Form 3160-5 (August 2007)

### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

Lease Serial No.
NMNM05912

SUNDRY	NMNM05912						
Do not use thi abandoned wel	6. If Indian, Allottee or	Tribe Name					
SUBMIT IN TRII	7. If Unit or CA/Agree 891000303X	ment, Name and/or No.					
1. Tỳpe of Well ☐ Gas Well ☐ Oth	8. Well Name and No. POKER LAKE UN	IT 440H					
Name of Operator     BOPCO LP	Contact: CO E-Mail: cjlockhart@ba:	OURTNEY LOCKHART	-	9. API Well No. 30-015-41299-00	0-X1		
3a. Address		b. Phone No. (include area of h: 432-221-7307	code)	10. Field and Pool, or I NASH DRAW	Exploratory		
MIDLÁND, TX 79702  4. Location of Well (Footage, Sec., T.	P. M. or Surray Description			11. County or Parish, a	nd Ctata		
Sec 18 T24S R30E SWSE 13				EDDY COUNTY			
12. CHECK APPR	ROPRIATE BOX(ES) TO IN	NDICATE NATURE	OF NOTICE, RI	EPORT, OR OTHER	R DATA		
TYPE OF SUBMISSION		ТҮР	E OF ACTION				
Notice of Intent	☐ Acidize	□ Deepen	☐ Product	ion (Start/Resume)	■ Water Shut-Off		
	☐ Alter Casing	☐ Fracture Treat	☐ Reclam	ation	■ Well Integrity		
☐ Subsequent Report	□ Casing Repair	■ New Construction	n 🔲 Recomp	olete	Other Other		
☐ Final Abandonment Notice	☐ Change Plans	□ Plug and Abando	n 🔲 Tempor	arily Abandon	Change to Original A PD		
	Convert to Injection	☐ Plug Back	☐ Water I	Disposal			
If the proposal is to deepen directionally or recomplete 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 recompletion 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 bottom hole location of Poker Lake Unit 440H to 744? FSL and 2,254? FEL Sec 19-24S-30E and change the intended target formation from the Avalon Shale to 2nd Bone Spring Shale. Please see the attached and updated plat. This will change our BHL lease number to NMNM 0002860.  BOPCO, L.P. respectfully requests to change plans for BOP testing due to the utilization of the Cameron MBS wellhead. BOPCO L.P. respectfully requests to nipple up and test BOPE on surface casing to 3,000 psi high and 250 psi low which will cover testing requirements for the duration of the well. Please find attached the schematic of the wellhead. The field report from the Cameron representative and the BOP test information will be provided in a subsequent report at the end of the well.  14. I hereby certify that the foregoing is true and correct.  Electronic Submission #218012 verified by the BLM Went plantation System For BOPCO LP, sent to the Carlsback of the Carlsback o							
14. I hereby certify that the foregoing is	true and correct.	10/24/13	STELL	HOMA			
, , ,	Electronic Submission #218 For BOP	012 verified by the BLM CO LP, sent to the Car	l Well (nilo) mation Isbad	n System	,		
	nmitted to AFMSS for process	mg by resitt commone	011 00/20/20 10 (1	oranor rosoc,			
Name (Printed/Typed) CHRISTO	PHER VOLEK	Title DR	ILLING ENGINE	ER			
Signature (Electronic S	Submission)	Date 08/	23/2013				
	THIS SPACE FOR	FEDERAL OR STA	TE OFFICE U	SE			
Approved By WESLEY INGRAM	d Approval of this series de		OLEUM ENGIN	EER	Date 10/18/2013		
Conditions of approval, if any, are attache certify that the applicant holds legal or equ which would entitle the applicant to condu	uitable title to those rights in the sub act operations thereon.	oject lease Office Car					
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a crin statements or representations as to a	ne for any person knowingl any matter within its jurisdic	y and willfully to m	ake to any department or	agency of the United		

### Additional data for EC transaction #218012 that would not fit on the form

### 32. Additional remarks, continued

BOPCO, L.P. also respectfully requests permission to amend the casing program for Poker Lake Unit #440H. This will be accomplished by drilling a 17-1/2? surface hole and setting a 13-3/8?, 48 ppf, H-40, ST&C surface string at approximately 457?. The 13-3/8? surface casing will be cemented to surface. The salt string will be drilled with an 11? hole drilled to approximately 3,425? and then cased using an 8-5/8?, 32 ppf, J-55, LTC intermediate string that will be cemented to surface. The production hole will be a 7-7/8? hole drilled to TD (15,533? MD/9,910?TVD). The production hole will be cased with 5-1/2?, 17 ppf, HCP-110, BTC casing and cemented back to 500? inside the 8-5/8? intermediate string.

Please see attached BHL plat, Cameron MBS diagram, new directional plan and updated cement and casing program.

DISTRICT I 1625 N. Prench Dr., Hobbs, NM 86240 DISTRICT II 1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102 Revised July 16, 2010

Submit one copy to appropriate District Office

### OIL CONSERVATION DIVISION

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

1000 Rio Brazos Rd., Aztec, NM 87410 DISTRICT IV 1220 S. St. Francis Dr., Santa Pe, NM 87505

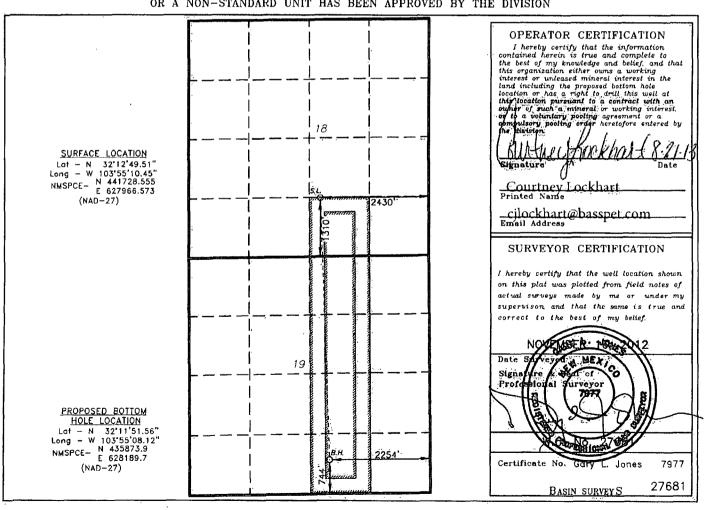
WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API	Number		)	Pool Code			Pool Name		,	
					1 1	NASH DRAW (DELAWARE, BS AVALON				
• •	Property Code Property Name							Well Number		
30640	)2			Р	OKER LAKE	UNIT		440	440H	
OGRID N	OGRID No. Operator Name						Elevation			
26073	57				BOPCO, L.	Ρ.		315	7'	
					Surface Loca	ation				
UL or lot No.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County	
0	18	24 S	30 E		1310	SOUTH	2430	EAST	EDDY	

Bottom Hole Location If Different From Surface Feet from the UL or lot No. Section Township Range Lot Idn North/South line Feet from the East/West line County 24 S 29 E 744 0 19 SOUTH 2254 **EAST EDDY** Dedicated Acres Joint or Infill Consolidation Code Order No. 200

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



02.197654

BOPCO, L.P. respectfully requests to change the bottom hole location of Poker Lake Unit 440H to 744' FSL and 2,254' FEL Sec 19-24S-30E and change the intended target formation from the Avalon Shale to 2<sup>nd</sup> Bone Spring Shale. Please see the attached and updated plat.

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### Revised Casing Program:

Турс	Interval (MD)	Hole Size
20" (already set)	0-120°	24"
13-3/8", 48 ppf, H-40, STC	0-457'	17-1/2"
8-5/8", 32 ppf, J-55, LTC	0-3,425'	11"
5-1/2", 17 ppf, HCP-110, BTC	0 - 15,533	7-7/8"

### Casing Program Safety Factors:

Type	Tension	Collapse	Burst
13-3/8", 48 ppf, H-40, STC	16.95	3.64	1.41
8-5/8", 32 ppf, J-55, LTC	4.04	1.39	1.27
5-1/2", 17 ppf, HCP-110, BTC	3.92	1.81	2.24

Cementing Program: Please see below for updates to cement program

13-3/8" Surface (gauge hole + 100% excess)

Primary Volume: 380 sacks

Primary Details: 13.7 ppg, 1.67 ft3/sk yield, H2O 8.68 gal/sk

Top of Primary: Surface

Primary Slurry: Class "C" Cement + 2% PF1

8-5/8" Intermediate salt string (fluid caliper + 30% excess)

Lead Slurry: Class "C" Cement: 6% Bentonite Gel + 0.2% Retarder + 5 lb/sk Kol Seal + 0.25

lb/sk Antifoam + 5% Salt

Lead Volume: 650 sacks

Lead Details: 12.9 ppg, 1.85 ft<sup>3</sup>/sk yield, H<sub>2</sub>O 9.81 gal/sk

Tail Slurry: Class "C" Cement: 0.2% Retarder

Tail Volume: 143 sacks

Tail Details: 14.8 ppg, 1.33 ft<sup>3</sup>/sk yield, H<sub>2</sub>O 6.300 gal/sk

Tail Length: 500'

TOC: Surface

5-1/2" Production (caliper volume + 30% excess)

1st Stage

Lead Slurry: 65/35 Class "H": Poz Cement: 5% Salt + 6% Bentonite + 0.6% Retarder + 0.125

lb/sk Cellophane + 0.25 lb/sk Antifoam + 3 lb/sk Kol-Seal LCM

Lead Volume: 500 sacks

Lead Details: 11.50 ppg, 2.25 ft<sup>3</sup>/sk yield, H<sub>2</sub>O 14.99 gal/sk

Top of Lead: DV Tool

Tail Slurry: PVL Cement: 1.3% Salt + 5% Expanding Cement + 0.5% Gel Suppressing Agent

+ 0.1% Antisettling agent + 0.6% Retarder + 0.25 pps Antifoam

Tail Volume: 614 sacks

Tail Details: 14.2 ppg, 2.62 ft<sup>3</sup>/sk yield, H<sub>2</sub>O 6.17 gal/sk

Top of Tail: KOP (9,346')

TOC: +/- 5,000' (DV Tool)

2<sup>nd</sup> Stage

Lead Slurry: 65/35 Class "C": Poz Cement: 5% Salt + 6% Bentonite + 0.6% Retarder + 0.125.

lb/sk Cellophane + 0.25 lb/sk Antifoam + 3 lb/sk Kol-Seal LCM

Lead Volume: 350 sacks

Lead Details: 11.50 ppg, 2.25 ft3/sk yield, H<sub>2</sub>O 9.922 gal/sk

Top of Lead: Surface

Tail Slurry: Class "C" Cement: 0.2% Retarder

Tail Volume: 100 sacks

Tail Details: 14.8 ppg, 1.33 ft3/sk yield, 6.320 gal/sk

Tail Length: 500'
TOC: Surface



§ 9000

9500

10000

True Vertical Depth (ft)

Location: Eddy County, NM

Fleid: Poker Lake Linit

Poker Lake Unit No: 440H and No. 441H Facility.

No. 440H SHL Well: No. 440H

Wellbore: No. 440H PWB

Nudge: 3700.00ft TVD, 0.00ft N, 0.00ft E EOB: 3799.98ft TVD, 0.00ft N, 1.75ft W Est KOP: 9336.60ft TVD, 0.00ft N, 195.09ft W

EOG: 9910.00ft TVD, 572.56ft S, 178.25ft W



500

0

-500

1000

-1500

-2000

2500

-4000

-4500

Northing -3000

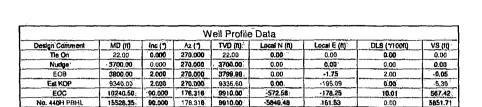
 $\equiv$ 3500

8

MAIH PWB

Scale 1 Inch - 1000 n Easting (ft)

No. 440H SHL



Pict reference wellpain is Rev-D.O.	
True vertical depths are reterenced to File on No. 440H SHL (NS)	Grid System: NAD27 / TM New Medoo SP, Eastern Zona (3001), US teet
Measured depths are referenced to Rig on No. 440H 83H. (KB)	North Fielerence: Grid north
FUg on No. 440H SHL (KB) to Mean 500 Level: 3179 feet.	Boxile: True distance
Mean Sea Level to Mud Ine (At Slot: No. 440H SHL): 0 feet	Capthis are in feet
Coordinates are in feet reterenced to Skit	Created by: genibry on 08/13/2013



BGGM (1945.0 to 2015.0) Db: 60.05\*, Fleid: 48349.3 nT
Magnetic North is;7.60 degroes East of True North (at 07/24/2013)
Grid North is 0.22 degroes East of True North
To correct azimuth from True to Grid subtract 0.22 degrees
To correct azimuth from Nagnetic to Grid acid 7.37 degrees
For example: If the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.37 = 97.37

Est KOP: 2.00° Inc, 9340.00ft MD, 9336.60ft TVD, -5.39ft VS

1000

EOC : 90.00° Inc, 10240.50ft MD, 9910.00ft TVD, 567.42ft VS

2000

2500

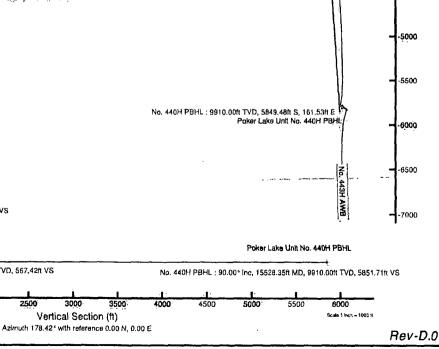
3000

Vertical Section (ft)

1500

10.01 1100h

500





### Planned Wellpath Report Rev-D.0 Page 1 of 6



REFER	ENCE WELLPATH IDENTIFICATION		多不是一位的主义的基础是公理的基础是是基础的主义。
Operator	BOPCO, L.P.	Slot	No. 440H SHL
Area	Eddy County, NM	Well	No. 440H
Field	Poker Lake Unit	Wellbore	No. 440H PWB
Facility	Poker Lake Unit No. 440H and No. 441H		

REPORT SETUP	INFORMATION		
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Gentbry
Scale	0.999928	Report Generated	08/13/2013 at 1:56:16 PM
Convergence at slot	0.22° East	Database/Source file	WA Midland/No440H_PWB.xml

WELLPATH LOCATION							
The Company of the International Conference on the Company of the	Local coordinates Grid coordinat			ordinates	Geographic coordinates		
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude	
Slot Location	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55'10.451"W	
Facility Reference Pt			627966.57	441728.55	32°12'49.506"N	103°55'10.451"W	
Field Reference Pt			630272.49	405347.85	32°06'49.387"N	103°54'45.266"W	

WELLPATHDATU	M		
Calculation method	Minimum curvature	Rig on No. 440H SHL (KB) to Facility Vertical Datum	3179.00ft
Horizontal Reference Pt	Slot	Rig on No. 440H SHL (KB) to Mean Sea Level	3179.00ft
Vertical Reference Pt	Rig on No. 440H SHL (KB)	Rig on No. 440H SHL (KB) to Mud Line at Slot (No. 440H SHL)	3179.00ft
MD Reference Pt	Rig on No. 440H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	178.42°



### Planned Wellpath Report Rev-D.0 Page 2 of 6



REBER	ENCE WELLPATH IDENTIFICATION		
Operator	BOPCO, L.P.	Slot	No. 440H SHL
Area	Eddy County, NM	Well	No. 440H
Field	Poker Lake Unit	Wellbore	No. 440H PWB
Facility	Poker Lake Unit No. 440H and No. 441H		

WELLP	ATH DA'	ГА (174	stations	) (t = i	nterpo	olated	/extrapola	ted station	The second secon			A Section of the second
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	270.000	0.00	0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55'10.451"W	0.00	
22.00	0.000	270.000	22.00	0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55'10.451"W	0.00	Tie On
122.00†	0.000	270.000	122.00	0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55'10.451"W	0.00	Statement Courses No. 1
200.00†	0.000	270.000	200.00	0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55'10.451"W	0.00	Rustler
222 00 t	0.000	270.000	222:00	<b>000</b>	<b>40.00</b>	(0.00	62796657	4417/28/55	32°12'49'506'N	#103°55'10'451'W	0.00	
322.00†	0,000	270.000	322.00	0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55'10.451"W	0.00	
422.00†	0.000		422.00	0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55'10.451"W	0.00	
480.00†	0.000		480.00	0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55′10.451"W	0.00	Salado
522.00†	0.000		522.00	0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55'10.451"W	0.00	
622.00t		270.000		<b>0.00</b>				744172855			(0.00)	
722.00†	0.000		722.00	0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55′10.451"W	0.00	
822.00†	0.000		822.00	0.00	0.00	0.00		441728.55	32°12'49.506"N	103°55'10.451"W	0.00	
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1022.00†	0.000	L		0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55'10.451"W	0.00	
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1222.00†	0.000			0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55'10.451"W	0.00	and the second of the second
1322.00†		270.000		0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55′10.451″W	0.00	general and the second
1422.00†		270.000	·	0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55'10.451"W	0.00	
1522.00†	0.000	270.000		0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55′10.451"W	0.00	
#1622!00†			1622.00					Contract the Landson	2 32°12495065N			
1722.00†	0.000		l	0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55'10.451"W	0.00	
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1922.00†	0.000	270.000		0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55'10.451"W	0.00	
2022.00†	0.000			0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55'10.451"W	0.00	
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2222.00†	0.000			0.00	0.00	0.00		441728.55	32°12'49.506"N	103°55'10.451"W	0.00	#*************************************
2322.00†	0.000		2322.00	0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55'10.451"W	0.00	• · · · · · · · · · · · · · · · · · · ·
2422.00†	0.000		***********	0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55'10.451"W	0.00	H
2522.00†	0.000			0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55'10.451"W	0.00	
2622.00†		The state of the state of	2622(00)		0.00	0.00		744172855 44172855	Contract to the second	103°55'10'451"W	<u>(0.00)</u>	2.200.000
2722.00† 2822.00†	0.000			0.00	0.00	0.00	627966.57 627966.57	441728.55 441728.55	32°12'49.506"N 32°12'49.506"N	103°55'10.451"W 103°55'10.451"W	0.00	
2922.00+	0.000			0.00	0.00	0.00	627966.57	441728.55	32°12'49.506 N	103°55'10.451"W	0.00	alamber war on the contract of
3022.00	0.000		L	0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55'10.451"W	0.00	<b></b>
3022.00 3122!00†			3122.00		0.00	0.00	62796657			\$103 33 10.431 W	0.00	
3222.00+	0.000			0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55'10.451"W	0.00	Name of the State
3322.00†	0.000		Anna de la constitución de la co	0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55'10.451"W	0.00	
3422.00†	0.000			0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55'10.451"W	0.00	
3426.00†	0.000	270.000		0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55'10.451"W	N 1	Lamar
3436.001		270.000				30.00	<u> </u>		32°12'49'506'N			Delaware Sands
3522.00†	0.000		Secretary and the second section	0.00	0.00	0.00	627966.57	441728.55	32°12'49.506"N	103°55'10.451"W	0.00	
3622.00†	0.000	*************		0.00	0.00	0.00	627966.57		32°12'49.506"N	103°55'10.451"W	0.00	***************************************
3700.00	0.000			0.00		0.00	627966.57	441728.55	32°12'49.506"N	103°55'10.451"W		Nudge
3722.00†	0.440			0.00	0.00	-0.08	627966.49	441728.55	32°12'49.506"N	103°55'10.452"W	2.00	
\$3800:00										103 55 10:47/14W/		FOR
836UU.UU!	M. C. W. C. COLU	1.7.0.000	[סל בכו כבו	44.0.03	10.00	17/3/	(402//204:82)	[744][(20)33]	N. OUGKHATITE	371U3833/1U47/IMW/	22:00	CODE STATE



### Planned Wellpath Report Rev-D.0 Page 3 of 6



REBER	ENCEWELLPATH IDENTIFICATION ::: ::::::::::::::::::::::::::::::::	ensens.	
Operator	BOPCO, L.P.	Slot	No. 440H SHL
Area	Eddy County, NM	Well	No. 440H
Field	Poker Lake Unit	Wellbore	No. 440H PWB
Facility	Poker Lake Unit No. 440H and No. 441H		

WELLE	ATH DA	TA (17	4 statio	ns) # † =	inte	rnolate	l/extrapol	ated static	in .			
MD [ft]	Inclination [°]	THE PERSON NAMED IN	TVD [ft]	Vert Sect			Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
3822.00†		270.000		-0.07	0.00	-2,51	627964.06		32°12'49.506"N	103°55'10.480"W	0.00	amideannouncedanelificondebuthous considerations
3922.00†		270.000	Annual Conductor of the Personal Conductor of the Conduct	-0.17	0.00	-6.00		441728.55	32°12'49.507"N	103°55'10.521"W	0.00	and respectively desired the second s
4022.00†	2.000	270,000	4021.84	-0.26	0.00	-9.49	627957.08	441728.55	32°12'49.507"N	103°55'10.561"W	0.00	andre marifica confusion de describe de la compansión de la compansión de la compansión de la compansión de la
4122.00†		270.000	fifinate from every enion.	-0.36	0.00	-12.98	627953.59		32°12'49.507"N	103°55'10.602"W	0.00	i an est de la composition de la constitució de la constitución de la
4222.00	2:000	270.000	4221.72		0.00	16/47	627950:10	441728:55	3291249507#N	103°55'10'643"W	0.00	
4322,00†	2.000	270.000	4321.66	-0.55	0.00	-19.96	627946.61	441728.55	32°12'49.507"N	103°55'10,683"W	0.00	and the second s
4422.00†	2.000	270.000	4421.60	-0.65	0.00	-23.45	627943.12	441728.55	32°12'49.507"N	103°55'10.724"W	0.00	and the second state of the second state of the second second second second second second second second second
4522.00†	2.000	270.000	4521.54	-0.74	0.00	-26.94	627939.63	441728.55	32°12'49.507"N	103°55'10.764"W	0.00	and the second s
4622.00†		270.000	4621.48	-0.84	0.00	-30.43	627936.14	441728.55	32°12'49.507"N	103°55'10.805"W	0.00	
4722 00 f	2.000	270.000	4721/42	c0.94	0:00	-33.92	627,932.65	44172855	32°12'49'508FN	103°55 10 846°W	0.00	
4822.00†	2.000	270.000	4821.36	-1.03	0.00	-37.41	627929.16	441728.55	32°12'49.508"N	103°55'10.886"W	0.00	providence and the second seco
4922.00†	2.000	270.000	4921.30	-1.13	0.00	-40.90	627925.67	441728.55	32°12'49.508"N	103°55'10.927"W	0.00	Commission of the Party of the State of the
5022.00†	2.000	270.000	5021.24	-1.23	0.00	-44.39	627922.18	441728.55	32°12'49.508"N	103°55'10.968"W	0.00	
5122.00†	2.000	270.000	5121.17	-1.32	0.00	-47.88	627918.69	441728.55	32°12'49.508"N	103°55'11.008"W	0.00	
5222:00†	2!000	270.000	5221.111	÷1/42	0.00	-51.37	627915:20	441728:55	32°12'49.508"Ni	103°55'11'049"W	0:00	
5322.00†	2.000	270.000	5321.05	-1.51	0.00	-54.86	627911.71	441728.55	32°12'49.508"N	103°55'11,089"W	0.00	
5422.00†	2.000	270.000	5420.99	-1.61	0.00	-58.35	627908.22	441728.55	32°12'49.509"N	103°55'11.130"W	0.00	
5522.00†		270.000		-1.71	0.00	-61.84	627904.73	441728.55	32°12'49.509"N	103°55'11.171"W	0.00	
5622.00†	2.000	270.000	5620.87	-1.80	0.00	-65.33	627901.24	<del></del>	32°12'49.509"N	103°55'11.211"W	0.00	
5722:001	2!000	270,000	5720.81	(1:90	000	€68.82	62789775		32°12'49.509"N	103°55'11'.252"W	0.00	
5822.00†	2.000	270.000	5820.75	-2.00	0.00	-72.31	627894.26	441728.55	32°12'49.509"N		0.00	
5922.00†	Annual transfer and a	270.000	A Charles and the Control of the Con	-2.09	0.00	-75.80	627890.77	441728.55	32°12'49.509"N	103°55′11.333"W	0.00	
6022.00†	the state of the s	270.000	manager, sittle of the second second	-2.19	0.00	-79.29	627887.28	441728.55	32°12'49.509"N	103°55'11.374"W	0.00	
6122.00†		270.000		-2.29	0.00	-82.78	627883.79		32°12'49.509"N		0.00	
6222:00			6220:50	Ferritoria and the second	0.00					103°55111455°W	0.00	and the second second
6322.00†	A	270.000		-2.48	0.00	-89.76	627876.81		32°12'49,510"N	103°55'11.496"W	0.00	iid kantala musiya mali kali ka Hamakika pakiya pakiya ya ya ya maka
6422.00†	Same and the same	270.000		-2.57	0.00	-93.25	627873.33		32°12'49.510"N	103°55'11.536"W	0.00	Address of the same of the sam
6522.00†	L	270.000	Annual Property	-2.67	0.00	-96.74	627869.84		32°12'49.510"N	103°55'11.577"W	0.00	
6622.00†		270.000		-2.77	0.00	-100.23	627866.35	441728.55	32°12'49.510"N	103°55'11.617"W	0.00	! 
6722 00		- Carrier Contract Co	6720:20	-	-			***		103f55f11k658# <b>W</b>		
6822.00	Large of the second second second	270.000	And the second second second	-2.96	· •	-107.21	627859.37		32°12'49.510"N	103°55'11.699"W	0.00	
6922.00†	·	270.000	مسمعتين بيديث تشمد متعيد عن الأ	-3.06	عبد نجرت مدت څ	-110.70	627855.88	441728.55	32°12'49.511"N	103°55'11.739"W	0.00	
6975.96†	·	270.000	المستنب منتجوبها	-3.11	0.00		627853.99		32°12'49.511"N	103°55'11.761"W		Lower Brushy Canyon
7022.001	1	270.000		-3.15			627852.39	441728.55	32°12'49,511"N	103°55'11.780"W	0.00	
7/122/00			7119.96	12000	(0:00	Printer Commence	Company of the second		32812495114N		Commence of the Commence of th	
7222.00†	بماكمونيوب وشيدوبيوجيون	270.000	دونيستون ويوني مانيورو	-3.35		-121.17	627845.41	441728.55	32°12'49.511"N	103°55′11.861″W	0.00	adionichidapin hidigi na jedynista ar anter dy anyong y a alaren amarinista
7228.11†		270.000		-3.35	0.00	\$ promotes and of some	627845.19	I demonstrate an alcommendate laborary	32°12'49.511"N	103°55'11.864"W		Bones Spring LS
7322.00†		270.000		-3.44			627841.92		32°12'49.511"N	103°55'11.902"W	0.00	whomen transactions and adding or the wigo surfaced reporting to, any or set of
7422.00†		270.000		-3.54	U.UU	-128.15	62/838.43	441/28.55	32"12"49.511"N	103°55'11.942"W	0.00	
7423.23†			7421.00			the state of the s	and the same of th			103°55111943°W		Upper/Avalon/Shale
7522.00†		270.000		-3.63	-		627834.94		A CONTRACTOR OF THE PARTY AND THE REPORT OF THE PARTY AS A SHARP AS A SHAPP A	letteren Dilutterrepubliker geligteren zu er bei die termentellige unt die den er bei der den er bei der den e	0.00	nunt rhannigs binas arbidas also, to because was service to the a der
7622.00†		270.000		-3.73	I		627831.45		32°12'49.511"N		0.00	digital adalaments, improving a consequence of a second
7722.00†			7719.59					441728.55	32°12'49.512"N		0.00	magnanus papariumbasu mma muusi abdogramayasu ku mash 😘
7822.00†	2.000	270.000	7819.53		0.00	-142.11	627824.47	441728.55		103°55'12.105"W		
2/834/48†	2.000	270!000	<u>1832</u> .00	3.94	0.00	142-55	627,824:03	<b>441//28:55</b>	3241249(5124N)	3103255/12/100/W	(00.00	Lower Avalon Shale



### Planned Wellpath Report Rev-D.0 Page 4 of 6



REFER	ENCE WELLPATH IDENTIFICATION		
Operator	BOPCO, L.P.	Slot	No. 440H SHL
Arca	Eddy County, NM	Well	No. 440H
Field	Poker Lake Unit	Wellbore	No. 440H PWB
Facility	Poker Lake Unit No. 440H and No. 441H		

WELLP	ATH DA	TA (17	4 statio	ns) † =	interpo	lated/e	xtrapolat	ed station				
MD [ft]	Inclination [°]			Vert Sect [ft]		East [ft]		Grid North [US ft]		Longitude	DLS [°/100ft]	Comments
7922.00†		270.000	7919.47	-4.02	0.00	-145.60	627820.98	441728.55	32°12'49.512"N	103°55'12.146"W	0.00	
8022.00†	2.000	270.000	8019.41	-4.12	0.00	-149.09	627817.49	441728.55	32°12'49.512"N	103°55'12.186"W	0.00	
8122.00†	2.000	270.000	8119.35	-4.21	0.00	-152.58	627814.00	441728.55	32°12'49.512"N	103°55'12,227"W	0.00	
8204.70†	2.000	270.000	8202.00	-4.29	0.00	-155.47	627811.11	441728.55	32°12'49.512"N	103°55'12,260"W	0.00	1st Bone Spring Sand
#8222!00†	2.000	270.000	8219.29	<b>2431</b>	0.00	÷156:07	627810:51	44172855	32912/49/5125N	103°55'12:267'W	0.00	
8322.00†	2.000	270.000	8319.23	-4.40	0.00	-159.56	627807.02	441728.55	32°12'49.512"N	103°55'12.308"W	0.00	
8413.83†	2.000	270.000	8411.00	-4.49	0.00	-162.77	627803.82	441728.55	32°12'49.513"N	103°55'12.345"W	0.00	1st Bone Spring Shale
8422.00†	2.000	270.000	8419.16	-4.50	0.00	-163.05	627803.53	441728.55	32°12'49.513"N	103°55'12.349"W	0.00	
8522.00†	2.000	270.000	8519.10	-4.60	0.00	-166.54	627800.04	441728.55	32°12'49.513"N	103°55'12.389"W	0.00	
8622.00	2.000	270!000	8619.04	4/69	0.00	i∃170!03	(6277)96:55	44172855	3291249513FN	-103%55/12/430#W	<b>\$20.00</b>	
8722.00†	2.000	270.000	8718.98	-4.79	0.00	-173.52	627793.06	441728.55	32°12'49.513"N	103°55'12.470"W	0.00	in the second second second second
8822.001		270.000	spine their factors were	-4.89					32°12'49.513"N	103°55'12.511"W	0.00	Annual Annual of the second
8922.00†		270.000	8918.86	-4.98	0.00	-180.50	627786.08	441728.55	32°12'49.513"N	103°55'12.552"W	0.00	
9022.00†	2.000	270.000	9018.80	-5.08	0.00	-183.99	627782.59	441728.55	32°12'49.513"N	103°55'12.592"W	0.00	
9046 221	2/000	270.000	9043.00	5 10	(0.00	18484	627781475	44172855	32912/49/5139N	1103°55'112.602°W	0000	2nd Bone Spring Sand
9122.00†	2.000	270.000	9118.74	-5.18	0.00	-187.48	627779.10	441728.55	32°12'49.513"N	103°55'12.633"W	0.00	
9222.00		270.000	9218.68	-5.27	0.00	-190.97	627775.61	441728.55	32°12'49.514"N	103°55'12.674"W	0.00	
9322.00	2.000	270.000	9318.62	-5.37	0.00	-194.46	627772.12	441728.55	32°12'49.514"N	103°55'12.714"W	0.00	1
9340.00	2.000	270.000	9336.60	-5.39	0.00	-195.09	627771.50	441728.55	32°12'49.514"N	103°55'12.722"W	0.00	Est KOP
9422!00	8:320	190 102	9418!29	££0.39	<b>₹</b> 25!85	197/56	62776902	44172270	32°12/49/456'N	1103°55'12:751EW	\$10.01	
9522.00†		182.403		23.11					32°12'49.231"N	103°55'12.774"W	10.01	Militaria di Santa de la Caración de
9622.00†	28.161	180.049	9607.32	62.37	-67.92	-200.17	627766.42	441660.63	32°12'48.842"N	103°55'12.784"W	10.01	The second section of the second seco
9722.00†	38.149	178.859	9690.94	116.98	-122.54	-199.57	627767.01	441606.02	32°12'48.301"N	103°55'12.779"W	10.01	Transportation of the sparine
9727.18†	38.667	178.812	9695.00	120.20	-125.76	-199.51	627767.08	441602.80	32°12'48.269"N	103°55'12.779"W	10.01	2nd Bone Spring Shale
9822 001	/48/145	1789105	9763!81	185!28	4190/81	\$197/7/2	(6277,68!86)	4411537/75	13291247/6269N	1103°55'12:761°W	10.01	
9922.00†	58.144	177.557	9823.71	265.19	-270.67	-194.67	627771.91	441457.90	32°12'46.835"N	103°55'12.729"W	10.01	
10022.00†	68.145	177.117	9868.83	354.28	-359.67	-190.52	627776.07	441368.90	32°12'45.954"N	103°55'12.684"W	10.01	
10122.00†	78.147	176.735	9897.79	449.83	-455.12	-185.38	627781.20	441273.47	32°12'45.010"N	103°55'12.629"W	10.01	
10222.00†	88.149	176.381	9909.70	548.93						103°55'12.564"W	10.01	
1024050	90:000	176:316	9910:00	567/42	#572 <sup>1</sup> 56	178:25	62778834	4411156103	3291243 847AN	103955112551FW	10.01	EOC
10322.00+			9910.00	648.86	-	The same of the sa	I was a second or the second	4		103°55'12.494"W	0.00	
10422.00	90.000	176.316	9910.00	748.80	-753.68				32°12'42.055"N	103°55'12.423"W	0.00	
10522.00†		176.316		848.73					32°12'41.067"N	I the name of the same of the	0.00	
10622.00†		176.316		948.66					32°12'40.079"N	103°55'12.283"W	0.00	
10722:00				Promote and the face of the					And the second s	103°5512-213-W	(0!00	
10822.00†						<u> </u>	<del></del>		·	103°55'12.142"W	0.00	
10922.00†				1248.46					32°12'37.116"N	103°55'12.072"W	0.00	
11022.00†										103°55'12.002"W	0.00	
11122.00†										103°55'11.931"W	0.00	
111222/001										103855111/861EW	(0.00	
11322.00†										103°55'11.791"W	0.00	
11422.00†										103°55'11.720"W	0.00	
11522.00†					-1851.41					103°55'11.650"W	0.00	
11622.00†	90.000	176.316	9910.00	1947.99	-1951.20	-89.48				103°55′11.580"W	0.00	
111722.001	90,000	1176316	9910.00	2047.92	£2051/00	£83!05	(627,883 <sup>1</sup> ,52	¥439677571	32912-2912145N	#103#55#11/509#W	20:00	



# Planned Wellpath Report Rev-D.0 Page 5 of 6



REFER	ENCE WELLPATH IDENTIFICATION		。1995年代中国全国政治政治政治区域等2007年1993年
Operator	BOPCO, L.P.	Slot	No. 440H SHL
Area	Eddy County, NM	Well	No. 440H
Field	Poker Lake Unit	Wellbore	No. 440H PWB
Facility	Poker Lake Unit No. 440H and No. 441H		

WELLPA	TH DA	FA (174	stations	iyat≟i	ntérpola	ted/ext	rapolated	station				
MD [ft]	Inclination [°]	district the second section of	TVD [N]	Vert Sect		East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
11822.00†	90.000	<del></del>	water and the second	2147.85	-2150.79	-76.63	627889.95	439577.92	32°12'28.226"N	103°55'11.439"W	0.00	
11922.00†	State of the State	176.316			-2250.58	-70.20	627896.37	439478.13	32°12'27.239"N	103°55′11.369"W	0.00	
12022.00†		176,316		أجينتن بجيه وأباب المحصورة	أحدد المحمد المصاب منانة أ	-63.78	627902.80	439378.35	32°12'26.251"N	103°55'11.298"W	0.00	
12122.001	90.000	176.316	9910.00	2447.65	-2450.17	-57.35	627909.22	439278.56	32°12'25.263"N	103°55'11.228"W	0.00	
12222.001	90.000	176316	9910.00	254759	2549.96	-5093	627915.65	439178.78	32912224:275 <sup>0</sup> N	3103°551014158°W	0.00	
12322.00†	90.000	176.316	9910.00	2647.52	-2649.76	-44.50	627922.07	439078.99	32°12'23.288"N	103°55'11.087"W	0.00	
12422.00†	90.000	176.316	9910.00	2747.45	-2749.55	-38.08	627928.50	438979.20	32°12'22.300"N	103°55'11.017"W	0.00	
12522.00†	90.000	176.316	9910.00	2847.38	-2849.34	-31.65	627934.92	438879.42	32°12'21,312"N	103°55'10.947"W	0.00	
12622.00†			9910.00		-2949.14	-25.22	627941.35	438779.63	32°12'20.324"N	103°55'10.877"W	0.00	
12722 00†	90.000	176316	<b>9910:00</b>	3047!25	-3048.93	18.80	627947.77	438679.85	32912119:337#N	103°55'10'806"W	0.00	
12822.00†	90.000	176.316	9910.00	3147.18	-3148.72	-12.37	627954.20	438580.06	32°12'18.349"N	103°55'10.736"W	0.00	
12922.00†			9910.00	3247.11	-3248.52	-5.95	627960.62	438480.27	32°12'17.361"N	103°55'10.666"W	0.00	
13022.00†	90.000	176.316	9910.00	3347.05	-3348.31	0.48	627967.05	438380.49	32°12'16.373"N	103°55'10.595"W	0.00	
13122.00†			9910.00		-3448.10	6.90	627973.47		32°12'15.386"N	103°55'10.525"W	0.00	
13222.001					#3547/90	13:33		(438180.92)		\$103°55;10′455°W		200
13322.00†	Married States of the Control of the	176.316			-3647.69	19.76	627986.32	i water was an annual service of	32°12'13.410"N	103°55'10.384"W	0.00	inderview
13422.00†		176.316	torrein, mercanismo	·	-3747.48	26.18	627992.75	437981.34	32°12'12.422"N	103°55'10.314"W	0.00	
13522.00†		176.316		Luinimulania		32.61	627999.17	437881.56	32°12'11.435"N	103°55'10.244"W	0.00	
13622.00†			9910.00		-3947.07	39.03	628005.60	437781.77	32°12'10.447"N	103°55'10.173"W	0.00	A THAN CONTROL PARCENCE AND A STATE OF THE S
13722 001	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									\$103955/10/103#W		
13822.00†	I	176.316	Land a discourse of	Lancium manual market	-4146.66	51.88	628018.45	437582.20	32°12'08.471"N	103°55'10.033"W	0.00	
13922.00†	90.000			4246.44	-4246.45	58.31	628024.87	437482.41	32°12'07.484"N	103°55'09.963"W	0.00	
14022.00†			1		-4346.24	64.73	628031.30		32°12'06.496"N	103°55'09.892"W	0.00	
14122.00†			9910.00		-4446.04	71.16	628037.73		32°12'05.508"N	103°55'09.822"W	0.00	
14222(00)	The same of the sa				-4545!83		The supplied of the supplied of	437183!06	Control Control of the Control of th	103°55'09'752#W		
14322.00†	90.000		9910.00	-	-4645.62	84.01	628050.58		32°12'03.533"N	103°55'09.681"W	0.00	
14422.00†	-	176.316		4746.10	-4745.42	90.44	628057.00	<u> </u>	32°12'02.545"N	103°55'09.611"W	0.00	<u> </u>
14522.00†	90.000		9910.00	4846.04	-4845.21	96.86	628063.43		32°12'01.557"N	103°55'09.541"W	0.00	<u> </u>
14622.00†	90.000	1	9910.00	<u> </u>	-4945.00	103.29	628069.85		32°12'00.570"N	103°55'09.470"W	0.00	
14722.00	A control of the cont		Comment of the Commen		Annual Control of the	211	The state of the s	7436684.13		103 <sub>2</sub> 55 09 400 kW		
14822.00†		-	9910.00		-5144.59		628082.70	The same and the s	32°11'58.594"N	103°55'09.330"W	0.00	-
14922.00†			9910.00	5245.77	-5244.38		628089.13		32°11'57.606"N	103°55'09.259"W	0.00	- Language
15022.00†		وجنيكميا ميانجون فسيعبور أح	9910.00	A	-5344.18		628095.55	ومحمدة تفويد تنديبا المستوالة	32°11'56.619"N 32°11'55.631"N	103°55'09.189"W	0.00	·
15122.00†			9910.00		-5443.97	135.42	628101.98	436284.98 436185:20		103°55'09.119"W 103°55'09:049=W	0.00	. L
			-			-	628108:40	the state of the s	32°11'53.655"N	103°55'08.978"W	***************************************	37
15322.00†	90.000		9910.00 9910.00	5745.43	-5643.56 -5743.35	-	628121.25	t	32°11'53.655'N	103°55'08.908"W	0.00	Andreas and the second second
15422.00†	90.000		9910.00	5845.36	-5843.14	Z		435885.84	32°11'51.680"N	103°55'08.838"W	0.00	
15522.00†	~~~~		Lancon encourage		CONTRACTOR PRODUCTION	ALEXANDER CONTRACTOR	PROPERTY ASSESSMENT OF THE PARTY OF THE PART	· Principal and the Contract of the Contract o	Armania in the second second second second	SACTOR MINISTRACTOR CONTROL CO		
15528.35	90.000	1/6.316	9910:00	5851.71	2047.48	101.93	(028128:05	164738NAP	RPOZNINO POWAN	[;4103\$55;08!833#W	0.00	No. 440H PBHL



## Planned Wellpath Report Rev-D.0 Page 6 of 6



REFER	ENCE WELLPATH IDENTIFICATION		
Operator	BOPCO, L.P.	Slot	No. 440H SHL
Area	Eddy County, NM	Well	No. 440H
Field	Poker Lake Unit	Wellbore	No. 440H PWB
Facility	Poker Lake Unit No. 440H and No. 441H		

TARGETS				ه د بای آستان گذورست الدیکندن					
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East	Grid North (US ft)	Latitude	Longitude	Shape
1) Poker Lake Unit No. 440H	15528.35	9910:00	£5849/48	161 54	628128.10	435879.50	32°11\51\617\N	103255 08/833" <sub>(</sub> W	point
PBHL								_	1

SURVEY PRO	GRAM - Ref	Wellbore: No. 440H PWB Ref Wellpath: Rev. D.0		
Start MD	End MD	Positional Uncertainty Model	Log Name/Comment	Wellbore
[ft]	[ft]			
22.00	15528.35	NaviTrak (Standard)		No. 440H PWB

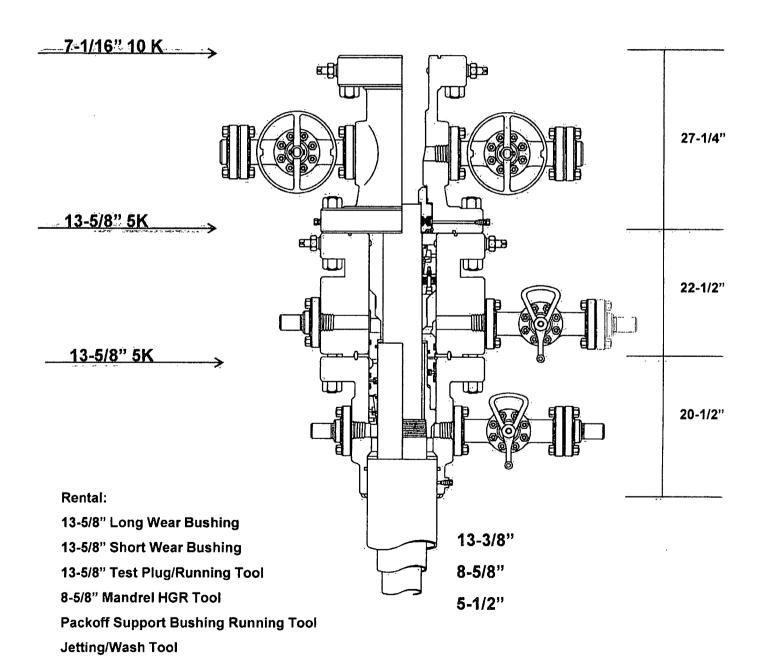


**CUSTOMER: BOPCO** 

**PROJECT: Poker Lake Unit 440H** 

RIG: Latshaw #4

CASING PROGRAM: 13-3/8" x 8-5/8" x 5-1/2"



Poker Lake Unit 440H 30-015-41299 BOPCO, L.P. October 15, 2013 Conditions of Approval

The existing COA will remain in effect with the following modifications:

### Casing

- 1. Operator will use a plant blend for the surface casing cement that has a weight of 14.8 ppg and a yield of 1.33 cubic feet/sack.
- 2. The minimum required fill of cement behind the 8-5/8 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 or potash.

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

3. The minimum required fill of cement behind the 5-1/2" inch production casing is:

Operator has proposed DV tool at depth of  $\pm$  5000°. If DV tool is moved over  $\pm$  100°, operator shall submit a sundry.

- 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 circulation or 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. Confirmed with Chris Volek since it varies from documents attached to sundry.

### **Pressure Control**

1. Operator shall not perform any BOP test against the casing since operator has proposed a multi-bowl wellhead.

- 2. 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.

WWI 101513