NMNM 71016X		
1b. Type of Well: ✓ Oil Well ☐ Gas Well ☐ Other	√ Si	ingle Zone Multip	ole Zone	8. Lease Name and Poker Lake Unit #4		402
2. Name of Operator BOPCO, L.P.		-2601	731>	9. API Well No.	5-423	74
3a. Address P.O. Box 2760 Midland, TX 79702	3b. Phone No 432-683-2	o. (include area code) 277	WILL	10. Field and Pool, or Nash Draw (Del. B	Exploratory 43	026
4. Location of Well (Report location clearly and in accordance with arm	y State requirer	nents.*)		11. Sec., T. R. M. or I	Blk. and Survey or A	rea
At surface SWSE, UL N, 300' FSL & 1800' FWL, Lat:N32	2.211319,Lo	ong:W103.853972		Section 14, T24S-	R30E .	
At proposed prod. zone 500'FSL,1700'FWL,Sec10,T24S-R3	30E,Lat:32.	226286,Lon:103.87	1553			
14. Distance in miles and direction from nearest town or post office*.13 miles west of Malaga				12. County or Parish Eddy County	13. Stat	e
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of acres in lease 17. Spacin 320			ing Unit dedicated to this well		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 20. BLM/I 15,221'MD/ 7,741'TVD COB 00			BIA Bond No. on file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	mate date work will star	rt*	23. Estimated duration	on	
3432' GL	02/01/20	13		30 days		
	24. Atta	chments			_	
The following, completed in accordance with the requirements of Onshor	e Oil and Gas	Order No.1, must be at	tached to the	is form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). 	Lands, the	ltem 20 above). 5. Operator certific	ation	ns unless covered by ar	C	,
25. Signature MUHNEU LOCKHALT		Name (Printed/Typed) Courtney Lockhart Date 11-710-13				
Title Regulatory Analyst,—						
Approved by (Signature /s/George MacDonell	Name	(Printed/Typed)			Dala AY - 7	2014
Title FIELD MANAGER	Office	CAŘÍ	LSBADF	IELD OFFICE		
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.	s legal or equ	itable title to those righ		•	entitle the applicant	

Carlsbad Controlled Water Basin

(Continued on page 2)

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.

MAY 12 2014

NMOCD ARTESIA

*(Instructions on page 2)

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Provisions of the MOA:

- A. No new Class III inventories are required of industry within the Project Area for those projects where industry elects to contribute to the mitigation fund.
- B. The amount of funds contributed was derived from the rate schedule established within Appendix B of the MOA. The amount of the funding contribution acknowledged on this form reflects those rates.
- C. The BLM will utilize the funding to carry out a program of mitigation at high-priority sited whose study is needed to answer key questions identified within the Regional Research Design.
- D. Donating to the fund is voluntary. Industry acknowledges that it is aware it has the right to pay for Class III survey rather than contributing to the mitigation fund, and that it must avoid or fund data recovery at those sites already recorded that are eligible for nomination to the National Register or whose eligibility is unknown and that any such payments are independent of the mitigation funds established by this MOA.
- E. Previously recorded archeological sites determined eligible for nomination to the National Register or whose eligibility remains undetermined must be avoided or mitigated.
- F. If any skeletal remains that might be human or funerary objects are discovered by any activities, the land-use applicant will cease activities in the area of discovery, protect the remains, and notify the BLM within 24 hours. The BLM will determine the appropriate treatment of the remains in consultation with culturally affiliated Indian Tribe(s) and lineal descendents. Applicants will be requited to pay for treatment of the cultural items independent and outside of the mitigation fund.

Company-Authorized Officer	<u>11-24-13</u> Date
BLM-Authorized Officer	Date

OPERATOR'S CERTIFICATION

APPLICATION FOR PERMIT TO DRILL POKER LAKE UNIT #430H 300' FSL, 1,800' FWL, Sec. 14, T24S, R30E, Eddy County, NM

In reference to the above captioned well, 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 the 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 filling of false statements.

Executed this 20th day of 100mble, 2013.

If you have any questions regarding the accuracy of the plan provided herein, please do not hesitate to contact me at (432) 683-2277.

Courtney Lockhart Regulatory Analyst

DISTRICT 1 1625 N. French Dr., Hobbs. NM 88240 Phone (575) 393-6161 Fax: (575) 393-0720 DISTRICT II

DISTRICI II 811 S. First St., Artesia, NM 88210 Phone (575) 748-1283 Fax: (575) 748-9720 DISTRICT III

1000 Rio Brazos Rd., 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 and Natural Resources Department Form C-102 Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, New Mexico 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT API Number 42 Pool Code Pool Name (DEL, BS, AVALON SD) 47545 -NASH - DRAW 101, Number 5'. Property Code Property Name -06 S243D POKER LAKE UNIT 306402 OGRID No. Operator Name Elevation 260737 3432 BOPCO, L.P.

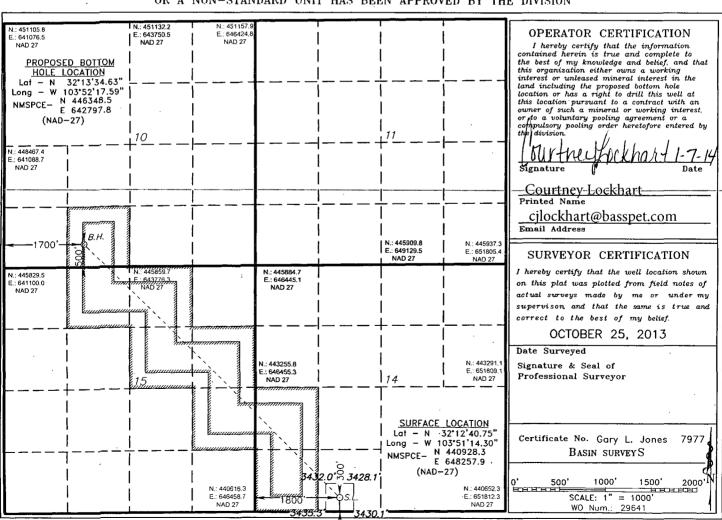
Surface Location

							<u> </u>		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	14	24 S	30 E		300	SOUTH	1800	WEST	EDDY

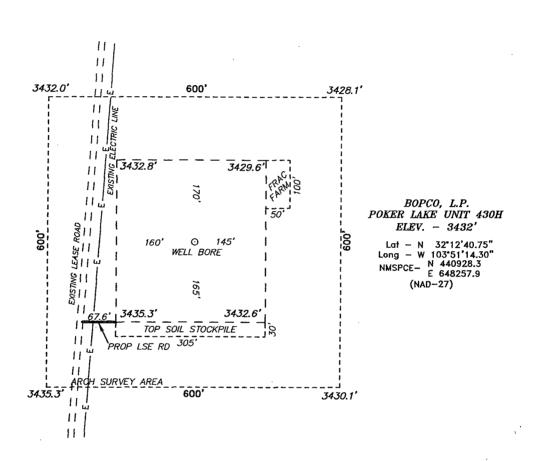
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	10	24 S	30 E		500	SOUTH	1700	WEST	EDDY
Dedicated Acres Joint or Infill Consolidation Code Order No. 15221									
320								5-7	

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



SECTION 14, TOWNSHIP 24 SOUTH, RANGE 30 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.



MALAGA, NM IS ±13 MILES TO THE WEST OF LOCATION.

400 FEET 200 200

REF: POKER LAKE UNIT 430H / WELL PAD TOPO

> THE POKER LAKE UNIT 430H LOCATED 300' FROM THE SOUTH LINE AND 1800' FROM THE WEST LINE OF SECTION 14, TOWNSHIP 24 SOUTH, RANGE 30 EAST,

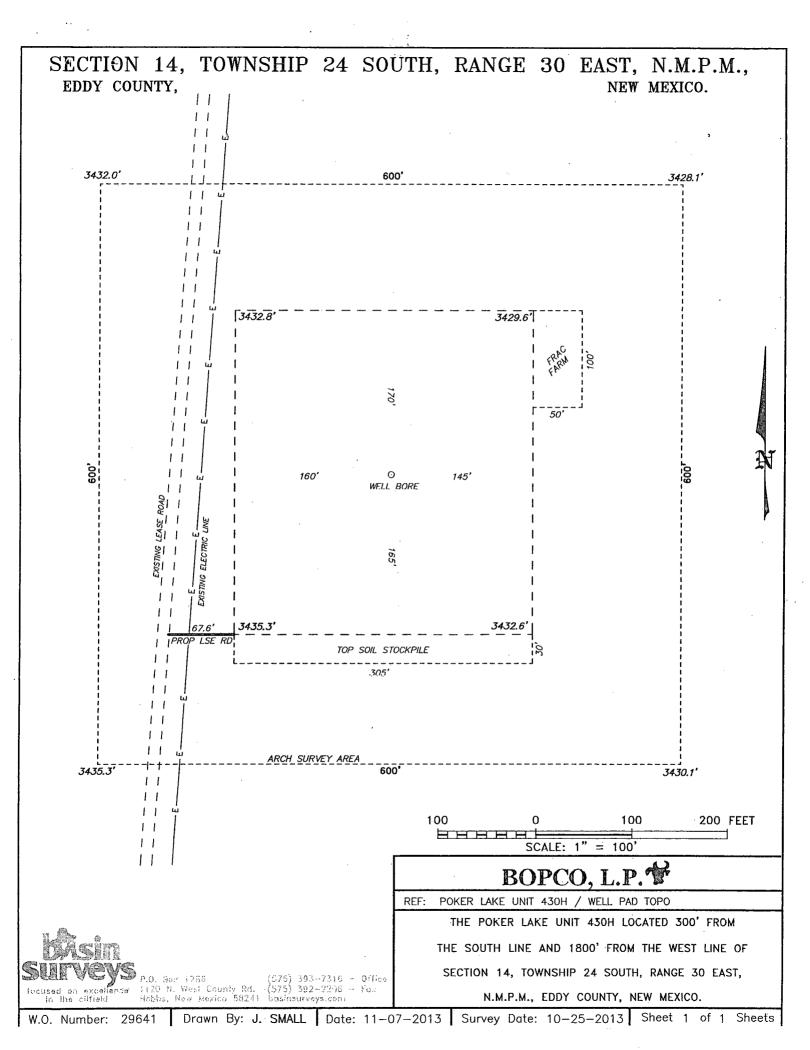
N.M.P.M., EDDY COUNTY, NEW MEXICO.

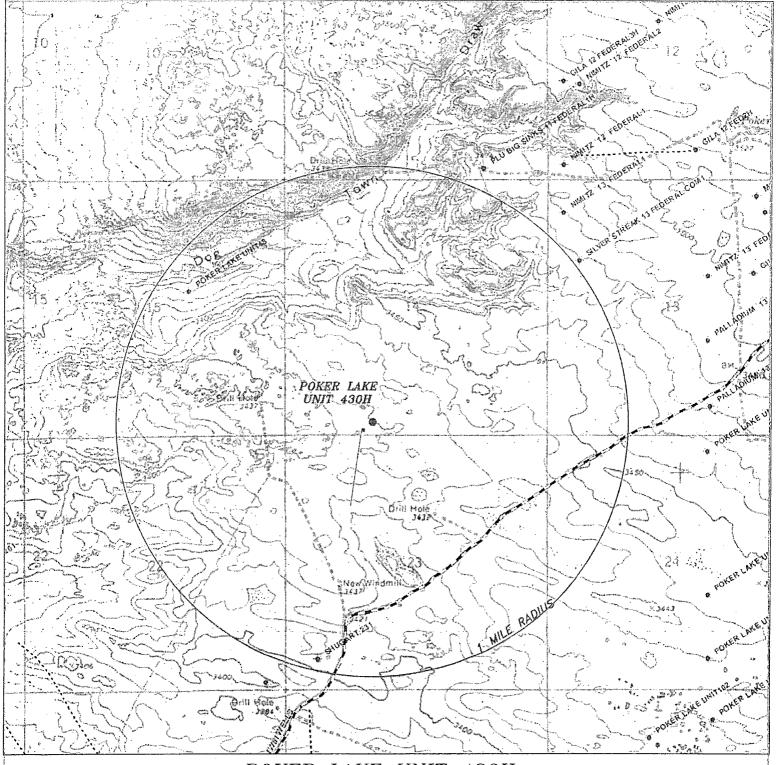
Directions to Location:

FROM HWY 128 AND TWIN WELLS, GO SOUTH 8.0 MILES TO LEASE ROAD, GO WEST 0.9 MILES TURNING NORTH 0.1 MILES TO PROPOSED LEASE ROAD.

P.O. Bex 1736 (575) 393-7315 — Office 1120 N. West County Rd. (575) 392-2205 — Fax Hobbs, New Mexico 88241 basinsurveys.com

W.O. Number: 29641 | Drawn By: J. SMALL | Date: 11-07-2013 | Survey Date: 10-25-2013 | Sheet 1 of 1 Sheets





POKER LAKE UNIT 430H

Located 300' FSL and 1800' FWL Section 14, Township 24 South, Range 30 East, N.M.P.M., Eddy County, New Mexico.

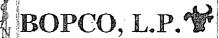


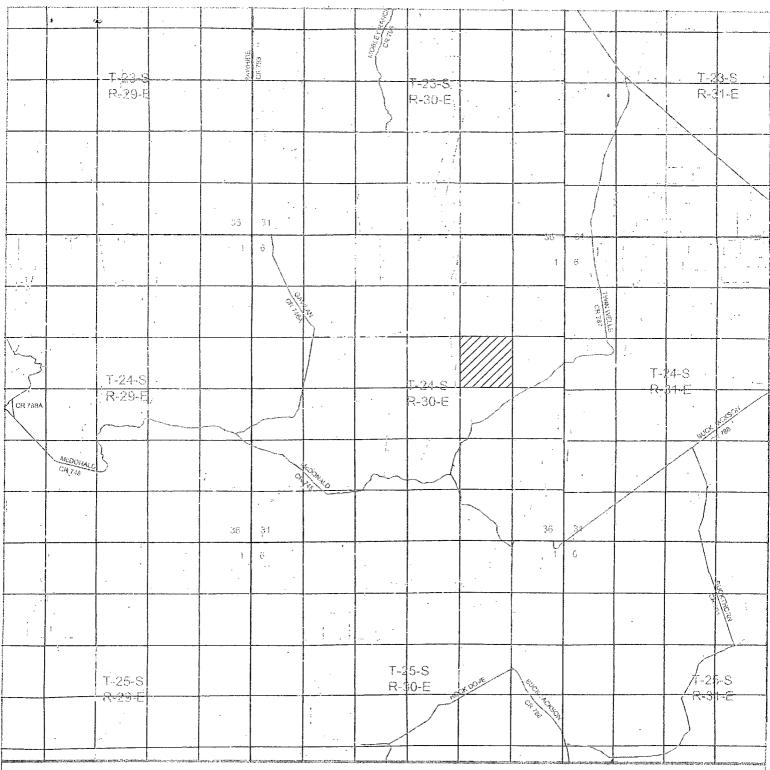
Mobbs, New Mexico 88241
(575) 593-7316 - Office
(575) 392-2206 - Fax
basinstriveys.com

P.O. Box 1786

1120 N. West County Rd.

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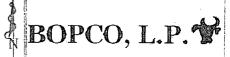
POKER LAKE UNIT 430H

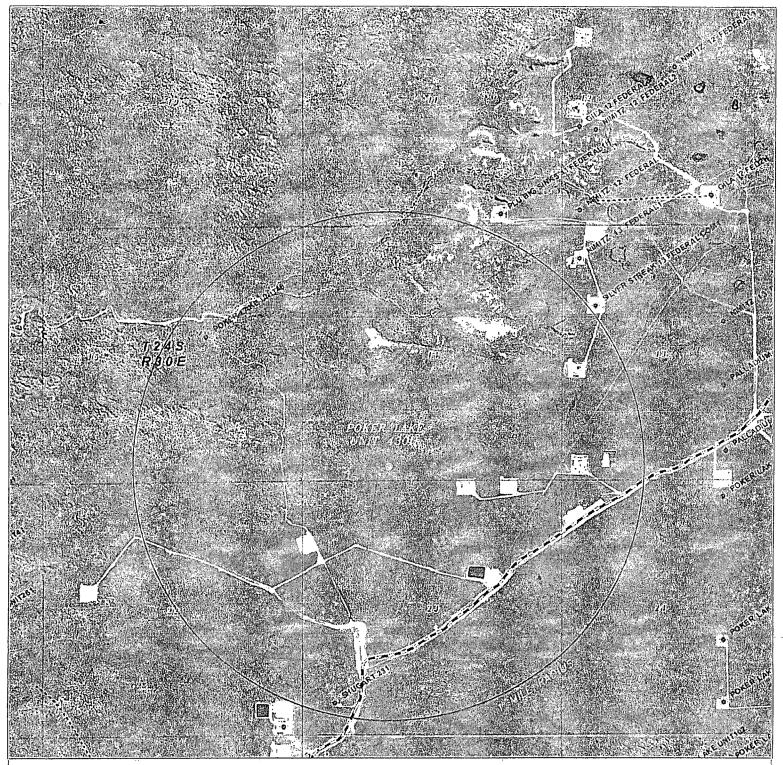
Located 300' FSL and 1800' FWL Section 14, Township 24 South, Range 30 East, N.M.P.M., Eddy County, New Mexico.



P.O. Sex 1785 1120 M. West County Rd. Hobbs, New Maxice 88241 (575) 393-7316 - Office (575) 392-2206 - Fax

SCALE: 1" = 2 MILES W.O. Number: JMS 29641 Survey Date: 10-25-2013 YELLOW TINT - USA LAND BLUE TINT - STATE LAND NATURAL COLOR - FEE LAND





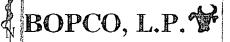
POKER LAKE UNIT 430H

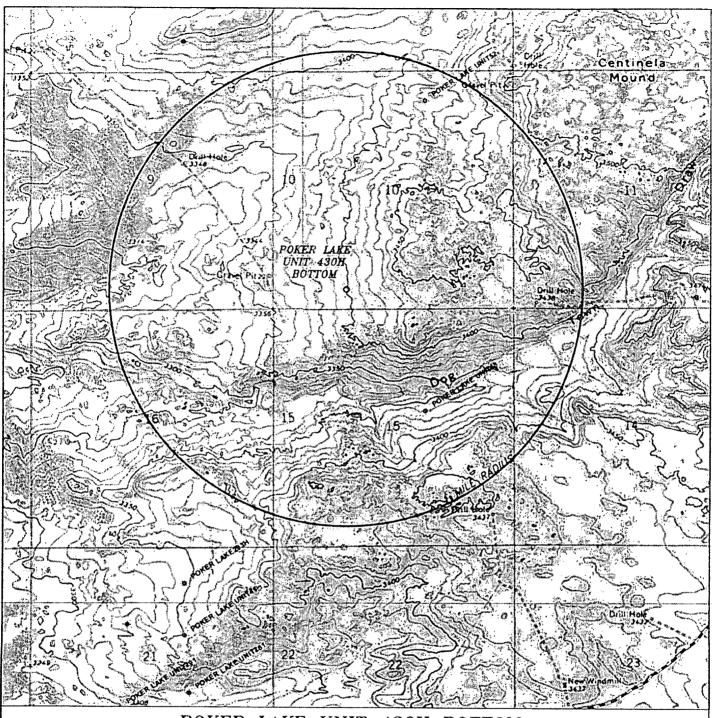
Located 300' FSL and 1800' FWL Section 14, Township 24 South, Range 30 East, N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 P. Wast County Rd. Hobbs, New Mexico 88241 (575) 393-7316 - Office (575) 392-2206 - Fax basinsurveys.com

	0' 1000' 2000' 3000' 4000'	
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-	Survey Date: 10-25-2013	(
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	BLUE TINT - STATE LAND	
,	NATURAL COLOR - FEE LAND	





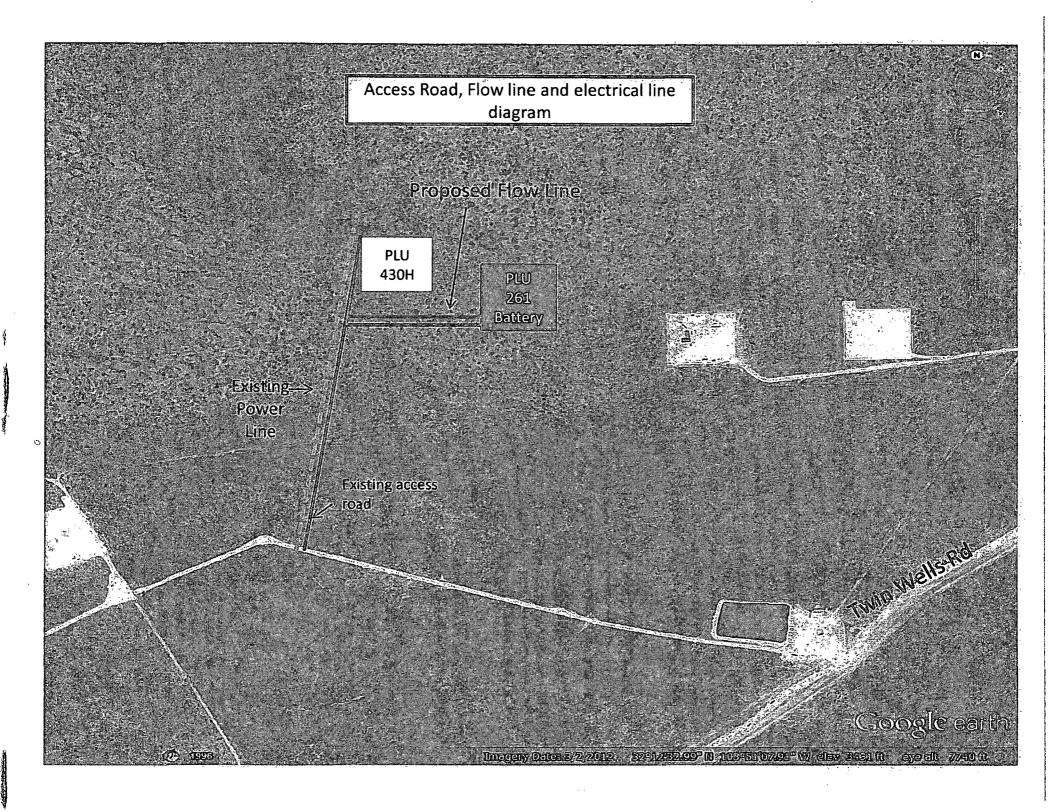
POKER LAKE UNIT 430H BOTTOM
Located 500' FSL and 1700' FWL
Section 10, Township 24 South, Range 30 East,
N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 — Office (575) 392-2206 — Fax basinsurveys.com

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	YELLOW TINT — USA LAND BLUE TINT — STATE LAND NATURAL COLOR — FEE LAND	ļ

BOPCO, L.P.





Proposed Flowline Route to #261 Battery

Surface casing is to be set into the Rustler below all fresh water sands at an approximate depth of 956' and cement circulated to surface.

7" casing will be set at approximately 8,089' MD, 7,796' TVD (In curve) and cemented in two stages with DV Tool set at approximately 5,000'. Cement will be circulated 500' into the 9-5/8" intermediate casing.

Drilling procedure, BOP diagram, and anticipated tops are attached.

This well is located outside the R111 Potash area and inside Secretary's Potash area.

The surface location is nonstandard and located inside the Poker Lake Unit.

The bottom hole location is nonstandard and located inside the Poker Lake Unit.

Surface Lease Numbers- NMLC 0068905

Bottom Hole Lease Numbers- NMLC 0068905, NMLC 0068430, NMLC 0068431

BOPCO, L.P., at P. O. Box 2760, Midland, TX, 79702 is a subsidiary of BOPCO, L.P., 201 Main Street, Ft. Worth, TX, 76102. Bond No. COB000050 (Nationwide).

EIGHT POINT DRILLING PROGRAM BOPCO, L.P.

NAME OF WELL: Poker Lake Unit #430H

LEGAL DESCRIPTION - SURFACE: 300' FSL, 1800' FWL, Section 14, T24S, R30E, Eddy County, NM. BHL: 500' FSL, 1700' FWL, Section 10, T24S, R30E, Eddy County, New Mexico.

POINT 1: ESTIMATED FORMATION TOPS (See No. 2 Below)

POINT 2: WATER, OIL, GAS AND/OR MINERAL BEARING FORMATIONS

Anticipated Formation Tops: KB 3451' (estimated)

GL 3432'

Formation Description	Est:from KB (TVD)	Est (MD)	SUB-SEATOP	BEARING
T/Fresh Water	401'	401'	+ 3,050'	Fresh Water
T/Rustler	651'	651'	+ 2,800'	Barren
T/Salado	976'	976'	+ 2,475'	Barren
B/Salt	3,806'	3,806'	- 355'	Barren
T/Lamar	4,032'	4,032'	- 581'	Oil/Gas
T/Ramsey	4,057'	4,057'	- 606'	Oil/Gas
Cherry Canyon	4,965'	4 <u>,</u> 965'	- 1,514'	Oil/Gas
Brushy Canyon	6,228'	6,228'	- 2,777'	Oil/Gas
KOP	7,189'	7,189'	- 3,738'	Oil/Gas
LBC "8A" Sand	7,591	7,634'	- 4,140'	Oil/Gas
Target #1/ LBC "Y" Sand	7,831'	8,297'	- 4,380'	Oil/Gas
TD Horizontal Hole	7,741'	15,221'	- 4,290'	Oil/Gas

POINT 3: CASING PROGRAM

<u> </u>				
TYPE	INTERVAL MD	HOLE :	PURPOSE	INSTALLATION TYPE
20"	0' – 120'	30"	Conductor	Contractor Discretion
13-3/8", 48 ppf, H-40, or 54.5#, J-55 8rd, ST&C*	0' - 956',	17-1/2"	Surface	New
9-5/8", 40 ppf, N-80, 8rd, LT&C or 9-5/8" 40 ppf, J-55, 8rd, LT&C*	0' - 4,042'	12-1/4"	Intermediate	New
7", 26 ppf, N-80, Buttress or 8rd LTC*	0' - 8,089'	8-3/4"	Production	New

Completion System	1. Sept. 1.			
4-1/2", 11.6 ppf, HCP-110 8rd LT&C,	8,039' - 15,221'	6-1/8"	Completion System	New
ВТС			· 	

* Depending on availability.

CASING DESIGN SAFETY FACTORS:

TYPE	NSION -	COLLAPSE	BURST
13-3/8", 48 ppf, H-40, 8rd, ST&C*	8.16	1,54	1.12
13-3/8", 54.5 ppf, J-55, 8rd, STC*	19.05	2.43	1.77
9-5/8", 40 ppf, N-80, 8rd, LT&C*	5.40	1.33	2.55
9-5/8", 40 ppf, J-55, 8rd, LT&C*	4.62	1.19	1.75
7", 26 ppf, N-80, Buttress*	3.45	1.27	1.66
7", 26 ppf, N-80, 8rd, LTC*	2.97	1.22	1.66

Completion System			
4-1/2", 11.6 ppf, HCP-110 8rd. LT&C	3.56	2.04	2.45
4-1/2", 11.6 ppf, HCP-110 BTC	4.68	2.14	2.45

^{*} Depending on availability.

DESIGN CRITERIA AND CASING LOADING ASSUMPTIONS:

SURFACE CASING - (13-3/8")

Tension

A 1.6 design factor utilizing the effects of buoyancy (9.2 ppg).

Collapse

A 1.0 design factor with full internal evacuation and a collapse force equal to the mud gradient in which the casing will be run (0.48 psi/ft). The effects of axial load on collapse will be considered.

Burst

A 1.3 design factor with a surface pressure equal to the fracture gradient at setting depth less a gas gradient to the surface. Internal burst force at the shoe will be fracture pressure a that depth. Backup pressure will be formation pore pressure. In all cases a conservative fracture pressure will be used such that it represents the upper limit of potential fracture resistance up to a 1.0 psi/ft gradient. The effects of tension on burst will not be utilized.

PROTECTIVE CASING - (9-5/8")

Tension

A 1.6 design factor utilizing the effects of buoyancy (10.2 ppg).

Collapse

A 1.125 design factor with full internal evacuation and a collapse force equal to the mud gradient in which the casing will be run (0.52 psi/ft). The effects of axial load on collapse will be considered.

In the case of development drilling, collapse design should be analyzed using internal evacuation equal to 1/3 the proposed total depth of the well. This criterion will be used when there is absolutely no potential of the protective string being used as a production casing string.

Burst

A 1.0 surface design factor and a 1.3 downhole design factor with a surface pressure equivalent to the -fracture-gradient-at-setting-depth-less-a-gas-gradient-to-the-surface. Internal-burst-force-at-the-shoe-will-be-fracture pressure at that depth. Back pressure will be formation pore pressure. In all cases a conservative fracture pressure will be used such that it represents the upper limit of potential fracture resistance up to a 1.0 psi/ft gradient.

Production CASING - (7")

Tension

A 1.6 design factor utilizing the effects of buoyancy (9.0 ppg).

Collapse

A 1.125 design factor with full internal evacuation and a collapse force equal to the mud gradient in which the casing will be run (0.48 psi/ft). The effects of axial load on collapse will be considered.

Burst

A 1.25 design factor with anticipated maximum tubing pressure (5000 psig) on top of the maximum anticipated packer fluid gradient. (0.433 psi/ft) Backup on production strings will be formation pore pressure. (0.433 psi/ft) The effects of tension on burst will not be utilized.

Completion System - (4-1/2")

Tension

A 1.6 design factor utilizing the effects of buoyancy (9.0 ppg).

Collapse

A 1.125 design factor with full internal evacuation and a collapse force equal to the mud gradient in which the casing will be run (0.48 psi/ft). The effects of axial load on collapse will be considered.

Burst

A 1.25 design factor with anticipated maximum tubing pressure (5000 psig) on top of the maximum anticipated packer fluid gradient. (0.433 psi/ft) Backup on production strings will be formation pore pressure. (0.433 psi/ft) The effects of tension on burst will not be utilized.

POINT 4: PRESSURE CONTROL EQUIPMENT (SEE ATTACHED DIAGRAM A, B, C or Z)

After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the Cameron Multi-Bowl System (MBS) wellhead. The BOP/BOPE will be pressure tested to 3,000 psi high and 250 psi low after installation on the surface casing which will cover testing requirements for the duration of the well as per Onshore Order #2. The 9-5/8" intermediate casing and 7" production casing will be run with a mandrel hanger through the 13-5/8" BOP/BOPE system without breaking any connections on the BOP/BOPE system and thus not requiring a pressure test. Please find attached wellhead schematic. The field reports from the Cameron representative and the BOP test information will be provided in a subsequent report.

These tests will be performed:

- a) Upon installation
- b) After any component changes
- c) Thirty days after a previous test
- d) As required by well conditions
- e) Any time a seal is broken within a system

A function test to insure that the preventers are operating correctly will be performed on each trip.

BOPCO, L.P. would like to request a variance to use an armored, 3", 5000 psi WP flex hose for the choke line in the drilling of the well if the rig is equip with hose. (See specification for hose that might be used, attached with APD exhibits). This is rig equipment and will help quicken nipple up time thus saving money without a safety problem. The hose itself is rated to 5000 psi ,and has 5000 psi flanges on each end. This well is to be drilled to 15,221' MD (7,831' TVD) and max surface pressure should be +/- 1942 psi as prescribed in onshore order #2 shown as max BHP minus 0.22 psi/ft. Thus, 3000 psi BOPE is all that is needed for this well. Please refer to diagram A, B, C or Z for choke manifold and closed loop system layout. If an armored flex hose is utilized, the company man will have all of the proper certified paper work for that hose available on location.

POINT 5: MUD PROGRAM

 $^{\circ}$ COH

	71111 01 11101	J 1 110 010 titl								
	<u>DEPTH</u>		MUD TYPE	WEIGHT	EV	<u>PV</u>	YP'	FL	. <mark>Ph</mark>	
	0-956'900'	FW Spud Mud	8.5 – 9.2	38-70	NC	NC	NC.	10.0	9.5 – 10.5	
95	56' – 4,042'	Brine Water	9.8 – 10.2	28-30	NC	NC	NC	9.5 – 10.5	9.5 - 10.5	

4,042' - 8,089'	FW/Gel	8.7 – 9.0	28-36	NC ·	NC	NC	9.5 – 10.0	9.5 – 10.5	ĺ
8,089'-15,221'	FW/Gel/Starch	8.7 – 9.0	28-36	NC	NC	<100	9.5 – 10.0	9.5 – 10.5	

NOTE: May increase vis for logging purposes only.

POINT 6: TECHNICAL STAGES OF OPERATION

TESTING None anticipated.

B) LOGGING

Run #1:

GR with MWD during drilling of build and horizontal portions of 8-3/4" and 6-1/8"

hole.

Shuttle log w/GR, PE, Density, Neutron, Resistivity in lateral leg open hole are Run #2:

possible.

Mud Logger: Rigged up at 100'

CONVENTIONAL CORING C)

None anticipated

CEMENT D)

INTERVAL	* AMOUNT	*FTOF	TVRE	GALS/SX	PPG.	· FT³/SX
	SXS	FILL	and the second s			
SURFACE: Lead: 0' – 656'	530	656	Class C +2% CACL + 4% Bentonite + 0.25 LB/SK Cello Flake + 3 lb/sk LCM-1	8.69	13.50	1.75
Tail: 656' - 956' 900	340	300	Class C + 2% CACL + 0.25 LB/SK CF	6.35	14.80	1.35
INTERMEDIATE:			0.25LB/SK Cello Flake + 3 lb/sk LCM-1			
Lead: 0' – 3,542'	790	3542	EconoCEM HLC + 5% CaCl + 5#/sk Gilsonite	9.32	12.90	1.85
Tail: 3,542' – 4,042'	190	500	HalCem C	6.34	14.80	1.33
Production						· .
Stage 1:						:
Lead: 5,000' – 7,189'	190	2189	Tuned Light + 0.125 pps Poly-E-	14.87	11.0	2.64
			Flake			***************************************
Tail: 7,189' – 8,089'	110	900	Class "H" + 0.5% Halad-344 + 0.25% CFR-3 + 0.5% Econolite	11.41	12.00	2.03
DV Tool @ 5,000'						

Stage 2:						
Lead: 3,542' – 5,000'	130	1458	Tuned Light + 0.125 pps Poly-E- Flake	11.70	11.0	2.35

Cement excesses will be as follows:

Surface – 100% excess with cement circulated to surface.

Production – 50% above gauge hole or 35% above electric log caliper with cement circulated 500' up into the 9-5/8" 1st intermediate casing in areas outside the SOPA. Cement will be circulated to surface on areas inside the SOPA.

Cement volumes will be adjusted proportionately for depth changes of the multi stage tool.

E) COMPLETIONS SYSTEM

A 4-1/2" completion system with open hole packers will be run in the producing lateral to a depth of 15,221'. The top of the Completion System will be set at approximately 8,039'. Cement will not be required for this system.

F) DIRECTIONAL DRILLING

BOPCO, L.P. plans to drill out the 9-5/8" intermediate casing with a 8-3/4" bit to a TVD of approximately 7,189' at which point a directional hole will be kicked off and drilled at an azimuth of 314.79 degrees, building angle at 10 deg/100' to 70 degrees at a TVD of 7,728' (MD 7,889'). This angle and azimuth will be maintained for 200' to a measured depth of 8,089' (7,796' TVD). At this depth 7", 26#, N80, Buttress, or 8rd LTC casing will be installed and cemented in two stages (DV Tool @ approximately 5000') with cement circulated 500' inside the 9-5/8" intermediate casing. A 6-1/8" open hole lateral will then be drilled out from 7" casing at an azimuth of 314.79 degrees, inclination of 90.74 degrees to a measured depth of 15,221', TVD 7,741'. At this depth a 4-1/2" Completion System with packers installed for zone isolation will be run into the producing lateral.

G) H2S SAFETY EQUIPMENT



H2S monitors shall be installed prior to drilling out the surface shoe. If H2S is encountered in quantities greater than 10 PPM, the well will be shut in and H2S equipment will be installed, including a flare line that will be extended pursuant to Onshore Oil and Gas Order #6. (Please refer to diagram B, or C for choke manifold and closed loop system layout when H2S is present) Please refer to H2S location diagram for location of important H2S safety items.

H) CLOSED LOOP AND CHOKE MANIFLOLD

Please see diagram A, B, C or Z.

^{1&}lt;sup>st</sup> Intermediate – 50% excess above fluid caliper with cement circulated to surface.

I) MUD MONITORING SYSTEM

- BOPCO L.P. plans to drill the proposed well with water and does not expect to mud up. In the event of abnormal pressures that require mudding up, BOPCO L.P will record slow pump rates on the daily drilling report on a daily basis.
- 2. Visual mud monitoring equipment will be installed to detect volume changes.
- 3. Pit volume totalizers are installed on rig before spud.
- 4. BOPCO L.P. has the drilling mud checked every 24 hrs., and the daily mud check will be posted in the company man's trailer.
- 5. BOPCO L.P will be using a 3M system so trip tanks will not be required per Onshore order #2.
- 6. Gas detections systems will be installed on exploratory wells per Onshore order #2. Please refer to section G under point 6 in the 8pt drilling program for H2S safety information.

POINT 7: ANTICIPATED RESERVOIR CONDITIONS

Normal pressures are anticipated throughout Delaware section. A BHP of 3665 psi (max) or MWE of 9.0 ppg is expected. Lost circulation may exist in the Delaware Section from 4,032'-7,831' TVD.

POINT 8: OTHER PERTINENT INFORMATION

A) Auxiliary Equipment

Upper and lower kelly cocks. Full opening stab in valve on the rig floor.

B) Anticipated Starting Date

Upon approval

30 days drilling operations

14 days completion operations



Drilling Services

Proposal

BOPCO, L.P.

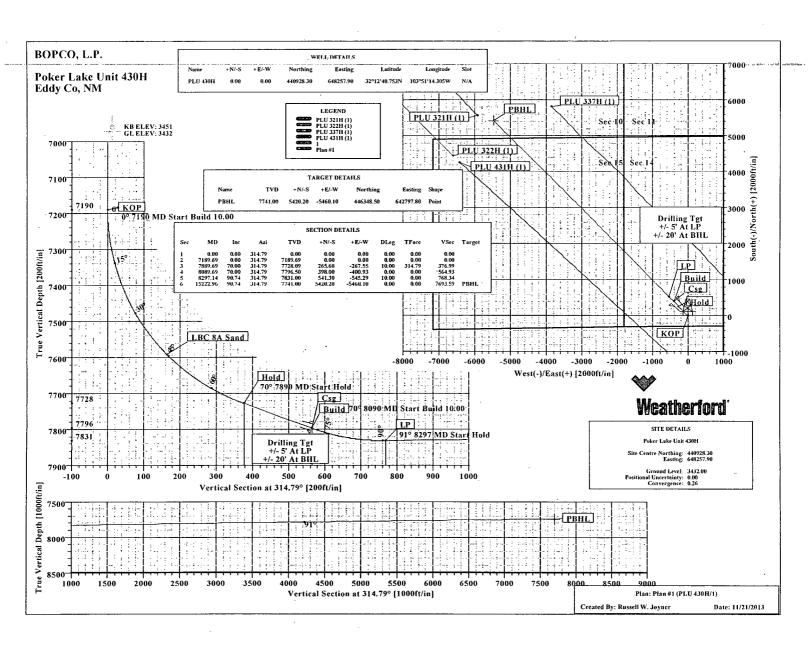
POKER LAKE UNIT 430H

EDDY CO, NM

WELL FILE: PLAN 1

NOVEMBER 21, 2013

Weatherford International, Ltd. P.O. Box 61028 Midland, TX 79711 USA +1.432.561.8892 Main +1.432.561.8895 Fax www.weatherford.com



Weatherford Wft Plan Report X Y's.



Db: Sybase

Company: BOPCO, L.P.

Eddy County, NM (Nad 27) Field:

Site: Poker Lake Unit 430H Poker Lake Unit 430H Well:

Plan #1

Wellpath: 1

Plan:

Survey Calculation Method: Minimum Curvature 11/21/2013 Date Composed:

Version:

Date: 11/21/2013

Tied-to:

From Surface

Time: 15:23:25 Co-ordinate(NE) Reference: Well: Poker Lake Unit 430H, Grid North

Vertical (TVD) Reference: SITE 3451.0 Section (VS) Reference: Well (0.00N,0.00E,314.79Azi)

Principal: Yes Poker Lake Unit 430H

Map From:

Easting: 0.00 ft

Northing:

Site-Position: 648257.90 ft

Longitude: 103 51 14.305 W

North Reference: Grid Convergence: Grid

Position Uncertainty: Ground Level:

3432.00 ft

Slot Name:

0.26 deg

Poker Lake Unit 430H Well:

Well Position:

Wellpath: 1

440928.30 ft

Latitude:

32 12 40.753 N

+E/-W

0.00 ft 0.00 ft

Easting: 648257.90 ft Longitude:

103 51 14.305 W

Position Uncertainty:

0.00 ft

ft

Height 3451.00 ft

Drilled From: Tie-on Depth: Surface 0.00 ft

Current Datum: SITE 1/1/2014 Magnetic Data:

+N/-S

Field Strength: Vertical Section: Depth From (TVD)

48349 nT

Above System Datum: Mean Sea Level Declination:

7.40 deg

+N/-S

Mag Dip Angle: +E/-W

60.06 deg Direction

ft

deg

0.00 0.00 0.00 314.79

Plan Section Information

MD ft	Inclision deg	Azim* deg 3	TVD.		+E/-W\/ ft	DLS deg/100		Turn t deg/100	TFO.		
0.00	0.00	314.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7189.69	0.00	314.79	7189.69	0.00	0.00	0.00	0.00	0.00	0.00		
7889.69	70.00	314.79	7728.09	265.60	-267:55	10.00	10.00	0.00	314.79		
8089.69	70.00	314.79	7796.50	398.00	-400.93	0.00	0.00	0.00	0.00		
8297.14	90.74	314.79	7831.00	541.30	-545.29	10.00	10.00	0.00	0.00		
15222.96	90.74	314.79	7741.00	5420.20	-5460.10	0.00	0.00	0.00	0.00	PBHL	

Survey

MD.	Incl	Azim deg	TVD %*	N/S	E/W	VS *ft	DLS deg/100ft	MapN ft ₅	MapE ft	Commen
7100.00	0.00	314.79	7100.00	0.00	0.00	0.00	0.00	440928.30	648257.90	
7189.69	0.00	314.79	7189.69	0.00	0.00	0.00	0.00	440928.30	648257.90	кор
7200.00	1.03	314.79	7200.00	0.07	-0.07	0.09	10.00	440928.37	648257.83	
7300.00	11.03	314.79	7299.32	7.46	-7.51	10.59	10.00	440935.76	648250.39	
7400.00	21.03	314.79	7395.31	26.89	-27.09	38.17	10.00	440955.19	648230.81	
7500.00	31.03	314.79	7485.05	57.77	-58.19	82.00	10.00	440986.07	648199.71	
7600.00	41.03	314.79	7565.82	99.16	-99.89	140.74	10.00	441027.46	648158.01	i
7634.30	44.46	314.79	7591.00	- 115.55	-116.40	164.02	10.00	441043.85	648141.50	LBC 8A Sand
7700.00	51.03	314.79	7635.16	149.80	-150.90	212.62	10.00	441078.10	648107.00	
7800.00	61.03	314.79	7690.96	208.15	-209.68	295.45	10.00	441136.45	648048.22	
7889.69	70.00	314.79	7728.09	265.60	-267.55	376.99	10.00	441193.90	647990.35	Hold
7900.00	70.00	314.79	7731.62	272.42	-274.43	386.68	0.00	441200.72	647983.47	
8000.00	70.00	314.79	7765.82	338.62	-341.12	480.65	0.00	441266.92	647916.78	
8089.69	70.00	314.79	7796.50	398.00	-400.93	564.93	0.00	441326.30	647856.97	Csg
8100.00	71.03	314.79	7799.94	404.85	-407.83	574.65	10.00	441333.15	647850.07	
8200.00	81.03	314.79	7824.05	473.13	-476.61	671.57	10.00	441401.43	647781.29	
8297.14	90.74	314.79	7831.00	541.30	-545.29	768.34	10.00	441469.60	647712.61	LP
8300:00	90-74-	-314-79-	7830.97	543:32	547.32	771.21	0:00	441471-62	647710.58-	
8400.00	90.74	314.79	7829.67	613.77	-618.28	871.20	0.00	441542.07	647639.62	
8500.00	90.74	314.79	7828.37	684.21	-689.25	971.19	0.00	441612.51	647568.65	1
8600.00	90.74	314.79	7827.07	754.66	-760.21	1071.18	0.00	441682.96	647497.69	

Weatherford Wft Plan Report X Y's.



Company: BOPCO, L.P.
Field: Eddy County, NM (Nad 27)
Site: Poker Lake Unit 430H
Well: Poker Lake Unit 430H

Wellpath: 1

Date: 1.1/21/2013 Time: 15:23:25 Page: 2
Co-ordinate(NE) Reference: Well: Roker Lake Unit 430H, Grid North

Wertical (TVD) Reference: SITE 3451.0
Section (VS) Reference: Well (0.00N,0.00E,314.79Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

urvey		•	•							
MD ft	Incl deg	Azim deg	TVD*	N/S	E/W	∵VS∷ ∕ . - ft	DLS, deg/100ft,	MapN Ift	MapE:	Comi
8700.00	90.74	314.79	7825.77	825.10	-831.18	1171.17	0.00	441753.40	647426.72	
8800.00	90.74	314.79	7824.47		-902.14	1271.16	0.00	441823.85	647355.76	
8900.00	90.74	314.79	7823.17	965.99	-973.10	1371.16	0.00	441894.29	647284.80	
9000.00	90.74	314.79	7821.87	1036.44	-1044.07	1471.15	0.00	441964.74	647213.83	
8000.00	80.74	314.78	1011701	1030.44	-1044.07	1471.13	0.00	441394.74	047210.00	
9100.00	90.74	314.79	7820.57	1106.88	-1115.03	1571.14	0.00	442035.18	647142.87	
9200.00	90.74	314.79	7819.27	1177.33	-1185.99	1671.13	0.00	442105.63	647071.91	
9300.00	90.74	314.79	7817.97		-1256.96	1771.12	0.00	442176.07	647000.94	
9400:00	90.74	314.79	7816.67	1318.22	-1327.92	1871.11	0.00	442246.52	646929.98	
9500.00	90.74	314.79	7815.37	1388.66	-1398.88	1971.10	0.00	442316.96	646859.02	
0000 00	00.74	04470	7044.07	4.450.44	4400.05	2074.40	0.00	440007 44	C4C700 0E	
9600.00	90.74	314.79	7814.07	1459.11	-1469.85	2071.10	0.00	442387.41	646788.05	
9700.00	90.74	314.79	7812.77	1529.55	-1540.81	2171.09	.0.00	442457.85	646717.09	
9800.00	90.74	314.79	7811.47	1600.00	-1611.77	2271.08	0.00	442528.30	646646.13	
9900.00	90.74	314.79	7810.17	1670.44	-1682.74	2371.07	0.00	442598.74	646575.16	
10000.00	90.74	314.79	7808.87	1740.89	-1753.70	2471.06	0.00	442669.19	646504.20	
10100.00	90.74	314.79	7807.57	1811.33	-1824.66	2571.05	0.00	442739.63	646433.24	
10200.00	90.74	314.79	7806.28	1881.78	-1895.63	2671.05	0.00	442810.08	646362.27	
10200.00	90.74	314.79	7804.98	1952.22	-1966.59	2771.04	0.00	442880.52	646291.31	
10400.00	90.74	314.79	7803.68	2022.67	-2037.55	2871.03	0.00	442950.97	646220.35	
10500.00	90.74	314.79	7802.38	2093.11	-2108.52	2971.02	0.00	443021.41	646149.38	
10600.00	90.74	314.79	7801.08	2163.56	-2179.48	3071.01	0.00	443091.86	646078.42	
10700.00	90.74	314.79	7799:78	2234.00	-2250.45	3171.00	0.00	443162.30	646007.45	
10800.00	90.74	314.79	7798.48	2304.45	-2321.41	3270.99	0.00	443232.75	645936.49	
10900.00	90.74	314.79	7797.18	2374.89	-2392.37	3370.99	0.00	443303.19	645865.53	
11000.00	90.74	314.79	7795.88	2445.34	-2463.34	3470.98	0.00	443373.64	645794.56	
11100.00	90.74	314.79	7794.58	2515.78	-2534.30	3570.97 3670.96	0.00 0.00	443444.08	645723.60	
11200.00	90.74	314.79	7793.28		-2605.26			443514.52	645652.64	
11300.00	90.74	314.79	7791.98	2656.67	-2676.23	3770.95	0.00	443584.97	645581.67	
11400.00	90.74	314.79	7790.68	2727.11	-2747.19	3870.94	0.00	443655.41	645510.71	
11500.00	90.74	314.79	7789.38	2797.56	-2818.15	3970.94	0.00	443725.86	645439.75	
11600.00	90.74	314.79	7788.08	2868.00	-2889.12	4070.93	0.00	443796.30	645368.78	
	90.74	314.79	7786.78		-2960.08	4170.92	0.00	443866.75	645297.82	
11700.00										
11800.00	90.74	314.79	7785.48	3008.89	-3031.04	4270.91	0.00	443937.19	645226.86	
11900.00	90.74	314.79	7784.18	3079.34	-3102.01	4370.90	0.00	444007.64	645155.89	
12000.00	90.74	314.79	7782.88	3149.78	-3172.97	4470.89	0.00	444078.08	645084.93	
12100.00	90.74	314.79	7781.58	3220.23	-3243.93	4570.88	0.00	444148.53	645013.97	
12200.00	90.74	314.79	7780.28	3290.67	-3314.90	4670.88	0.00	444218.97	644943.00	
12300.00	90.74	314.79	7778.98	3361.12	-3385.86	4770.87	0.00	444289.42	644872.04	
12400.00	90.74	314.79	7777.69	3431.56	-3456.83	4870.86	0.00	444359.86	644801.07	•
12500.00	90.74	314.79	7776.39	3502.01	-3527.79	4970.85	0.00	444430.31	644730.11	
12600.00	90.74	314.79	7775.09	3572.45	-3598.75	5070.84	0.00	444500.75	644659.15	
12600.00										
12700.00	90.74	314.79	7773.79	3642.90	-3669.72	5170.83	0.00	444571.20	644588.18	
12800.00	90.74	314.79	7772.49	3713.34	-3740.68	5270.83	0.00	444641.64	644517.22	•
12900.00	90.74	314.79	7771.19	3783.79	-3811.64	5370.82	0.00	444712.09	644446.26	
13000.00	90.74	314.79	7769.89	3854.23	-3882.61	5470.81	0.00	444782.53	644375.29	
13100.00	90.74	314.79	7768.59	3924.68	-3953.57	5570.80	0.00	444852.98	644304.33	
13200.00	90.74	314.79	7767.29	3995.12	-4024.53	5670.79	0.00	444923.42	644233.37	
13300.00	90.74	314.79	7765.99	4065.57	-4095.50	5770.78	0.00	444993.87	644162.40	
13400.00	90.74	314.79	7764.69	4136.01	-4166.46	5870.78	0.00	445064.31	644091.44	
13500.00	90.74	314.79	7763.39	4206:46	-4237.42	5970.78 5970.77	0.00	445134.76	644020.48	
							***************************************			- announce - Transcriptor and announce - grand
42000 00	90.74	314.79 314.79	7762.09	4276.90	-4308.39	6070.76	0.00	445205.20	643949.51	
13600.00			7760.79	4347.35	-4379.35	6170.75	0.00	445275.65	643878,55	
13700.00	90.74					0070 7 1	0.00	445040.00	0.40007.50	
	90.74 90.74 90.74	314.79 314.79	7759.49 7758.19	4417.79 4488.24	-4450.31 -4521.28	6270.74 6370.73	0.00 0.00	445346.09 445416.54	643807.59 643736.62	

Weatherford Wft Plan Report X Y's.



Wellpath: 1

Company: BOPCO, LP.
Field: Eddy County, NM (Nad 27)
Site: Poker Lake Unit 430H
Well: Poker Lake Unit 430H

Date: 11/21/2013. Time: 15:23:25 Page: Co-ordinate(NE) Reference: Well: Poker Lake Unit 430H, Grid North

Vertical (TVD) Reference: SITE 3451.0 (Section (VS) Reference: Well (0.00N,0.00E,314.79Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

C				
. >	н	rv	e	٦.

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W	VS-QS-C	DLS leg/100ft	MapN ft	MapE - ft	Comme
14000.00	90.74	314.79	7756.89	4558.68	-4592.24	6470.72	0.00	445486.98	643665.66	
14100.00	90.74	314.79	7755.59	4629.13	-4663.20	6570.72	0.00	445557.43	643594.70	
14200.00	90.74	314.79	7751.20	1699.57	-1731.17	6670.71	0.00	445627.87	643523.73	
14300.00	90.74	314.79	7752.99	4770.02	-4805.13	6770.70	·0.00	445698.32	643452.77	
14400.00	90.74	314.79	7751.69	4840.46	-4876.10	6870.69	0.00	445768.76	643381.80	
14500.00	90.74	314.79	7750.40	4910.91	-4947.06	6970.68	0.00	445839.21	643310.84	
14600.00	90.74	314.79	7749.10	4981.35	-5018.02	7070.67	0.00	445909.65	643239.88	
14700.00	90.74	314.79	7747.80	5051.80	-5088.99	7170.67	0.00	445980.10	643168.91	
14800.00	90.74	314.79	7746.50	5122.24	-5159.95	7270.66	0.00	446050.54	643097.95	
14900.00	90.74	314.79	7745.20	5192.69	-5230.91	7370.65	0.00	446120.99	643026.99	
15000.00	90.74	314.79	7743.90	5263.13	-5301.88	7470.64	0.00	446191.43	642956.02	
15100.00	90.74	314.79	7742.60	5333.58	-5372.84	7570.63	0.00	446261.88	642885.06	
15200.00	90.74	314.79	7741.30	5404.02	-5443,80	7670.62	0.00	446332.32	642814.10	
15222.96		314.79	7741.00	5420.20	-5460.10	7693.59	0.00	446348.50	642797.80	PBHL

Targets

Name	Description TVD	ω _κ +N/-S ⊬ft ∳	+ E /- W .	Map Northing ift	∉Map Easting √ft ≉#	< Deg	Latitude Min , Sec	> < Long Deg Min	itude Sec
PBHL	7741.00	5420.20	-5460.10	446348.50	642797.80	32	13 34.628 N	103 52 17	.587 W

Casing Points

MD. fts	TVD) ift	Diameter in :	Hole Size	1 Sec. 12	me
8089.69	7796.50	0.000	0.000	Csg	

Formations

≁-MD ↓↓-∳ft	A TVD	Formations	Lithology Dip Angle Dip Di deg de	rection 9
7634.30	7591.00	LBC 8A Sand	0.00 0.	00

Annotation

MD ft	TVD.	a way	
7189.69	7189.69	KOP	
7889.69	7728.09	Hold	
8089.69	7796.50	Build	
8297.14	7831.00	LP	
15222.96	7741.00	PBHL	



Company: Field:

BOPCO, L.P.

13.000 震。

Date: 11/21/2013 Time: 16:21:51

Eddy County, NM (Nad 27)

Reference Site: Poker Lake Unit 430H Reference Well: Poker Lake Unit 430H

Reference Wellpath:

Co-ordinate(NE) Reference: Well: Poker Lake Unit 430H, Grid North Vertical (TVD) Reference: SITE 3451.0 Db: Sybas

NO GLOBAL SCAN: Using user defined selection & scan criteria

Interpolation MethodMD + Stations Interval: 100.00 ft

Reference: Error Model: Plan: Plan #1 ISCWSA Ellipse

Depth Range: 0.00 to 15222.96 ft

Scan Method:

Closest Approach 3D

Maximum Radius 0000.00 ft Plan #1

Error Surface:

Ellipse

Date Composed:

11/21/2013

Version:

Principal: Yes

Tied-to:

From Surface

Summary

Plan:

Poker Lake Unit 321HPLU 321H

1 V0 Plan: Plan #3 V1

15222.96 16144.44

478.17 91.93

1.24

Site:

Poker Lake Unit 321H

PLU 321H Well:

Wellpath: 1 V0 Plan: Plan #3 V1

Inter-Site Error:

0.00

ft

	Ref	erence 🧃	€	ffset	Semi-l	Major/A	cis	Offse	t Locatio	n & Ctr-Ctr & Edge Distance Distanc	Separatio	n ·	
П	MD	TVD.\	MD	TVD.	Ref	Offset	* TFO-I	IS North	ı East	Distance Distance	e Factor	. Warning	
L	¹ ₹ ,≨ft	ft (ft	ft;	To file	EMA:	्रि deg ्र	in fitting	V aft with	Sign of the state	Maria Maria	. S. S.	
11	1900.00	1900.00	16144.44	7629.00	4.14	200.88	313.25	5564.85	-5914.88	9986.04 9913.97	138.55		
Н	2000.00	2000.00	16144.44	7629.00	4.36	200.88	313.25	5564.85	-5914.88	9928.19 9855.71	136.99		
Н	2100.00	2100.00	16144.44	7629.00	4.59	200.88	313.25	5564.85	-5914.88	9871.00 9798.12	135.44		
Ш	2200.00		16144.44		4.81				-5914.88	9814.50 9741.21	133.91		
Н	2300.00	2300.00	16144.44	7629.00	5.04	200.88	313.25	5564.85	-5914.88	9758.70 9684.99	132.39		
Н													
Н	2400.00		16144.44	7629.00	5.26				-5914.88	9703.61 9629.48	130.90		
Н	2500.00		16144.44	7629.00	5.49				-5914.88	9649.24 9574.68	129.42		
Н	2600.00		16144.44	7629.00	5.71				-5914.88	9595.61 9520.61	127.95		
Н	2700.00		16144.44	7629.00	5.93				-5914.88	9542.72 9467.28	126.50		
Ш	2800.00	2800.00	16144.44	7629.00	6.16	200.88	313.25	5564.85	-5914.88	9490.59 9414.71	125.07		
П	2900.00	2000 00	16144.44	7629.00	6.38	200 88	313 25	5564.85	-5914.88	9439.23 9362.90	123.65		
Н	3000.00		16144.44	7629.00	6.61				-5914.88	9388.66 9311.86	123.05		
Н	3100.00		16144.44	7629.00	6.83				-5914.88	9338.88 9261.61	120.87		
Н	3200.00		16144.44	7629.00	7.06				-5914.88	9289.91 9212.17	119.50		
Н	3300.00		16144.44	7629.00	7.28				-5914.88	9241.77 9163.54	118.14		
П	0000.00	0000.00	10111.11	7020.00			010.20			0211.77 0100.01	710.71		
П	3400.00	3400.00	16144.44	7629.00	7.51	200.88	313.25	5564.85	-5914.88	9194.46 9115.74	116.79	•	
П	3500.00		16144.44	7629.00	7.73				-5914.88	9148.00 9068.77	115.46		
Н	3600.00	3600.00	16144.44	7629.00	7.96	200.88	313.25	5564.85	-5914.88	9102.40 9022.66	114.14		
Н	3700.00	3700.00	16144.44	7629.00	8.18	200.88	313.25	5564.85	-5914.88	9057.68 8977.40	112.84		
Н	3800.00	3800.00	16144.44	7629.00	8.41	200.88	313.25	5564.85	-5914.88	9013.84 8933.03	111.54		
ı													
Н	3900.00		16144.44	7629.00	8.63				-5914.88	8970.90 8889.54	110.26		
	4000.00		16144.44	. 7629.00	8.86				-5914.88	8928.88 8846.95	108.98		
	4100.00		16144.44	7629.00	9.08				-5914.88	8887.78 8805.27	107.71		
	4200.00		16144.44	7629.00	9.31				-5914.88	8847.63 8764.51	106.44		
	4300.00	4300.00	16144.44	7629.00	9.53	200.88	313.25	5564.85	-5914.88	8808.42 8724.68	105.19		
	4400.00	4400 00	16144.44	7629.00	9.76	200.88	313 25	5564.85	-5914.88	8770.18 8685.80	103.93		
П	4500.00		16144.44	7629.00	9.98				-5914.88	8732.928647.87	102.68		
	4600.00		16144.44	7629.00	10.21				-5914.88	8696.65 8610.90	101.42		
	4700.00		16144.44	7629.00	10.43				-5914.88	8661.38 8574.91	100.16		
	4800.00		16144.44	7629.00	10.66				-5914.88	8627.12 8539.89	98.90		
	4900.00	4900.00	16144.44	7629.00	10.88	200.88	313.25	5564.85	-5914.88	8593.90 8505.87	97.63		
	5000.00		16144.44	7629.00	11.10				-5914.88	8561.71 8472.84	96.34		
- -	5100:00		16144.44							8530:57-8440:82	95 . 04	· · · · · · · · · · · · · · · · · · ·	
	5200.00		16144.44	7629.00	11.55				-5914.88	8500.50 8409.80	93.72		
	5300.00	5300.00	16144.44	7629.00	11.78	200.88	313.25	5564.85	-5914.88	8471.50 8379.79	92.38		
	E400.00	E400.00	10111 11	7000.00	40.00	200.00	242.05	EEC4.05	E014 00	0.4.40	04.00		
L	5400.00	5400.00	16144.44	7629.00	12.00	200.88	313.25	5564.85	-5914.88	8443.58 8350.80	91.00		



BOPCO, L.P. Company:

Field: Eddy County, NM (Nad 27)
Reference Site: Poker Lake Unit 430H

Reference Well: Roker Lake Unit 430H

Reference Wellpath:

Date: 1,1/21/2013 Time: 16:21:51 Page: Co-ordinate(NE) Reference: Well: Poker Lake Unit 430H, Grid North Vertical (TVD) Reference: SITE:3451.0

Db: Sybas

Poker Lake Unit 321H Site: Well: PLU 321H
Wellnath: 1 V0 Plan: Plan #3 V1

Inter-Site Error

•	: 1 V0 Plan: Plan #3 \					Inter-Site Error:	0.00	ft
Refe	erence. O	ffset, Se	mi-Major A	ris'	Offset Location	n Ctr-Ctr Edge S	paration	
` ∡ ∨MD · ·	TVD	ATVD 🖖 🦮	lef Offset	TFO-I	IS North East	Distance Distance ft	Factor	Warning
ft.	ft of the	15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	fty: - Eft/S	deg	他 ft 经共享的	CALL IT SAME OF THE PARTY	4.7867	
5500.00	5500.00 16144.44					8416.76 8322.81	89.59	
5600.00	5600.00 16144.44					8391.05 8295.84	88.14	
5700.00	5700.00 16144.44	7629.00 12			5564.85 -5914.88		86.63	
5800.00	5800.00 16144.44				5564.85 -5914.88		85.06	
3000.00	3000.00 10144.44	7025.00 12	00 200.00	010.20	0001.00 0011.00		00.00	
5900.00	5900.00 16144.44	7629.00 13	3.13 200.88	313 25	5564.85 -5914.88	8320.64 8220.91	83.43	
6000.00	6000.00 16144.44				5564.85 -5914.88		81.71	
6100.00	6100.00 16144.44				5564.85 -5914.88		79.91	
6200.00	6200.00 16144.44				5564.85 -5914.88		77.99	
6300.00	6300.00 16144.44				5564.85 -5914.88		75.96	
0300.00	0300.00 10144.44	7025.00	200.00	010.20	0004.00 0014.00	0242.000104.01	70.00	
6400.00	6400.00 16144.44	7629.00 14	.25 200.88	313.25	5564.85 -5914.88	8226.30 8114.81	73.78	
6500.00	6500.00 16144.44				5564.85 -5914.88		71.46	
6600.00	6600.00 16144.44				5564.85 -5914.88		68.97	
6700.00	6700.00 16144.44				5564.85 -5914.88		66.30	
6800.00	6800.00 16144.44	7629.00 15	5.15 200.88	313.25	5564.85 -5914.88	8172.10 8043.28	63.44	
6000 00	6000 00 16144 44	7629.00 15	5.38 200.88	312 25	5564.85 -5914.88	8161.56 8026.39	60.38	
6900.00	6900.00 16144.44 7000.00 16144.44				5564.85 -5914.88		57.14	
7000.00								
7100.00	7100.00 16144.44				5564.85 -5914.88		53.73	
7189.69	7189.69 16144.44				5564.85 -5914.88		50.59	
7200.00	7200.00 16144.44	7629.00 16	5.05 200.88	358.46	5564.85 -5914.88	8137.14 7975.11	50.22	
7050.00	7040 00 40444 44	7000 00 40	40 000:00	250.45	FFC4.0F FO44.00	0404 00 7000 04	40.47	
7250.00	7249.89 16144.44				5564.85 -5914.88		48.47	
7300.00	7299.32 16144.44				5564.85 -5914.88		46.74	
7350.00	7347.92 16144.44				5564.85 -5914.88		45.08	
7400.00	7395.31 16144.44				5564.85 -5914.88		43.51	
7450.00	7441.14 16144.44	7629.00 16	5.61 200.88	358.25	5564.85 -5914.88	8067.58 7875.72	42.05	
						· · · · · · · · · · · · · · · · · · ·		
7500.00	7485.05 16144.44				5564.85 -5914.88		40.73	
7550.00	7526.72 16144.44			358.04	5564.85 -5914.88	8013.72 7811.25	39.58	
7600.00	7565.82 16144.44	7629.00 17	'.04 200.88	357.89	5564.85 -5914.88		38.60	
7650.00	7602.06 16144.44	7629.00 17	'.24 200.88	357.71	5564.85 -5914.88	7946.81 7736.55	37.80	
7700.00	7635.16 16144.44	7629.00 17	'.47 200.88	357.46	5564.85 -5914.88	7908.98 7696.15	37.16	
7750.00	7664.87 16144.44				5564.85 -5914.88		36.68	
7800.00	7690.96 16144.44				5564.85 -5914.88		36.32	
7850.00	7713.24 16144.44	7629.00 18	3.46 200.88	356.06	5564.85 -5914.88	7781.10 7565.37	36.07	
7889.69	7728.09 16144.44	7629.00 18	3.80 200.88	355.33	5564.85 -5914.88	7744.33 7528.70	35.91	
7900.00	7731.62 16144.44	7629.00 18	3.89 200.88	355.33	5564.85 -5914.88	7734.66 7518.87	35.84	
8000.00	7765.82 16144.44	7629.00 19	.91 200.88	355.33	5564.85 -5914.88	7640.90 7424.04	35.24	•
8089.69	7796.50 16144.44	7629.00 20	.96 200.88	355.33	5564.85 -5914.88	7556.94 7339.93	34.82	
8100.00	7799.94 16144.44				5564.85 -5914.88		34.82	
8150.00	7814.11 16144.44			353.49	5564.85 -5914.88		34.76	
8200.00	7824.05 16144.44			350.29	5564.85 -5914.88		34.61	
8250.00	7829.68 16144.44	7629.00 23	.17 200.88	340.94	5564.85 -5914.88	7401.17 7184.14	34.10	
8297.14	7831.00 16144.44			276.41	5564.85 -5914.88	7354.117122.92	31.81	
8300.00	7830.97 16144.44				5564.85 -5914.88	7351.25 7120.01	31.79	
8400.00	7829.67 16144.44				5564.85 -5914.88	7251.29 7018.36	31.13	
8500.00	7828.37 16144.44				5564.85 -5914.88	7151.34 6916.61	30.47	
						.,		
8600.00	7827.07 16144.44	7629.00 29	.01 200.88	276.41	5564.85 -5914.88	7051.39 6814.78	29.80	
8700.00	7825.77 16144.44		1		5564.85 -5914.88	6951.43 6712.89	29.14	
8800.00	7824.47 16144.44				5564.85 -5914.88	6851.49 6610.95	28.48	
8900:00	-7823:17 16144:44				-5564:85 -5914:88		-27:83	
9000.00	7821.87 16144.44				5564.85 -5914.88	6651.59 6406.93	27.19	
2000.00	. 321.01 10111.77	. 525.55	0 _00.00			20000 0 100.00		
9100.00	7820.57 16144.44	7629.00 38	.71 200.88	276.41	5564.85 -5914.88	6551.65 6304.87	26.55	
					5564.85 -5914.88	6451.70 6202.79	25.92	
9200.00	7819.27 16144.44	7029.00 40	LIO ZUULOO	2/0.4	0004.00 -0914 nn		20.52	



Company:

BOPCO, L.P.

Eddy County, NM (Nad 27)

Field: Reference Site: Poker Lake Unit 430H
Reference Well: Poker Lake Unit 430H

Reference Wellpatif:

Time: 16:21:51 Date: 11/21/2013

. Page:

Co-ordinate(NE):Reference: Well Poker Lake Unit 430H, Grid North Vertical (TVD):Reference: SITE 345110 Db: Sybas

Db: Sybase

Site: Poker Lake Unit 321H Well: PLU 321H
Wellpath: 1 V0 Plan: Plan #3 V1

Inter-Site Error:

0.00 ft

	-		n: Plan #3 V							Inter-Site Error:	0.00	ft	
	Refe	rence"	4.0	ffset	Semi-I	Major A	cis A	Offset	Location	Ctr-Ctr Edge S	eparation		
1	MD*	TVD	MD	TVD	Ref	Offset	TFO-I	IS North:	East	Distance Distance	Factor	Warning	257
١	ft	ft	ft	, art	ft	of Marie Val	dea	State 1	is ft * 3	files fi			•
ł	· · · · · · · · · · · · · · · · · · ·	, i										W - 18	
-	9300.00		16144.44	7629.00	42.83			5564.85 -		6351.766100.68	25.30	•	
-	9400.00		16144.44	7629.00	44.92			5564.85 -		6251.82 5998.56	24.69	•	
	9500.00	7815.37	16144.44	7629.00	47.03	200.88	276.41	5564.85 -	5914.88	6151.88 5896.42	24.08		
-	9600.00		16144.44	7629.00	49.16			5564.85 -		6051.95 5794.26	23.49		
- [9700.00		16144.44	7629.00	51.30			5564.85 -		5952.02 5692.10	22.90		
	9800.00		16144.44	7629.00	53.45			5564.85 -		5852.08 5589.92	22.32		
	9900.00		16144.44	7629.00	55.61			5564.85 -		5752.16 5487.74	21.75		
	10000.00	7808.87	16144.44	7629.00	57.78	200.88	2/6.41	5564.85 -	5914.88	5652.23 5385.55	21.20		
١	40400.00	7007 57	1011111	7000.00	F0 00	000.00	070 44	5504.05	5044.00	5550 04 5000 00	00.04		
١	10100.00		16144.44	7629.00	59,96			5564.85 -		5552.31 5283.36	20:64		
١	10200.00		16144.44	7629.00	62.15			5564.85 -		5452.39 5181.16	20.10		
1	10300.00		16144.44	7629.00	64.34			5564.85 -		5352.47 5078.95	19.57		
١	10400.00		16144.44	7629.00	66.54			5564.85 -		5252.55 4976.75	19.04		
١	10500.00	7802:38	16144.44	7629.00	68.75	200.88	276.41	5564.85 -	5914.88	5152.64 4874.54	18.53		
1	40000 00	7004.00	4044444	7000 00	70.00	000.00	070 44	5504.05	5044.00	5050 70 4770 00	40.00		
-	10600.00		16144.44	7629.00	70.96			5564.85 -		5052.73 4772.33	18.02		
1	10700.00		16144.44	7629.00				5564.85 -		4952.83 4670.12	17.52		
1	10800.00		16144.44	7629.00	75.39			5564.85 -		4852.93 4567.91	17.03		
1	10900.00		16144.44	7629.00	77.62			5564.85 -		4753.03 4465.70	16.54		
1	11000.00	7795.88	16144.44	7629.00	79.84	200.88	2/6.41	5564.85 -	5914.88	4653.14 4363.49	16.06		
-	44400.00	770450	1011111	7000 00	00.07	200 20	070 44	FFC4.0F	E044.00	4550 00 4004 00	45.50		
1	11100.00		16144.44	7629.00	82.07			5564.85 -		4553.26 4261.28	15.59	,	
	11200.00		16144.44	7629.00	84.31			5564.85 -		4453.37 4159.07	15.13		
1	11300.00		16144.44	7629.00	86.54			5564.85 -		4353.50 4056.87	14.68		
1	11400.00		16144.44	7629.00	88.78			5564.85 -		4253.63 3954.67	14.23		
ı	11500.00	7789.38	16144.44	7629.00	91.02	200.88	2/6.41	5564.85 -	5914.88	4153.76 3852.48	13.79		
١	44000.00	7700.00	1011111	7000 00	00.00	202.00	070.44	5504.05	CO44.00	4050 04 0750 00	40.05		
١	11600.00		16144.44	7629.00	93.26			5564.85 -		4053.91 3750.29	13.35		
١	11700.00		16144.44	7629.00	95.51			5564.85 -		3954.06 3648.10	12.92		
١	11800.00		16144.44	7629.00	97.75			5564.85 -		3854.21 3545.93	12.50		
-[11900.00		16144.44	7629.00				5564.85 -		3754.38 3443.75	12.09		
١	12000.00	7782.88	16144.44	7629.00	102.25	200.88	276.41	5564.85 -	5914.88	3654.56 3341.59	11.68		
İ	12100.00	7701 50	16144 44	7620.00	104.50	200.00	276 44	EEGA OF	E014 00	2554 74 2020 44	44.07		
1	12100.00		16144.44 16144.44	7629.00				5564.85 -		3554.74 3239.44	11.27		
-	12200.00		16144.44					5564.85.±		3454.94.3137.29	. 10.88		
ļ	12300.00 12400.00		16144.44	7629.00 7629.00				5564.85 - 5564.85 -		3355.14 3035.16	10.49		
ı	12500.00		16144.44	7629.00				5564.85 -		3255.36 2933.03 3155.60 2830.92	10.10 9.72		
١	12300.00	1110.39	10144.44	7029.00	113.32	200.00	270.41	3304.65 -	3914.00	3133.00 2030.92	9.12		
1	12600.00	7775.00	16144.44	7629.00	115 78	200.88	276 41	5564.85 -	5014 22	3055.852728.83	9.34		
1	12700.00		16144.44	7629.00				5564.85 -		2956.11 2626.75	9.3 4 8.98		
1	12800.00		16144.44	7629.00				5564.85 -		2856.40 2524.69	8.61		
1	12900.00		16144.44	7629.00				5564.85 -		2756.70 2422.65	8.25		
١	13000.00		16144.44	7629.00				5564.85 -		2657.03 2320.63	7.90		
1	,5000.00		.0117.77	, 020.00	12 1.02	200.00	270.71	JUU 1.00 **	5517.00	2001.002020.00	1.30		
1	13100.00	7768 59	16144.44	7629.00	127 08	200.88	276 41	5564.85 -	5914 88	2557.38 2218.64	7.55		
Į	13200.00		16144.44	7629.00				5564.85 -		2457.77 2116.68	7.33		
1	13300.00		16144.44	7629.00				5564.85 -		2358.18 2014.75	6.87		
1	13400.00		16144.44	7629:00				5564.85 -		2258.63 1912.86	6.53		
	13500.00		16144.44	7629.00				5564.85 -		2159.13 1811.01	6.20		
	. 5000.00	00.00		. 4_0.00			_, 5	3001.00	-5100		0.20		
1	13600.00	7762 09	16144.44	7629.00	138 40	200.88	276 41	5564.85 -	5914 88	2059.67 1709.21	5.88		
ı	13700.00		16144.44	7629.00				5564.85 -		1960.26 1607.47	5.56		
	13800.00		16144.44	7629.00				5564.85 -		1860.93 1505.79	5.24		
	13900.00		16144.44	7629.00				5564.85 -		1761.66 1404.20	4.93		
4	14000:00		16144.44					- 5564.85 -		1662:48 1302:69	4.62		
1	1-1000.00	, , 55.03	.0177.77	, 020.00	(71.71	200.00	2,0.41	300-7.00	JJ 17.00	1002.70 1002.03	7.02		
1	14100.00	7755 59	16144.44	7629.00	149 74	200.88	276 41	5564.85 -	5914 88	1563.41 1201.29	4.32		
1	14200.00		16144.44	7629.00			•	5564.85 -		1464.47 1100.03	4.02		
1	14300.00		16144.44	7629.00				5564.85		1365.67 998.93	3.72		
1	. 1000.00		.01:17:77	. 020.00	.01.20	200.00	_, 0.71	5,554.55		1000.01 880.80	J.12		



Company:

BOPCO, L.P.

Field: Eddy County, NM (Nad 27)

Reference Site: Roker Lake Unit 430H

Reference Well: Poker Lake Unit 430H Reference Wellpath:

Date: 11/21/2013 Time: 16:21.51 Page:

Co-ordinate(NE) Reference: Well Poker, Lake Unit 430H. Grid North Vertical (TVD) Reference: SITE 3451.0

Poker Lake Unit 321H Site: Well: PLU 321H

Wellpath: 1 V0 Plan: Plan #3 V1

Int

ter-Site		Er	Error:						Ų).(JU	п			
		·		Y 70.04		1.5	C 843	7	٠.	٠.				 _	-

	TVD MD	TVD Ref	"Offset TFO-l	IS North East	Ctr-Ctr Edge S Distance Distance	Factor Warning
-14400:00	-7751.69-16144.44	7629.00 ₋ _156.55	200.88 -276.41	- 5564.85 -5914.88 -		
14500.00	7750.40 16144.44	7629.00 158.82	200.88 276.41	5564.85 -5914.88	1168.70 797.37	3.15
14600.00	7749.10 16144.44	7629.00 161.09	200.88. 276.41	5564.85 -5914.88	1070.64 697.04	2.87
14700.00	7747.80 16144.44	7629.00 163.36	200.88 276.41	5564.85 -5914.88	972.97 597.13	2.59
14800.00	7746.50 16144.44	7629.00 165.63	200.88 276.41	5564.85 -5914.88	875.83 497.79	2.32
14900.00	7745.20 16144.44	7629.00 167.90	200.88 276.41	5564.85 -5914.88	779.41 399.22	2.05
15000.00	7743.90 16144.44	7629.00 170.17	200.88 276.41	5564.85 -5914.88	684.02 301.76	1.79
15100.00	7742.60 16144.44	7629.00 172.45	200.88 276.41	5564.85 -5914.88	590.16 205.97	1.54
15200.00	7741.30 16144.44	7629.00 174.72	200.88 276.41	5564.85 -5914.88	498.69 112.80	1.29 Level 3
15222.96	7741.00 16144.44	7629.00 175.24	200.88 276.41	5564.85 -5914.88	478.17 91.93	1.24 Level 2



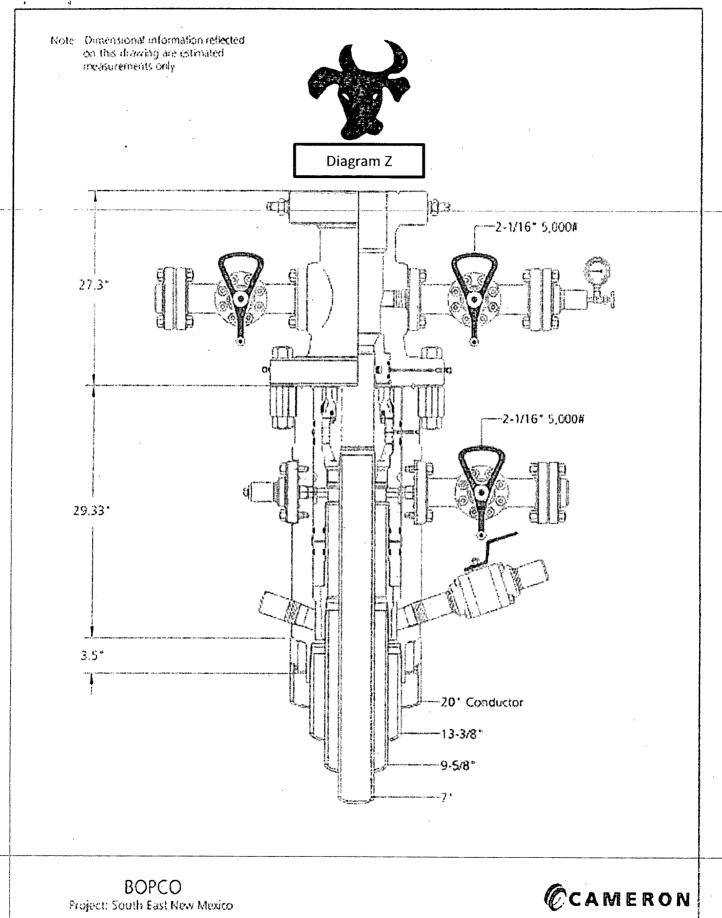
Report Date:

Weatherford Drilling Services

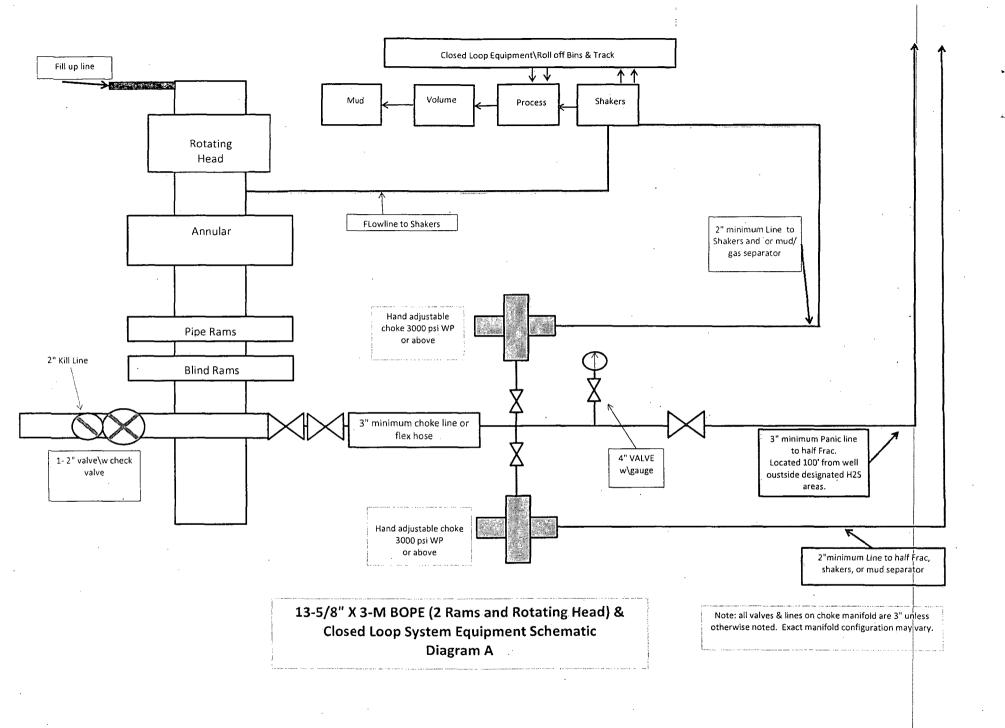
GeoDec v5.03

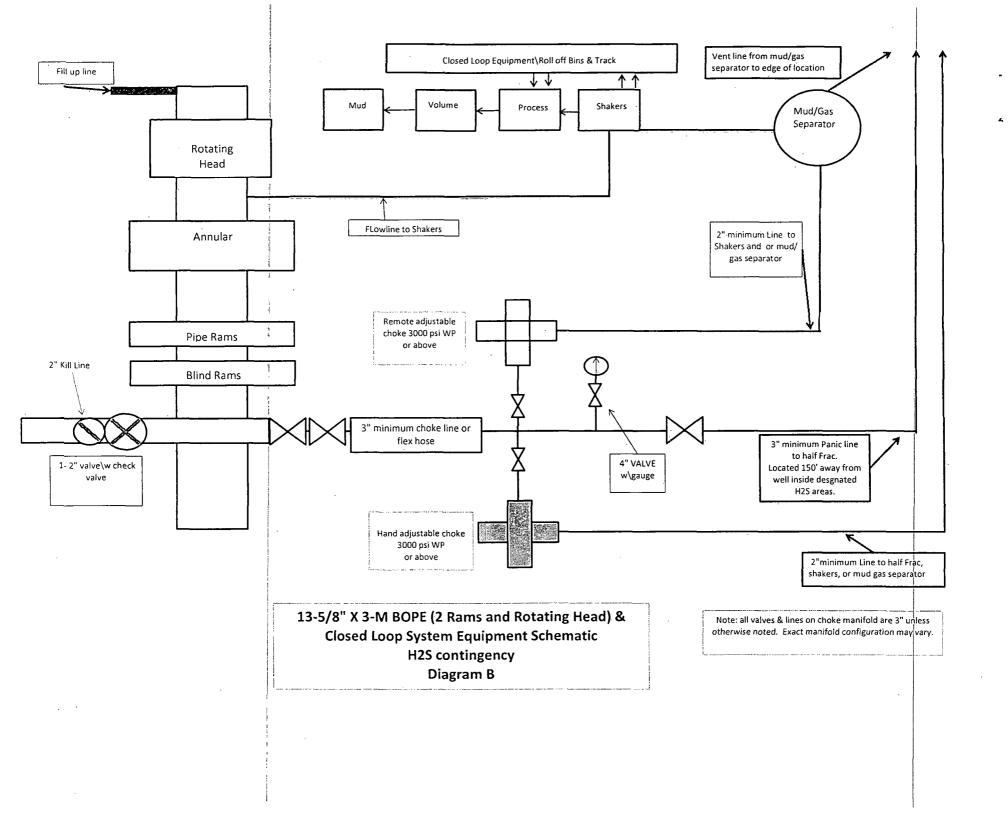
November 21, 2013

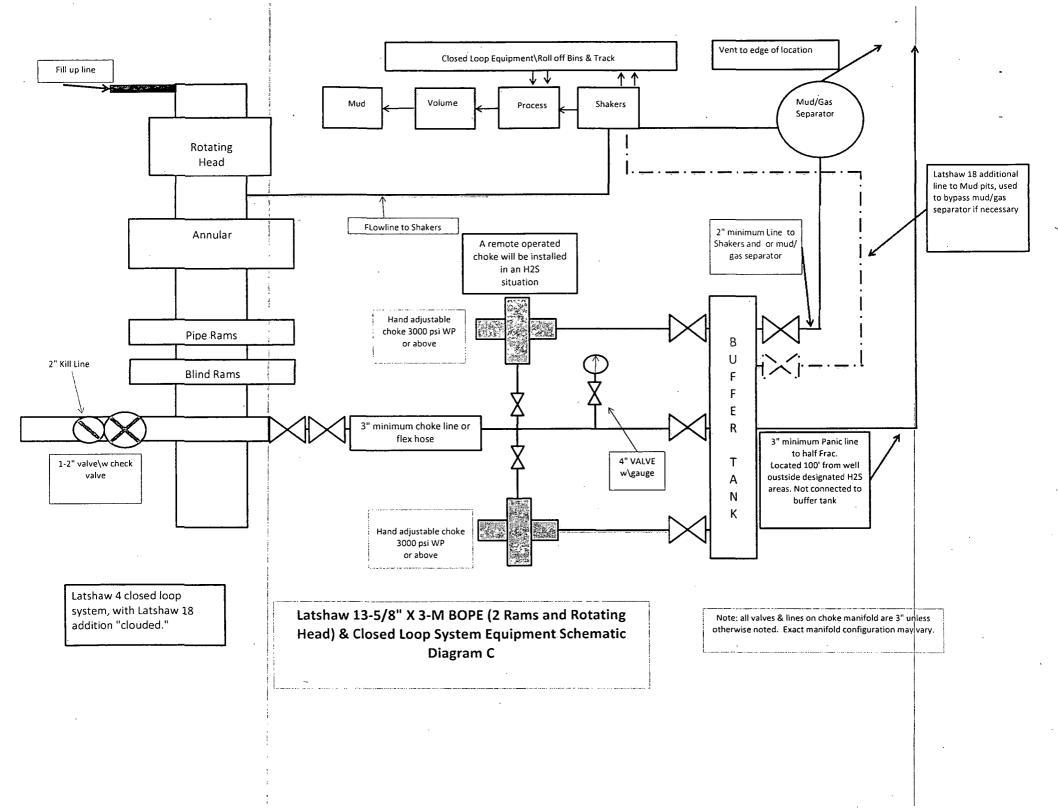
Job Number:								
Customer:	BOPCO							
Well Name:								
API Number:								
Rig Name:								
Location:	Eddy Co, NM							
Block:								
Engineer:	RWJ	· .						
US State Plane 1	927	Geodetic Latitude / Longit	ude					
System: New Mex	xico East 3001 (NON-EXAC	Γ) System: Latitude / Longitu	de					
Projection: SPC2	7 Transverse Mercator	Projection: Geodetic Latitu	ide and Longitude					
Datum: NAD 192	7 (NADCON CONUS)	Datum: NAD 1927 (NADC	ON CONUS)					
Ellipsoid: Clarke 1	,	Ellipsoid: Clarke 1866						
North/South 4409		Latitude 32.2113202 DEG						
East/West 64825		Longitude -103.8539736						
Grid Convergence								
Total Correction:								
Total Correction.	17.20							
Geodetic Location	n WGS84 Elevatio	n= 0.0 Meters	·					
Latitude =	32.21132° N 32°	12 min 40.753 sec						
Longitude = 1	03.85397° W 103°	51 min 14.305 sec						
Magnetic Declina	tion = 7.52°	[True North Offset]						
Local Gravity =	.9988 g	CheckSum =	6573					
Local Field Streng	gth = 48329 nT	Magnetic Vector X =	23922 nT					
Magnetic Dip =	60.05°	Magnetic Vector Y =	3157 nT					
Magnetic Model =	bggm2013	Magnetic Vector Z =	41874 nT					
Spud Date =	Jan 01, 2014	Magnetic Vector H =	24129 nT					
		· · · · · · · · · · · · · · · · · · ·						
Signed:		Date:						



Jeanette 7-22-13 # 21077904-A







MIDWEST

HOSE AND SPECIALTY INC.

INTERNAL HYDROSTATIC TEST REPORT													
Customer: LATSHAW DRILLING			P.O. Numb	oer:									
HOSE SPECIFICATIONS													
Type: CHOKE LIN	E		Length:	30'									
I.D. 3"	INCHES	O.D.	6"	INC	HES								
WORKING PRESSURE	TEST PRESSUR	E	BURST PRES	SSURE									
5,000 PSI	10,000	PSI			PSI								
	COUP	LINGS											
Type of End Fitting 4 1/16 5K FL				· · · · · · · · · · · · · · · · · · ·									
Type of Coupling: SWEDGED		MANUFACTURED BY MIDWEST HOSE & SPECIALTY											
	PROC	EDURE											
			at tomporaturo										
***************************************	y pressure tested w TEST PRESSURE	<u> </u>	URST PRESSI										
1	MIN.			0	PSI								
COMMENTS: SO#81610 Hose is covered with stainless steel armour cover and wraped with fire resistant vermiculite coated fiberglass insulation rated for 1500 degrees complete with lifting eyes													
Date: 3/2/2011	Tested By: BOBBY FINK		Approved: MENDI		N								

Midwest Hose & Specialty, Inc.

Internal Hydrostatic Test Graph

Pick Ticket # 81610

Hose Specifications

Customer: Latshaw

Hose Type LD. Working Pressure

5000 PSI

Length Q.D. 415/32

Burst Pressure Standard Safety Multiplier Applies

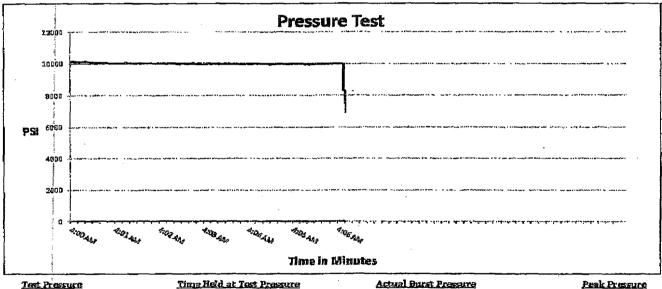
Verification

Type of Fitting 41/155K Die Size 5,12" Huse Serial # 6884

Final O.D. 5.16" Hose Assembly Serial # 81610

Coupling Method

Swage



Test Pressure 10000 PSI

Time Held at Tost Pressure 6 1/4 Minutes

Actual Burst Pressure

10195 PSI

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

Tested By: Donnie Mclemore

Approved By: Bobby Fink

April 4, 2012



Exhibit "D'

RIG LAYOUT SCHEMATIC

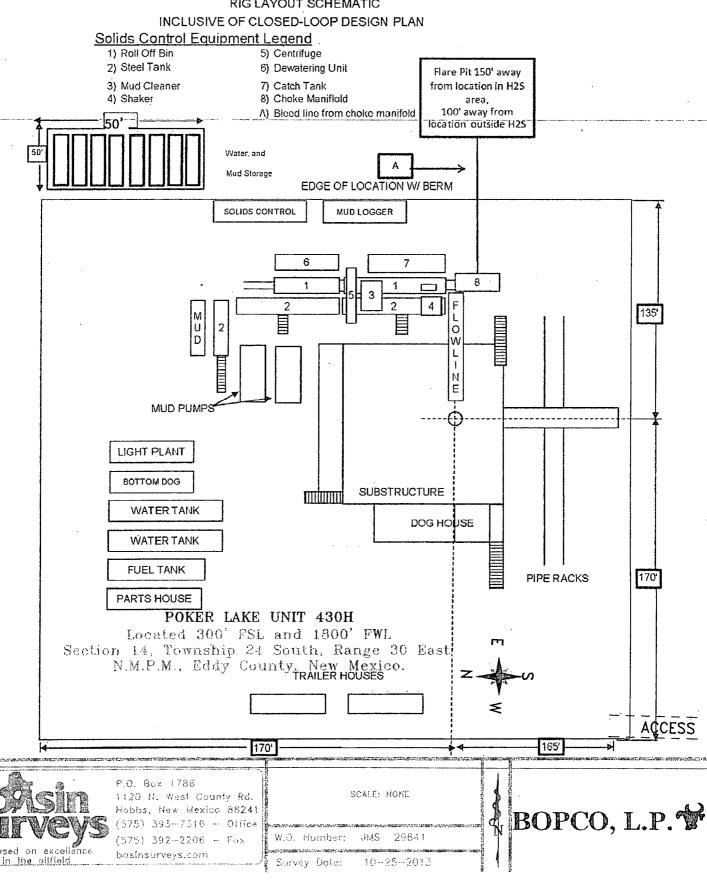


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- B. Objective
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- B. Emergency Procedures Implementation
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H2S CONTINGENCY PLAN SECTION

Scope:

This contingency plan provides an organized plan of action for alerting and protecting the public within an area of exposure prior to an intentional release, or following the accidental release of a potentially hazardous volume of hydrogen sulfide. The plan establishes guidelines for all personnel whose work activity may involve exposure to Hydrogen Sulfide Gas (H₂S).

Objective:

Prevent any and all accidents, and prevent the uncontrolled release of H_2S into the atmosphere.

Provide proper evacuation procedures to cope with emergencies.

Provide immediate and adequate medical attention should an injury occur.

Discussion of Plan:

Suspected Problem Zones:

Implementation: This plan, with all details, is to be fully implemented 500' above or three days prior to drilling into the first known sour zone

Emergency Response and Public Protection Procedure: This section outlines the conditions and denotes steps to be taken in the event of an emergency.

Emergency Equipment and Procedure: This section outlines the safety and emergency equipment that will be required for the drilling of this well.

Training Provisions: This section outlines the training provisions that must be adhered to 500 feet above or three days prior to drilling into the first known sour zone.

Emergency call lists: Included are the telephone numbers of all persons that would need to be contacted should an H₂S emergency occur.

Briefing: This section deals with the briefing of all persons involved with the drilling of this well.

Public Safety: Public Safety Personnel will be made aware of the drilling of this well.

EMERGENCY PROCEDURES AND PUBLIC PROTECTION SECTION

- I. In the event of any evidence of H₂S levels above 10 ppm, take the following steps immediately:
 - A. Secure breathing apparatus.
 - B. Order non-essential personnel out of the danger zone.
 - C. Take steps to determine if the H₂S level can be corrected or suppressed, and if so, proceed with normal operations.
- II. If uncontrollable conditions occur, proceed with the following:
 - A. Take steps to protect and/or remove any public downwind of the rig, including partial evacuation or isolation. Notify necessary public safety personnel and the New Mexico Oil & Gas of the situation.
 - B. Isolate area and prevent entry by unauthorized persons into the 100 ppm ROE.
 - C. Remove all personnel to the Safe Briefing Area.
 - D. Notify public safety personnel for help with maintaining roadblocks and implementing evacuation. Phone number list attached.
 - E. Determine and proceed with the best possible plan to regain control of the well. Maintain tight security and safety measures.

III. Responsibility:

- A. The Company Approved Supervisor shall be responsible for the total implementation of the plan.
- B. The Company Approved Supervisor shall be in complete command during any emergency.
- C. The Company Approved Supervisor shall designate a back up Supervisor in the event that he/she is not available.

EMERGENCY PROCEDURE IMPLEMENTATION

I. Drilling or Tripping

A. All Personnel

- When alarm sounds, don escape unit and report to upwind Safe Briefing Area.
- 2. Check status of other personnel (buddy system).
- 3. Secure breathing apparatus.
- 4. Wait for orders from supervisor.

B. Drilling Foreman

- 1. Report to the upwind Safe Briefing Area.
- 2. Don Breathing Apparatus and return to the point of release with the Tool Pusher or Driller (buddy system).
- 3. Determine the concentration of H₂S.
- 4. Assess the situation and take appropriate control measures.

C. Tool Pusher

- 1. Report to the upwind Safe Briefing Area.
- 2. Don breathing apparatus and return to the point of release with the Drilling Foreman or the Driller (buddy system).
- 3. Determine the concentration.
- 4. Assess the situation and take appropriate control measures.

D. Driller

- 1. Check the status of other personnel (in a rescue attempt, always use the buddy system).
- 2. Assign the least essential person to notify the Drilling Foreman and Tool Pusher, in the event of their absence.

3. Assume the responsibility of the Drilling Foreman and the Tool Pusher until they arrive, in the event of their absence.

E. Derrick Man and Floor Hands

1. Remain in the upwind Safe Briefing Area until otherwise instructed by a supervisor.

F. Mud Engineer

- 1. Report to the upwind Safe Briefing Area.
- 2. When instructed, begin check of mud for pH level and H₂S level.

G. On-site Safety Personnel

- 1. Don Breathing Apparatus.
- 2. Check status of all personnel.
- 3. Wait for instructions from Drilling Foreman or Tool Pusher.

II. Taking a Kick

- A. All personnel report to the upwind Safe Briefing Area.
- B. Follow standard BOP procedures.

III. Open Hole Logging

- A. All unnecessary personnel should leave the rig floor.
- B. Drilling Foreman and Safety Personnel should monitor the conditions and make necessary safety equipment recommendations.

IV. Running Casing or Plugging

- A. Follow "Drilling or Tripping" procedures.
- B. Assure that all personnel have access to protective equipment.

SIMULATED BLOWOUT CONTROL DRILLS

All drills will be initiated by activating alarm devices (air horn). Use one long blast on the air horn for ACTUAL and SIMULATED Blowout Control Drills. This operation will be performed by the Drilling Foreman or Tool Pusher at least one time per week for each of the following conditions, with each crew:

Drill # 1 Bottom Drilling

Drill # 2 Tripping Drill Pipe

In each of these drills, the initial reaction time to shutting in the well shall be timed as well as the total time for the crew to complete its entire pit drill assignment. The times must be recorded on the IADC Driller's Log as "Blowout Control Drill".

Drill No.:

Reaction Time to Shut-In:

minutes,

seconds.

Total Time to Complete Assignment:

minutes,

I. Drill Overviews

- A. Drill No. 1- Bottom Drilling
 - 1. Sound the alarm immediately.
 - 2. Stop the rotary and hoist kelly joint above the rotary table.
 - 3. Stop the circulatory pump.
 - 4. Close the drill pipe rams.
 - 5. Record casing and drill pipe shut-in pressures and pit volume increases.
- B. Drill No. 2 Tripping Drill Pipe
 - 1. Sound the alarm immediately.
 - 2. Position the upper tool joint just above the rotary table and set the slips.

- 3. Install a full opening valve or inside blowout preventor tool in order to close the drill pipe.
- 4. Close the drill pipe rams.
- 5. Record the shut-in annular pressure.

II. Crew Assignments

A. Drill No. 1 - Bottom Drilling

1. Driller

- a) Stop the rotary and hoist kelly joint above the rotary table.
- b) Stop the circulatory pump.
- c) Check flow.
- d) If flowing, sound the alarm immediately.
- e) Record the shut-in drill pipe pressure.
- f) Determine the mud weight increase needed or other courses of action.

2. Derrickman

- a) Open choke line valve at BOP.
- b) Signal Floor Man # 1 at accumulator that choke line is open.
- c) Close choke and upstream valve after pipe tams have been closed.
- d) Read the shut-in annular pressure and report readings to Driller.

3. Floor Man # 1

- a) Close the pipe rams after receiving the signal from the Derrickman.
- b) Report to Driller for further instructions.

4. Floor Man # 2

- a) Notify the Tool Pusher and Operator Representative of the H₂S alarms.
- b) Check for open fires and, if safe to do so, extinguish them.
- c) Stop all welding operations.
- d) Turn-off all non-explosion proof lights and instruments.
- e) Report to Driller for further instructions.

5. Tool Pusher

- a) Report to the rig floor.
- b) Have a meeting with all crews.
- c) Compile and summarize all information.
- d) Calculate the proper kill weight.
- e) Ensure that proper well procedures are put into action.

6. Operator Representative

- a) Notify the Drilling Superintendent.
- b) Determine if an emergency exists and if so, activate the contingency plan.

B. Drill No. 2 - Tripping Pipe

1. Driller

- a) Sound the alarm immediately when mud volume increase has been detected.
- b) Position the upper tool joint just above the rotary table and set slips.
- c) Install a full opening valve or inside blowout preventor tool to close the drill pipe.
- d) Check flow.

- e) Record all data reported by the crew.
- f) Determine the course of action.

2. Derrickman

- a) Come down out of derrick.
- b) Notify Tool Pusher and Operator Representative.
- c) Check for open fires and, if safe to do so, extinguish them.
- d) Stop all welding operations.
- e) Report to Driller for further instructions.

3. Floor Man # 1

- a) Pick up full opening valve or inside blowout preventor tool and stab into tool joint above rotary table (with Floor Man # 2).
- b) Tighten valve with back-up tongs.
- c) Close pipe rams after signal from Floor Man # 2.
- d) Read accumulator pressure and check for possible high pressure fluid leaks in valves or piping.
- e) Report to Driller for further instructions.

4. Floor Man # 2

- a) Pick-up full opening valve or inside blowout preventor tool and stab into tool joint above rotary table (with Floor Man # 1).
- b) Position back-up tongs on drill pipe.
- c) Open choke line valve at BOP.
- d) Signal Floor Man # 1 at accumulator that choke line is open.
- e) Close choke and upstream valve after pipe rams have been closed.
- f) Check for leaks on BOP stack and choke manifold.

- g) Read annular pressure.
- h) Report readings to the Driller.

5. Tool Pusher

- a) Report to the rig floor.
- b) Have a meeting with all of the crews.
- c) Compile and summarize all information.
- d) See that proper well kill procedures are put into action.

6. Operator Representative

- a) Notify Drilling Superintendent
- b) Determine if an emergency exists, and if so, activate the contingency plan.

IGNITION PROCEDURES

Responsibility:

The decision to ignite the well is the responsibility of the DRILLING FOREMAN in concurrence with the STATE POLICE. The State Police shall be the Incident Command on the scene of any major release. Intentional ignition must be coordinated with the NMOCD and local officials. In the event the Drilling Eoreman is incapacitated, it becomes the responsibility of the RIG TOOL PUSHER. This decision should be made only as a last resort and in a situation where it is clear that:

- 1. Human life and property are endangered.
- 2. There is no hope of controlling the blowout under the prevailing conditions.

If time permits, notify the main office, but do not delay if human life is in danger. Initiate the first phase of the evacuation plan.

Instructions for Igniting the Well:

- 1. Two people are required for the actual igniting operation. Both men must wear self-contained breathing apparatus and must use a full body harness and attach a retrievable safety line to the D-Ring in the back. One man must monitor the atmosphere for explosive gases with the LEL monitor, while the Drilling Foreman is responsible for igniting the well.
- 2. The primary method to ignite is a 25mm flare gun with a range of approximately 500 feet.
- 3. Ignite from upwind and do not approach any closer than is warranted.
- 4. Select the ignition site best suited for protection and which offers an easy escape route.
- 5. Before igniting, check for the presence of combustible gases.
- 6. After igniting, continue emergency actions and procedures as before.
- 7. All unassigned personnel will limit their actions to those directed by the Drilling Foreman.

NOTE: After the well is ignited, burning Hydrogen Sulfide will convert to Sulfur Dioxide (SO₂), which is also highly toxic. Do not assume the area is safe after the well is ignited.

TRAINING REQUIREMENTS

When working in an area where Hydrogen Sulfide (H₂S) might be encountered, definite training requirements must be carried out. The Company Supervisor will ensure that all personnel at the well site, whether regularly assigned, contracted, or employed on an unscheduled basis, have had adequate training by a qualified instructor in the following:

- 1. Hazards and Characteristics of Hydrogen Sulfide and Sulfur Dioxide.
- 2. Physicals effects of Hydrogen Sulfide on the human body.
- 3. Toxicity of Hydrogen Sulfide and Sulfur Dioxide.
- 4. H₂S detection, emergency alarm and sensor location.
- 5. Emergency rescue.
- 6. First aid and artificial resuscitation.
- 7. The effects of Hydrogen Sulfide on metals.
- 8. Location safety.

In addition, Supervisory Personnel will be trained in the following areas:

- 1. If high tensile tubular are to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well as well as blowout prevention and well control procedures.
- 3. The contents and requirements of the H₂S Drilling Operations Contingency Plan and the Public Protection Plan.

Service company personnel and visiting personnel must be notified if the zone contains H₂S, and each service company must provide adequate training and equipment for their employees before they arrive at the well site.

EMERGENCY EQUIPMENT

As stated in the BLM Onshore Order 6, for wells located in a known H_2S areas, H_2S equipment will be rigged up after setting surface casing. For wells located inside known H_2S areas, the flare pit will be located 150' from the location and for wells located outside known H_2S areas, the flare pit will be located 100' away from the location. (See page 6 of Survey plat package and diagram B or C.)

It is not anticipated that any H_2S is in the area, however in the event that H_2S is encountered, the attached H_2S Contingency Plan will be implemented. (Please refer to diagrams B or C for choke manifold and closed loop system layout.) See H_2S location layout diagram for location of all H_2S equipment on location.

All H_2S safety equipment and systems will be installed, tested and be operational when drilling reaches a depth of 500' above, or three days prior to penetrating a known formation containing H_2S .

Lease Entrance Sign:

Caution signs should be located at all roads providing direct access to the location. Signs shall have a yellow background with black lettering and contain the words "CAUTION" and "POISON GAS" that is legible from a distance of at least 50 feet.

LEASE NAME CAUTION – POTENTIAL POISON GAS HYDROGEN SULFIDE NO ADMITTANCE WITHOUT AUTHORIZATION

Windsocks or Wind Streamers:

- A minimum of two 10" windsocks located at strategic locations so that they may be seen from any point on location.
- Wind streamers (if preferred) should be placed at various locations on the well site to ensure wind consciousness at all times. (Corners of location)

Hydrogen Sulfide Detector and Alarms:

• H₂S monitors with alarms will be located on the rig floor, at the cellar, and at the mud pits. These monitors will be set to alarm at 10 PPM with a red light and to alarm at 15 PPM with a red light and audible alarm.

Well Condition Flags:

The Well Condition flags should be located at all roads providing direct access to the location. It should have three (3) color coded flags (green, yellow and red) that will be used to denote the following location conditions:

GREEN – Normal Operating Conditions YELLOW – Potential Danger RED – Danger, H₂S Gas Present

Respiratory Equipment:

- Fresh air breathing equipment should be placed at the company supervision trailer and the safe briefing areas and should include the following:
 - A minimum of two SCBA's at each briefing area and the supervisor company supervision trailer.
 - Enough air line units to operate safely, anytime the H₂S concentration reaches the IDLH level (100 PPM).
 - Cascade system with enough breathing air hose and manifolds to reach the rig floor, the derrickman and the other operation areas.

Fire Extinguishers:

Adequate fire extinguishers shall be located at strategic locations.

Mud Program:

The mud program has been designed to minimize the volume of H_2S circulated to the surface. Proper mud weight, safe drilling practices and the use of H_2S scavengers will minimize hazards when penetrating H_2S bearing zones.

Metallurgy:

All drill strings, casing, tubing, wellhead; blowout preventer, drilling spools, kill lines, choke manifold and lines, and valves shall be suitable for H_2S service.

Well Control Equipment:

- Flare Line (See page 6 of survey plat package for flare line reference).
- Choke manifold (See diagram B or C and refer to H2S location diagram for location of important H2S safety items).
- Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing units.
- Auxiliary equipment may include, if applicable, annular preventer & rotating head.

Communication Equipment:

 Proper communication equipment such as cell phones or 2 – way radios should be available for communication between the company man's trailer, rig floor and tool pusher's trailer.

Well Testing:

There will be no drill stem testing.

Evacuation Plan:

- Evacuation routes should be established prior to spudding the well.
- Should be discussed with all rig personnel.

Designated Areas:

Parking and Visitor area:

- All vehicles are to be parked at a pre-determined safe distance from the wellhead.
- A smoking area will be designated at a pre-determined safe distance from the wellhead and any other possible flammable areas.

Safe Briefing Areas:

 Two Safe Briefing Areas shall be designated on either side of the location at the maximum allowable distance from the well bore so they offset
 prevailing-winds-or-they-are-at-a-180-degree-angle-if-wind-directions-tendto shift in the area. Personal protective equipment should be stored at both briefing areas or if a moveable cascade trailer is used, it should be kept upwind of existing winds. When wind is from the prevailing direction, both briefing areas should be accessible.

NOTE:

Additional equipment will be available at Indian Fire and Safety in Hobbs,
 NM or at Total Safety in Hobbs, NM.

EVACUATION PLAN

General Plan

The direct lines of action to protect the public from hazardous gas situations are as follows:

- 1. When the company approved supervisor (Drilling Foremen, Tool Pusher or Driller) determine that Hydrogen Sulfide gas cannot be limited to the well location, and the public will be involved, he will activate the evacuation plan. Escape routes are noted on the Area Map.
- 2. Company safety personnel or designee will notify the appropriate local government agency that a hazardous condition exists and evacuation needs to be implemented.
- 3. Company approved safety personnel that have been trained in the use of the proper emergency equipment will be utilized.
- 4. Law enforcement personnel (State Police, Local Police Department, Fire Department, and the Sheriff's Department) will be called to aid in setting up and maintaining road blocks. Also, they will aid in evacuation of the public if necessary.

NOTE: Law enforcement personnel will not be asked to come into a contaminated area. Their assistance will be limited to uncontaminated areas. Constant radio contact will be maintained with them.

5. After the discharge of gas has been controlled, Company approved safety personnel will determine when the area is safe for re-entry.

See Emergency Action Plan

Contacting Authorities

BOPCO L.P. personnel must liaison 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. (Operator Name)'s response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

H₂S CONTINGENCY PLAN EMERGENCY CONTACTS

BOPCO L.P. Midland Office

432-683-2277

Kev P	ersonnel			
<u></u>	Name	Title	Cell Phone	<u>Number</u>
	Stephen Martinez	Drilling & Completions Manager	432-55	6-0262
	Charles Warne	Division Engineer	432-31	2-4431
	Don Wood	Division Drilling Specialist	432-26	
	Leo Bojorquez	Area Drilling Superintendent	702-28	0-44 ⁴ 24
	Chris Giese	Engineer	432-66	1-7328
	Chris Volek	Engineer	785-97	9-2643
	Brian Braun	Engineer	210-68	3-9849
	Jeremy Braden	Engineering Assistant	432-31	2-1113
	<u>Artesia</u>			
	Ambulance		911	
	State Police		575-74	6-2703
	City Police		575-74	6-2703
	Sheriff's Office		5/5-/4	6-9888
	Fire Department		575-74	6-2701
	Local Emergency Pla	nning Committee	575-74	6-2122
		ervation Division		
	Carlsbad			
	Ambulance		911	•
	State Police		575-88	5-3137
	City Police		575-88	5-2111
	Sheriff's Office		575-88	
	Fire Department		575-88	7-3798
		nning-Committee	575-88	7-6544
•	US Bureau of Land M	anagement	575-88	7-6544
	New Mexico Emergen	cy Response Commission (Santa	Fe)	_505-476-9600
	24 Hour			_505-827-9126
		ergency Operations Center		_505-476-9635
	National Emergency F	Response Center (Washington, DC)	_800-424-8802
	Other			
	Wild Well Control	4	32-550-6202	(Permian Basin)
	Cudd PressureContro	ol432-580-3544 or 4	32-570-5300	(Permian Basin)
	Flight For Life – 4000	24th St. Lubbock, Texas		_806-743-9911
	Aerocare - R3, Box 49	PF, Lubbock, Texas		806-747-8923
	Med-Flight-Air-Amb	2301_Yale-Blvd-SE-#D3,-Albuq.,-NN	1	_505=842-4433
	S B Air Med Service -	2505 Clark Carr Loop SE, Albuq.,	NM	505-842-4949
	Indian Fire and Safety	y – 3317 NW Cnty Rd, Hobbs, NM_		575-393-3093

	Total Safety – 3229	Industrial Dr., Hob	obs, NM		_575-392-2973	
					·	
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		• .				
•	·					·

TOXIC EFFECTS OF HYDROGEN SULFIDE

Hydrogen Sulfide is extremely toxic. The acceptable ceiling concentration for eight-hour exposure is 10 PPM, which is .001% by volume. Hydrogen Sulfide is heavier than air (specific gravity = 1.192) and colorless. It forms an explosive mixture with air between 4.3 and 46.0 percent by volume. Hydrogen sulfide is almost as toxic as hydrogen cyanide and is between five and six times more toxic than carbon monoxide. Toxicity data for hydrogen sulfide and various other gases are compared in Table I. Physical effects at various Hydrogen Sulfide exposure levels are shown in Table II.

Table I - TOXICITY OF VARIOUS GASES

Common	Chemical	Specific	Threshold	Hazardous	Lethal
Name	Formula	Gravity	Limit	Limit	Concentration
		(SC=1)	(1)	(2)	(3)
Hydrogen Cyanide	HCN	0.94	10 PPM	150 PPM/HR	300 PPM
Hydrogen Sulfide	H2S	1.18	10 PPM	250 PPM/HR	600 PPM
Sulfur Dioxide	SO2	2.21	5 PPM		1000 PPM
Chlorine	CL2	2.45	1 PPM	4 PPM/HR	1000 PPM
Carbon Monoxide	СО	0.97	50 PPM	400 PPM/HR	1000 PPM
Carbon Dioxide	CO2	1.52	5000 PPM	5%	10%
Methane	CH4	0.55	90,000 PPM	Combustible in air	Above 5%

- 1) Threshold Limit Concentration at which it is believed that all worker may be repeatedly exposed day after day without adverse effects.
- 2) Hazardous Limit Concentration that will cause death with short-term exposure.
- 3) Lethal Concentration Concentration that will cause death with short-term exposure.

Table II - PHYSICAL EFFECTS OF HYDROGEN SULFIDE

Percent (%)	PPM	Concentration Grains 100 STD. FT3*	Physical Effects
0.001	< 10	00.65	Obvious & unpleasant odor.
0.002	10	01.30	Safe for 8 hours of exposure:
0.010	100	06.48	Kills smell in 3-15 minutes. May sting eyes & throat.
0.020	200	12.96	Kills smell shortly; stings eyes & throat.
0.050	500	32.96	Dizziness; Breathing ceases in a few minutes. Needs prompt artificial respiration.
0.070	700	45.36	Unconscious quickly; Death will result if not rescued promptly.
0.100	1000	64.30	Unconscious at once; Followed by death within minutes.

• At 15.00 PSIA and 60° F.

USE OF SELF-CONTAINED BREATHING APPARATUS

- Anyone who uses an SCBA shall: Be approved by a physician or licensed health care practitioner; Pass a fit test; Be trained in donning and doffing, proper use, including how to ensure a proper face seal, conducting an inspection of the SCBA, and conduct proper maintenance.
- Such items as facial hair (beard or sideburns) and eyeglasses will not allow a proper face mask seal.
- 3. Anyone reasonably expected to wear SCBA's shall have these items removed before entering a toxic atmosphere.
- 4. A special mask with a mount for prescription glasses must be obtained for anyone who must wear eyeglasses in order to see while using an SCBA.
- 5. SCBA's should be worn in H₂S concentrations above 10 PPM.

RESCUE & FIRST AID FOR H2S POISONING

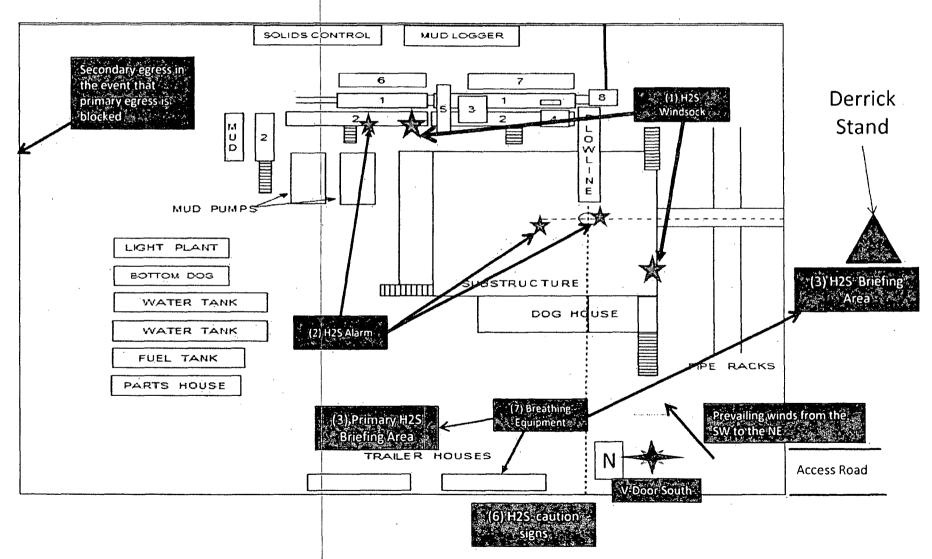
DO NOT PANIC - REMAIN CALM - THINK

- 1. Hold your breath do not inhale first.
- 2. Put on SCBA.
- 3. Remove victim(s) to fresh air as quickly as possible. Go upwind from source or at right angle to the wind. Do not go downwind.
- 4. Briefly apply chest pressure using arm lift method of artificial respiration to clean victim's lungs and to avoid inhaling any toxic gas directly from victim's lungs.
- 5. Provide artificial respiration if needed.
- 6. Provide for prompt transportation to the hospital and continue giving artificial respiration if needed.
- 7. Inform hospital/medical facilities of the possibility of H2S gas poisoning before they treat.

Besides basic first aid, everyone on location should have a good working knowledge of artificial respiration and CPR, as well as first aid for eyes and skin contact with liquid H₂S.

Proposed H2S Safety Schematic

- 1) Location of windsocks.
- 4) Terrain of surrounding area (Please refer to page 2 of survey plat package also see point 11 of multi-surface use plan)
- 2) Location of H2S alarms
- 5) Location of flare line(s) and pit(s) (Please refer to diagram 2 choke manifold diagram and or page six of survey plat packet)
- 3) Location of briefing areas.
- 6) Location of caution and/or danger signs.
- (7) Location of Breathing Equipment



Location On-Site Notes

Location on-site conducted by Todd Carpenter-BOPCO L.P., Jesse Rice-BLM, and Jose-Basin Surveys on 10/25/13. The Poker Lake Unit #430H was approved with surface footage calls of 300' FSL & 1800' FWL of Sec 14 T24S-R30E Location layout is as follows: v-door will face the south, frac tank pad will be on the east/northeast corner; access road will enter-location-from the west/southwest-corner-and-topsoil will be stockpiled to the south side of location.

MULTI-POINT SURFACE USE PLAN

NAME OF WELL: Poker Lake Unit #430H

LEGAL DESCRIPTION

SURFACE: 300' FSL, 1800' FWL, Section 14, T24S, R30E, Eddy County, NM.

BHL: 500' FNL, 1700' FWL, Section 10, T24S, R30E, Eddy County, NM.

POINT 1: EXISTING ROADS

A) Proposed Well Site Location:

See Form C-102 (Survey Plat).

B) Existing Roads:

From Highway 128 and Twin Wells, go south 8.0 miles to lease road, go west 0.9 miles turning north 0.1 miles to proposed lease road.

C) Existing Road Maintenance or Improvement Plan:

Existing roads will be maintained and kept in the same or better condition than before operations began. See the Well Pad Layout and Topo Map of the survey plat (Sheet 1 and 2 of plat package)

POINT 2: NEW PLANNED ACCESS ROUTE

A) Route Location:

There will be 67.6' of new road built. (See the Well Pad Layout of the survey plat (Sheet 1 of plat package).

B) Width

14' wide

C) Maximum Grade

Grade to match existing topography or as per BLM requirements.

D) Turnout Ditches

As required by BLM stipulations.

E) Culverts, Cattle Guards, and Surfacing Equipment

If required, culverts and cattle guards will be set per BLM Specs.

POINT 3: LOCATION OF EXISTING WELLS

The following wells are located within a one-mile radius of the location site. See the One-Mile Radius Map (Sheet 5 of the plat package).

Existing wells	2	(Two)
Water wells	4	(Four)

POINT 4: LOCATION OF EXISTING OR PROPOSED FACILITIES

- A) A BOPCO, L.P. operated production facility is located within the ideal operating range of the PLU #430H.
- B) In the Event of Production:

PLU #430H will pipe production to PLU #261 Battery (located in Sec 21, T24S, R30E). A new 2-7/8" or 3-1/2" in diameter steel flowline is to be run above ground, approx. 2.25 miles in length. The flowline is expected to carrying oil, water, and gas.

- Youer is already available on location. and 4.28.14

B) Rehabilitation of Disturbed Areas Unnecessary for Production:

See Point 10

POINT 5: LOCATION AND TYPE OF WATER SUPPLY

A) Location and Type of Water Supply

Fresh water will be hauled from Johnson Station 50 miles east of Carlsbad, New Mexico or other commercial facilities. Brine water will be hauled from commercial facilities.

B) Water Transportation System

Water hauling to the location will be over the existing and proposed roads.

POINT 6: SOURCE OF CONSTRUCTION MATERIALS

A) Materials

On-site caliche will be used. If this is not sufficient, caliche will be hauled from a BLM approved pit.

- B) Land Ownership Federally Owned
- C) Materials Foreign to the Site

C) Materials Foreign to the Site

No construction materials foreign to this area are anticipated for this drill site.

D) Access Roads

See the Well Pad Layout and Aerial Map of the survey plat (Sheet 1 and 4 of plat package).

POINT-7: METHODS FOR HANDLING WASTE MATERIAL.

A) Cuttings

Cuttings will be contained in the roll off bins and disposed at R360 Environmental located in Lea County, NM.

B) Drilling Fluids

Drilling fluids will be contained in the steel pits, frac tanks and disposed at licensed disposal sites.

C) Produced Fluids

Water production will be contained in the steel pits.

Hydrocarbon fluid or other fluids that may be produced during testing will be retained in test tanks. Prior to cleanup operations, any hydrocarbon material in the reserve pit will be removed by skimming or burning as the situation would dictate.

D) Sewage

Current laws and regulations pertaining to the disposal of human waste will be complied with.

E) Garbage

Portable containers will be utilized for garbage disposal during the drilling of this well.

F) Cleanup of Well Site

Upon release of the drilling rig, the surface of the drilling pad will be graded to accommodate a completion rig if electric log analysis indicate potential productive zones. Reasonable cleanup will be performed prior to the final restoration of the site.

POINT-8: ANCILLARY-FACILITIES-

None required.

POINT 9: WELL SITE LAYOUT

A) Rig Orientation and Layout

The "Rig Layout Schematic" (Sheet 6 of plat package) shows the dimensions of the well pad, closed loop system, and the location of major rig components. Only minor leveling of the well site will be required. No significant cuts or fills will be necessary. The top soil will be stockpiled on the south side of the location.

B) Locations of Access Road

See the Well Pad Layout, Topo Map, and Vicinity Map of the survey plat (Sheet 1, 2, and 3 of plat package).

C) Lining of the Pits

No reserve pits - closed loop system.

POINT 10: PLANS FOR RESTORATION OF THE SURFACE

- A) Reserve Pit Cleanup Not applicable. Closed loop drilling fluid system will be used
- B) Restoration Plans Production Developed

BOPCO, L.P. has no plans for interim reclamation to allow for additional wells to be drilled on this pad

C) Restoration Plans - No Production Developed

BOPCO, L.P. has no plans for interim reclamation to allow for additional wells to be drilled on this pad

POINT 11: OTHER INFORMATION

A) On-Site

Location on-site conducted by Todd Carpenter-BOPCO L.P., Jesse Rice-BLM, and Jose-Basin Surveys on 10/25/13. The Poker Lake Unit #430H was approved with surface footage calls of 300' FSL & 1800' FWL of Sec 14 T24S-R30E Location layout is as follows: v-door will face the south, frac tank pad will be on the east/northeast corner, access road will enter location from the west/southwest corner and topsoil will be stockpiled to the south side of location.

B)-Soil-

Caliche and sand.

C) Vegetation

Sparse, primarily grasses and mesquite with very little grass.

D) Surface Use

Primarily grazing.

E) -- Surface Water

There are no ponds, lakes, streams or rivers within several miles of the wellsite.

F) Water Wells

There are no water wells located within a 1 mile radius of the proposed location.

G) Residences and Buildings

None in the immediate vicinity.

H) Historical Sites

None observed.

I) Archeological Resources

No independent archeological survey has been done. This well location is located in the area covered by Memorandum of Agreement – Permian Basin. A Payment of \$1,507.00 fee for this project is included in this application. Any location or construction conflicts will be resolved before construction begins. Please see diagram 4 for flowline route.

J) Surface Ownership

The well site is on federally owned land. There will be 67.6' of new road required for this location.

- K) Well signs will be posted at the drilling site.
- L) Open Pits

No open pits will be used for drilling or production. Any open top tanks will be netted.

M) Terrain

Slightly rolling hills.

POINT 12: OPERATOR'S FIELD REPRESENTATIVE

(Field personnel responsible for compliance with development plan for surface use).

DRILLING Stephen Martinez Box 2760 Midland, Texas 79702 (432) 683-2277 PRODUCTION
Gary Fletcher
3104 East Green Street
Carlsbad, New Mexico 88220
(575) 887-7329

Eritz Schoch Box 2760 Midland, Texas 79702 (432) 683-2277

CJL

Form NM 8140-9 (March 2008)

United States Department of the Interior Bureau of Land Management New Mexico State Office

Permian Basin Cultural Resource Mitigation Fund

The company shown below has agreed to contribute funding to the Permian Basin Cultural Resource Fund in lieu of being required to conduct a Class III survey for cultural resources associated with their project. This form verifies that the company has elected to have the Bureau of Land Management (BLM) follow the procedures specified within the Memorandum of Agreement (MOA) concerning improved strategies for managing historic properties within the Permian Basin, New Mexico, for the undertaking rather than the Protocol to meet the agency's Section 106 obligations.

Company Name:	BOPCO, L.P.	•		
	D O D 27	. 0		
Address:	P. O. Box 276	50		
	Midland, Tex	as 79702		
Project description: Po				
T, <u>24S</u> , R <u>30</u>	E, Section	14 NMPM,	<u>Eddy</u> Cor	unty, New Mexico
Amount of contribution:	\$1,507.00	_		

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	BOPCO, L.P.
	NMLC-068905
WELL NAME & NO.:	Poker Lake Unit 430H
SURFACE HOLE FOOTAGE:	0300' FSL & 1800' FWL
BOTTOM HOLE FOOTAGE	0500' FNL & 1700' FWL Sec. 10, T. 24 S., R 30 E.
LOCATION:	Section 14, T. 24 S., R 30 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
Lesser Prairie-Chicken Timing Stipulations
Ground-level Abandoned Well Marker
Commercial Well Determination
Unit Well Sign Specs
☐ Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
☑ Drilling
Secretary's Potash
Cement Requirements
Medium 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)

LPC: Conditions of Approval

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 1 through June 15 annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and 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 ft. from the source of the noise.

Upon abandonment, a low profile abandoned well marker will be installed to prevent raptor perching.

The proponent of the proposed action is a Participating Cooperator in the Candidate Conservation Agreement (CCA) for the lesser prairie-chicken (*Tympanuchus pallidicinctus*) and dunes sagebrush lizard (*Sceloporus arenicolus*).

The goal of the Bureau of Land Management (BLM), U.S. Fish and Wildlife Service (USFWS), Center of Excellence for Hazardous Materials Management (CEHMM) and the Participating Cooperator is to reduce and/or eliminate threats to the LPC and/ or SDL. By agreeing to conduct the conservation measures described by the CCA, and contribute funding or providing in-kind services for conservation.

The Certificate of Participation (CP) associate with the CCA is voluntary between CEHMM, BLM, USFWS and the Participating Cooperator. Through the CP, the Participating Cooperator voluntarily commits to implement or fund specific conservation actions that will reduce and/or eliminate threats to the SDL and /or the LPC. Funds contributed as part of the CP will be used to implement conservation measures and associated activities. The funds will be directed to the highest priority projects to restore or reclaim habitat at the sole discretion of BLM and USFWS.

The following Conservation Measures are to be accomplished in addition to those described in the CCA and Pecos District Special Status Species Resource Management Plan Amendment (RMPA):

1. To the extent determined by the BLM representative at the Plan of Development stage, all infrastructures supporting the development of a well

- (including roads, power lines, and pipelines) will be constructed within the same corridor.
- 2. On enrolled parcels that contain inactive wells, roads and/or facilities that are not reclaimed to current standards, the Participating Cooperator shall remediate and reclaim their facilities within three years of executing this CP, unless the Cooperator can demonstrate they will put the facilities back to beneficial use for the enrolled parcel(s). If an extension is requested by the Cooperator, they shall submit a detailed plan (including dates) and receive BLM approval prior to the three year deadline. All remediation and reclamation shall be performed in accordance with BLM requirements and be approved in advance by the Authorized Officer.
- 3. Utilize alternative techniques to minimize new surface disturbance when required and as determined by the BLM representative at the Plan of Development stage.
- 4. Install fence markings along fences owned, controlled, or constructed by the Participating Cooperator that cross through occupied habitat within two miles of an active LPC lek.
- 5. Bury new powerlines that are within two (2) miles of LPC lek sites active at least once within the past 5 years (measured from the lek). The avoidance distance is subject to change based on new information received from peer reviewed science.
- 6. Bury new powerlines that are within one (1) mile of historic LPC lek sites where at least one LPC has been observed within the past three years (measured from the historic lek). The avoidance distance is subject to change based on new information received from peer reviewed science.
- 7. Management recommendations may be developed based on new information received from peer reviewed science to mitigate impacts from H2S and/or the accumulation of sulfates in the soil related to production of gas containing H2S on the SDL and LPC. Such management recommendations will be applied by the Participating Cooperator as Conservation Measures under this CI/CP in suitable and occupied SDL/LPC habitat where peer-reviewed science has shown that H2S levels threaten the LPC/SDL.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months.

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number 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

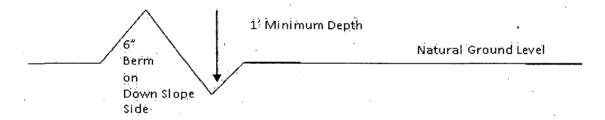
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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

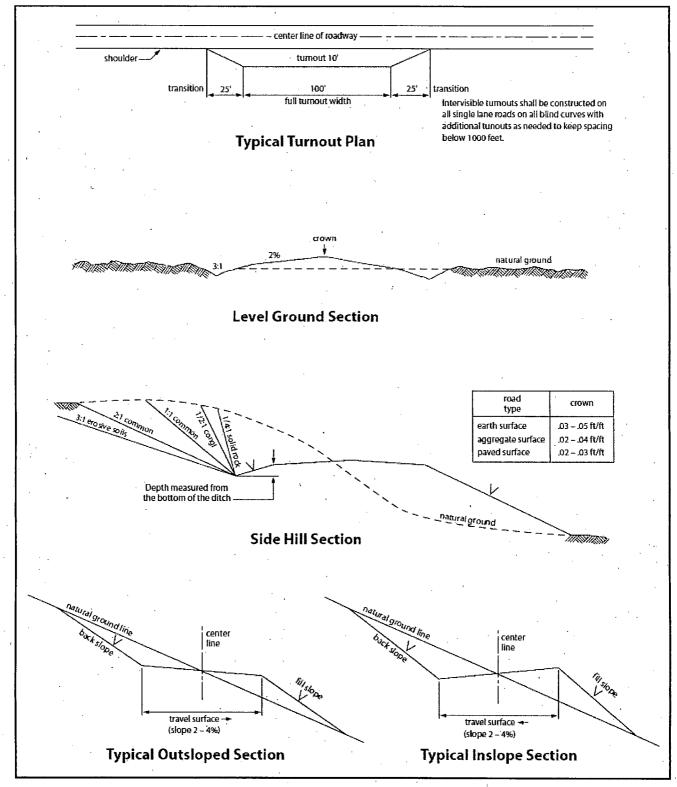


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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 encountered in quantities greater than 10 PPM the well shall be shut in and H2S equipment shall be installed and flare line must be extended pursuant to Onshore Oil and Gas Order #6. Report measured values and formation to the BLM. After detection, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items.
- 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) 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.

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

- 1. The 13-3/8 inch surface casing shall be set at approximately 900 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.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst and potash.

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

Centralizers required through the curve and a minimum of one every other joint.

3. The minimum required fill of cement behind the 7 inch production casing is:

Operator has proposed DV tool at depth of 5000', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range.

- a. First stage to DV tool:
- □ Cement to circulate. If cement does not circulate, contact the appropriate
 □ BLM office before proceeding with second stage cement job. Operator should
 have plans as to how they will achieve approved top of cement on the next
 stage.
- b. Second stage above DV tool:
- Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash.
- 4. Cement not required on the 4-1/2" casing. Packer system being used.
- 5. 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. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Operator shall perform the 9-5/8" and 7" casing integrity tests to 70% of the casing burst. This will test the multi-bowl seals.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In potash areas, 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. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time.

- b. The tests shall be done by an independent service company utilizing a test plug **not** a **cup or J-packer**.
- 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 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

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 activity of 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. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:
 - a. Activities of the holder including, but not limited to construction, operation, maintenance, and termination of the facility.
 - b. Activities of other parties including, but not limited to:
 - (1) Land clearing.

- (2) Earth-disturbing and earth-moving work.
- (3) Blasting.
- (4) Vandalism and sabotage.
- c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

- 5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, 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, salt water, or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the 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 the holder of any responsibility as provided herein.
- 6. All construction and maintenance activity will be confined to the authorized right-of-way width of _______ feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline must be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline must be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity will be confined to existing roads or right-of-ways.
- 7. No blading or clearing of any vegetation will be allowed unless approved in writing by the Authorized Officer.
- 8. The holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline will be "snaked" around hummocks and dunes rather then suspended across these features.
- 9. The pipeline shall be buried with a minimum of <u>24</u> inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

- 10. 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.
- 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. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.
- 13. 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. Signs will be maintained in a legible condition for the life of the pipeline.
- 14. 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. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.
- 15. 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 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.
- 16. 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, powerline 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.

17. Surface pipelines must be less than or equal to 4 inches and a working pressure below 125 psi.

18. Special Stipulations:

a. <u>Lesser Prairie-Chicken:</u> Oil and gas activities 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 and 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. Normal vehicle use on existing roads will not be restricted.

C. ELECTRIC LINES

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.

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, geophysical exploration other than 3-D operations, and 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 ft. from the source of the noise.

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 for LPC Sand/Shinnery 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:

Species	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

^{*}Pounds of pure live seed:

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