	PARTMENT OF THE INT UREAU OF LAND MANAGI	TERIOR O EMENT	CD Artesia		IO. 1004-0135 : July 31, 2010	
	NOTICES AND REPOR is form for proposals to di			NMNM05039A		
abandoned wel	II. Use form 3160-3 (APD)	for such proposals.		6. If Indian, Allottee	or Tribe Name	
SUBMIT IN TRI	PLICATE - Other instructi	ons on reverse side.		7. If Unit or CA/Agree 891000303X		or No.
 Type of Well Oil Well Gas Well Oth 	ier			8. Well Name and No POKER LAKE U	». NIT 471H	
2. Name of Operator BOPCO LP	Contact: El E-Mail: eosborne@b	LIZABETH OSBORNE asspet.com		9. API Well No. 30-015-43435-	00-X1	
3a. Address P O BOX 2760 MIDLAND, TX 79702		3b. Phone No. (include area code Ph: 817-390-8671)	10. Field and Pool, o CORRAL CAN		_
4. Location of Well <i>(Footage, Sec., T.</i>	, R., M., or Survey Description)			11. County or Parish	, and State	
Sec 34 T25S R30E NENE 900	OFNL 860FEL	· · · · · ·		EDDY COUNT	Y. NM	
12. CHECK APPR	ROPRIATE BOX(ES) TO	INDICATE NATURE OF	NOTICE, R	EPORT, OR OTHI	ER DATA	
TYPE OF SUBMISSION		ТҮРЕ О	F ACTION			
Notice of Intent	□ Acidize	Deepen	Product	tion (Start/Resume)	🗖 Water Shu	ut-Of
_	Alter Casing	Fracture Treat	🗖 Reclam	ation	🗖 Well Integ	grity
Subsequent Report	Casing Repair	New Construction	🗖 Recom	plete	Other	
☐ Final Abandonment Notice	Change Plans	Plug and Abandon	Tempo	rarily Abandon	Change to O PD	rıgın
	Convert to Injection	Plug Back	🗖 Water I	Disposal		
If the proposal is to deepen directiona Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab determined that the site is ready for finant BOPCO, L.P. Respectfully req the Delaware to the Second B Second Bone Spring Sand ton	rk will be performed or provide th l operations. If the operation resu bandonment Notices shall be filed inal inspection.) quests to change the produc	e Bond No. on file with BLM/BL Its in a multiple completion or rec only after all requirements, inclu ction horizon of the Poker L	A. Required su completion in a ding reclamatio .ake Unit 47	bsequent reports shall t new interval, a Form 3 on, have been completed 1H from	be filed within 30 da 160-4 shall be filed 1, and the operator h	ays once 1as
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BOPCO, L.P., Poker Lake Unit #471H

1. Geologic Formations

TVD of target	9703	Pilot hole depth	NA
MD at TD:	19099	Deepest expected fresh water:	400

The Surface hole location is nonstandard, and inside the Poker Lake Unit.

D	•
- Ka	CI11
u	311

	CARGE AND A MARKET AND A STATE		
Formation	Depth (TVD)	Water/Mineral Bearing/	
	from KB	Target Zone?	
Quaternary Fill	Surface	Water	
Top Rustler	852	Water	
Top Salado	1187	Salt	
Base Salt	3684	Salt	
Top Lamar	3882	Barren	:
Cherry Canyon	4837	Oil/Gas	
Brushy Canyon	6040	Oil/Gas	
T/Bone Spring Lime	7604	Oil/Gas	
1 st Bone Spring Sand	8612	Oil/Gas	
Top 2 nd BS Sand	9456	Target Zone	
Top 3 rd BS Sand	10591	Oil/Gas	

*H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program

Hole	Casin	g Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF
Size	From	То	Size	(lbs)			Collapses	Burst	Tension
17.5"	0	1160	13.375"	54.5	J55	STC	2.00	1.77	9.43
12.25"	0	3850	9.625"	40	J55	LTC	1.14	1.84	4.85
8.75"	0	19099	5.5"	17	HCP110	LTC	1.63	1.94	3.79
*		*		BLM Min	imum Safe	ty Factor	1.125	1	1.6 Dry
						-			1 8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	V NL					
	1 OF IN					
Is casing new? If used, attach certification as required in Onshore Order #1						
Is casing API approved? If no, attach casing specification sheet.						
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N					
Does the above casing design meet or exceed BLM's minimum standards? If not provide	Ý					
justification (loading assumptions, casing design criteria).						
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the						
collapse pressure rating of the casing?						
Is well located within Capitan Reef?	Ν					
If yes, does production casing cement tie back a minimum of 50' above the Reef?						
Is well within the designated 4 string boundary.	N					

BOPCO, L.P., Poker Lake Unit #471H

Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back	N
500' into previous casing?	
a de la manaforma de la companya de la presenta de	2517.251717
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	N
Is 2 nd string set 100' to 600' below the base of salt?	Y
	en di terpit
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	· N
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N
	2012) (C. 201 7)
Is well located in critical Cave/Karst?	Ň
If yes, are there three strings cemented to surface?	N

3. Cementing Program

Casing	# Sks	Wt.	Yld	H ₂ 0	500#	Slurry Description
		lb/ .	ft3/	gal/sk	Comp.	
		gal	sack		Strength ((hours)	
Surf.	690	13.5	1.75	8.69	14	Lead: Class C +2% CACL + 4% Bentonite + 0.25
						LB/SK Cello Flake + 3 lb/sk LCM-1
	340	14.8	1.35	6.35	8	Tail: Class C + 2% CACL + 0.25 LB/Sk CF + 3
						LB/Sk LCM-1
Inter.	750	12.9	1.85	9.32	14	Lead: EconoCEM HLC + 5% CaCl + 5#/sk
						Gilsonite
	190	14.8	1.33	6.34	6	Tail: Class C neat
Prod.	600	11	2.64	14.87	11	1 st Lead: Tuned Light + 0.125 pps Poly – E- Flake
	1890	12	2.03	11.41	14	1 st Tail: Class H + 0.5% Halad-344 + 0.25% CFR-3
						+ 0.5% Econolite
	•				DV	Tool 5000'
	300	11	2.35	11.7	11	2 nd stage Primary: Tuned Light + 0.125 pps Poly – E-
						Flake

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	30%
2 nd Intermediate	0'	50%
Production	3350'	50%

4. Pressure Control Equipment

A variance is requested for the use of a diverter on the surface casing. See attached for

2

schematic.

KOP – 9130'

KOP – 9130 ⁷								
BOP installed	Size?	System Rated	Ť	ÿpe		Tested to:		
before drilling which hole?		• WP						
			An	nular	x	50% of working pressure		
			Bline	d Ram	x			
12-1/4"	13-5/8"	3M	Pipe	e Ram	x	3000		
			Doub	le Ram		5000		
			Other*					
			An	nular				
			Blin	d Ram				
			Pipe	e Ram				
			Doub	le Ram				
	· .		Other*					
			An	nular				
			Blind Ram Pipe Ram Double Ram					
• •]		
	· ·							
		· · ·	Other*]		

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

	On Ex greate	ation integrity test will be performed per Onshore Order #2. xploratory wells or on that portion of any well approved for a 5M BOPE system or er, a pressure integrity test of each casing shoe shall be performed. Will be tested in dance with Onshore Oil and Gas Order #2 III.B.1.i.					
x	1	iance is requested for the use of a flexible choke line from the BOP to Choke fold. See attached for specs and hydrostatic test chart.					
	N	Are anchors required by manufacturer?					
X							

BOPCO, L.P., Poker Lake Unit #471H

30 days. If any seal subject to test pressure is broken the system must be tested.

See attached schematic.

5. Mud Program

De		Туре	Weight (ppg)	Viscosity	Water Loss
From	То				
0	Surf. shoe	FW Gel	8 -9.2	38-70	N/C
Surf csg	Int shoe	Saturated Brine	9.8-10.2	28-30	N/C
Int. shoe	TD	FW/Gel/Starch	8.7-9.0	28-36	<100

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain	Pason/Visual Monitoring
of fluid?	

6. Logging and Testing Procedures

Logg	ing, Coring and Testing.
	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated
	logs run will be in the Completion Report and submitted to the BLM.
X	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned	Interval
Resistivity	Int. shoe to KOP
Density	Int. shoe to KOP
CBL	Production casing
Mud log	Intermediate shoe to TD
PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4600 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Standard LCM will be on location to use when needed.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

H2S is presentXH2S Plan attached

8. Other facets of operation

Is this a walking operation? No

Will be pre-setting casing? No

Attachments

_X_Directional Plan Other, describe



BOPCO, LP Slot: Poker Lake Unit No. 471H Well: Poker Lake Unit No. 471H Wellibore: Poker Lake Unit No. 471H PWB

Location: Eddy County, NM Field: Poker Lake Unit (Eddy Co.,NM) Facility: Poker Lake Unit No, 471H



							Well Profil									
Local 10000 10000 10000 10000 10000 100000 1000000 10000000 1000000000000000000000000000000000000	Des	sign Commer	t	MD (ft)	Inc	°) Az (°)		Loca	al N (ft)							
Topset 1905 7 1923 0 1823 7 3923 0 110 996 05 0.00 M96 05 Bottom Hole Location Colspan="2">Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" <td <="" colspan="2" td="" td<=""><td></td><td>KOP</td><td></td><td></td><td></td><td></td><td></td><td>···· · ···· · · · · · · · · · · · · ·</td><td></td><td></td><td></td><td></td><td></td><td></td></td>	<td></td> <td>KOP</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>···· · ···· · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			KOP						···· · ···· · · · · · · · · · · · · ·						
			·													
		TD/PBH		19099.71	89.2	10 89,637	9829.00	6	51,10	9640,	66			9640.85		
		·					Bottom Hole	Locatio			: 					
Information in Solar Lada Uar No 4714 Rev A 0 a writed depits an information of US TA (KB) TBA (KB) to Man Sea Land 1262 MM TBA (KB) to Man Sea Land TBA (KB) t	MD (ft)					Local E (ft)	Grid East (US ft)	Grid N							
	19099,71	89,210	89,637	9829.00	61.10	9640,66	655370.	90	397	300,80	32°05'2	28,688"N	103*4	19'53.880"W		
Location Information Present value (usin No. 4714) Ord East (US 10) Get Note (US 10) Lellude Longude Present value (usin No. 4714) Society (US 10) Get Note (US 10) 2020223.511 Longude Lengude Present value (usin No. 4714) Society (US 10) Get Note (US 10) Lengude Lengude Lengude Present value (usin No. 4714) Society (US 10) Get Note (US 10) Lengude Lengude <t< th=""><th>Frue vertical o Measured dep Rg: TBA (KB) Mean Sea Lev</th><th>depths are re pths are refer) to Mean Se vel to Ground</th><th>ferenced to f enced to Rg a Level: 3282 level (At Sic</th><th>Rg: TBA (KB) : TBA (KB) 2 feet ot: Poker Lake Ui</th><th>· · · ·</th><th>3260 feet</th><th></th><th>* = Well North R Scale: T Depths Created</th><th>lpath was trans teference: Grid True distance are in feet d by: tranlam or</th><th>formed from a di north 2016-08-03</th><th></th><th>datum</th><th>feet</th><th></th></t<>	Frue vertical o Measured dep Rg: TBA (KB) Mean Sea Lev	depths are re pths are refer) to Mean Se vel to Ground	ferenced to f enced to Rg a Level: 3282 level (At Sic	Rg: TBA (KB) : TBA (KB) 2 feet ot: Poker Lake Ui	· · · ·	3260 feet		* = Well North R Scale: T Depths Created	lpath was trans teference: Grid True distance are in feet d by: tranlam or	formed from a di north 2016-08-03		datum	feet			
Pacing Name Out 6 at (US 10) Carl Note (US 11) Latitude Longade Stat Local (11) Cord Sat (US 10) Cord Note (US 11) Latitude Local (11) Stat Local (11) Cord Sat (US 10) Cord Sat (US 10) Cord Note (US 10) Latitude Local (11) T24 (12) (15) (11) Cord Sat (US 10) Cord Note (US 10) Latitude Latit						· · · · · · · · · · · · · · · · · · ·	Logation Inf	ormation								
Product de Unit No. 47111 Dest 100 (0.001 € 0.002 € 0.00 0	,	•		Facility Mama						loth (US 4)	·			ongitude		
Stat Local (P()) Local (C()) Cord Far (US R) Cord Non (US R) Latitude Local Logicule TBA (RE) to Cound Keet (A1 Star Polar Lake Unit No. 4711) 20 37293.200 37292.25 (N) 10295145.041 (W) TBA (RE) to Cound Keet (A1 Star Polar Lake Unit No. 4711) 23001 23001 23001 23001 TBA (RE) to Mean Sea Local 100 to Cound Keet (A1 Star Polar Lake Unit No. 4711) 23001 23001 23001 23001 TBA (RE) to Mean Sea Local 100 to 0.00			Pok		471H											
Protect Laber Units No. 47141 O.01 O.02 645705.590 397239.700 22/07.05 24702.85.41*N 102/5145.641*NU 212.00.000 eV (3.05 EV Calae Unit No. 47110) 32/02.05		Slot				Local E (ft)										
TBA K60 is Grand beer (A Star Pater Late Unit No. 4710) 220 358 Level Grand beer (A Star Pater Late Unit No. 4710) 3201	Pok		No. 471H													
an Bas Lewit G Ground feed (A) Stor. Poler Lake Unit No. 471H) 	g: TBA (KB)) to Ground I	evel (At Slot:													
No. 1: 0.07 bs. 22.04 M0, 22.04 IV0, 8.044 V5 Top hum Top h	lean Sea Le	vel to Ground	ikevel (AtSt													
Typ Sales:	g: TBA (KB) to Mean Se	a Level		•••••						3282ft					
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Tig \$ \$860 Easting (f) 769 760 700 100 250 570 400 570 700 170 100 100 Landing: F701.851 TVD. 3.584 M. 655.864 E Date: Law Unit ID: AT IN PERHIPPI Top is 300.551 TVD. 3.584 M. 655.864 E Top is 300.551 TVD. 3.584 M. 655.864 E Top is 300.551 TVD. 3.584 M. 655.864 E Top is 300 TVD. 0.01 N. 0.004 K. 0.004 E Top is 300 TVD. 0.01 N. 0.004 K. 0.004 E Top is 300 TVD. 0.01 N. 0.004 K. 0.004 K. 0.004 E Top is 300 TVD. 0.01 N. 0.004 K.	F '	* † Tile On : 0.0	0° inc. 22.00# N	AD, 22.00ft TVD, 0.00	dr VS											
Tig \$ \$860 Easting (f) 769 760 700 100 250 570 400 570 700 170 100 100 Landing: F701.851 TVD. 3.584 M. 655.864 E Date: Law Unit ID: AT IN PERHIPPI Top is 300.551 TVD. 3.584 M. 655.864 E Top is 300.551 TVD. 3.584 M. 655.864 E Top is 300.551 TVD. 3.584 M. 655.864 E Top is 300 TVD. 0.01 N. 0.004 K. 0.004 E Top is 300 TVD. 0.01 N. 0.004 K. 0.004 E Top is 300 TVD. 0.01 N. 0.004 K. 0.004 K. 0.004 E Top is 300 TVD. 0.01 N. 0.004 K.		1														
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Landra: 1972.1.581 TVD. 3.561 TVD. 0.001 H, 0.001 E Te Gn: 22.001 TVD. 0.001 H, 0.001 E Te Gn: 22.001 TVD. 0.001 H, 0.001 E Te Gn: 22.001 TVD. 0.001 H, 0.001 E Te Lanar Cherry Canyon Brushy Canyon TrBone Spring Line TrBone Spring Line KCP : 0.00 Ye, 9130.551 TVD. 0.001 VS 1007 Ye, 9130.551 TVD. 0.001 VS 1007 YOL 0.001 VD. 0.001 VS 1007 YOL 0.001 VD. 0.	- 			5:311 1 moh * 150 -750 T	* <u>a 7</u> 1	60 1500 222	5 <u>0 3000 37</u>			8000 875i	o <u>.7500</u>	8250 80	00 9750	10500		
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KOP : 21 30 561 TVD, 0.001 N, 0.001 E Te On : 22 001 TVD, 0.001 N, 0.001 E Bes Sat Top Lamar Cherry Canyon Brushy Canyon Thone Spring Lime KOP : 2.007 No. 9130,561 MD, 9130,561 TVD, 0.001 VS No. 9130,561 MD, 9130,561 TVD, 0.001 VS				5-18 1 Mar + 100 - 750 I	• <u>0</u> 7	60 1500 22/ I I I	ia 3000 97 T			6000 8767 T T	0 <u>7500</u>	<u>8250 900</u> I I	00 9750 7 T			
The On : 22 008 TVD, 0.008 N, 0.008 E Base Sati Top Lamar Cherry Canyon Brushy Canyon Tigons Spring Lime KOP : 0.00° hc, 9130,958 MD, 9130,958 TVD, 0.009 VS LINE CONTROL (1000 D v 2018.9) Dir : 59.80° Frid: 48000 4 nT Manual Control (1000 D v 201				5.58 1 100 + 110 -750 - - -	* 0 7 1 +	r r r	• • • • • • • • • • • • • • • • • • •			6000 876 T T	Poke:	: Lake Unit No. 471	H PBHIrev 1			
Top Lamar Cherry Canyon Brushy Canyon Brushy Canyon T/Bone Spring Lime T/Bone Spring Lime KOP: 0.00° hc. 9130,0561 MD, 9130,0561 TVD. 0.000 VS KOP: 0.00° hc. 9130,0561 MD, 9130,0561 TVD. 0.000 VS Linoving				4.58 1960 + 110 -750 - - -		nding : 9703,851 TVD, 3,581	• • • • • • • • • • • • • • • • • • •			6000 8761 T T	Poke:	: Lake Unit No. 471	H PBHIrev 1	······		
Cherry Canyon Brushy Canyon TRBone Spring Lime TRBone Spring Lime KOP : 0.00° hc. 9130.958 MD, 9130.958 TVD, 0.001 VS				Lak 1400 - 110 -750 I	KOP : 9130	ding : 9703.851 TVD, 3.581	• • • • • • • • • • • • • • • • • • •			- 6000 876 T T	Poke:	: Lake Unit No. 471	H PBHIrev 1	······		
Brushy Canyon TrBone Spring Lime KOP : 0.00° the, 9130.95ft MD, 9130.95ft TVD, 0.00ft VS INDO [®] 1000 TO 2010 TVD, 9500.01 TVD, 9500.01 TVD, 9500.05 TVD, 9500.55 VS		- Top Salado Base Salt		Lask 1400 - 110 -750 I	KOP : 9130	ding : 9703.851 TVD, 3.581	• • • • • • • • • • • • • • • • • • •			8000 8761 T T	Poke:	: Lake Unit No. 471	H PBHIrev 1	······		
Brushy Canyon TrBone Spring Lime KOP : 0.00° the, 9130.95ft MD, 9130.95ft TVD, 0.00ft VS INDO [®] 1000 TO 2010 TVD, 9500.01 TVD, 9500.01 TVD, 9500.05 TVD, 9500.55 VS		- Top Salado Base Salt		4.5% 1400 * 110 -750 - - -	KOP : 9130	ding : 9703.851 TVD, 3.581	• • • • • • • • • • • • • • • • • • •			8000 8761 T T	Poke:	: Lake Unit No. 471	H PBHIrev 1	······		
Brushy Canyon TrBone Spring Lime KOP : 0.00° the, 9130.95ft MD, 9130.95ft TVD, 0.00ft VS INDO [®] 1000 TO 2010 TVD, 9500.01 TVD, 9500.01 TVD, 9500.05 TVD, 9500.55 VS		- Top Salado Base Salt		458 1904 10 -750 - - - -	KOP : 9130	ding : 9703.851 TVD, 3.581	• • • • • • • • • • • • • • • • • • •			6000 576 I I	Poke:	: Lake Unit No. 471	H PBHIrev 1	······		
T/Bone Spring Lime T/Bone Spring Lime KOP : 0.00° the, 9130,85f MD, 9130,85f MD, 0.00f VS 10.00°/100f TD/PBHI : 89,21° the, 1999,71f MD, 9529,00f TVD, 9640,85f VS		- Top Salado Base Salt		4.58 1908 * 10 -750 - - - -	KOP : 9130	ding : 9703.851 TVD, 3.581	• • • • • • • • • • • • • • • • • • •			6000 8761 T T	Poke:	: Lake Unit No. 471	H PBHIrev 1	······		
T/Bone Spring Lime T/Bone Spring Lime KOP : 0.00° the, 9130,85f MD, 9130,85f MD, 0.00f VS 10.00°/100f TD/PBHI : 89,21° the, 1999,71f MD, 9529,00f TVD, 9640,85f VS		- Top Seladd - Base Salt - Top Lamar		8.285 1909 * 10 -750 - - - -	KOP : 9130	ding : 9703.851 TVD, 3.581	• • • • • • • • • • • • • • • • • • •			<u>8000 876</u> T	Poke:	: Lake Unit No. 471	H PBHIrev 1	······		
T/Bone Spring Lime T/Bone Spring Lime KOP : 0.00° the, 9130,85f MD, 9130,85f MD, 0.00f VS 10.00°/100f TD/PBHI : 89,21° the, 1999,71f MD, 9529,00f TVD, 9640,85f VS		- Top Seladd - Base Salt - Top Lamar		Los 1001 * 10 -750 - - - -	KOP : 9130	ding : 9703.851 TVD, 3.581	• • • • • • • • • • • • • • • • • • •			<u>6000 876</u> T T	Poke:	: Lake Unit No. 471	H PBHIrev 1	······		
T/Bone Spring Lime T/Bone Spring Lime KOP : 0.00° the, 9130,85f MD, 9130,85f MD, 0.00f VS 10.00°/100f TD/PBHI : 89,21° the, 1999,71f MD, 9529,00f TVD, 9640,85f VS		- Top Seladd - Base Salt - Top Lamar		Late 1 Hear - 110 -750 - - - -	KOP : 9130	ding : 9703.851 TVD, 3.581	• • • • • • • • • • • • • • • • • • •			<u>6000 576</u>	Poke:	: Lake Unit No. 471	H PBHIrev 1	······		
T/Bone Spring Lime T/Bone Spring Lime KOP : 0.00° the, 9130,85f MD, 9130,85f MD, 0.00f VS 10.00°/100f TD/PBHI : 89,21° the, 1999,71f MD, 9529,00f TVD, 9640,85f VS		- Top Seladd - Base Salt - Top Lamar		Laik 1400 - 110 -750 I	KOP : 9130	ding : 9703.851 TVD, 3.581	• • • • • • • • • • • • • • • • • • •			8000 8761 T T	Poke:	: Lake Unit No. 471	H PBHIrev 1	······		
T/Bone Spring Lime Magnetic North is 7.23 degrees East of True North (at 8/3/2016) Grid Morth is 0.25 degrees East of True North To correct azimuth from True to Grid subtract 0.25 degrees KOP : 0.00° he, 9130.95ft MD, 9130.95ft TVD, 0.00ft VS 0.00°/100h		- Top Salado - Base Salt - Top Lamar - Cherry Can		4.58 1904 - 10 -750 -1	KOP : 9130	ding : 9703.851 TVD, 3.581	• • • • • • • • • • • • • • • • • • •			8000 8761 1 1	Poke:	: Lake Unit No. 471	H PBHIrev 1	······		
T/Bone Spring Lime Magnetic North is 7.23 degrees East of True North (at 8/3/2016) Grid Morth is 0.25 degrees East of True North To correct azimuth from True to Grid subtract 0.25 degrees KOP : 0.00° he, 9130.95ft MD, 9130.95ft TVD, 0.00ft VS 0.00°/100h		- Top Salado - Base Salt - Top Lamar - Cherry Can		4.54 1444 * 14 -750 	KOP : 9130	ding : 9703.851 TVD, 3.581	• • • • • • • • • • • • • • • • • • •			5000 5751 1 1 GRI :×c 1	Poke:	: Lake Unit No. 471	H PBHIrev 1	······		
T/Bone Spring Lime Magnetic North is 7.23 degrees East of True North (at 8/3/2016) Grid Morth is 0.25 degrees East of True North To correct azimuth from True to Grid subtract 0.25 degrees KOP : 0.00° he, 9130.95ft MD, 9130.95ft TVD, 0.00ft VS 0.00°/100h	-	- Top Salado - Base Salt - Top Lamar - Cherry Can		4.56 1400 - 110 -750 	KOP : 9130	nding : 9703.8511 TVD, 3.581 .9511 TVD, 0.0011 N, 0.0011 E	• • • • • • • • • • • • • • • • • • •			8000 8761 T	Poke:	: Lake Unit No. 471	H PBHIrev 1	······		
T/Bone Spring Lime Magnetic North is 7.23 degrees East of True North (at 8/3/2016) Grid Morth is 0.25 degrees East of True North To correct azimuth from True to Grid subtract 0.25 degrees KOP : 0.00° he, 9130.95ft MD, 9130.95ft TVD, 0.00ft VS 0.00°/100h	 	- Top Salado - Base Salt - Top Lamar - Cherry Can		4.54 1404 * 10 -750 	KOP : 9130	nding : 9703.8511 TVD, 3.581 .9511 TVD, 0.0011 N, 0.0011 E	• • • • • • • • • • • • • • • • • • •			8000 8761 1 1 1 1 1 1 1 1 1 1 1 1 1	Poke:	: Lake Unit No. 471	H PBHIrev 1	······		
T/Bone Spring Lime Magnetic North is 7.23 degrees East of True North (at 8/3/2016) Grid Morth is 0.25 degrees East of True North To correct azimuth from True to Grid subtract 0.25 degrees KOP : 0.00° he, 9130.95ft MD, 9130.95ft TVD, 0.00ft VS 0.00°/100h		- Top Salado - Base Salt - Top Lamar - Cherry Can		Los 100 - 10 -750 	KOP : 9130	nding : 9703.8511 TVD, 3.581 .9511 TVD, 0.0011 N, 0.0011 E	• • • • • • • • • • • • • • • • • • •			6000 576 1 1 GRI W ← A	Poke:	: Lake Unit No. 471	H PBHIrev 1	······		
To correct azimuth from True to Grid subtract 0.25 degrees To correct azimuth from Magnetic to Grid add 6.98 degrees KOP : 0.00° he, 9130.95ft MD, 9130.95ft TVD, 0.00ft VS		- Top Salado - Base Salt - Top Lamar - Cherry Can		Los, 100 - 110 -750 1	KOP : 9130	nding : 9703.8511 TVD, 3.581 .9511 TVD, 0.0011 N, 0.0011 E	• • • • • • • • • • • • • • • • • • •		<u>0 6250</u>	W +		- Lake Unit Ho, 471 .008 TVD, 61.108 N	H PBHIrev 1	······		
KCP : 0.00° mc, 9130,958 MD, 9130,958 TVD, 0.008 VS		- Top Salado - Base Salt - Top Lamar - Cherry Can - Brushy Can	von .	4.56 1904 - 10 -750 	KOP : 9130	nding : 9703.8511 TVD, 3.581 .9511 TVD, 0.0011 N, 0.0011 E	• • • • • • • • • • • • • • • • • • •		BGGM (19 Magnetic Nort	GRI GRI W ← ↓ V ← ↓ D0.0 to 2018.0 DID: v is 7.23 degrees Es	Poker TD/PBHI: 9829. → E 59.90° Field: 4800		H PBHIrev 1	······		
10.001/1000 TD//28HI : 89.21* Inc. 19099.718 MD, 9629.008 TVD, 9640.858 VS		- Top Salado - Base Salt - Top Lamar - Cherry Can - Brushy Can	von .	4.54 1404 * 10 -750 	KOP : 9130	nding : 9703.8511 TVD, 3.581 .9511 TVD, 0.0011 N, 0.0011 E	• • • • • • • • • • • • • • • • • • •		BGGM (19 Magnetic Nor	W W W W W W W W W W W W W W	Poker TD/PBHI: 9829. → E 59.90° Field: 480 at of Ture Morth G 5 Fast of Ture Morth	Elake Unit No. 471 .000 TVD, 61.100 N .000 TVD, 61.100 N t 9/3/2016) tt 9/3/2016)	H PBHIrev 1	······		
10.001/1000 TD//28HI : 89.21* Inc. 19099.718 MD, 9629.008 TVD, 9640.858 VS		- Top Salado - Base Salt - Top Lamar - Cherry Can - Brushy Can	von .	4.54 140 * 10 -750 	KOP : 9130	nding : 9703.8511 TVD, 3.581 .9511 TVD, 0.0011 N, 0.0011 E	• • • • • • • • • • • • • • • • • • •		BGGM (19 Magnetic Nor	W W W W W W W W W W W W W W	Poker TD/PBHI: 9829. → E 59.90° Field: 480 at of Ture Morth G 5 Fast of Ture Morth	Elake Unit No. 471 .000 TVD, 61.100 N .000 TVD, 61.100 N t 9/3/2016) tt 9/3/2016)	H PBHIrev 1	······		
10.001/1000 TD//28HI : 89.21* Inc. 19099.718 MD, 9629.008 TVD, 9640.858 VS		- Top Salado - Base Salt - Top Lamar - Cherry Can - Brushy Can	von .	4.54 140 * 10 -750 	KOP : 9130	nding : 9703.8511 TVD, 3.581 .9511 TVD, 0.0011 N, 0.0011 E	• • • • • • • • • • • • • • • • • • •		BGGM (19 Magnetic Nor	W W W W W W W W W W W W W W	Poker TD/PBHI: 9829. → E 59.90° Field: 480 at of Ture Morth G 5 Fast of Ture Morth	Elake Unit No. 471 .008 TVD, 61.108 N .008 TVD, 61.108 N # 9/3/2016) tt 9/3/2016)	H PBHIrev 1	······		
10.001/1000 TD//28HI : 89.21* Inc. 19099.718 MD, 9629.008 TVD, 9640.858 VS		- Top Salado - Base Salt - Top Lamar - Cherry Can - Brushy Can	von .	Log 100 - 10 -750 	KOP : 9130	nding : 9703.8511 TVD, 3.581 .9511 TVD, 0.0011 N, 0.0011 E	• • • • • • • • • • • • • • • • • • •		BGGM (19 Magnetic Nor	W W W W W W W W W W W W W W	Poker TD/PBHI: 9829. → E 59.90° Field: 480 at of Ture Morth G 5 Fast of Ture Morth	Elake Unit No. 471 .008 TVD, 61.108 N .008 TVD, 61.108 N # 9/3/2016) tt 9/3/2016)	H PBHIrev 1	······		
+ TD/PBH1: 89.21* Inc, 19099.718 MD, 9529.008 TVD, 9540.658 VS		- Top Salado - Base Salt - Top Lamar - Cherry Can - Brushy Can - T/Bone Spi	yan yon ng Lime	· · ·	KOP : 9130 Tie On : 22.0	nding : 9703.8511 TVD, 3.581 .9511 TVD, 0.0011 N, 0.0011 E	• • • • • • • • • • • • • • • • • • •		BGGM (19 Magnetic Nor	W W W W W W W W W W W W W W	Poker TD/PBHI: 9829. → E 59.90° Field: 480 at of Ture Morth G 5 Fast of Ture Morth	Elake Unit No. 471 .008 TVD, 61.108 N .008 TVD, 61.108 N # 9/3/2016) tt 9/3/2016)	H PBHIrev 1	······		
+ TD/PBH1: 89.21* Inc, 19099.718 MD, 9529.008 TVD, 9540.658 VS		- Top Salado - Base Salt - Top Lamar - Cherry Can - Brushy Can - T/Bone Spi	yan yon ng Lime	· · ·	KOP : 9130 Tie On : 22.0	nding : 9703.8511 TVD, 3.581 .9511 TVD, 0.0011 N, 0.0011 E	• • • • • • • • • • • • • • • • • • •		BGGM (19 Magnetic Nor	W W W W W W W W W W W W W W	Poker TD/PBHI: 9829. → E 59.90° Field: 480 at of Ture Morth G 5 Fast of Ture Morth	Elake Unit No. 471 .008 TVD, 61.108 N .008 TVD, 61.108 N # 9/3/2016) tt 9/3/2016)	H PBHIrev 1	······		
		- Top Salado - Base Salt - Top Lamar - Cherry Can - Brushy Can - Tr/Bone Spri - KOP : 0.00*	von yon ng Lime nc, 9130,95ñ Å	· · ·	KOP : 9130 Tie On : 22.0	nding : 9703.8511 TVD, 3.581 .9511 TVD, 0.0011 N, 0.0011 E	• • • • • • • • • • • • • • • • • • •		BGGM (19 Magnetic Nor	W W W W W W W W W W W W W W	Poker TD/PBHI: 9829. → E 59.90° Field: 480 at of Ture Morth G 5 Fast of Ture Morth	Elake Unit No. 471 .008 TVD, 61.108 N .008 TVD, 61.108 N # 9/3/2016) tt 9/3/2016)	H PBHIrev 1	······		
		- Top Salado - Base Salt - Top Lamar - Cherry Can - Brushy Can - Tr/Bone Spri - KOP : 0.00*	von yon ng Lime nc, 9130,95ñ Å	· · ·	KOP : 9130 Tie On : 22.0	nding : 9703.8511 TVD, 3.581 .9511 TVD, 0.0011 N, 0.0011 E	• • • • • • • • • • • • • • • • • • •		BGGM (19 Magnetic Nor	D0.0 to 2018.0) Dig: V + A D0.0 to 2018.0) Dig:	Poker TD/PBHI : 9829.	09.4 nT t d/2016) th degrees degrees	H PBHI rev 1 N, 9640,666 E			
		Top Salado Base Salt Top Lamar Cherry Can Brushy Can T7Bone Spri KOP : 0.00*/11	yon ng Lime trc, 9130,95ft A	VD, 9130,9511 TVD, 0	KOP : 9130 Tie On : 22.0	ving : 9703.85% TVD, 3.58%	• • • • • • • • • • • • • • • • • • •		BGGM (19 Magnetic Nor	D0.0 to 2018.0 Dire is 7.23 degrees Es forth is 0.25 degrees to imuch from Magnet	Poker TD/PBHI: 9829. TD/PBHI: 9829. S9.90° Field: 4800 E 59.90° Field: 4800 S 59.90° Field: 4	09.4 nT t lake Umit Ho, 471 .008 TVD, 61.108 N tt 8/3/2016) th degrees degrees degrees	H PBHI rev 1 N, 9640,666 E			
		Top Salado Base Salt Top Lamar Cherry Can Brushy Can T7Bone Spri KOP : 0.00*/11	yon ng Lime trc, 9130,95ft A	VD, 9130,9511 TVD, 0	KOP : 9130 Tie On : 22.0	ving : 9703.85% TVD, 3.58%	• • • • • • • • • • • • • • • • • • •		BGGM (19 Magnetic Nor	D0.0 to 2018.0 Dire is 7.23 degrees Es forth is 0.25 degrees to imuch from Magnet	Poker TD/PBHI: 9829. TD/PBHI: 9829. S9.90° Field: 4800 E 59.90° Field: 4800 S 59.90° Field: 4	09.4 nT t lake Umit Ho, 471 .008 TVD, 61.108 N tt 8/3/2016) th degrees degrees degrees	H PBHI rev 1 N, 9640,666 E			
		Top Salado Base Salt Top Lamar Cherry Can Brushy Can T7Bone Spri KOP : 0.00*/11	yon ng Lime trc, 9130,95ft A	VD, 9130,9511 TVD, 0	KOP : 9130 Tie On : 22.0	ving : 9703.85% TVD, 3.58%	• • • • • • • • • • • • • • • • • • •		BGGM (19 Magnetic Nor	D0.0 to 2018.0 Dire is 7.23 degrees Es forth is 0.25 degrees to imuch from Magnet	Poker TD/PBHI: 9829. TD/PBHI: 9829. S9.90° Field: 4800 E 59.90° Field: 4800 S 59.90° Field: 4	09.4 nT t lake Umit Ho, 471 .008 TVD, 61.108 N tt 8/3/2016) th degrees degrees degrees	H PBHI rev 1 N, 9640,666 E			
the state of the s		Top Salado Base Salt Top Lamar Cherry Can Brushy Can T7Bone Spri KOP : 0.00*/11	yon ng Lime trc, 9130,95ft A	VD, 9130,9511 TVD, 0	KOP : 9130 Tie On : 22.0	ving : 9703.85% TVD, 3.58%	• • • • • • • • • • • • • • • • • • •		BGGM (19 Magnetic Nor	D0.0 to 2018.0 Dire is 7.23 degrees Es forth is 0.25 degrees to imuch from Magnet	Poker TD/PBHI: 9829. TD/PBHI: 9829. S9.90° Field: 4800 E 59.90° Field: 4800 S 59.90° Field: 4	09.4 nT t lake Umit Ho, 471 .008 TVD, 61.108 N tt 8/3/2016) th degrees degrees degrees	H PBHI rev 1 N, 9640,666 E			
-756 0 750 1500 2250 3000 3756 4550 e000 e758 7560 8250 9000 9759 1500		Top Salado Base Salt Top Lamar Cherry Can Brushy Can Tribone Spri KOP : 0.00*/I Lan	yon ng Lime hc, 9130,95ft A 100	иD, 9130,951 TVD, 0 , 10023,051 MD, 97(KOP : 9130 Tie On : 22.0 .00h VS	nding : 9703.851 TVD, 3.581 .951 TVD, 0.001 N, 0.001 E 031 TVD, 0.001 N, 0.001 E	N, 565.05h E	50 4500 T	BGGM (19 Magnetic Nort Grid To correct a To correct a	D0.0 to 2018.01 Dig: W W W W W W W W W W W W W W W W W W W	Poker TD/PBHI : 9829.	09.4 nT t lake Umit Ho, 471 .008 TVD, 61.108 N tt 8/3/2016) th degrees degrees degrees	H PBHI rev 1 N, 9640,666 E			

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Planned Wellpath Report Poker Lake Unit No. 471H Rev A.0 Page 1 of 9



REFER	ERENCE WEUTRAM DENNIFICATION		
Operator	BOPCO, LP	Slot	Poker Lake Unit No. 471H
Area	Eddy County, NM	Well	Poker Lake Unit No. 471H
Field	Poker Lake Unit (Eddy Co.,NM)	Wellbore	Poker Lake Unit No. 471H PWB
Facility	Poker Lake Unit No. 471H		

রেই তিয়ে গুরাডি।	PINFORMMON		
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Traniam
Scale	0.999933	Report Generated	Report Generated 8/3/2016 at 4:05:50 PM
Convergence at slot 0.26° East	t0.26° East	Database/Source file	Database/Source file WA_Midland/Poker_Lake_Unit_No471H_Rev_A.0.xml

	Local coordinates	rdinates	Grid co	Grid coordinates	Geographi	Geographic coordinates
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	00.0	0.00	645730.90	397239.70	32°05'28.514"N	103°51'45.941"W
Facility Reference Pt			645730.90	397239.70	32°05'28.514"N	103°51'45.941"W
Field Reference Pt			630272.49	405347.85	32°06'49.387"N	103°54'45.266"W

		•	
Calculation method	Minimum curvature	Rg: TBA (KB) to Facility Vertical Datum	3282.00ft
Horizontal Reference Pt	Slot	Rg: TBA (KB) to Mean Sea Level	3282.00ft
Vertical Reference Pt	Rg: TBA (KB)	Rg: TBA (KB) to Ground Level at Slot (Poker Lake Unit 22.00ft No. 471H)	22.00ft
MD Reference Pt	Rg: TBA (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	89.64°



Planned Wellpath Report Poker Lake Unit No. 471H Rev A.0 Page 2 of 9



REFERE	NCE WELLPATH IDENTIFICATION		
Operator	BOPCO, LP	Slot	Poker Lake Unit No. 471H
Area	Eddy County, NM	Well	Poker Lake Unit No. 471H
Field	Poker Lake Unit (Eddy Co.,NM)	Wellbore ·	Poker Lake Unit No. 471H PWB
Facility	Poker Lake Unit No. 471H		

WELLPATH DATA (202	H DAT		stations)	+	= interpolated/extr	lated/e	extrapolated station	station						
MD Inc	Inclination	Azimuth	۵VT	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	DLS	Build Rate	e l	Comments
[ft]	[°]		E	Ξ	Ξ	E	[US ft]	[US ft]			[°/100ft]	[°/100ft]	[°/100ft]	
0.00	0000	89.637	0.00	0.00	0.00	0.00	645730.90	397239.70	32°05'28.514"N	103°51'45.941"W	0.00	0.00	00.00	
22.00	000.0	89.637	22.00	0.00	0.00	0.00	645730.90	397239.70	32°05'28.514"N	103°51'45.941"W	0.00	0.00	0.001	ie On
122.00†	000.0	89.637	122.00	00.00	0.00	0.00	645730.90	397239.70	32°05'28.514"N	103°51'45.941"W	0.00	0.00	00.00	
222.00	0000	89.637	222.00	0.00	00.00	0.00	645730.90	397239.70	32°05'28.514"N	103°51'45.941"W	0.00	00.00	00.00	
322.001	0000	89.637	. 322.00	00.0	0.00)	00.00	645730.90	397239.70	32°05'28'514"N	103°51'45.941"W	00.0	0.00	00:00	
422.00+	.000:0	89.637	422.00	00.0	0.00	00.0	645730.90	397239.70	32°05'28.514"N	103°51'45.941"W	00.00	0.00	00.00	
522.00	0.000	89.637	522.00	0.00	0.00	0.00	645730.90		32°05'28.514"N	103°51'45.941"W	0.00	0.00	00.00	
622.001	0000	89.637	622.00	0.00	0.00	0.00	645730.90	397239.70	32°05'28.514"N	103°51'45.941"W	00.00	0.00	00.00	
722.00+	0.000	89.637	722.00	00.0	00.0	0.00	645730.90		32°05'28.514"N	103°51'45.941"W	0.00	0.00	00.00	
822.00+	0:000	89.637	822.00	00.0			645730.90		32°05'28.514"N	103°51'45.941"W	00.0¢	00:0	00.0	
852.001	0.000	89.637	852.00	00.00	0.00	0.00	645730.90	397239.70	32°05'28.514"N	103°51'45.941"W	0.00	0.00	100.0	0.00Top Rustler
922.00+	0000	89.637	922.00	00.0	0.00	00.0	645730.90	397239.70	32°05'28.514"N	103°51'45.941"W	0.00	0.00	00.00	
1022.001	0.000	89.637	1022.00	00.0	0.00	0.00	645730.90	397239.70	32°05'28.514"N	103°51'45.941"W	0.00	0.00	0.00	
1122.00†	0.000	89.637	1122.00	0.00	0.00	0.00	645730.90		32°05'28.514"N	103°51'45.941"W	0.00	0.00	00.00	
1187.00	0.000	89.637	1187.00	00.0	1. N	3. 8. 3	645730.90	\mathbb{R}^{2}	32°05'28.51'4"N	103°51'45:941"W	0.00	00.00	0.001	op Salado
1222.00 1	0.000	89.637	1222.00	00.00	00.0	0.00	645730.90	397239.70	32°05'28.514"N	103°51'45.941"W	0.00	0.00	00.00	
1322.001	0.000	89.637	1322.00	00.0	0.00	0.00	645730.90	397239.70	32°05'28.514"N	103°51'45.941"W	0.00	0.00	00.00	
1422.00	0.000	89.637	1422.00	0.00	0.00	00'0	645730.90	397239.70	32°05'28.514"N	103°51'45.941"W	0.00	0.00	0.00	
1522.00 1	0.000	89.637	1522.00	0.00	0.00	00.0	645730.90		32°05'28.514"N	103°51'45.941"W	0.00	0.00	00.00	
1622.00†	0.000	89.637	1622.00	00.0		00.00	545730.90	397239.70	32°05'28.514"N	103°51'45.941"W	00.00	0:00	00:0	
1722.001	0.000	89.637	1722.00	0.00	0.00	0.00	645730.90	397239.70	32°05'28.514"N	103°51'45.941"W	0.00	0.00	0.00	
1822.00†	0.000	89.637	1822.00	00.0	0,00	0.00	645730.90	397239.70	32°05'28.514"N	103°51'45.941"W	0.00	0.00	0.00	
1922.00†	0.000	89.637	1922.00	00.00	0.00	0.00	645730.90	397239.70	32°05'28.514"N	103°51'45.941"W	0.00	0.00	0.00	
2022.001	0.000	89.637	2022.00	00.0	0.00	0.00	645730.90	397239.70	32°05'28.514"N	103°51'45.941"W	.0.00	0.00	00.00	
2122.001	0.000	89,637	2122.00	00.0		0000	645730.90		32°05'28.514"N	103°5,145.941"W	0.00	0.00	00.00	
2222.001	0.000	89.637	2222.00	00.0	_	0.00	645730.90	397239.70	32°05'28.514"N	103°51'45.941"W	0.00	0.00	0.00	
2322.001	0.000	89.637	2322.00	0.00	0.00	0.00	645730.90	397239.70	32°05'28.514"N	103°51'45.941"W	0.00	0.00	0.00	
2422.001	0.000	89.637	2422.00	00'0	0.00	0.00	645730.90	397239.70	32°05'28.514"N	103°51'45.941"W	0.00	0.00	0.00	
2522.00 †	0.000		2522.00	00.00	0.00	0.00	645730.90	397239.70	32°05'28.514"N	103°51'45.941"W	0.00	0.00	0.00	
2622:001	0000	89.637	2622.00	00:0	00.00		645730:90	397239.70	32°05'28.514"N	103°51'45.941"W	0.00	0:00	00.00	
											A 20 M 20 M			



Planned Wellpath Report Poker Lake Unit No. 471H Rev A.0 Page 3 of 9



REFEREN	NCE WELLPATH IDENTIFICATION		
Operator	BOPCO, LP	Slot	Poker Lake Unit No. 471H
Area	Eddy County, NM	Well	10
Field	Poker Lake Unit (Eddy Co.,NM)	Wellbore	Poker Lake Unit No. 471H PWB
Facility	Poker Lake Unit No. 471H		

									ľ						٦		Ī	٦	٦	-		٦		Ţ	Ī	on					
	Comments											ise Salt			op Lamar						11.2.1.4.4					Cherry Canyon					387 N.
	Turn Rate Co [°/100ft]	0.00	00.0	0.00	0.00	0:00	0.00	0.00	0.00	0.00	0:00	0.00Base Salt	0.00	0.00	0.00To	0:00	0.00	0.00	0.00	0.0	 0:00 	0.00	00 [.] 0	00.0	0.00	5 0:00 CF	0.00	0.00	.0000	00.00	00:0
	Build Rate Tu [°/100ft] ['	00.0	00.00	00.0	0.00	0.00	0.00	00.0	00.0	00.0	0.00	00.00	0.00	0.00	0.00	0:00	0.00	0.00	00.00	00.00	0:00	0.00	0.00	00.00	0.00	0.00	00.00	0.00	00.00	0.00	S: 000
	DLS B ['/100ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0,00	0.00	0.00	0,00	0,00	00:01	0.00	0.00	0.00	0.00	0:00	0.00	0.00	0.00	0,00	0:00	0,00	0,00	0,00	0.00	3.] 00:0i≤ (*
	Longitude	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	-103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	3103°51'45:941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45'941"W											
	Latitude	32°05'28.514"N	32°05'28 514"N	32°05'28.514"N	32°05'28.514"N	32°05'28.514"N	32°05'28.514"N	32°05'28.514"N	32°05'28.514"N	32°05'28.514"N	32°05'28.514"N	32°05'28.514"N		32°05'28.514"N	32°05'28.514"N	32°05'28.514"N	32°05'28.514"N	32°05'28.514"N	32°05'28.514"N	32°05'28.514"N	32°05'28.514"N	32°05'28.514"N	34.4.								
polated station	Grid North [US ft]	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	07.956795
'extrapolated	Grid East [US ft]	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	730.90
<pre>† = interpolated/extra</pre>	East [ft]	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00	_	00.0	00.0	00.0	0.00		00.0	0,00		_		0000	0.00	0.00		0.00	0:00	0.00	0.00	-		00.0
- interp	North [ft]	0.00	0.00	0.00		00.00	0.00	0.00	0.00		00:0	0.00	0.00	0.00		00:0	0.00	0.00	0.00		00.0	0.00	0.00		00.0	0.00	0.00	00.0	0.00	<u>.</u>	
	Vert Sect North [ft] [ft]	0.00	00.00	00.00	0.00	00.0	00.0	00.0	0.00	0.00	00;0	00.00	00.0	0.00	00'0	00.0	00.00	00.00	0.00	00.0	00.0	00.0	00.00			00:0	00.0	00.0	0.00	00.0	Y
S	⋛⋥	2722.00	2822.00	2922.00	3022.00	3122.00	3222.00	3322.00	3422.00	3522.00	3622.00	3684.00	3722.00	3822.00	3882.00	3922:00	4022.00	4122.00	4222.00	4322.00	4422.00	4522.00	4622.00	4722,00	4822.00	4837.00	4922.00	5022.00	5122.00	5222.00	5322-00
A (202	Azimuth [°]	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	11
TH DAT	Inclination [°]	000.0	0.000	0000	000.0	0.000	0.000	0000	0.000	0.000	0.000	000.0	0.000	000.0	000.0	0:00:0	0.000	0.000	000.0	000.0	0.000	0.000	000.0	000.0	0.000	0000	0.000	000.0	0.000	000.0	0000
A A I		2722.001	2822.00†	2922.00+	3022.001	3122.001	3222.001	3322.001	3422.001	3522.001	3622.001	3684.00†	3722.00 1	3822.001	3882.00	3922 00 1	4022.00†	4122.00 1	4222.00 1	4322.00	. 4422.00 ↓	4522.001	4622.00†	4722.001	4822.00†	4837.00	4922.00+	5022.001	5122.00	5222.001	5322.00+



Planned Wellpath Report Poker Lake Unit No. 471H Rev A.0 Page 4 of 9



KEFERE	REFERENCE WELLPATH IDENTIFICATION		
Operator	Dperator BOPCO, LP	Slot	Poker Lake Unit No. 471H
Area	Eddy County, NM	Well	Poker Lake Unit No. 471H
Field	Poker Lake Unit (Eddy Co.,NM)	Wellbore	Poker Lake Unit No. 471H PWB
Facility	Ŧ		

	ents						-		y Canyon																/Bone Spring Lime					t a da a a terre de la Managella compositores est	
	Turn Rate Comments [°/100ft]	0.00	0.00	0.00	0.00	00.00	0.00	00.00	0.00Brushy Canyon	0.00	0.00	0.00	00.0	00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00T/Bor	00:00	0.00	00.0	0.00	0.00	0.00
	Build Rate [°/100ft]	00.00	00.00	00.0	00.00	00.0	00.0	00.00	00.00	00.00	00.00	00.0	00.00	00.00	00.00	00.00	00.00	00.00	0.00	00.00	00.0	00.00	00.00	0.00	0.00	0.00	00.00	0.00	0.00	0.00	00.0
	DLS [°/100ft]	0.00	0.00	0.00	0.00	0:00	0.00	0.00	0.00	0.00	00:0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$0.00°	00.0	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	00.00
	Longitude	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45'941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45 941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	103°51'45.941"W	~103°51'45.941"W
	Latitude	32°05'28.514"N	32°05'28.514"N	32°05'28'514"N	32°05'28.514"N	32°05'28.514"N	- 32°05'28.514"N	32°05'28.514"N	32°05'28.5/14"N	32°05'28.514"N	32°05/28.51/4"N	32°05'28.514"N	32°05'28.514"N	32°05'28.514"N	32°05'28.514"N	32°05'28.514"N															
apolated station	Grid North [US ft]	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239:70	397239.70	397239.70	397239.70	397239.70	397239.70
d/extrapolat	Grid East [US ft]	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90
† = interpolated/extr	h East [ft]	010.00	0.00	00.0	0.00	00.0		_	00.0	0.00	00.0			00.0	0.00	00.0	0.00	0.00	00.0				0.00	00.0	0.00	-		0.00	0.00	00.0	-
1	Vert Sect North [ft] [ft]	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	<u> </u>	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	—	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 00.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
WELLPATH DATA (202 stations)	TVD [#]	5422.00	5522.00	5622.00	5722.00	5822.00	5922.00	6022.00	6040.00	6122.00	6222.00	6322.00		h	6622.00	6722.00	6822.00	6922.00	7022.00	7122.00	7222.00		7422.00	7522.00	7604.00	7622.00		7822.00	<u>i </u>		8122.00
FA (20	Azimuth [°]	89.637	89.637	89.637	89.637	89.637	89.637		89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637		89.637	89.637	89.637	89,637	89.637	89.637		89.637	89'637
VTH DAT	Inclination [°]	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	000;0	0.000	0.000	0.000	0.000	0000	0.000	0.000	0.000	0.000	0000	0.000	000.0	0.000	0000	00000	0.000	0.000	0.000	0.000	000:0
WELLP	MD [ft]	5422.00	5522.001	5622.001	5722.001	.5822.001	5922.001	6022.00+	6040.001	6122.00+	6222:00:1	6322.001	6422.00	6522.001	6622.00+	6722.001	6822.001	6922.001	7022.001	7122.001	7222.001	7322.001	7422.00	7522.001	7604.00†	7622.001	7722.001	7822.00†	7922.00†	8022.001	8122:00+



Planned Wellpath Report Poker Lake Unit No. 471H Rev A.0 Page 5 of 9



REFER	REFERENCE WELLPATH IDENTIFICATION		
Operator	Dperator BOPCO, LP	Slot	Poker Lake Unit No. 471H
Area	Eddy County, NM	Well	Poker Lake Unit No. 471H
Field	Poker Lake Unit (Eddy Co.,NM)	Wellbore	Poker Lake Unit No. 471H PWB
Facility	Poker Lake Unit No. 471H		
		ne a suide suide a a baile a baile a	

	Comments								-			KOP						,				anding									
	Turn Rate Co [°/100ft]	0.00	00.0	00.0	00.00	00.0	0.00	00.00	00.00	0.00	00.0	0.00	98.45	00.00	00.00	0.00	00.00	00.00	0.00	0.00	0:00	-U	00.0	0.00	00.00	00.0	0.00 0	00 [.] 0	0.00	0.00	00:00
	Build Rate ⁻ [°/100ft]	00.0	00.0	0.00	0.00	0:00	00.0	00.00	0.00	0.00	00.0	0.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.00	0000
	DLS I	0.00	0.00	0.00	0.00	0:00	0.00	0.00	0.00	0.00	0.00	00.0	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10:00	10.00	00.00	0.00	00.0	00.0	0.00	00.00	0.00	0.00	0.00
	Longitude	103°51'45.941"W	103°51'45'941'W	103°51'45.941"W	103°51'45.857"W	103°51'45.574"W	103°51'45.100"W	103°51'44'449"W	103°51'43.641"W	103°51'42.700"W	103°51'41.656"W	103°51'40.540"W	103°51'39.385"W	103°51'39.373"W	103°51'38.223"W	103°51'37.060"W	103°51'35.898"W	103°51'34'736'W	103°51'33.574"W	103°51'32.411"W	103°51'31.249"W	103°51'30.087"W	103°51'28.925"W								
	Latitude	32°05'28.514"N	32°05'28.515"N	32°05'28.516"N	32°05'28.518"N	32°05'28.519"N	32°05'28.521"N	32°05'28.523"N	32°05'28.525"N	32°05'28.525"N	32°05'28.527"N	32°05'28.529"N	32°05'28.531"N	32°05'28.532"N	32°05'28.534"N	32°05'28.536"N	32°05'28.538"N	32°05'28.540"N	32°05'28.542"N												
. uo	Grid North [US ft]	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.70	397239.75	397239.90	397240.16	397240 51	397240.95	397241.47	397242.04	397242.64	* 397243.27	397243.28	397243.91	397244.54	397245.18	397245.81	397246.44	397247.08	397247.71	397248.34	397248.98
apolated station	Grid East [US ft]	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645730.90	645738.12	645762.46	645803.24	645859.24	645928.74	646009.64	646099.48	646195.52	646294.86	646295.91	646394.84	646494.82	646594.80	646694.78	646794.77	646894.75	646994.73	647094.71	. 647194.69
† = interpolated/extra	East [ff]	0.00	0.00	00.0	0.00	00:0	0.00	0.00	0.00	00.0	00.0	00.0	7.22	31.56	72.35	128.34	197.85	278.76	368.60	464.65	564.00	565.05	663.98	763.97	863.96	* 963.95 ¹	1063.94	1163.93	1263.92	1363.90	1463.89
interpol	t North [ft]	00.0 10	0.00	00.0 0	00.0 0	0.0.00	00.0 0	00.0 0	0.00	00.0 0	00-00	00.0	2 0.05	6 0.20	5 0.46	5 0.81		6 1.77	<u> </u>	▙	1 3.57	6 3.58	0 4.21	9 4.84	8 5.48	7 6.11	6 6.74	5 7.38	4 8.01	ر مست ا	-
	Vert Sect [ft]	00.0	00.0	00.00	0.00	00.0	00.00	00.0	0.00	00.00	00,0	00.0	7.22	31.56	72.35	128.35	197.86	278.76	368.61	464.66	564.01	565.06	664.00	763.99	863.98	963.97	1063.96	1163.95	1263.94	1363.93	1463.92
station	ZE	8222.00	8322.00	8422.00	8522.00	8622.00	8722.00	8822.00	8922.00	9022.00	9122:00	9130.95	9221.62	9318.48	9409.64	9492.34	9564.06	9622.61	9666.23	9693.58	9703.84	9703.85	9705.22	9706.60	9707.98	9709.35	9710.73	9712.11	9713.49		9716.25
(202	Azimuth [°]	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89,637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637
WELLPATH DATA (202 stations)	Inclination [°]	000.0	0.000	0.000	0.000	0000	0.000	0.000	0.000	0.000	0.000	0.000	9.105	19.105	29.105	39,105	49.105	59.105	69.105	79.105	89.105	89.210	89.210	89.210	89.210	. 89:210	89.210	89.210	89.210	89.210	89.210
WELLPA	DM [#1]	8222.00	8322.00+	8422.00	8522.00	8622.00	8722.00+	8822.00+	8922.00+	9022.00+	9122.001	9130.95	9222.00+	9322.001	9422.00+	0522:00 1	9622.001	9722.00	9822.00	9922.001	10022.001	10023.05	10122.00+	10222.001	10322.00†	10422 00+	10522.00†	10622.00†	10722.00†	10822.00†	10922.00



Planned Wellpath Report Poker Lake Unit No. 471H Rev A.0 Page 6 of 9



R E E K E	REFERENCE WELLPATH IDENTIFICATION		
Operator	BOPCO, LP	Slot	Poker Lake Unit No. 471H
Area	Eddy County, NM	Well	Poker Lake Unit No. 471H
Field	Poker Lake Unit (Eddy Co.,NM)	Wellbore	Poker Lake Unit No. 471H PWB
Facility	Poker Lake Unit No. 471H		

WELLPATH DATA (202 stations)	DATA	(202	station		terpola	t = interpolated/extrap	polated station	Ę						
MD	Inclination A	Azimuth	QVL	1E	North		Grid East	6	Latitude	Longitude	DLS	Build Rate	0	Comments
Ш	5	ົ	Ξ	[#]	E)	[ft]	[US ft]	[US ft]			[*/100ft]	[~/100ft]	~/100ft]	
11022.00+	89.210	89.637	9717.63	1563.91	9.91	1563.88	647294.67	397249.61	32°05'28.544"N	103°51'27.762"W	0.00	0.00	0.00	
11122.00+	89.210	89.637	9719.01	1663.90	10.55	1663.87	647394.66	397250.25	32°05'28.546"N	103°51'26.600"W	00.0	0.00	0.00	
11222.00†	89.210	89.637	9720.38	1763.89	11.18	1763.86	647494.64	397250.88	32°05'28.548"N	103°51'25.438"W	00.00	0.00	0.00	
11322.001	89.210	89.637	9721.76	1863.88	11.81	1863.85	647594.62	397251.51	32°05'28.550"N	103°51'24.276"W	00.00	0.00	0000	
11422.001	89:210	89.637	9723.14	1963.87	12.45	1963.83	647694.60	397252-15	32°05'28,552"N	103°51'23.113"W	00.00	00.00	0:00	
11522.00+	89.210	89.637	9724.52	2063.86	13.08	2063.82	647794.58	397252.78	32°05'28.553"N	103°51'21.951"W	0.00	0.00	0.00	
11622.001	89.210	89.637	9725.90	2163.86	13.71	2163.81	647894.56	397253.41	32°05'28.555"N	103°51'20.789"W	0.00	0.00	00.0	
11722.00+	89.210	89.637	9727.28	2263.85	14.35	2263.80	647994.55	397254.05	32°05'28.557"N	103°51'19.627"W	00.00	0.00	0.00	
11822.00+	89.210	89.637	9728.66	4	14.98	2363.79	648094.53	397254.68	32°05'28.559"N	103°51'18.464"W	00.00	0.00	0.00	
11922.001	89.210	89.637	9730.04	2463.83	15.62	2463.78	648194.51	397255.31	32°05'28.561"N	103°51'17.302"W	00.00	0.00	00:00	
12022.001	89.210	89.637	9731.41	2563.82	16.25	2563.77	648294.49	397255.95	32°05'28.563"N	103°51'16.140"W	· 0.00	0.00	0.00	
12122.00+	89.210	89.637	97:32.79	2663.81	16.88	2663.75	648394.47	397256.58	32°05'28.565"N	103°51'14.978"W	0.00	00.00	00.00	
12222.001	89.210	89.637	9734.17	2763.80	17.52	2763.74	648494.45	397257.22	32°05'28.567"N	103°51'13.816"W	00.00	0.00	0.00	
12322.00	89.210	89.637	9735.55	2863.79	18.15	2863.73	648594.43	397257.85	32°05'28.568"N	103°51'12.653"W	0.00	0.00	0.00	
12422.001	89.210	89.637	9736.93	2963:78	18.78	2963.72	648694.42	397258.48	32°05'28:570"N	103°51'11'491"W	00.00	00:00	0,00	
12522.00+	89.210	89.637	9738.31	3063.77	19.42	3063.71	648794.40	397259.12	32°05'28.572"N	103°51'10.329"W	0.00	0.00	00.00	
12622.00†	89.210	89.637	9739.69	3163.76	20:05	3163.70	648894.38	397259.75	32°05'28.574"N	103°51'09.167"W	0.00	0.00	0.00	
12722.00	89.210	89.637	9741.07	3263.75	20.69	3263.69	648994.36	397260.38	32°05'28.576"N	103°51'08.004"W	0.00	00.00	0.00	
12822.001	89.210	89.637	9742.45	<u> </u>	21.32	3363.67	649094.34	397261.02	32°05'28.578"N	103°51'06.842"W	0.00	0.0	0.00	
12922.00	89.210	89.637	9743.82	3463.73	21.95	3463.66	649194.32	397261.65	32°05'28.580"N	103°51!05.680"W	0.00	00:0	0:00	
13022.001	89.210	89.637	9745.20	3563.72	22.59	3563.65	649294.31	397262.29	32°05'28.582"N	103°51'04.518"W	00.00	00.0	0.00	
13122.00	89.210	89.637	9746.58	3663.71	23.22	3663.64	649394.29	397262.92	32°05'28.583"N	103°51'03.355"W	0.00	0.00	0.00	
13222.001	89.210	89.637	9747.96	3763.70	23.85	3763.63	649494.27	397263.55	32°05'28.585"N	103°51'02.193"W	00:0	0.0	0.00 0	
13322.001	89.210	89.637	9749.34	3863.69	24.49	3863.62	649594.25	397264.19	32°05'28.587"N	103°51'01.031"W	0.00	0.00	0.00	
13422.001	89.210	89.637	9750.72		25.12	3963.60	649694.23	397264.82	32°05'28'589"N	103°50'59.869"W	00.0	0.00	0:00	
13522.00+	89.210	89.637	9752.10	4063.67	25.76	4063.59	649794.21	397265.45	32°05'28.591"N	103°50'58.706"W	00.0	0.00	00.0	
13622.00†	89.210	89.637	9753.48	4163.67	26.39	4163.58	649894.20	397266.09	32°05'28.593"N	103°50'57.544"W	00.0	0.00	0.00	
13722.00†	89.210	89.637	9754.85	4263.66	27.02	4263.57	649994.18	397266.72	32°05'28.594"N	103°50'56.382"W	0.00	0.0	0.00	
13822.001	89.210	89.637	9756.23	4363.65	27.66	4363.56	650094.16	397267.36	32°05'28.596"N	103°50'55.220"W	0.00	0.00	0.00	
13922.001	89.210	89:637	9757.61		28.29	4463.55	650194.14	397267.99	32°05'28.598"N	103°50'54.057"W	0.00	00:0	00:0	



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REFERE	ENCE WELLPATH IDENTIFICATION		
Operator	Operator BOPCO, LP	Slot	Poker Lake Unit No. 471H
Area	Eddy County, NM	Well	Poker Lake Unit No. 471H
Field	Poker Lake Unit (Eddy Co.,NM)	Wellbore	Poker Lake Unit No. 471H PWB
Facility	Poker Lake Unit No. 471H		
	WICI I BATH MATA (2003 -4-4:		

_	VELLEATE DATA (ZUZ STATIONS)		2/ / - Interpolation										
Inclination r°1	Azimuth		Vert Sect N	North	East	Grid East	Grid North	Latitude	Longitude	DLS PLS	Build Rate	Turn Rate Comments P°/100ft1	omments
89.21	0 89.637	9758.991	.63	12	4563.54	650294.12	397268.62	32°05'28.600"N	103°50'52.895"W	0.00	0.00	00.0	
<u> </u>	0 89.637	9760.37	4663.62 2	29.56 4	4663.52	650394.10	397269.26	32°05'28.602"N	103°50'51.733"W	0.00	0.00	00.00	
14222.001 89.210	0 89.637	9761.75	4763.61 3		4763.51	650494.09	397269.89	32°05'28.603"N	103°50'50.571"W	0.00	0.00	0.00	
14322.00 89.210	0 89.637	9763.13	4863.60 3	30.83 4	4863.50	650594.07	397270.52	32°05'28.605"N	103°50'49.408"W	00.00	0.00	00.00	
14422:001 89:210	0 39:637	9764.51	4963.59 3	31.46	4963.49	650694.05	397271.16	32°05'28'607"N	103°50'48'246"W	0.00	00:00	0.00	
14522.00 89.210	0 89 637	9765.88	5063.58 3	32.09 5	5063.48	650794.03	397271.79	32°05'28.609"N	103°50'47.084"W	0.00	0.00	0.00	
14622.00+ 89.21	0 89.637	9767.26	5163.57 3	1	5163.47	650894.01	397272.42	32°05'28.611"N	103°50'45.922"W	0.00	0.00	00.00	
14722.00 89.210		9768.64	1		5263.45	650993.99	397273.06	32°05'28.612"N	103°50'44.759"W	0.00	00.00	00.00	
14822.001 89.210		9770.02	5363.55 3		5363.44	651093.98	397273.69	32°05'28.614"N	103°50'43.597"W	0.00	0.00	0.00	
14922:001 89.210	0 89,637	9771 40	5463.54 3	í. –	5463.43	651193.96	397274.33	32°05'28.616"N	103°50'42.435"W	0,00	0.00	00:00	
15022.00 89.210	0 89.637	9772.78	5563.53 3		5563.42	651293.94	397274.96	32°05'28.618"N	103°50'41.273"W	0.00	0.00	0.00	
15122.00 89.210	0 89.637	9774.16		35.90 5	5663.41	651393.92	397275.59	32°05'28.620"N	103°50'40.111"W	0.00	0.00	0.00	
	L	9775.54	-		5763.40	651493.90	397276.23	32°05'28.621"N	103°50'38.948"W	0.00	00.0	0.00	
15322.00 89.210	0 89.637	9776.91	5863.50 3	i	5863.39	651593.88	397276.86	32°05'28.623"N	103°50'37.786"W	0.00	0.00	0.00	
15422.00 89.210	0, 89.637	9778.29	5963.49 3	37.80	5963:37	651693.87	397277.49	32°05'28.625"N	103°50'36.624"W	00;0	0.00	00:00	
15522.00 89.21	0 89.637	9779.67	6063.48 3	38.43 6	6063.36	651793.85	397278.13	32°05'28.627"N	103°50'35.462"W	0.00	0.00	0.00	
15622.00 89.210	0 89.637	9781.05	6163.48 3		6163.35	651893.83	397278.76	32°05'28.629"N	103°50'34.299"W	0.00	0.00	0.00	
15722.00+ 89.210	0 89.637	9782.43	6263.47 3	39.70 6	6263.34	651993.81	397279.40	32°05'28.630"N	103°50'33.137"W	0.00	0.00	0.00	
15822.00 89.210	0 89.637	9783.81	6363.46 4	40.33 6	6363.33	652093.79	397280.03	32°05'28.632"N	103°50'31.975"W	0.00	0.0	00.0	
15922.001 89.210	0 89.637	9785.19	6463:45 4	40.97	6463.32	652193.77	397280.66	32°05'28.634"N	103°50'30.813"W	0.00	0.00	0:00	
16022.00 89.210		_		_	6563.31	652293.76	397281.30	32°05'28.636"N	103°50'29.650"W	0.00	0.00	00.0	
16122.00 89.210	0 89.637	9787.94	6663.43 4	42.23 E	6663.29	652393.74	397281.93	32°05'28.637"N	103°50'28.488"W	0.00	0.00	0.00	
16222.00† 89.210	0 89.637	9789.32	6763.42 4		6763.28	652493.72	397282.56	32°05'28.639"N	103°50'27.326"W	0.00	0.00	0.00	
16322.00 89.210	0 89.637	9790.70	6863.41 4	43.50 6	6863.27	652593.70	397283.20	32°05'28.641"N	103°50'26.164"W	0.00	0.00	0.00	
16422.001 89.210	0 89.637	9792.08	6963.40 4	· .	6963.26	652693-68	397283.83	-32°05'28'643"N	7 103°50'25:001"W	. 00.00	00:0	0.00	
16522.001 89.210		1		44.77	7063.25	652793.66	397284.47	32°05'28.644"N	103°50'23.839"W	0.00	0.00	0.0 0	
16622.001 89.210		9794.84	7163.38 4	45.40 7	7163.24	652893.64	397285.10	32°05'28.646"N	103°50'22.677"W	0.00	0.0	00.0	
16722.00 89.210	0 89.637	9796.22	7263.37 4	46.04	7263.22	652993.63	397285.73	32°05'28.648"N	103°50'21.515"W	0.00	00.0	0.00	
16822.00 89.210	0 89.637	9797.60	7363.36 4	46.67	7363.21	653093.61	397286.37	32°05'28.650"N	103°50'20.352"W	0.00		0.00	
112000 HON HON COORF		12	÷	l									



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REFERE	NCE WELLPATH IDENTIFICATION		
Operator	Dperator BOPCO, LP	Slot	Poker Lake Unit No. 471H
Area	Eddy County, NM	Well	Poker Lake Unit No. 471H
Field	Poker Lake Unit (Eddy Co.,NM)	Wellbore	Poker Lake Unit No. 471H PWB
Facility			

	omments						-								·								TD/PBHI
	Turn Rate Comments [°/100ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.00	0.00	0.00	0.00	0.00	00.00	0.00	0.00
	Build Rate [°/100ft]	00.0	00.00	00.00	00.00	00:00	00.00	00.00	00.00	00.00	00.00	0.00	00.00	00.00	00.00	00.0	00.0	0.00	00.00	00.00	00:0	00.0	0.00
-	DLS [°/100ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.00	0.00	0.00	0.00	0.00	0.00	00.0	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Longitude	103°50'18.028"W	103°50'16.866"W	103°50'15.703"W	103°50'14.541"W	[103°50'13.379"W	103°50'12.217"W	103°50'11.054"W	103°50'09.892"W	103°50'08.730"W	103°50'07.568"W	103°50'06.406"W	103°50'05.243"W	103°50'04.081"W	103°50'02.919"W	103°50'01.757"W	103°50'00.594"W	103°49'59.432"W	103°49'58.270"W	103°49'57.108"W	103°49'55 945"W	103°49'54.783"W	103°49'53 880"W
	Latitude	32°05'28.653"N	32°05'28.655"N	32°05'28.657"N	32°05'28.658"N	32°05'28.660"N	32°05'28.662"N	32°05'28.663"N	32°05'28.665"N	32°05'28.667"N	32°05'28.669"N	32°05'28.670"N	32°05'28.672"N	32°05'28.674"N	32°05'28.675"N	32°05'28:677"N	32°05'28.679"N	32°05'28.680"N	32°05'28.682"N	32°05'28.684"N	32°05'28:685"N	32°05'28.687"N	32°05/28:688"N
n	Grid North [US ft]	397287.63	397288.27	397288.90	397289.53	397290.17	397290.80	397291.44	397292.07	397292.70	397293.34	397293.97	397294.60	397295.24	397295.87	397296.51	397297.14	397297.77	397298.41	397299.04	397299.67	397300.31	397300.80
polated station	Grid East [US ft]	653293.57	653393.55	653493.53	653593.52	653693.50	653793.48	653893.46	653993.44	654093.42	654193.41	654293.39	654393.37	654493.35	654593.33	654693.31	654793.30	654893.28	654993.26	655093.24	655193.22	655293.20	655370.90
† = interpolated/extrap	East [ft]	7563.19	7663.18	7763.17	7863.16	7963.14	8063.13	8163.12	8263.11	8363.10	8463.09	8563.07	8663.06	8763.05	8863.04	8963.03	9063.02	9163.01	9262.99	9362.98	9462:97	9562.96	9640.66
nterpola	North [ft]	47.94	48.57	49.20	49.84	50.47	51.11	51.74	52.37	53.01	53.64	54.27	54.91	55.54	56.18	56.81	57.44	58.08	58.71	59.34	59.98	60.61	<u>61</u> 10
	Vert Sect North [ft] [ft]	7563.34	7663.33	7763.32	7863.31	7963.30	8063.29	8163.28	8263.28	8363.27	8463.26	8563.25	8663.24	8763.23	8863.22	8963.21	9063.20	9163.19	9263.18	9363.17	9463.16	9563.15	9640.85
stations	TVD [#]	9800.35	9801.73	9803.11	9804.49	9805.87 7963.30	9807.25	9808.63	9810.00	9811.38	89.637 9812.76	9814.14	9815.52	9816.90	9818.28	9819.66, 8963.21	9821.03	9822.41	9823.79	9825.17	9826.55	9827.93	9829:001
\ (202	Azimuth [°]	89.637	89.637	89.637	89.637	189.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89.637	89,637	89.637	89.637	89.637	89.637	89.637	89.637	89.637
TH DATA	Inclination Azimuth [°] [°]	89.210	89.210	89.210	89.210	89.210	89.210	89.210	89.210	89.210	89.210	89.210	89.210	89.210	89.210	89.210	89.210	89.210	89.210	89.210	89.210	89.210	89.210
WELLPATH DATA (202 stations)	QM [1]	17022.00	17122.00	17222.00	17322.00+	17422.001	17522.00+	17622.00+	17722.00+	17822.001	17922.00+	18022.001	18122.00+	18222.001	18322.00+	18422.001	18522.00+	18622.001	18722.00+	18822.001	18922.001	19022.001	19099.71



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REFEREN	ENCE WELLPATH IDENTIFICATION		
Operator	BOPCO, LP	Slot	Poker Lake Unit No. 471H
Area	Eddy County, NM	Well	Poker Lake Unit No. 471H
Field	Poker Lake Unit (Eddy Co.,NM)	Wellbore	Poker Lake Unit No. 471H PWB
Facility	Poker Lake Unit No. 471H		

TARGETS									
Name	QW	TVD	North	East	Grid East	Grid North	Latitude	Longitude	Shape
-	[11]	[¥]	[¥]	[¥]	[US ft]	[US ft]			
1) Poker Lake Unit No. 471H PBHI rev 1	19099.71	9829:00	611.10	9640.66	655370.90	397300.80	32°05'28 688"N	103°4953-880"	M point

SURVEY PRO	GRAM -	SURVEY PROGRAM - Ref Wellbore: Poker Lake Unit No. 471H PWB	Ref Wellpath: Poker Lake Unit No. 471H Rev A.O	471H Rev A.0
Start MD [ft]	End MD [ff]	Positional Uncertainty Model	Log Name/Comment	Wellbore
22.00	2100(21000.00 BHI NaviTrak (Axial)		Poker Lake Unit No. 471H PWB

