

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

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

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMLC068905
2. Name of Operator BOPCO LP- Contact: COURTNEY LOCKHART E-Mail: cjlockhart@basspet.com		6. If Indian, Allottee or Tribe Name
3a. Address MIDLAND, TX 79702	3b. Phone No. (include area code) Ph: 432-221-7307	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 15 T24S R30E SESE 450FSL 770FEL 32.211707 N Lat, 103.862277 W Lon		8. Well Name and No. PLU BIG SINKS 15 24 30 USA 1H
		9. API Well No. 30-015-40936-00-X1
		10. Field and Pool, or Exploratory WILDCAT
		11. County or Parish, and State EDDY COUNTY, NM

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

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

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

BOPCO, L.P. respectfully requests permission to extend the lateral section of the Big Sinks 15-24-30 USA 1H by 1,500? to a new TD of 16,370? MD, 7,330? TVD. The lateral will be cased with 5-1/2", 17 ppf, HCP-110, BTC. It will be cemented in two stages with additional tail cement in the 1st stage to fill the additional 1,500? of lateral section. The 1st stage will be cemented back to the DV Tool (+/- 5,000?). The 2nd stage will be cemented back to 2,925? (500? into 8-5/8" casing string). Please find attached the revised casing program, cement program, plat package and directional plans.

Accepted for record
NMOC
wDade 7/31/2013



14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #213755 verified by the BLM Well Information System For BOPCO LP, sent to the Carlsbad Committed to AFMSS for processing by JOHNNY DICKERSON on 07/18/2013 (13JLD0998SE)	
Name (Printed/Typed) CHRISTOPHER VOLEK	Title DRILLING ENGINEER
Signature (Electronic Submission)	Date 07/16/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHRISTOPHER WALLS	Title PETROLEUM ENGINEER	Date 07/22/2013
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office Carlsbad

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1090 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-105-40936		2 Pool Code 97798		3 Pool Name WC: G-06S2430126M; BONE SPRING	
4 Property Code 39614		5 Property Name PLU BIG SINKS 15 24 30 USA			6 Well Number 1H
7 OGRID No. 260737		8 Operator Name BORCO, L.P.			9 Elevation 3434'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	15	24S	30E		450'	SOUTH	770'	EAST	EDDY

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	10	24S	30E		2507'	SOUTH	725'	EAST	EDDY

12 Dedicated Acres 240	13 Joint or Infill	14 Consolidation Code	15 Order No.
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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.

PROPOSED BOTTOM HOLE LOCATION X= 646,718 NAD 27 Y= 448,388 LAT. 32.231857 LONG. 103.882087 X= 606,000 NAD83 Y= 448,447 LAT. 32.231890 LONG. 103.882673	PLU BIG SINKS 15 24 30 USA NO. 1H WELL X= 646,809 NAD 27 Y= 441,068 LAT. 32.211707 LONG. 103.882277 X= 606,673 NAD83 Y= 441,118 LAT. 32.211890 LONG. 103.882762 ELEVATION +3434' NAVD 83		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or a mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Courtney Lockhart</i> 7-13-13 Signature Date Courtney Lockhart Printed Name cjlockhart@bassnet.com E-mail Address
			18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. July 13, 2013 Date of Survey <i>[Signature]</i> Signature and Seal of Profession WILL J. DANIEL III NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR 16078 Certificate Number: #16078

BOPCO, L.P. respectfully requests permission to extend the lateral section of the Big Sinks 15-24-30 USA 1H by 1,500' to a new TD of 16,370' MD, 7,330' TVD. The lateral will be cased with 5-1/2", 17 ppf, HCP-110, BTC. It will be cemented in two stages with additional tail cement in the 1st stage to fill the additional 1,500' of lateral section. The 1st stage will be cemented back to the DV Tool (+/- 5,000'). The 2nd stage will be cemented back to 2,925' (500' into 8-5/8" casing string). Please find attached the revised casing program, cement program, plat package and directional plans.

Revised Casing Program:

Type	Interval (MD)	Hole Size
5-1/2", 17 ppf, HCP-110, BTC	0-16,370'	7-7/8"

Casing Program Safety Factors:

Type	Tension	Collapse	Burst
5-1/2", 17 ppf, HCP-110, BTC	2.88	1.16	1.65

Cementing Program: Please see below for updates to the production cement program

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

1st Stage

Conditioning: Circulate two casing volumes

Preflush: 40 bbls FW

Lead Slurry: 65/35 Class "H": Poz Cement + 5% Granulated Salt + 6% Bentonite Gel + 0.4% Retarder + 0.125 lb/sk Cellophane + 0.46 lb/sk Antifoam + 3 lb/sk Kol-Seal LCM

Lead Volume: 500 sacks

Lead Details: 12.9 ppg, 1.91 ft³/sk yield, H₂O 9.922 gal/sk

Top of Lead: DV Tool

Tail Slurry: PVL Cement: 1.3% Granulated Salt + 5% Expanding Cement + 0.5% Gel Suppressing Agent + 0.1% Antisettling agent + 0.5% Retarder + 0.2% Mid Temperature Retarder + 0.4 pps Antifoam

Tail Volume: 1,155 sacks

Tail Details: 13.0 ppg, 1.48 ft³/sk yield, H₂O 7.563 gal/sk

Top of Tail: KOP (8,767')

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

2nd Stage

Preflush: 20 bbls FW

Lead Slurry: 65/35 Class "C"; Poz Cement + 5% Salt + 6% Bentonite + 0.2% Retarder + 0.125 lb/sk Cellophane + 0.4 lb/sk Antifoam + 3 lb/sk Kol-Seal LCM

Lead Volume: 300 sacks

Lead Details: 12.9 ppg, 1.91 ft³/sk yield, H₂O 9.922 gal/sk

Top of Lead: 2,925'

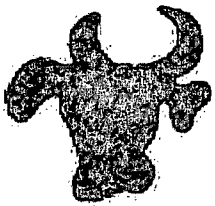
Tail Slurry: Class "C" Cement: 0.2% Retarder

Tail Volume: 100 sacks

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

Tail Length: 500'

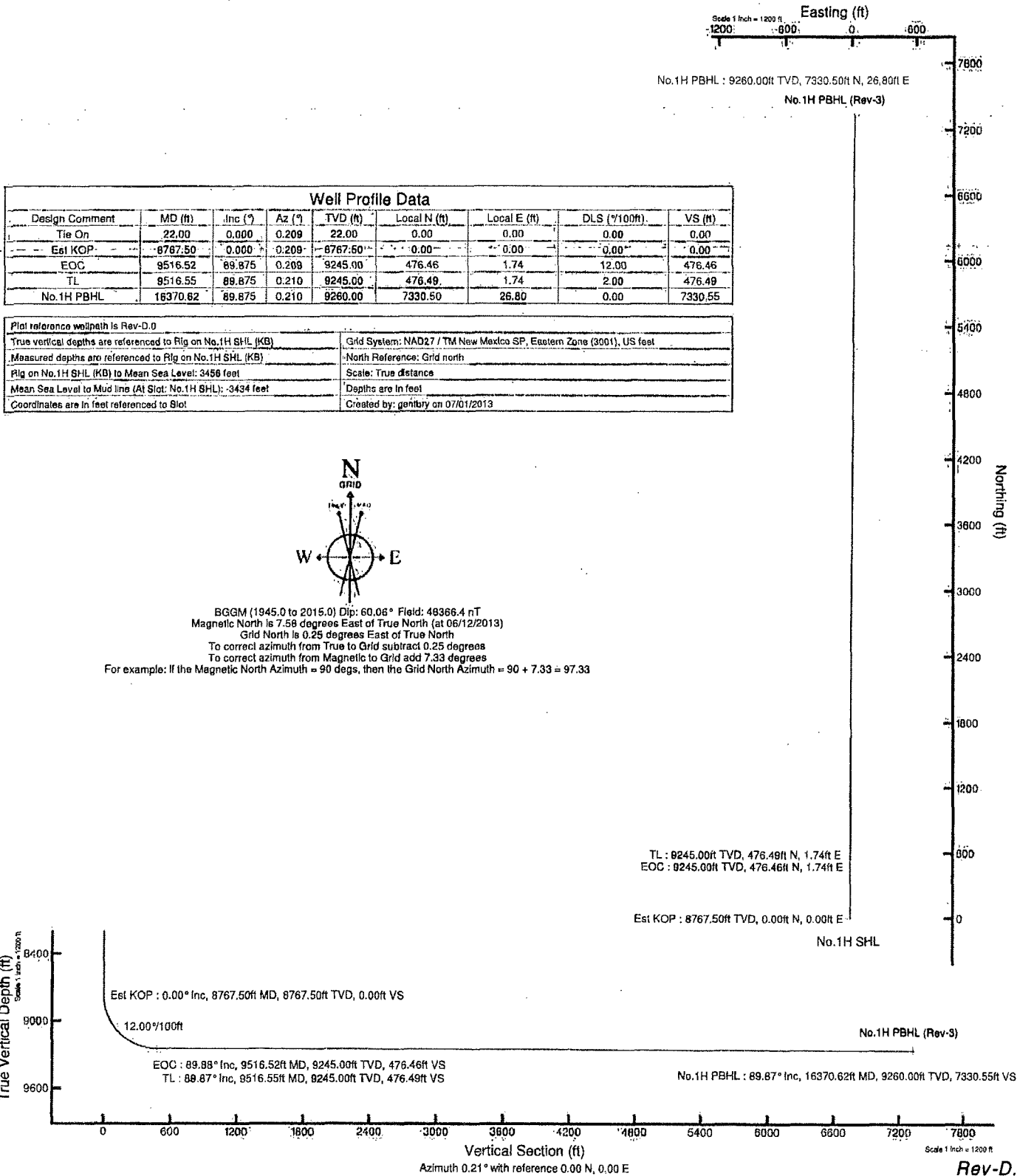
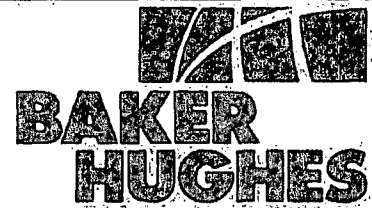
TOC: 3,425'



BOPCO, L.P.

Location: Eddy County, NM
Field: Poker Lake Unit
Facility: PLU Big Sinks 15-24-30 USA No.1H

Slot: No.1H SHL
Well: No.1H
Wellbore: No.1H PWB





Planned Wellpath Report

Rev-D.0
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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.1H SHL
Area	Eddy County, NM	Well	No.1H
Field	Poker Lake Unit	Wellbore	No.1H PWB
Facility	PLU Big Sinks 15-24-30 USA No.1H		

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	0.999933	Report Generated	07/01/2013 at 2:26:53 PM
Convergence at slot	0.25° East	Database/Source file	WA Midland/No.1H_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W
Facility Reference Pt			645689.00	441058.00	32°12'42.149"N	103°51'44.199"W
Field Reference Pt			630272.49	405347.85	32°06'49.387"N	103°54'45.266"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No.1H SHL (KB) to Facility Vertical Datum	22.00ft
Horizontal Reference Pt	Slot	Rig on No.1H SHL (KB) to Mean Sea Level	3456.00ft
Vertical Reference Pt	Rig on No.1H SHL (KB)	Rig on No.1H SHL (KB) to Mud Line at Slot (No.1H SHL)	22.00ft
MD Reference Pt	Rig on No.1H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	0.21°



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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.1H SHL
Area	Eddy County, NM	Well	No.1H
Field	Poker Lake Unit	Wellbore	No.1H PWB
Facility	PLU Big Sinks 15-24-30 USA No.1H		

WELLPATH DATA (178 stations) † = interpolated/extrapolated station.

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	0.209	0.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
22.00†	0.000	0.209	22.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	Tie On
122.00†	0.000	0.209	122.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
222.00†	0.000	0.209	222.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
322.00†	0.000	0.209	322.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
422.00†	0.000	0.209	422.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
522.00†	0.000	0.209	522.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
622.00†	0.000	0.209	622.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
716.00†	0.000	0.209	716.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	Rustler
722.00†	0.000	0.209	722.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
822.00†	0.000	0.209	822.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
922.00†	0.000	0.209	922.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
1006.00†	0.000	0.209	1006.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	Salado
1022.00†	0.000	0.209	1022.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
1122.00†	0.000	0.209	1122.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
1222.00†	0.000	0.209	1222.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
1322.00†	0.000	0.209	1322.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
1422.00†	0.000	0.209	1422.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
1522.00†	0.000	0.209	1522.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
1622.00†	0.000	0.209	1622.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
1722.00†	0.000	0.209	1722.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
1822.00†	0.000	0.209	1822.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
1922.00†	0.000	0.209	1922.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
2022.00†	0.000	0.209	2022.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
2122.00†	0.000	0.209	2122.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
2222.00†	0.000	0.209	2222.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
2322.00†	0.000	0.209	2322.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
2422.00†	0.000	0.209	2422.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
2522.00†	0.000	0.209	2522.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
2622.00†	0.000	0.209	2622.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
2722.00†	0.000	0.209	2722.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
2822.00†	0.000	0.209	2822.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
2922.00†	0.000	0.209	2922.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
3022.00†	0.000	0.209	3022.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
3122.00†	0.000	0.209	3122.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
3222.00†	0.000	0.209	3222.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
3322.00†	0.000	0.209	3322.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
3422.00†	0.000	0.209	3422.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
3522.00†	0.000	0.209	3522.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
3622.00†	0.000	0.209	3622.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
3722.00†	0.000	0.209	3722.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
3822.00†	0.000	0.209	3822.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
3922.00†	0.000	0.209	3922.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
3996.00†	0.000	0.209	3996.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	Lamar
4022.00†	0.000	0.209	4022.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	



Planned Wellpath Report

Rev-D.0

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.1H SHL
Area	Eddy County, NM	Well	No.1H
Field	Poker Lake Unit	Wellbore	No.1H PWB
Facility	PLU Big Sinks 15-24-30 USA No.1H		

WELLPATH DATA (178 stations) † = interpolated/extrapolated station

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
4023.00†	0.000	0.209	4023.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	Delaware Sands
4122.00†	0.000	0.209	4122.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
4222.00†	0.000	0.209	4222.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
4322.00†	0.000	0.209	4322.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
4422.00†	0.000	0.209	4422.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
4522.00†	0.000	0.209	4522.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
4622.00†	0.000	0.209	4622.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
4722.00†	0.000	0.209	4722.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
4822.00†	0.000	0.209	4822.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
4922.00†	0.000	0.209	4922.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
5022.00†	0.000	0.209	5022.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
5122.00†	0.000	0.209	5122.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
5222.00†	0.000	0.209	5222.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
5322.00†	0.000	0.209	5322.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
5422.00†	0.000	0.209	5422.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
5522.00†	0.000	0.209	5522.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
5622.00†	0.000	0.209	5622.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
5722.00†	0.000	0.209	5722.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
5822.00†	0.000	0.209	5822.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
5922.00†	0.000	0.209	5922.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
6022.00†	0.000	0.209	6022.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
6122.00†	0.000	0.209	6122.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
6222.00†	0.000	0.209	6222.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
6322.00†	0.000	0.209	6322.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
6422.00†	0.000	0.209	6422.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
6522.00†	0.000	0.209	6522.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
6622.00†	0.000	0.209	6622.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
6722.00†	0.000	0.209	6722.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
6822.00†	0.000	0.209	6822.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
6922.00†	0.000	0.209	6922.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
7022.00†	0.000	0.209	7022.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
7122.00†	0.000	0.209	7122.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
7222.00†	0.000	0.209	7222.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
7322.00†	0.000	0.209	7322.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
7422.00†	0.000	0.209	7422.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
7522.00†	0.000	0.209	7522.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
7622.00†	0.000	0.209	7622.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
7722.00†	0.000	0.209	7722.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
7822.00†	0.000	0.209	7822.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
7851.00†	0.000	0.209	7851.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	Bone Springs
7922.00†	0.000	0.209	7922.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
8022.00†	0.000	0.209	8022.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
8027.00†	0.000	0.209	8027.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	Upper Avalon
8122.00†	0.000	0.209	8122.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
8222.00†	0.000	0.209	8222.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.1H SHL
Area	Eddy County, NM	Well	No.1H
Field	Poker Lake Unit	Wellbore	No.1H PWB
Facility	PLU Big Sinks 15-24-30 USA No.1H		

WELLPATH DATA (178 stations) † = interpolated/extrapolated station

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
8322.00†	0.000	0.209	8322.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
8395.00†	0.000	0.209	8395.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	Lower Avalon
8422.00†	0.000	0.209	8422.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
8522.00†	0.000	0.209	8522.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
8622.00†	0.000	0.209	8622.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
8722.00†	0.000	0.209	8722.00	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	
8767.50	0.000	0.209	8767.50	0.00	0.00	0.00	645689.00	441058.00	32°12'42.149"N	103°51'44.199"W	0.00	Est KOP
8802.03†	4.143	0.209	8802.00	1.25	1.25	0.00	645689.00	441059.25	32°12'42.161"N	103°51'44.199"W	12.00	1st Bone Spring Sand
8822.00†	6.540	0.209	8821.88	3.11	3.11	0.01	645689.01	441061.11	32°12'42.179"N	103°51'44.199"W	12.00	
8922.00†	18.539	0.209	8919.32	24.78	24.78	0.09	645689.09	441082.78	32°12'42.394"N	103°51'44.197"W	12.00	
9022.00†	30.538	0.209	9010.12	66.23	66.23	0.24	645689.24	441124.23	32°12'42.804"N	103°51'44.193"W	12.00	
9113.49†	41.516	0.209	9084.00	119.96	119.96	0.44	645689.44	441177.95	32°12'43.336"N	103°51'44.188"W	12.00	1st Bone Spring Shale
9122.00†	42.537	0.209	9090.32	125.66	125.66	0.46	645689.46	441183.65	32°12'43.392"N	103°51'44.187"W	12.00	
9222.00†	54.536	0.209	9156.41	200.46	200.46	0.73	645689.73	441258.44	32°12'44.132"N	103°51'44.180"W	12.00	
9322.00†	66.535	0.209	9205.51	328.73	328.73	1.05	645690.05	441345.34	32°12'44.992"N	103°51'44.172"W	12.00	
9422.00†	78.534	0.209	9235.47	382.58	382.58	1.40	645690.40	441440.55	32°12'45.934"N	103°51'44.163"W	12.00	
9516.52	89.875	0.209	9245.00	476.46	476.46	1.74	645690.74	441534.42	32°12'46.863"N	103°51'44.155"W	12.00	EOC
9516.55	89.875	0.210	9245.00	476.49	476.49	1.74	645690.74	441534.46	32°12'46.864"N	103°51'44.155"W	2.00	TL
9522.00†	89.875	0.210	9245.01	481.94	481.94	1.76	645690.76	441539.91	32°12'46.918"N	103°51'44.154"W	0.00	
9622.00†	89.875	0.210	9245.23	581.94	581.94	2.12	645691.12	441639.90	32°12'47.907"N	103°51'44.145"W	0.00	
9722.00†	89.875	0.210	9245.45	681.94	681.94	2.49	645691.49	441739.89	32°12'48.897"N	103°51'44.135"W	0.00	
9822.00†	89.875	0.210	9245.67	781.94	781.94	2.86	645691.85	441839.88	32°12'49.886"N	103°51'44.126"W	0.00	
9922.00†	89.875	0.210	9245.89	881.94	881.94	3.22	645692.22	441939.88	32°12'50.876"N	103°51'44.117"W	0.00	
10022.00†	89.875	0.210	9246.11	981.94	981.94	3.59	645692.59	442039.87	32°12'51.865"N	103°51'44.107"W	0.00	
10122.00†	89.875	0.210	9246.33	1081.94	1081.94	3.95	645692.95	442139.86	32°12'52.855"N	103°51'44.098"W	0.00	
10222.00†	89.875	0.210	9246.54	1181.94	1181.93	4.32	645693.32	442239.85	32°12'53.844"N	103°51'44.089"W	0.00	
10322.00†	89.875	0.210	9246.76	1281.94	1281.93	4.68	645693.68	442339.85	32°12'54.834"N	103°51'44.079"W	0.00	
10422.00†	89.875	0.210	9246.98	1381.94	1381.93	5.05	645694.05	442439.84	32°12'55.823"N	103°51'44.070"W	0.00	
10522.00†	89.875	0.210	9247.20	1481.94	1481.93	5.41	645694.41	442539.83	32°12'56.813"N	103°51'44.060"W	0.00	
10622.00†	89.875	0.210	9247.42	1581.94	1581.93	5.78	645694.78	442639.82	32°12'57.802"N	103°51'44.051"W	0.00	
10722.00†	89.875	0.210	9247.64	1681.94	1681.93	6.15	645695.15	442739.81	32°12'58.792"N	103°51'44.042"W	0.00	
10822.00†	89.875	0.210	9247.86	1781.94	1781.93	6.51	645695.51	442839.81	32°12'59.781"N	103°51'44.032"W	0.00	
10922.00†	89.875	0.210	9248.08	1881.94	1881.93	6.88	645695.88	442939.80	32°13'00.771"N	103°51'44.023"W	0.00	
11022.00†	89.875	0.210	9248.29	1981.94	1981.93	7.24	645696.24	443039.79	32°13'01.760"N	103°51'44.014"W	0.00	
11122.00†	89.875	0.210	9248.51	2081.94	2081.93	7.61	645696.61	443139.78	32°13'02.750"N	103°51'44.004"W	0.00	
11222.00†	89.875	0.210	9248.73	2181.94	2181.93	7.97	645696.97	443239.78	32°13'03.739"N	103°51'43.995"W	0.00	
11322.00†	89.875	0.210	9248.95	2281.94	2281.92	8.34	645697.34	443339.77	32°13'04.729"N	103°51'43.986"W	0.00	
11422.00†	89.875	0.210	9249.17	2381.94	2381.92	8.71	645697.71	443439.76	32°13'05.718"N	103°51'43.976"W	0.00	
11522.00†	89.875	0.210	9249.39	2481.94	2481.92	9.07	645698.07	443539.75	32°13'06.708"N	103°51'43.967"W	0.00	
11622.00†	89.875	0.210	9249.61	2581.94	2581.92	9.44	645698.44	443639.74	32°13'07.697"N	103°51'43.958"W	0.00	
11722.00†	89.875	0.210	9249.83	2681.94	2681.92	9.80	645698.80	443739.74	32°13'08.687"N	103°51'43.948"W	0.00	
11822.00†	89.875	0.210	9250.05	2781.94	2781.92	10.17	645699.17	443839.73	32°13'09.676"N	103°51'43.939"W	0.00	
11922.00†	89.875	0.210	9250.26	2881.94	2881.92	10.53	645699.53	443939.72	32°13'10.666"N	103°51'43.929"W	0.00	
12022.00†	89.875	0.210	9250.48	2981.94	2981.92	10.90	645699.90	444039.71	32°13'11.655"N	103°51'43.920"W	0.00	
12122.00†	89.875	0.210	9250.70	3081.94	3081.92	11.27	645700.26	444139.71	32°13'12.645"N	103°51'43.911"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION				
Operator	BOPCO, L.P.		Slot	No.1H SHL
Area	Eddy County, NM		Well	No.1H
Field	Poker Lake Unit		Wellbore	No.1H PWB
Facility	PLU Big Sinks 15-24-30 USA No.1H			

WELLPATH DATA (178 stations) † = interpolated/extrapolated station												
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
12222.00†	89.875	0.210	9250.92	3181.94	3181.92	11.63	645700.63	444239.70	32°13'13.634"N	103°51'43.901"W	0.00	
12322.00†	89.875	0.210	9251.14	3281.94	3281.92	12.00	645701.00	444339.69	32°13'14.624"N	103°51'43.892"W	0.00	
12422.00†	89.875	0.210	9251.36	3381.94	3381.91	12.36	645701.36	444439.68	32°13'15.613"N	103°51'43.883"W	0.00	
12522.00†	89.875	0.210	9251.58	3481.94	3481.91	12.73	645701.73	444539.67	32°13'16.603"N	103°51'43.873"W	0.00	
12622.00†	89.875	0.210	9251.80	3581.94	3581.91	13.09	645702.09	444639.67	32°13'17.592"N	103°51'43.864"W	0.00	
12722.00†	89.875	0.210	9252.02	3681.94	3681.91	13.46	645702.46	444739.66	32°13'18.582"N	103°51'43.855"W	0.00	
12822.00†	89.875	0.210	9252.23	3781.94	3781.91	13.83	645702.82	444839.65	32°13'19.571"N	103°51'43.845"W	0.00	
12922.00†	89.875	0.210	9252.45	3881.94	3881.91	14.19	645703.19	444939.64	32°13'20.561"N	103°51'43.836"W	0.00	
13022.00†	89.875	0.210	9252.67	3981.94	3981.91	14.56	645703.56	445039.64	32°13'21.550"N	103°51'43.826"W	0.00	
13122.00†	89.875	0.210	9252.89	4081.94	4081.91	14.92	645703.92	445139.63	32°13'22.540"N	103°51'43.817"W	0.00	
13222.00†	89.875	0.210	9253.11	4181.94	4181.91	15.29	645704.29	445239.62	32°13'23.529"N	103°51'43.808"W	0.00	
13322.00†	89.875	0.210	9253.33	4281.93	4281.91	15.65	645704.65	445339.61	32°13'24.519"N	103°51'43.798"W	0.00	
13422.00†	89.875	0.210	9253.55	4381.93	4381.91	16.02	645705.02	445439.60	32°13'25.509"N	103°51'43.789"W	0.00	
13522.00†	89.875	0.210	9253.77	4481.93	4481.90	16.39	645705.38	445539.60	32°13'26.498"N	103°51'43.780"W	0.00	
13622.00†	89.875	0.210	9253.98	4581.93	4581.90	16.75	645705.75	445639.59	32°13'27.488"N	103°51'43.770"W	0.00	
13722.00†	89.875	0.210	9254.20	4681.93	4681.90	17.12	645706.12	445739.58	32°13'28.477"N	103°51'43.761"W	0.00	
13822.00†	89.875	0.210	9254.42	4781.93	4781.90	17.48	645706.48	445839.57	32°13'29.467"N	103°51'43.752"W	0.00	
13922.00†	89.875	0.210	9254.64	4881.93	4881.90	17.85	645706.85	445939.57	32°13'30.456"N	103°51'43.742"W	0.00	
14022.00†	89.875	0.210	9254.86	4981.93	4981.90	18.21	645707.21	446039.56	32°13'31.446"N	103°51'43.733"W	0.00	
14122.00†	89.875	0.210	9255.08	5081.93	5081.90	18.58	645707.58	446139.55	32°13'32.435"N	103°51'43.724"W	0.00	
14222.00†	89.875	0.210	9255.30	5181.93	5181.90	18.94	645707.94	446239.54	32°13'33.425"N	103°51'43.714"W	0.00	
14322.00†	89.875	0.210	9255.52	5281.93	5281.90	19.31	645708.31	446339.54	32°13'34.414"N	103°51'43.705"W	0.00	
14422.00†	89.875	0.210	9255.74	5381.93	5381.90	19.68	645708.67	446439.53	32°13'35.404"N	103°51'43.695"W	0.00	
14522.00†	89.875	0.210	9255.95	5481.93	5481.90	20.04	645709.04	446539.52	32°13'36.393"N	103°51'43.686"W	0.00	
14622.00†	89.875	0.210	9256.17	5581.93	5581.89	20.41	645709.41	446639.51	32°13'37.383"N	103°51'43.677"W	0.00	
14722.00†	89.875	0.210	9256.39	5681.93	5681.89	20.77	645709.77	446739.50	32°13'38.372"N	103°51'43.667"W	0.00	
14822.00†	89.875	0.210	9256.61	5781.93	5781.89	21.14	645710.14	446839.50	32°13'39.362"N	103°51'43.658"W	0.00	
14922.00†	89.875	0.210	9256.83	5881.93	5881.89	21.50	645710.50	446939.49	32°13'40.351"N	103°51'43.649"W	0.00	
15022.00†	89.875	0.210	9257.05	5981.93	5981.89	21.87	645710.87	447039.48	32°13'41.341"N	103°51'43.639"W	0.00	
15122.00†	89.875	0.210	9257.27	6081.93	6081.89	22.24	645711.23	447139.47	32°13'42.330"N	103°51'43.630"W	0.00	
15222.00†	89.875	0.210	9257.49	6181.93	6181.89	22.60	645711.60	447239.47	32°13'43.320"N	103°51'43.621"W	0.00	
15322.00†	89.875	0.210	9257.71	6281.93	6281.89	22.97	645711.97	447339.46	32°13'44.309"N	103°51'43.611"W	0.00	
15422.00†	89.875	0.210	9257.92	6381.93	6381.89	23.33	645712.33	447439.45	32°13'45.299"N	103°51'43.602"W	0.00	
15522.00†	89.875	0.210	9258.14	6481.93	6481.89	23.70	645712.70	447539.44	32°13'46.288"N	103°51'43.592"W	0.00	
15622.00†	89.875	0.210	9258.36	6581.93	6581.89	24.06	645713.06	447639.43	32°13'47.278"N	103°51'43.583"W	0.00	
15722.00†	89.875	0.210	9258.58	6681.93	6681.88	24.43	645713.43	447739.43	32°13'48.267"N	103°51'43.574"W	0.00	
15822.00†	89.875	0.210	9258.80	6781.93	6781.88	24.80	645713.79	447839.42	32°13'49.257"N	103°51'43.564"W	0.00	
15922.00†	89.875	0.210	9259.02	6881.93	6881.88	25.16	645714.16	447939.41	32°13'50.246"N	103°51'43.555"W	0.00	
16022.00†	89.875	0.210	9259.24	6981.93	6981.88	25.53	645714.53	448039.40	32°13'51.236"N	103°51'43.546"W	0.00	
16122.00†	89.875	0.210	9259.46	7081.93	7081.88	25.89	645714.89	448139.40	32°13'52.225"N	103°51'43.536"W	0.00	
16222.00†	89.875	0.210	9259.67	7181.93	7181.88	26.26	645715.26	448239.39	32°13'53.215"N	103°51'43.527"W	0.00	
16322.00†	89.875	0.210	9259.89	7281.93	7281.88	26.62	645715.62	448339.38	32°13'54.204"N	103°51'43.518"W	0.00	
16370.62	89.875	0.210	9260.00	7330.55	7330.50	26.80	645715.80	448388.00	32°13'54.685"N	103°51'43.513"W	0.00	No.1H PBHL

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) No.1H PBHL (Rev-3)	16370.62	9260.00	7330.50	26.80	645715.80	448388.00	32°13'54.685"N	103°51'43.513"W	point

PLU BS 15-24-30 USA No.1H PBHL	9260.00 4724.53 105.33 645794.32 445782.20 32°13'28.895"N 103°51'42.732"W	point
No.1H PBHL (Rev-2)	9265.00 6224.15 138.75 645827.74 447281.73 32°13'43.733"N 103°51'42.266"W	point

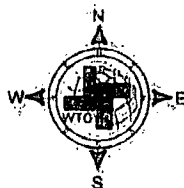
SURVEY PROGRAM - Ref Wellbore: No.1H PWB Ref Wellpath: Rev-D.0

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
22.00	16370.62	NaviTrak (Standard)		No.1H PWB

9	10
ENT.	(OPER.)



WELL NAME: PLU BIG SINKS 15 24 30
USA-1H



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BOPCO, L.P. 

JOB No.: WTC49227

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