

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONSERVATION
OCD Artesia

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS AUG 21 2015
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM02860
2. Name of Operator BOPCO LP Contact: WHITNEY MCKEE E-Mail: wbmckee@basspet.com		6. If Indian, Allottee or Tribe Name
3a. Address P O BOX 2760 MIDLAND, TX 79702	3b. Phone No. (include area code) Ph: 432-683-2277	7. If Unit or CA/Agreement, Name and/or No. 891000303X
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 21 T24S R30E NWNE 65FNL 2410FEL 32.123662 N Lat, 103.530565 W Lon		8. Well Name and No. POKER LAKE UNIT CVX JV PC 20H
		9. API Well No. 30-015-42668-00-X1
		10. Field and Pool, or Exploratory UNDESIGNATED
		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

BOPCO, L.P. respectfully requests to change the 7? production and 4-1/2? liner casing point, cement volumes and directional plan changes on the Poker Lake Unit CVX JV PC #020H.

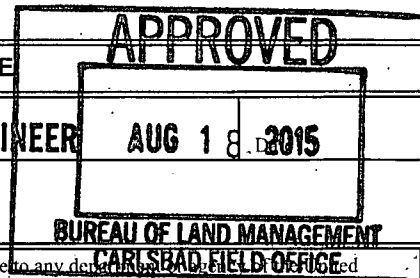
**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

AND 9/2/15
Approved in record
MCKEE

14. I hereby certify that the foregoing is true and correct. Electronic Submission #289599 verified by the BLM Well Information System For BOPCO LP, sent to the Carlsbad Committed to AFMSS for processing by MARISSA KLEIN on 06/19/2015 (15MGK0149SE)	
Name (Printed/Typed) DON WOOD	Title DRILLING ENGINEER
Signature (Electronic Submission)	Date 01/27/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By Charles Nimmer	Title PETROLEUM ENGINEER
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	
Office	



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.

BOPCO, L.P. respectfully requests to change the 7" production and 4-1/2" liner casing point, cement volumes and directional plan changes on the Poker Lake Unit CVX JV PC #020H.

This table details the casing point changes:

Casing Design and Hole Size

TYPE	Previous Csg Pt.	New Csg Pt.	PURPOSE	INSTALLATION TYPE
7", 26#, HCP-110 BTC	0-10,051'	0-10,354'	No change	New
4-1/2", 11.6#, HCP-110 BTC	9,951-15,914'	10,254-16,106'	No change	No change

hole size
4 3/4"
6 1/8"

This table details the 7" production casing and 4-1/2" completion liner cement volume and design changes and DV tool setting depth change:

Cement Design

INTERVAL	SACKS	FT of FILL	TYPE	GAL/SX	PPG	FT3/SX
7" PRODUCTION:						
Stage 1						
Lead: 5,800-9,854'	455	4,054'	VERSACEM "H" + 0.6% HR-601, 10% Bentonite, 0.125 lbm Poly-E-Flake, 0.50 lbm D-AIR 5000	13.27	11.9	2.293
Tail: 9,854-10,354'	95	500	VERSACEM "H" + 0.50% LAP-1, 0.10% FWCA, 0.30% CFR-3, 0.2% HR-601, 0.125 lbm Poly-E-Flake, 0.50 lbm D-AIR 5000	5.59	14.5	1.233
DV Tool @ 5,800'						
Stage 2						
Lead: 3,313-5,500'	230	2,187'	VERSACEM "C" + 10% Bentonite, 0.5 lbm D- AIR 5000, 0.125 lb/sk Poly-E-Flake	13.05	11.9	2.266
Tail: 5,500-5,800	90	300	HALCEM "C"	6.34	14.8	1.326
4-1/2" Completion Liner						
Primary: 16,106-10,054'	545	6,052'	VERSACEM + 0.50% LAP-1, 0.10% FWCA, 0.30% CFR-3, 0.25% HR-601, 0.125 lbm Poly-E-Flake, 0.50 lbm D-AIR 5000	5.61	14.5	1.234

Cement excesses on the 7" production casing Stage 1 are 30% on the tail slurry and 70% on the lead slurry. The 7" production casing Stage 2 lead and tail excesses are 70% over hole volume. Cement excesses are 30% over hole volume on the 4-1/2" completion liner cement job.

The revised directional plan is attached to this document.

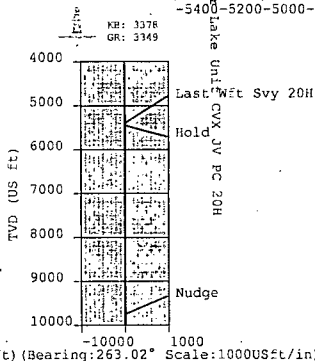
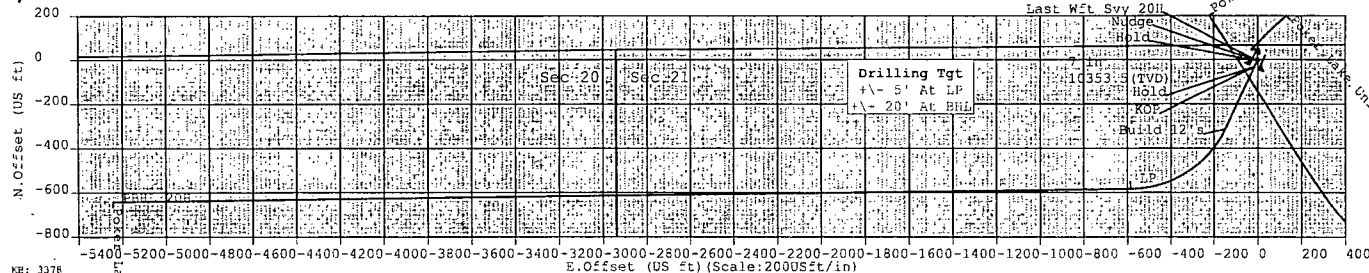
Pro posed

BOPCO, L.P.

Poker Lake Unit CVX JV PC 20H

Eddy Co, NM

Poker Lake Unit CVX JV PC 20H
Poker Lake Unit CVX JV PC 19H
Poker Lake Unit 293 2H



Plan Data for Poker Lake Unit CVX JV PC 20H

Plan Point Information:

Dogleg Severity Unit: */100.00ft	Inc	As	TVD	W/-S	E/W	Northings	Eastings	VME	DLS
(USft)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)
5400.00	0.44	20.37	5405.83	-5.46	-3.71	442464.44	638889.59	4.34	0.67
5450.00	0.00	0.00	5449.98	-5.30	-3.65	442464.60	638889.65	4.27	1.00
9754.72	0.00	0.00	9761.60	-5.30	-3.65	442464.60	638889.65	4.27	0.00
10354.72	6.00	205.36	10353.50	-33.67	-17.00	440436.23	638675.21	21.06	1.00
10364.77	6.00	205.36	10363.50	-34.62	-17.54	440435.28	638674.76	21.62	0.00
10496.11	70.00	205.36	10492.75	-316.11	-150.98	410213.76	638541.32	158.28	12.00
11447.58	90.50	269.28	10863.31	-583.03	-583.26	435885.87	638107.04	651.77	12.00
16105.67	90.90	269.28	10790.00	-641.90	-5242.40	439828.00	633449.90	5281.55	0.00

Plan Data for Poker Lake Unit CVX JV PC 20H

Slot: Poker Lake Unit CVX JV PC 20H

Position:

Offset is from Site centre

Northings: 440469.90USft Latitude: 32°12'36.6"

Eastings: 638692.30USft Longitude: -103°53'5.7"

Elevation Above VRD: 3349.00USft

Plan Data for Poker Lake Unit CVX JV PC 20H

Well: Poker Lake Unit CVX JV PC 20H

Type: Main-Well

File Number:

Plan Folder: P3 Plan: P1-V1

Vertical Section: Position offset of origin from Slot centre:

W/-S: 0.00USft Azimuth: 263.00°

E/W: 0.00USft

Manometric Parameters:

Model: Field Screen; Destination: Dips: Date: 2015-02-15

BSOM: 48178(m)

Plan Data for Poker Lake Unit CVX JV PC 20H

Target Set Information:

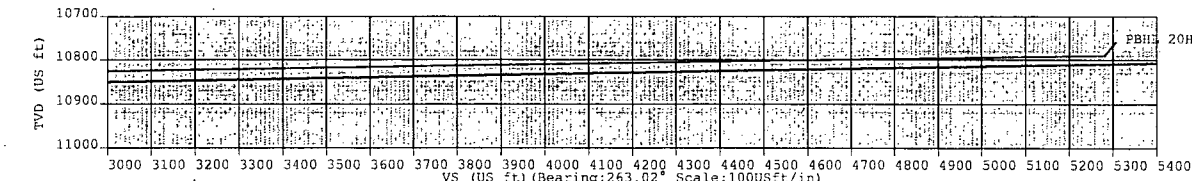
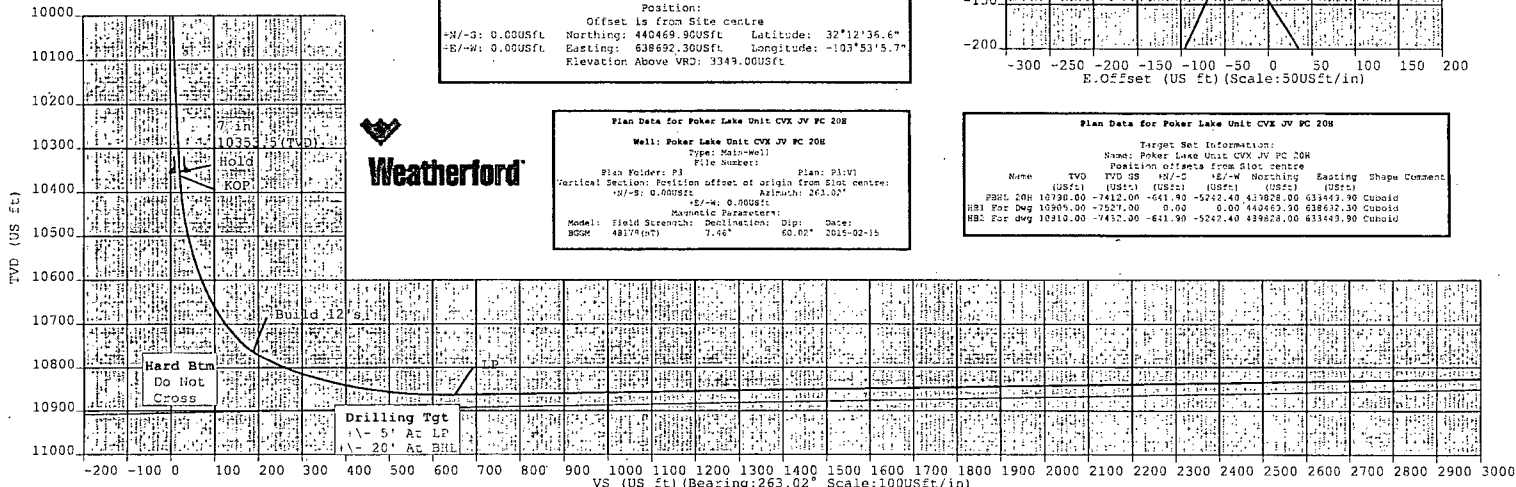
Name: TVD 38 W/-S E/W Northings Eastings Shape Comment

Position offsets from Slot centre

PBHL 20H 10736.00 -7412.00 -661.90 -5242.40 439828.00 633449.90 Cuboid

HBI For Dwg 10905.00 -7527.00 0.00 0.00 440463.00 638672.30 Cuboid

HBC For Dwg 10910.00 -7412.00 -661.90 -5242.40 439828.00 633449.90 Cuboid



Sign Off: Russell Joyner

5D Plan Report**BOPCO, L.P.**

Field Name: *Eddy Co, NM Nad27 NMEZ*
Site Name: *Poker Lake Unit CVX JV PC 19H,20H Pad*
Well Name: *Poker Lake Unit CVX JV PC 20H*
Plan: *P3:V1*

26 January 2015

**Weatherford®**

Poker Lake Unit CVX JV PC 20H

Field Name Eddy Co, NM Nad27 NMEZ	Map Units : US ft		Company Name : BOPCO, L.P.	
	Vertical Reference Datum (VRD) : Mean Sea Level			
	Projected Coordinate System : NAD27 / New Mexico East			
	Comment :			
Site Name Poker Lake Unit CVX JV PC 19H-20H Pad	Units : US ft	North Reference : Grid	Convergence Angle : 0.24	
	Position	Northing : 440469.90 US ft	Latitude : 32° 12' 36.62"	
		Easting : 638692.30 US ft	Longitude : -103° 53' 5.67"	
	Elevation above Mean Sea Level: 3349.00 US ft			
Comment :				
Slot Name Poker Lake Unit CVX JV PC 20H	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft	Northing : 440469.90 US ft	Latitude : 32° 12' 36.62"	
	+E / -W : 0.00 US ft	Easting : 638692.30 US ft	Longitude : -103° 53' 5.67"	
	Slot TVD Reference : Ground Elevation			
Elevation above Mean Sea Level : 3349.00 US ft				
Comment :				
Well Name Poker Lake Unit CVX JV PC 20H	Type : Main well		UWI :	Plan : P3:V1
	Rig Height Kelly Bushing : 29.00 US ft		Comment :	
	Relative to Mean Sea Level: 3378.00 US ft			
	Closure Distance : 5281.55 US ft		Closure Azimuth : 263.019°	
	Vertical Section (Position of Origin Relative to Slot)			
	+N / -S : 0.00 US ft		+E / -W : 0.00 US ft	Az : 263.02°
	Magnetic Parameters			
	Model : BGGM	Field Strength : 48179.4nT	Dec : 7.46°	Dip : 60.02° Date : 15/Feb/2015

Target Set

Name : Poker Lake Unit CVX **Number of Targets :** 3
JV PC 20H

Comment :

Target Name: PBHL-20H	Position (Relative to Slot centre)			
	+N / -S : -641.90US ft	Northing : 439828.00 US ft	Latitude : 32° 12' 30.48"	
	+E / -W : -5242.40 US ft	Easting : 633449.90US ft	Longitude : -103° 54' 6.71"	
	TVD (Kelly Bushing) : 10790.00 US ft			
Shape: Cuboid	Orientation Azimuth : 0.00°		Inclination : 0.00°	
	Dimensions Length : 0.00 US ft	Breadth : 0.00 US ft	Height : 0.00 US ft	

5D Plan Report

Target Name:	Position (Relative to Slot centre)		
HB1 For Dwg	+N / -S : 0.00 US ft	Northing : 440469.90 US ft	Latitude : 32°12'36.62"
	+E / -W : 0.00 US ft	Easting : 638692.30 US ft	Longitude : -103°53'5.67"
Shape:	TVD (Kelly Bushing) : 10905.00 US ft		
Cuboid	Orientation Azimuth : 263.13°	Inclination : 1.03°	
	Dimensions Length : 6000.00 US ft	Breadth : 0.00 US ft	Height : 1.00 US ft

Target Name:	Position (Relative to Slot centre)		
HB2 For dwg	+N / -S : 641.90 US ft	Northing : 439828.00 US ft	Latitude : 32°12'30.48"
	+E / -W : 5242.40 US ft	Easting : 633449.90 US ft	Longitude : -103°54'6.71"
Shape:	TVD (Kelly Bushing) : 10810.00 US ft		
Cuboid	Orientation Azimuth : 263.13°	Inclination : 1.03°	
	Dimensions Length : 8000.00 US ft	Breadth : 0.00 US ft	Height : 1.00 US ft

Casing Points (Relative to Slot centre, TVD relative to Kelly Bushing)									
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	Northing (US ft)	Easting (US ft)	Name	
10354.72	6.00	205.36	10353.50	-33.67	-17.09	440436.23	638675.21	7 in	

Well path created using minimum curvature

Salient Points (Relative to Slot centre, TVD relative to Kelly Bushing)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	B Rate (°/100 US ft)	T Rate (°/100 US ft)	T Face (°)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	-0.00	0.00	0.00	0.00	0.00	
84.00	0.08	234.39	84.00	-0.03	-0.05	0.05	0.10	0.10	0.00	234.39	
176.00	0.27	217.62	176.00	-0.24	-0.23	0.26	0.21	0.21	-18.23	336.42	
267.00	0.50	212.33	267.00	-0.75	-0.58	0.66	0.26	0.25	-5.81	348.56	
359.00	0.42	210.09	358.99	-1.38	-0.96	1.12	0.09	-0.09	-2.43	191.55	
453.00	0.14	122.09	452.99	-1.74	-1.03	1.24	0.47	-0.30	-93.62	198.63	
547.00	0.27	69.72	546.99	-1.72	-0.73	0.93	0.23	0.14	-55.71	276.63	
642.00	0.26	54.15	641.99	-1.52	-0.34	0.53	0.08	-0.01	-16.39	254.36	
736.00	0.28	49.02	735.99	-1.24	0.00	0.15	0.03	0.02	-5.46	307.02	
830.00	0.33	42.34	829.99	-0.89	0.36	-0.25	0.07	0.05	-7.11	321.21	
924.00	0.31	37.58	923.99	-0.49	0.69	-0.63	0.04	-0.02	-5.06	230.68	
1019.00	0.28	36.77	1018.99	-0.10	0.99	-0.97	0.03	-0.03	-0.85	187.51	
1113.00	0.33	38.85	1112.99	0.29	1.30	-1.32	0.05	0.05	2.21	13.53	
1144.00	0.34	31.77	1143.98	0.44	1.40	-1.45	0.14	0.03	-22.84	280.02	Tie On Surface Gyro
1208.00	0.35	201.52	1207.98	0.42	1.43	-1.47	1.07	0.02	265.23	174.80	
1302.00	0.32	190.29	1301.98	-0.10	1.28	-1.26	0.08	-0.03	-11.95	239.90	
1397.00	0.29	140.17	1396.98	-0.55	1.38	-1.31	0.27	-0.03	-52.76	238.94	
1491.00	0.20	157.37	1490.98	-0.88	1.60	-1.48	0.12	-0.10	18.30	149.13	
1585.00	0.17	174.95	1584.98	-1.17	1.68	-1.52	0.07	-0.03	18.70	126.46	
1680.00	0.18	192.39	1679.98	-1.46	1.66	-1.47	0.06	0.01	18.36	88.17	
1774.00	0.21	200.86	1773.98	-1.77	1.56	-1.34	0.04	0.03	9.01	48.14	
1869.00	0.17	173.67	1868.98	-2.07	1.52	-1.25	0.10	-0.04	-28.62	232.88	
1963.00	0.16	180.41	1962.98	-2.34	1.53	-1.24	0.02	-0.01	7.17	120.60	
2057.00	0.15	176.24	2056.98	-2.59	1.54	-1.21	0.02	-0.01	-4.44	226.37	
2152.00	0.07	203.01	2151.98	-2.77	1.52	-1.18	0.10	-0.08	28.18	160.18	
2246.00	0.20	163.37	2245.98	-2.98	1.55	-1.17	0.16	0.14	-42.17	303.36	
2340.00	0.25	147.19	2339.98	-3.31	1.71	-1.29	0.09	0.05	-17.21	299.92	

5D Plan Report

Salient Points (Relative to Slot centre, TVD relative to Kelly Bushing)											
MD (US ft)	Incl (°)	Az (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	IB Rate (%/100 US ft)	T Rate (%/100 US ft)	T Face (°)	Comment
2435.00	0.27	136.79	2434.98	-3.65	1.97	-1.51	0.05	0.02	-10.95	287.71	
2529.00	0.23	125.65	2528.98	-3.92	2.28	-1.78	0.07	-0.04	-11.85	225.07	
2623.00	0.20	120.51	2622.97	-4.11	2.57	-2.05	0.04	-0.03	-5.47	210.19	
2718.00	0.28	124.97	2717.97	-4.33	2.90	-2.36	0.09	0.08	4.69	15.38	
2812.00	0.30	115.45	2811.97	-4.57	3.31	-2.74	0.06	0.02	-10.13	287.74	
2907.00	0.25	97.45	2906.97	-4.70	3.74	-3.15	0.10	-0.05	-18.95	231.15	
3001.00	0.25	92.38	3000.97	-4.74	4.15	-3.55	0.02	0.00	-5.39	267.47	
3095.00	0.26	87.43	3094.97	-4.73	4.57	-3.96	0.03	0.01	-5.27	291.93	
3190.00	0.25	80.09	3189.97	-4.69	4.99	-4.38	0.04	-0.01	-7.73	249.33	
3284.00	0.20	54.56	3283.97	-4.56	5.33	-4.73	0.12	-0.05	-27.16	231.11	
3378.00	0.23	50.46	3377.97	-4.34	5.61	-5.04	0.04	0.03	-4.36	330.79	
3473.00	0.32	31.37	3472.97	-4.00	5.89	-5.36	0.13	0.09	-20.09	304.68	
3567.00	0.33	4.89	3566.96	-3.50	6.05	-5.58	0.16	0.01	-28.17	260.50	
3662.00	0.10	28.29	3661.96	-3.16	6.11	-5.68	0.25	-0.24	24.63	170.54	
3756.00	0.13	78.02	3755.96	-3.06	6.26	-5.84	0.11	0.03	52.90	99.15	
3787.00	0.13	249.37	3786.96	-3.07	6.26	-5.84	0.84	0.00	552.74	175.67	Tie On Gyro
3992.00	0.35	316.74	3991.96	-2.69	5.61	-5.24	0.16	0.11	32.86	89.17	First Wft Svy
4086.00	0.49	327.54	4085.96	-2.14	5.20	-4.90	0.17	0.15	11.49	34.96	
4275.00	0.50	329.79	4274.95	-0.75	4.35	-4.23	0.01	0.01	1.19	63.90	
4465.00	0.44	327.69	4464.95	0.58	3.54	-3.59	0.03	-0.03	-1.11	194.97	
4654.00	0.60	208.03	4653.94	0.32	2.69	-2.71	0.48	0.08	-63.31	215.28	
4841.00	0.87	232.85	4840.93	-1.40	1.10	-0.92	0.22	0.14	13.27	62.56	
5030.00	0.84	229.30	5029.91	-3.17	-1.10	1.47	0.03	-0.02	-1.88	238.71	
5218.00	0.84	221.26	5217.89	-5.10	-3.05	3.65	0.06	0.00	-4.28	265.98	
5406.00	0.44	20.37	5405.88	-5.46	-3.71	4.34	0.67	-0.21	84.63	172.85	Last Wft Svy 20H
5450.00	0.00	0.00	5449.88	-5.30	-3.65	4.27	1.00	-1.00	0.00	180.00	Hold
9754.72	0.00	0.00	9754.60	-5.30	-3.65	4.27	0.00	0.00	0.00	0.00	Nudge
10354.72	6.00	205.36	10353.50	-33.67	-17.09	21.06	1.00	1.00	0.00	205.36	Hold; 7 in
10364.77	6.00	205.36	10363.50	-34.62	-17.54	21.62	0.00	0.00	0.00	0.00	KOP
10548.39	28.03	205.36	10538.00	-82.88	-40.42	50.19	12.00	12.00	0.00	0.00	BS 3 Sand :
10898.11	70.00	205.36	10762.26	-316.14	-150.98	188.28	12.00	12.00	-0.00	0.00	Build 12's
11447.58	90.90	269.28	10863.31	-583.03	-585.26	651.77	12.00	3.80	11.63	79.58	LP
16105.67	90.90	269.28	10790.00	-641.90	-5242.40	5281.55	0.00	0.00	0.00	0.00	PBHL 20H

Interpolated Points (Relative to Slot centre, TVD relative to Kelly Bushing)										
MD (US ft)	Incl (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
5400.00	0.40	19.00	5399.88	-5.50	-3.72	4.36	0.00	440464.40	638688.58	
5406.00	0.44	20.37	5405.88	-5.46	-3.71	4.34	0.67	440464.44	638688.59	Last Wft Svy 20H
5450.00	0.00	0.00	5449.88	-5.30	-3.65	4.27	1.00	440464.60	638688.65	Hold
5500.00	0.00	0.00	5499.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
5600.00	0.00	0.00	5599.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
5700.00	0.00	0.00	5699.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
5800.00	0.00	0.00	5799.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
5900.00	0.00	0.00	5899.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
6000.00	0.00	0.00	5999.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
6100.00	0.00	0.00	6099.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
6200.00	0.00	0.00	6199.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
6300.00	0.00	0.00	6299.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
6400.00	0.00	0.00	6399.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
6500.00	0.00	0.00	6499.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
6600.00	0.00	0.00	6599.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
6700.00	0.00	0.00	6699.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
6800.00	0.00	0.00	6799.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
6900.00	0.00	0.00	6899.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
7000.00	0.00	0.00	6999.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
7100.00	0.00	0.00	7099.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Kelly Bushing)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
7200.00	0.00	0.00	7199.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
7300.00	0.00	0.00	7299.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
7400.00	0.00	0.00	7399.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
7500.00	0.00	0.00	7499.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
7600.00	0.00	0.00	7599.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
7700.00	0.00	0.00	7699.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
7800.00	0.00	0.00	7799.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
7900.00	0.00	0.00	7899.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
8000.00	0.00	0.00	7999.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
8100.00	0.00	0.00	8099.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
8200.00	0.00	0.00	8199.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
8300.00	0.00	0.00	8299.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
8400.00	0.00	0.00	8399.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
8500.00	0.00	0.00	8499.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
8600.00	0.00	0.00	8599.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
8700.00	0.00	0.00	8699.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
8800.00	0.00	0.00	8799.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
8900.00	0.00	0.00	8899.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
9000.00	0.00	0.00	8999.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
9100.00	0.00	0.00	9099.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
9200.00	0.00	0.00	9199.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
9300.00	0.00	0.00	9299.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
9400.00	0.00	0.00	9399.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
9500.00	0.00	0.00	9499.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
9600.00	0.00	0.00	9599.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
9700.00	0.00	0.00	9699.88	-5.30	-3.65	4.27	0.00	440464.60	638688.65	
9754.72	0.00	0.00	9754.60	-5.30	-3.65	4.27	0.00	440464.60	638688.65	Nudge
9800.00	0.45	205.36	9799.88	-5.47	-3.73	4.36	1.00	440464.43	638688.57	
9900.00	1.45	205.36	9899.86	-6.97	-4.44	5.25	1.00	440462.93	638687.86	
10000.00	2.45	205.36	9999.81	-10.05	-5.90	7.07	1.00	440459.85	638686.40	
10100.00	3.45	205.36	10099.67	-14.70	-8.10	9.83	1.00	440455.20	638684.20	
10200.00	4.45	205.36	10199.43	-20.93	-11.06	13.52	1.00	440448.97	638681.24	
10300.00	5.45	205.36	10299.06	-28.73	-14.75	18.14	1.00	440441.17	638677.55	
10354.72	6.00	205.36	10353.50	-33.67	-17.09	21.06	1.00	440436.23	638675.21	Hold; 7 in
10364.77	6.00	205.36	10363.50	-34.62	-17.54	21.62	0.00	440435.28	638674.76	KOP
10400.00	10.23	205.36	10398.37	-39.11	-19.67	24.28	12.00	440430.79	638672.63	
10500.00	22.23	205.36	10494.21	-64.31	-31.62	39.20	12.00	440405.59	638660.68	
10548.39	28.03	205.36	10538.00	-82.88	-40.42	50.19	12.00	440387.02	638651.88	BS 3 Sand :
10600.00	34.23	205.36	10582.16	-106.98	-51.84	64.45	12.00	440362.92	638640.46	
10700.00	46.23	205.36	10658.36	-165.23	-79.45	98.94	12.00	440304.67	638612.85	
10800.00	58.23	205.36	10719.51	-236.53	-113.24	141.15	12.00	440233.37	638579.06	
10898.11	70.00	205.36	10762.26	-316.14	-150.98	188.28	12.00	440153.76	638541.32	Build 12's
10900.00	70.04	205.60	10762.91	-317.75	-151.74	189.23	12.00	440152.15	638540.56	
11000.00	72.65	217.97	10795.01	-398.05	-201.59	248.47	12.00	440071.85	638490.71	
11100.00	75.99	229.94	10822.13	-467.15	-268.32	323.11	12.00	440002.75	638423.98	
11200.00	79.90	241.55	10843.08	-522.03	-349.03	409.88	12.00	439947.87	638343.27	
11300.00	84.20	252.86	10856.96	-560.28	-440.17	505.00	12.00	439909.62	638252.13	
11400.00	88.72	264.00	10863.15	-580.24	-537.78	604.31	12.00	439889.66	638154.52	
11447.58	90.90	269.28	10863.31	-583.03	-585.26	651.77	12.00	439886.87	638107.04	LP
11500.00	90.90	269.28	10862.48	-583.69	-637.67	703.87	0.00	439886.21	638054.63	
11600.00	90.90	269.28	10860.91	-584.96	-737.65	803.26	0.00	439884.94	637954.65	
11700.00	90.90	269.28	10859.34	-586.22	-837.62	902.66	0.00	439883.68	637854.68	
11800.00	90.90	269.28	10857.76	-587.48	-937.60	1002.05	0.00	439882.42	637754.70	
11900.00	90.90	269.28	10856.19	-588.75	-1037.58	1101.44	0.00	439881.15	637654.72	
12000.00	90.90	269.28	10854.62	-590.01	-1137.56	1200.83	0.00	439879.89	637554.74	
12100.00	90.90	269.28	10853.04	-591.28	-1237.54	1300.23	0.00	439878.62	637454.76	
12200.00	90.90	269.28	10851.47	-592.54	-1337.52	1399.62	0.00	439877.36	637354.78	
12300.00	90.90	269.28	10849.89	-593.80	-1437.50	1499.01	0.00	439876.10	637254.80	
12400.00	90.90	269.28	10848.32	-595.07	-1537.48	1598.40	0.00	439874.83	637154.82	

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Kelly Bushing)										
MD (US.ft)	Inc (°)	Az (°)	TVD (US.ft)	N.Offset (US.ft)	E.Offset (US.ft)	VS (US.ft)	DLS (%/100 US.ft)	Northing (US.ft)	Easting (US.ft)	Comment
12500.00	90.90	269.28	10846.75	-596.33	-1637.46	1697.79	0.00	439873.57	637054.84	
12600.00	90.90	269.28	10845.17	-597.60	-1737.44	1797.19	0.00	439872.30	636954.86	
12700.00	90.90	269.28	10843.60	-598.86	-1837.42	1896.58	0.00	439871.04	636854.88	
12800.00	90.90	269.28	10842.02	-600.12	-1937.40	1995.97	0.00	439869.78	636754.90	
12900.00	90.90	269.28	10840.45	-601.39	-2037.38	2095.36	0.00	439868.51	636654.92	
13000.00	90.90	269.28	10838.88	-602.65	-2137.36	2194.76	0.00	439867.25	636554.94	
13100.00	90.90	269.28	10837.30	-603.91	-2237.34	2294.15	0.00	439865.99	636454.96	
13200.00	90.90	269.28	10835.73	-605.18	-2337.32	2393.54	0.00	439864.72	636354.98	
13300.00	90.90	269.28	10834.16	-606.44	-2437.30	2492.93	0.00	439863.46	636255.00	
13400.00	90.90	269.28	10832.58	-607.71	-2537.28	2592.32	0.00	439862.19	636155.02	
13500.00	90.90	269.28	10831.01	-608.97	-2637.26	2691.72	0.00	439860.93	636055.04	
13600.00	90.90	269.28	10829.43	-610.23	-2737.24	2791.11	0.00	439859.67	635955.06	
13700.00	90.90	269.28	10827.86	-611.50	-2837.22	2890.50	0.00	439858.40	635855.08	
13800.00	90.90	269.28	10826.29	-612.76	-2937.20	2989.89	0.00	439857.14	635755.10	
13900.00	90.90	269.28	10824.71	-614.02	-3037.18	3089.29	0.00	439855.88	635655.12	
14000.00	90.90	269.28	10823.14	-615.29	-3137.16	3188.68	0.00	439854.61	635555.14	
14100.00	90.90	269.28	10821.57	-616.55	-3237.14	3288.07	0.00	439853.35	635455.16	
14200.00	90.90	269.28	10819.99	-617.82	-3337.12	3387.46	0.00	439852.08	635355.18	
14300.00	90.90	269.28	10818.42	-619.08	-3437.10	3486.85	0.00	439850.82	635255.20	
14400.00	90.90	269.28	10816.84	-620.34	-3537.07	3586.25	0.00	439849.56	635155.23	
14500.00	90.90	269.28	10815.27	-621.61	-3637.05	3685.64	0.00	439848.29	635055.25	
14600.00	90.90	269.28	10813.70	-622.87	-3737.03	3785.03	0.00	439847.03	634955.27	
14700.00	90.90	269.28	10812.12	-624.14	-3837.01	3884.42	0.00	439845.76	634855.29	
14800.00	90.90	269.28	10810.55	-625.40	-3936.99	3983.82	0.00	439844.50	634755.31	
14900.00	90.90	269.28	10808.97	-626.66	-4036.97	4083.21	0.00	439843.24	634655.33	
15000.00	90.90	269.28	10807.40	-627.93	-4136.95	4182.60	0.00	439841.97	634555.35	
15100.00	90.90	269.28	10805.83	-629.19	-4236.93	4281.99	0.00	439840.71	634455.37	
15200.00	90.90	269.28	10804.25	-630.45	-4336.91	4381.38	0.00	439839.45	634355.39	
15300.00	90.90	269.28	10802.68	-631.72	-4436.89	4480.78	0.00	439838.18	634255.41	
15400.00	90.90	269.28	10801.11	-632.98	-4536.87	4580.17	0.00	439836.92	634155.43	
15500.00	90.90	269.28	10799.53	-634.25	-4636.85	4679.56	0.00	439835.65	634055.45	
15600.00	90.90	269.28	10797.96	-635.51	-4736.83	4778.95	0.00	439834.39	633955.47	
15700.00	90.90	269.28	10796.38	-636.77	-4836.81	4878.35	0.00	439833.13	633855.49	
15800.00	90.90	269.28	10794.81	-638.04	-4936.79	4977.74	0.00	439831.86	633755.51	
15900.00	90.90	269.28	10793.24	-639.30	-5036.77	5077.13	0.00	439830.60	633655.53	
16000.00	90.90	269.28	10791.66	-640.56	-5136.75	5176.52	0.00	439829.34	633555.55	
16100.00	90.90	269.28	10790.09	-641.83	-5236.73	5275.91	0.00	439828.07	633455.57	
16105.67	90.90	269.28	10790.00	-641.90	-5242.40	5281.55	0.00	439828.00	633449.90	PBHL 20H

Formation Points (Relative to Slot centre, TVD relative to Kelly Bushing)										
MD (US.ft)	Inc (°)	Az (°)	TVD (US.ft)	N.Offset (US.ft)	E.Offset (US.ft)	Northing (US.ft)	Easting (US.ft)	Name	Comment	
10548.39	28.03	205.36	10538.00	-82.88	-40.42	440387.02	638651.88	BS 3 Sand		

AUG 21 2015

PECOS DISTRICT
CONDITIONS OF APPROVAL RECEIVED

OPERATOR'S NAME:	BOPCO, L.P.
LEASE NO.:	NMLC-068430
WELL NAME & NO.:	Poker Lake Unit CVX JV PC 20H
SURFACE HOLE FOOTAGE:	0065' FNL & 2410' FEL
BOTTOM HOLE FOOTAGE:	0660' FNL & 0330' FWL Sec. 20, T. 24 S., R 30 E.
LOCATION:	Section 21, T. 24 S., R 30 E., NMPM
COUNTY:	Eddy County, New Mexico
API:	30-015-42668

The original COAs still stand with the following drilling modification:

I. 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. Operator has stated that Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. Operator has also stated that 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 or are Non-API. 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.). The initial wellhead installed on the well will remain on the well with spools used as needed.

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

Wait on cement (WOC) for Water Basin:

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

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

Possibility of water flows in the Salado and Castile.

Possibility of lost circulation in the Red Beds, Rustler, and Delaware.

1. The **13-3/8** inch surface casing shall be set at approximately **958** 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, which shall be set at approximately **3800** feet (Lamar Limestone or basal anhydrite of the Castile formation), is:

☒ Cement to surface. If cement does not circulate see B.1.a, c-d above.

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 5800', 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.

4. The minimum required fill of cement behind the **4-1/2** inch production Liner is:

- ☒ Cement as proposed by operator. Operator shall provide method of verification. **Additional cement may be required – excess calculates to - 21%.**

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 a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
 - 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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