Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

, B	UREAU OF LAND MANAGE	EMENT			5. Lease Serial No	0.	
SUNDRY	NMNM0255						
Do not use th abandoned we	6. If Indian, Allot	tee or Tribe Na	me .				
SUBMIT IN TR	IPLICATE - Other instruction	ons on re	verse side.		7. If Unit or CA/A 891000303>	Agreement, Nan (ne and/or No.
Type of Well	her				8. Well Name and POKER LAKE	No. E UNIT CVX J	V BS 035H
2. Name of Operator BOPCO LP	Contact: LE E-Mail: lbarnes@bass		RNES	:. <u></u>	9. API Well No. 30-015-4242	27-00-X1	
3a. Address P O BOX 2760 MIDLAND, TX 79702	<i>y</i> 3 F	b. Phone N Ph: 432-2	o. (include area code 21-7341		10. Field and Poo UNDESIGN	ATED	
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)				11. County or Par	ish, and State	Line .
Sec 19 T24S R31E NENW 19 32.209422 N Lat, 103.817658					EDDY COU	VTY, NM	L 9192S
12. CHECK APP	ROPRIATE BOX(ES) TO I	NDICAT	E NATURE OF I	NOTICE, R	EPORT, OR OT	HER DATA	
TYPE OF SUBMISSION			TYPE OI	ACTION		e.	•
Notice of Intent	☐ Acidize	☐ De	epen	☐ Product	tion (Start/Resume)) - Wate	er Shut-Off
Notice of Intent	☐ Alter Casing	☐ Fra	cture Treat	☐ Reclam	ation	■ Well	Integrity
☐ Subsequent Report	Casing Repair	□ Ne	v Construction	□ Recomp	plete	🛛 Othe	
☐ Final Abandonment Notice	□ Change Plans	🗖 Plu	☐ Plug and Abandon ☐ Ten		rarily Abandon	Change PD	to Original A
,	Convert to Injection	Plu	g Back	☐ Water Disposal			
following completion of the involved testing has been completed. Final At determined that the site is ready for fit BOPCO L. P. respectfully required #035H. The original producing in the Bone Spring 2 B Sand. long string of 5-1/2? casing wit total depth. I have attached a revised directional plan is also Please see attached supporting	pandonment Notices shall be filed on nal inspection.) Juests to amend to the targete g targeted zone was in the Borner of the original APD surface and the DV tool placed at 5,800? Jetter detailing the changes in attached.	nly after all ed produc one Sprin od bottom ? will be s in the targ	requirements, includ tion zone for the g 2 A Sand. The hole locations did et through the 8-3 et and cement vo	PLU CVX J' amend tard not chang 3/4? hole to blumes. A	n, have been complete V BS Get is e. A	ce, and the oper cepted NMC	for record CD/U/ 925/ R
	g documents NM OIL C	SIA DISTA	IVATION	CO	NDITIONS	S OF AP	PROVAI
		2 4 20					
14. I hereby certify that the foregoing is	true and correct.	CEIVE)				·
C		CO LP, s	ent to the Carlsbac	1	_		
Name(Printed/Typed) DON WOC	nitted to AFMSS for processin	ig by JEN		09/24/2014 (IG ENGINE	•		
- rame(r ramear) pear DON WOO			THE DITELLY	·	<u>En</u>		
Signature (Electronic St	· · · · · · · · · · · · · · · · · · ·		Date 09/24/20		APPROV	ED	
<u> </u>	THIS SPACE FOR I	FEDERA	L OR STATE (OFFICE US	SE/	M	
Approved By			Title	7	SEP 2 2	Dpte	1
Conditions of approval, if any, are attached crtify that the applicant holds legal or equivaling would entitle the applicant to conduct	table title to those rights in the subj		Office	BUKE	AU OF WAD MAN	AGEMENT	70

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.

TO:

Whitney McKee

FROM:

Donald H. Wood

DATE:

September 23, 2014

SUBJECT:

Sundry Notice for the PLU CVX JV BS #035H Target and Producing Formation Change

BOPCO L. P. requests to amend to the targeted production zone for the PLU CVX JV BS #035H. The original producing targeted zone was in the Bone Spring 2 A Sand. The amend target is in the Bone Spring 2 B Sand. A long string of 5-1/2" casing with a DV tool placed at 5,800' will be set through the 8-3/4" hole to total depth. The APD casing size and cement volumes changes are detailed in the table below.

Approved 8-Point Casing Program:

Casing Description	Interval (MD)	Hole Size	Purpose	Material Status
7", 26.0 ppf, HCP-110 BT&C	0-10,435'	8-3/4"	Production	New
4-1/2", 11.6 ppf, HCP-110	10,385-17,350'	6-1/8"	Completion System	New
втс				•

Amended 8-Point Casing Program:

Casing Description	Interval (MD)	Hole Size	Purpose	Material Status
5-1/2", 17.0#, HCP-110 BTC	0-17,324	8-3/4"	Production	New

The adjusted cement types and volumes are as follows:

Approved 8-Point Cement Program:

Interval (MD)	Amount (sx)	Fill Ht. (ft)	Туре	Water (gal/sx)	Density (ppg)	Vol. (cu. ft.)
PRODUCTION					· .	ļ
Stage 1:						
Lead: 5,000-9,652'	400	4,652	Tuned Light + 0.125 pps Poly- E-Flake	14.87	11.0	2.64
Tail: 9,952-10-,435'	70	783	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: 3,790-5,000'	110	1,210	Tuned Light + 0.125 pps Poly- E-Flake	11.70	11.0	2.35

Amended 8-Point Cement Program:

Interval (MD)	Amount (sx)	Fill Ht. (ft)	Туре	Water (gal/sx)	Density (ppg)	Vol. (cu. ft.)
PRODUCTION						
Stage 1:						
Lead: 5,800-9,514	695	3,714'	VERSACEM SYSTEM+8% bentonite, 0.5# D-AIR 5000, 0.7% HR-601,	13.29	11.9	2.30
			0.125 lbm Poly- E-Flake			
Tail: 9,514- 17,324'	2090	7,797	VERSACEM SYSTEM+0.5% LAP-1, 0.3%	5.59	14.5	1.23
<u>-</u> .		,	CFR-3, 0.10% FWCA, 0.125# Poly-E-Flake,			
		•	0.5# D-AIR 5000, 0.2% HR- 601			
DV Tool @ 5,800'						
Stage 2:	·					
Lead: 3,790- 5,500'	315	1,710	VERSACEM SYSTEM+8% bentonite, 0.125# Poly-E- Flake, 0.5# D- AIR 5000	13.05	11.9	2.27
Tail: 5,500-5,800	100	300	HALCEM SYSTEM + 0.1% BWOC HR-800	6.34	14.8	1.33

The revised directional plan is attached.

	BOPCO, I	P	Sedit 1 Inch = 300 N -2400 -2100 -1600 -1500 -1200 -	Eastir 900 -600 -\$	ng (ft) 00 c aco	600 600 1200 1500	1960
		PLU CVX JV BS #035H (Letshow 18)			. }		300
		SL 190 FNL, 2332 FWL		·	/2).		
	Facility: PLUCVX JV BS (35H, 36H) Sec. 19.245-31E Wellbore:	PLU CVX IV BS #035H Planned		,		~Tie On	10
Plot reference wellpath is Re-		Mexico SP. Eastern Zone (1001). US het			/3//	Est. KOP	300
Measured depths are referen			BI 11 0107 11 10 1005				
Laishaw 16 (RKB) to Mean S	L444; 3527 feet Scale True distance		PLU CVX JV BS #035H X:659493.4 Y:440289.6			70° Curve	-800
Continues are in that refere		014				200' Tangent	-600
	Well Profile Data		1			EOC	
Design Comme Tie On		al E (ft) DLS (*/100ft) VS (ft) 0.00 0.00 0.00				π	-1200
Est, KOP		0.00 0.00 0.00					
70° Curve		47.30 10.00 353.12 20.74 0.00 529.15		} - }			-1600
200' Tangent EOC		20.74 0.00 529.15 15.15 5.99 1012.38					-1800
TL		15.16 2.00 1015.94					
No. 35H PBH		23.12 0.00 7414.51					-2100
Name)	Targets) Lathudo Longitude		1			2400
No. 35H PBHL 17	24.30 10215.00 -7407.47 -323.12 659170.30 432882.60	32°11'20.633"N 103°49'07.739"W					
\$ 4200	Larnar - 4282 TVD : 0.00° Inc, 4282,00ft MD,	4282.00ft TVD. 0.00ft VS					-2700
2 4500						 	3000
y TOLV						 	1
4800	NI NI					 	-3300
	GRID			1			
5100	4						1 -1-2900 orthing
5400	TRUE MAG		, ,	1			2900 3
5700	$\mathbf{w} \leftarrow \mathbf{v}$	F					-4200
8200	VV	L) 	-4500
4040						1	
6300 -	BGGM (1945.0 to 2016.0) Dip: 60.04	1° Field: 48215 nT				į I	-4800
	Magnetic North is 7,46 degrees East of T	rue North (at 9/9/2014)					
6600	Grid North is 0.27 degrees East To correct azimuth from True to Grid s						-5100
6900	To correct azimuth from Magnetic to G						-5400
Vertical Depth (ft)				}			11
7200 78				}	.		-6700
/500 /500	1		ì				-8000
en J	1			-			
7800							-6300
						,	
8100	Bone Spring Lime - 8148 TVD : 0,00° Inc, 81	48,00ft MD, 8148,00ft TVD, 0,00ft V	's		}		-6800
6400 -							-6900
	\				1	1	
8700		0.000 N.M. 0000 070 707 707					-7200
8000	Bone Spring 1 Sand - 9096 TVD : 0,00° Inc. 909				- 	10. 35H PBHL	i -7500
	Est. KOP : 0.00° Inc, 9514.00ft MD, 9514.00ft	ινυ, υ.υυπ ν δ				<u> </u>	
8900	70° Curve : 70.00° Inc, 10214.00ft MD, 1005		j			i	-7B00
9600	Bone Spring 2 A Sand - 10094 TVD : 70.00 (200' Tangent : 70.00° Inc, 10414.00ft MD		/D, 460.16ft VS		*		
	Est. KOP: 0.00° Inc, 9514.00ft MD, 9514.00ft 70° Curve: 70.00° Inc, 10214.00ft MD, 1005 80 Bone Spring 2 A Sand - 10094 TVD: 70.00° Inc, 10214.00ft MD, 200' Tangent: 70.00° Inc, 10916.43ft MD, 7L: 89.95° Inc, 10919.99ft MD,						·
9800	EOC : 89.95° Inc, 10916.43ft MD, 1 ,TL : 89.95° Inc, 10919.99ft MD,		No. 35	H PBHL : 89.9	5° Inc, 17324.30	ft MD,	
	1 8 V			10215,00ft TV	D, 7414.51ft VS	De Maria	
10200			 		···	BAK	
10500	0 800 800 900 1200 1500 1500 2100 2400	2700 8000 8300 8800 8900 40	200 4500 4800 6100 5400 5700	6000 6800	9500 9900	HU(Ghes
-300	- 000 000 900 200 000 200 200	Vertical Section (ft) Azimuth 182,50° with reference 0,00 N, 0,00 E		6000 6300	99UV 99UU	7200 7500 Sode 1 Inch = 300 ft	



Planned Wellpath Report Rev-C.0 Page n of nn



REFEREN	NCE WELLPATH IDENTIFICATION		
Operator	BOPCO, LP	Slot	PLU CVX JV BS #035H (Latshaw 18)
Area	Eddy County, NM	Well	SL 190 FNL, 2332 FWL
Field	Eddy County, NM (NAD 27 / Grid)	Wellbore	PLU CVX JV BS #035H Planned
Facility	PLU CVX JV BS {35H, 36H} Sec. 19-24S-31E		

REPORT SETU	P INFORM	ATION	
Projection System	NAD27 /	Software System	WellArchitect® 4.0.0
	TM New	•	
:	Mexico SP,		
	Eastern	*	to the control of the
	Zone		
	(3001), US		i
	feet		
North Reference	Grid	User	Burnranj
Scale	0.999938	Report Generated	9/18/2014 at 4:50:24 PM
Convergence at slo	0.27° East	Database/Source file	WA MIDLAND/C:\Users\burnrani\AppData\Roaming\Well Explorer\temp\BOPCO, LP PLU CVX JV BS #035H (Latshaw 18) (Rev-C.0),xml

WELLPATHLEOCATION							
:	Local coordinates		Grid coordinates		Geographic coordinates		
į	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude	
Slot Location	0.00	0.00	659493.40	440289.60	32°12'33.917"N	103°49'03.566"W	
Facility Reference Pt			659493.40	440289.60	32°12'33.917"N	103°49'03.566"W	
Field Reference Pt			510280.10	534700.83	32°28'12.000"N	104°18'00.000"W	

WELLPATH DATUM			
Calculation method	Minimum curvature	Latshaw 18 (RKB) to Facility Vertical Datum	29.00ft
Horizontal Reference Pt	Slot	Latshaw 18 (RKB) to Mean Sea Level	3527.00ft
Vertical Reference Pt	Latshaw 18 (RKB)	Latshaw 18 (RKB) to Mud Line at Slot (PLU CVX JV BS #035H (Latshaw 18))	29.00ft
MD Reference Pt	Latshaw 18 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	182.50°



Planned Wellpath Report Rev-C.0 Page n of nm



REFERE	NGE WELLPATH IDENTIFICATION		
Operator	BOPCO, LP	Slot .	PLU CVX JV BS #035H (Latshaw 18)
Area	Eddy County, NM	Well	SL 190 FNL, 2332 FWL
Field	Eddy County, NM (NAD 27 / Grid)	Wellbore	PLU CVX JV BS #035H Planned
Facility	PLU CVX JV BS {35H, 36H} Sec. 19-24S-31E		

MD [ft]	Inclination	Azimuth [°]	TVD	Vert Sect	North [ft]	East	DLS [%/100ft]	Comments
0.00†	0.000	203,000	0.00	0.00	0.001	0.00	0.00	
29.00	0.000	203.000	29.00	0.00	0.00	0.00		Tie On
540.00†	0.000	203.000	540.00	0.00	0.00	0.00	0.00	Rustler - 540 TVD
920.00†	0.000	203.000	920.00	0.00	0.00	0.00	0.00	Salado - 920 TVD
4060.00†	0.000	203.000	4060 00	7.00€		00.00	2 0 00	Base/Salt - 4060 TVD
4282.00†	0.000	203.000	4282.00	0.00	0.00	0.00	0.00	Lamar - 4282 TVD
8148.00†	0.000;	203.000	8148.00	0.00	0.00 !	0.00	0.00	Bone Spring Lime - 8148 TVD
9096.00†	0.000	203.000	9096.00	0.00	0.00	0.00	0.00	Bone Spring 1 Sand - 9096 TVD
9500.00†	0.000	203.000	9500.00	0.00	0.00	0.00	0.00	
9514.00			9514.00		0.00		0.00	Est KOP
9600.00†	8.600	203.000	9599.68	6.03	-5.93	-2.52	10.00	
9700.00†	18.600	203.000	9696.75	28.03	27.55	-11.69	10.00	
9800.00†	28.600	203.000	9788.27	65.48	-64.35	-27.32	10.00	
9900.00†	38,600	203.000	9871.46	117.25	-115.23	-48.91	10.00	·
£ 10000.00†	48.600		9943-78		A Commence of the Commence of	ن المراجعة المراجعة والمراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة	10.00	And the second s
10100.00†	58.600	203.000	10003.05	257.06	-252.62	-107.23	10.00	
10200.00†	68.600	203.000	10047.46	340.85	-334.97	-142.19	10.00	
10214.00	70.000	203.000	10052.40	353.12		-147.30		j70° Curve
10300.00†	70.000	203.000	- 10081.82	428.81	-421.41	-178.88	0.00	<u></u>
the contract of the same of th	70:000	203.000	Total as their he Thompson in minimum with the	the second second second	<i>ે</i> કેટ-452 22	And the second of the second of the second	the state of the s	Bone Spring 2 A Sand 10094 TVD
10400.00†	70.000	203.000	10116.02	516.83	-507.91	-215.60	. 0.00	· · · · · · · · · · · · · · · · · · ·
10414.00	70.000	203.000	10120.81	529.15	-520.02			200' Tangent
10500.00†	73.273	198.811	10147.91	606.57	-596.25	-249.82		<u></u>
10600.00†	77.179	194.117	10173.42	700.37	-688.94			
	81.167	189.569	الما قصير بيهم وسيست مسيمين بديات ومسالة والكاران ك	-0	○○○○ ○ -785.03	And the second second	Printer of the Printer of the secret of the	the state of the s
10800.00†	85.207	185.118	10204.08	. 896.14	-883.47			
10900.00†	89.277	180.720	10208.89	995.97	-983.18		5.99	
10916.43	89.946	180.000	10209.00	1012.38	-999.60			EOC
10919.99	89.946	180.071	10209.00	1015.94	-1003.16			
11000.00†	* 1 * 1 * 1 * 1 * 1 * 1 * 1 * 1 * 1 * 1	180:071		the American Arite or and the second		Signal 315.25	ELF. sales C9 200 L Kell statements.	Land Barrell Lands House to be the commencer
11100.00†	89.946	180.071;	10209.17	1195.79	-1183.17		0.00	<u></u>
11200.00†	89.946	180.071	10209.27	1295.70	-1283.17			
11300.00†	89.946	180.071	10209.36	1395.62	-1383.17		0.00	
11400.00†	89.946	180.071	10209.45	1495.53	-1483.17			
11500 00†	89.946		10209.55	- to demand the second second				
11600.00†	89.946	180.071	10209:64	1695.35	-1683.17		0.00	
11700.00†	89.946	180.071	10209.73	1795.26	-1783.17		0.00	
11800.00†	89.946	180.071	10209.83	1895.17	-1883.17	-316.25	0.00) <u>[</u>

11900.00†	89.946	180.071	10209.92	1995.08	-1983.17	-316.37	0.00 !		4464
12000.00†	89.946	180.071	10210.01	2094.99	-2083.17	-316.50	0.00	 	
12100.00†	89.946	180.071;	10210.11	2194.90	-2183.17	-316.62	0.00	 	 •
12200.00†	89.946	180.071;	10210.20	2294.81	-2283.17	-316.75	0.00	 a company of the same of the s	-1
12300.00†1	89.946	180.071	10210.30	2394.72	-2383.1.7	-316.87	0.00	 	-1
12400.00†	89.946	180.071	10210.39	2494.63	-2483.17	-317.00	0.00	 	 1
12500.00t;	89.946	180 071	10210 48	2594 54	-2583 17	-317 12	:0.00		

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Planned Wellpath Report Rev-C.0 Page n of nn



REFEREN	NCE WELLPATH IDENTIFICATION		
Operator	BOPCO, LP	Slot	PLU CVX JV BS #035H (Latshaw 18)
Area .	Eddy County, NM	Well	SL 190 FNL, 2332 FWL
Field	Eddy County, NM (NAD 27 / Grid)	Wellbore	PLU CVX JV BS #035H Planned
Facility	PLU CVX JV BS {35H, 36H} Sec. 19-24S-31E		

•	MD	Inclination	Azimuth	TVD	Vert Sect	North	East		Comments
	[ft] 12600.00†	[°] 89.946	[°] 180.071	[ft] 10210.58	[ft]	[ft]	[ft]	[°/100ft] 0.00	
					2694.45	-2683.17	-317.24		 :
	12700.00†	89.946	180.071	10210.67	2794.36	-2783.17	-317.37	0.00	<u> </u>
	12800.00†	89.946	180.071	10210.76	2894.27	-2883.17	-317.49	0.00	i
	12900.00†	89.946	180.071	10210.86	2994.18	-2983.17	-317.62	0.00	Company of the Sale
- 1		The same of the sa	and the second of the second o	10210.95			317.74		
	13100.00†	89.946	180.071	10211.04	3194.00	-3183.17	-317.87	0.00	
	13200.00†	89.946	180.071	10211.14	3293.91	-3283.17	-317.99	0.00	1
	13300.00†	89.946	180.071	10211.23	. 3393.82	-3383.17	-318.12	0.00	<u> </u>
د مانان دار	13400.00†	89.946	180.071	10211.33	3493.73	-3483.17	-318.24	0.00	
المحاشية	13500.00†			10211.42	A MARKET OF THE PARTY OF THE PA			A CONTRACT OF THE PARTY OF THE	
	13600.00†	89.946	180.071	10211.51	3693.55		-318.49	0.00	<u> </u>
	13700.00†	89.946	180.071	10211.61	3793.46	-3783.17	-318.61	0.00	·
,	13800.00†	89.946	180.071		3893.37		-318.74	0.00	
	13900.00†;	89.946	180.071	10211.79	3993.28		-318.86	0.00	
4	. 9		and the second section of the second section of the	10211-89			-318.99	0.00	Maria Calabara
	14100.00†	89.946	180.071	10211.98	4193.10	· ·	-319.11	0.00	
	14200.00†	89.946	180.071	10212.07	4293.01		-319.23	, 0.00	
	. 14300.00†	89.946	180.071	10212.17	4392.92	-4383.17	-319.36	0.00	1
	14400.00†	89.946	180.071	10212.26	4492.83		-319.48	0.00	1
	14500.00†	89.946	180 071		4592.74	-4583.17	-319 61	0.00 (1.17)	
	14600.00†	89.946	180.071	10212.45	4692.66	-4683.17	-319.73	0.00	
	14700.00†	89.946	180.071	10212.54	4792.57	-4783.17	- 319.86	0.00	
	14800.00†	. 89.946	180.071	10212.64	4892.48	-4883.17	-319.98	0.00	1
	14900.00†	89.946	180.071	10212.73	4992.39	-4983.17	-320.10	0.00	
30.	15000.00†	-89 946 ₆	180'071	्रद्ध र निर्देश 10212 82	5092:30	5083-17		0.00	HER SHARE
	15100.00†	89.946	180.071	10212.92	5192.21	-5183.17	-320.35	0.00	
	15200.00†	89.946	180.071	10213.01	5292.12	-5283.17	-320.48	0.00	
	15300.00†	89.946	180.071	10213.10	5392.03		-320.60	0.00	
	15400.00†	89.946	180.071	10213.20	5491.94	-5483.17	-320.73		
7 y.	15500.001	89.946	180 071	10213.29		25583 174			
	15600.00†	89.946	180.071	10213.39	5691.76		-320.98	0.00	
	.15700.00†	89.946	180.071	10213.48	5791.67		-321.10	0.00	
	15800.00†	-89.946	180.071	10213.57	5891.58		-321.22	0.00	1
	15900.00†	89,946	180.071	10213.67	5991.49	*	-321.35		
			180:071	10213-76	6091 40		-321-47		
بالأخسنية	16100.00†	89.946	180.071	10213.85	6191.31		-321.60		
	16200.00†	89.946	180.071		6291.22		-321.72	0.00	
	16300.00†	89.946	180.071	10214.04	6391.13		-321.85	0.00	

16400.00†	89.946	180.071	10214.13	6491.04	-6483.17 ·	-321.97	. 0.00	
16500.00†	89.946	180.071	10214.23	6590.95	-6583.17	-322.09	0.00	
16600.00†	89.946	180.071	10214.32	6690.86	-6683.17	-322.22	0.00	
16700.00†	89.946	180.071	10214.42	6790.77	-6783.17	-322.34	0.00	
16800.00†	89.946	180.071	10214.51	6890.68	-6883.17	-322.47	0.00	
16900.00†	89.946!	180.071	10214.60	6990.59	-6983.17	-322.59	0.00	
17000.00†	89:946	180,071	10214.70	7090.50	-7083.17	-322:72	.0.00	The second secon



Planned Wellpath Report Rev-C.0 Page n of nm



REFEREN	NEE WELLPATH IDENTIFICATION		
!Operator	BOPCO, LP	Slot	PLU CVX JV BS #035H (Latshaw 18)
Area	Eddy County, NM	Well	SL 190 FNL, 2332 FWL
Field	Eddy County, NM (NAD 27 / Grid)	Wellbore	PLU CVX JV BS #035H Planned
Facility	PLU CVX JV BS {35H, 36H} Sec. 19-24S-31E		

WELLPA	TH.DATA	(94 stations)	† ≡ interp	olated/extrapolated	l station .	المرافق المستراجية المرافق المرافقة				
N	ID .	Inclination		Azimuth	TVD	Vert Sect	North	East	DLS	Comments
[1	ft] ;	[°]		· [°] i	[ft]	[ft]	[ft]	[ft]	[°/100ft]	
	17100.00†		89.946	180.071	10214.79	7190.41	-7183.17	-322.84	0.00	
	17200.00†		89.946	180.071	10214.88	7290.32	-7283.17 i	-322.97	0.00	
	17300.00†		89.946	180.071	10214.98	7390.23	-7383.17	-323.09	0.00	
	17324.30		89.946	180.071	10215.001	7414.51	-7407.47	-323.12	0.00	No. 35H PBHL

TARGETS									
Name	MD	TVD	North	East	Grid East	Grid North	Latitude	· Longitude	Shape
·	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			
1) No. 35H PBHL	17324.30	10215.00	-7407.47	-323.12	659170.30	432882:60	32°11'20:633"N	103°49ï07.739"W	point
1) NO. 33H I BHL				,		- And the state of a self-reference of the self-reference to the s			

SURVEY PROG	RAM = Ref Well	ore: PLU CVX JV BS #035H Planned; Ref Wellpath: Rev-C.0		
Start MD	End MD	Positional Uncertainty Model	Log Name/Comment	Wellbore
[ft]	[ft]			
29.00	607.00 Ge	neric gyro - northseeking (Standard)		PLU CVX JV BS #035H Planned
607.00	16901.92Na	viTrak (Standard)		PLU CVX JV BS #035H Planned

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: | BOPCO, L.P.

LEASE NO.: NMNM-0506A

WELL NAME & NO.: | Poker Lake Unit CVX JV BS 35H

SURFACE HOLE FOOTAGE: | 0190' FNL & 2332' FWL

BOTTOM HOLE FOOTAGE | 2310' FNL & 1980' FWL Sec. 30, T. 24 S., R 31 E.

LOCATION: | Section 19, T. 24 S., R 31 E., NMPM

COUNTY: | Eddy County, New Mexico

API: | 30-015-42427

The original COAs still stand with the following drilling modifications:

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 shall 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) 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.

Possibility of water flows in the Salado and Castile.

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

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

3. The minimum required fill of cement behind the 5-1/2 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. 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 intermediate casing integrity test 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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