

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

SUMMARY 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

2. Name of Operator **BOPCO, L. P.**

3a. Address
P. O. Box 2760, Midland, TX 79702

3b. Phone No. (include area code)
432-683-2277

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Surface: SWNW, UL-E, 1-740' FNL, 1075' FWL, Sec 3, T24S-R30E, Lat N32.279164, Lg W103.87603
Bottom Hole: 1,600' FNL, 900' FWL, Sec 11, T24S, R30E, Lat N32.23486, Lg W103.866033

5. Lease Serial No.
SHL LC 068545; BHL LC068905

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
NMNM71016X

8. Well Name and No.
Poker Lake Unit #332H

9. API Well No.
30-015-39835

10. Field and Pool, or Exploratory Area
Poker Lake (Delaware) NW

11. County or Parish, State
Eddy County New Mexico

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☒ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ 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. is requesting approval to lengthen the Lateral on the PLU 332H from 14,781' MD (7,753' TVD) to 15,575' MD (7,769' TVD). The surface location was moved more than 1/2 mile from measured potash ore to 1,150' FNL & 290' FWL (Sec 3, T24S-R30E). The bottom hole location will remain the same @ 1,600' FNL & 900' FWL, Sec. 11, T24S-R30E as indicated in the original APD. The dedicated acreage has not been affected. New C-102 attached, and new directional plan is attached.

BOPCO, L.P. respectfully is requesting approval to change the setting depth of the 7" casing. The 7" casing will be set at 1,628' MD (7,598' TVD) in the LBC 8A formation. The 7" casing will be cemented to the surface in two stages with a DV Tool placed approximately 5,000' MD. Cement volumes will be recalculated based on caliper log of 8-3/4" hole.

Cement as follows:

Cement Blends:

Stage 1:

Lead 140 sks Tuned Light "10.2 ppg, 2.70 ft3/sk, 12.19 gal/sk" (0.75 lbm/sk CFR-3, 1.5 lbm/sk salt, 0.25 lbm/sk Poly-E-Flake)

Tail 120 sks Versa Cem "13 ppg, 1.67 fy3/sk, 8.84 gal/sk" (0.5% Halad R-344, 0.4% CFR-3, 1 lbm/sk Salt)

Stage 2: **375**

Lead ~~100~~ sks Tuned Light "10.2 ppg, 2.7 ft3/sk, 12.9 gal/sk" (0.75 lbm/sk CFR-3, 1.5 lbm/sk salt, 0.25 lbm/sk Pol-E-Flake)

Tail 100 sks HalCem "14.8 ppg, 1.33 ft3/sk, 6.34 gal/sk"

Accepted for record

NMOC D

TES 12/5/2012

original COA still stands

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Brian Braun

Title **Drilling Engineer**

Signature

Date

11/14/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

Office

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this

form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or

present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

This information is being collected to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer, (WO-630), Mail Stop 401 LS, 1849 C St., N.W., Washington D.C. 20240

DISTRICT I
1026 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised July 16, 2010
Submit one copy to appropriate
District Office

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-39835	Pool Code 47545	Pool Name Poker Lake, Nash Draw (Del. BS. AV)
Property Code 306402	Property Name POKER LAKE UNIT	Well Number 332H
OGRID No. 260737	Operator Name BOPCO, L.P.	Elevation 3427'

Surface Location

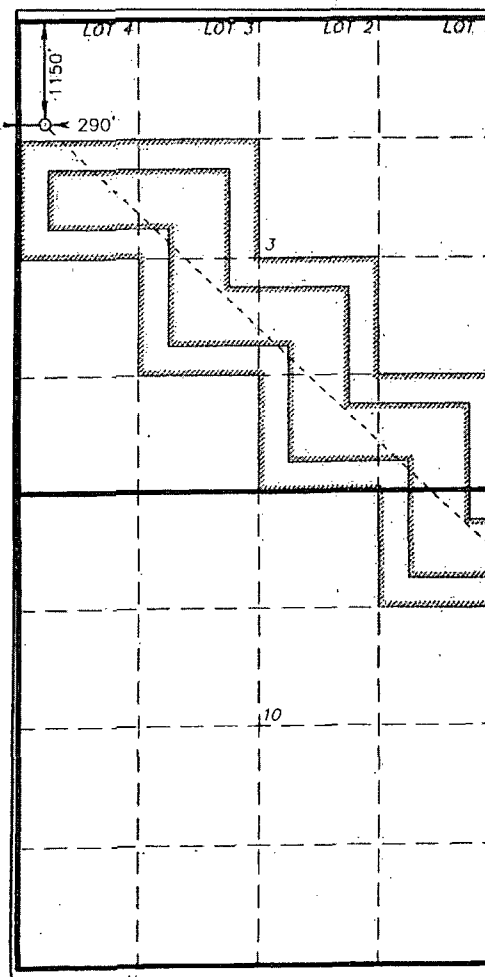
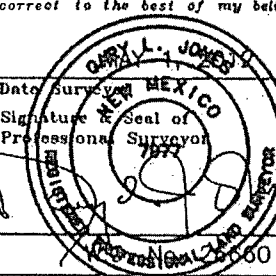
UL or lot No. LOT 4	Section 3	Township 24 S	Range 30 E	Lot Idn	Feet from the 1150	North/South line NORTH	Feet from the 290	East/West line WEST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot No. E	Section 11	Township 24 S	Range 30 E	Lot Idn	Feet from the 1600	North/South line NORTH	Feet from the 900	East/West line WEST	County EDDY
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Dedicated Acres 360	Joint or Infill	Consolidation Code	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

	SURFACE LOCATION DELAWARE PT Lat - N 32°15'02.81" Long - W 103°52'34.12" NMSPCE- N 455252.804 E 641339.623 (NAD-27) PROPOSED BOTTOM HOLE LOCATION Lat - N 32°14'06.29" Long - W 103°51'24.64" NMSPCE- N 449567.476 E 647332.025 (NAD-27)	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 unleased 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>Jeremy Braden</i> 5-17-12 Signature Date Jeremy Braden Printed Name jdbraden@basspet.com Email Address 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.  Date Surveyed Signature & Seal of Professional Surveyor Certificate No. Gary L. Jones 7977 BASIN SURVEYS 26660
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BOPCO, L.P.

Location: Eddy County, NM
Field: Poker Lake Unit
Facility: Poker Lake Unit No. 332H

Slot: No.332H SHL
Well: No.332H
Wellbore: No.332H PWB



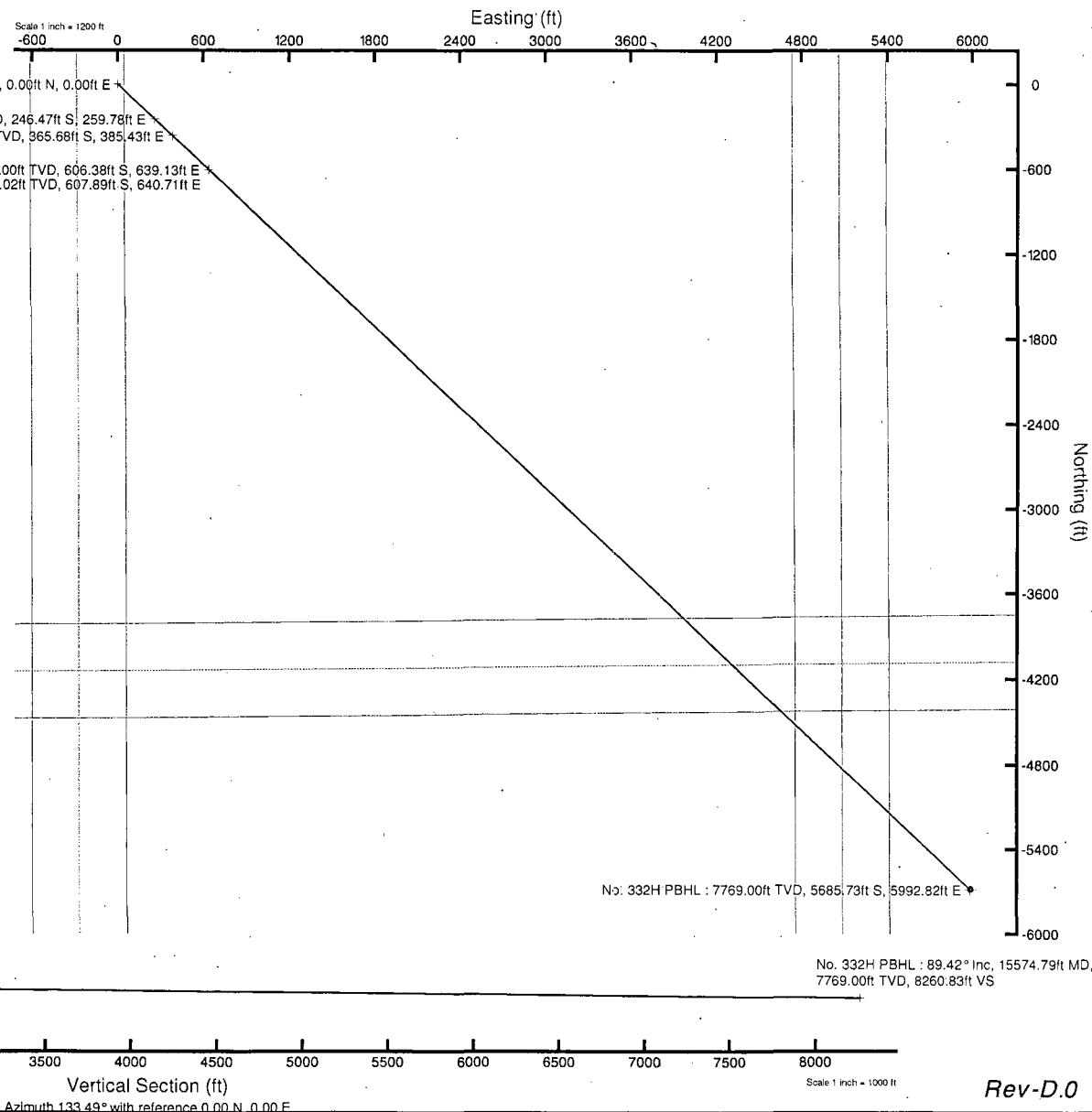
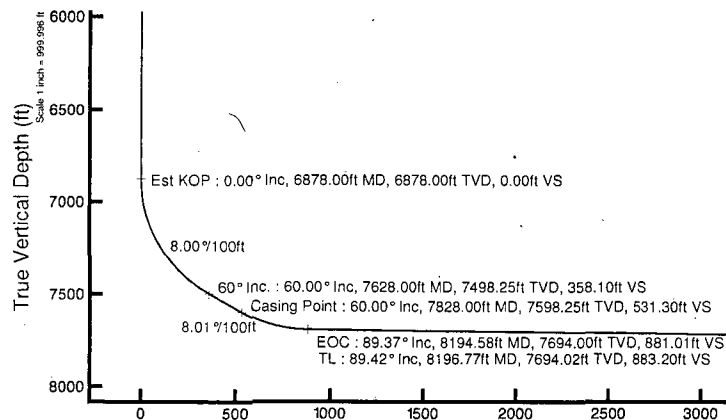
Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	OLS (°/100ft)	VS (ft)
Tie On	22.00	0.00	133.494	22.00	0.00	0.00	0.00	0.00
Est KOP	6878.00	0.00	133.494	6878.00	0.00	0.00	0.00	0.00
60° Inc	7628.00	60.00	133.494	7498.25	-246.47	259.78	8.00	358.10
Casing Point	7828.00	60.00	133.494	7598.25	-365.68	385.43	0.00	531.30
EOC	8194.58	89.37	133.494	7694.00	-606.38	639.13	8.01	881.01
TL	8196.77	89.41	133.494	7694.02	-607.89	640.71	2.00	883.20
No. 332H PBHL	15574.79	89.41	133.494	7769.00	-5985.73	5992.82	0.00	8260.83

Plot reference wellpath is Rev-D.0

True vertical depths are referenced to Rig on No.332H SHL (KOP)	Grid System: NAD83 / TM New Mexico SP, Eastern Zone (2001), US feet
Measured depths are referenced to Rig on No.332H SHL (KOP)	North Reference: Grid north
Rig on No.332H SHL (KOP) to Mean Sea Level: 3449 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: No.332H SHL): 3427 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: jerry on 11/13/2012



BGGM (1945.0 to 2014.0) Dip: 60.08° Field: 48441.4 nT
Magnetic North is 7.86 degrees East of True North (at 11/13/2012)
Grid North is 0.24 degrees East of True North
To correct azimuth from True to Grid subtract 0.24 degrees
To correct azimuth from Magnetic to Grid add 7.41 degrees
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.41 = 97.41



Rev-D.0



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.332H SHL
Area	Eddy County, NM	Well	No.332H
Field	Poker Lake Unit	Wellbore	No.332H PWB
Facility	Poker Lake Unit No. 332H		

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	Gilbjosl
Scale	0.999932	Report Generated	13/Nov/2012 at 10:48:48 AM
Convergence at slot	0.24° East	Database/Source file	WA Midland/No.332H_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	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W
Facility Reference Pt			641339.62	455252.80	32°15'02.807"N	103°52'34.121"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.332H SHL (KB) to Facility Vertical Datum	22.00ft
Horizontal Reference Pt	Slot	Rig on No.332H SHL (KB) to Mean Sea Level	3449.00ft
Vertical Reference Pt	Rig on No.332H SHL (KB)	Rig on No.332H SHL (KB) to Mud Line at Slot (No.332H SHL)	22.00ft
MD Reference Pt	Rig on No.332H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	133.49°



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.332H SHL
Area	Eddy County, NM	Well	No.332H
Field	Poker Lake Unit	Wellbore	No.332H PWB
Facility	Poker Lake Unit No. 332H		

WELLPATH DATA (170 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	133.494	0.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
22.00	0.000	133.494	22.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	Tie On
122.00†	0.000	133.494	122.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
222.00†	0.000	133.494	222.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
322.00†	0.000	133.494	322.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
422.00†	0.000	133.494	422.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
440.00†	0.000	133.494	440.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	Rustler
522.00†	0.000	133.494	522.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
622.00†	0.000	133.494	622.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
639.00†	0.000	133.494	639.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	Salado
722.00†	0.000	133.494	722.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
822.00†	0.000	133.494	822.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
922.00†	0.000	133.494	922.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
1022.00†	0.000	133.494	1022.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
1122.00†	0.000	133.494	1122.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
1222.00†	0.000	133.494	1222.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
1322.00†	0.000	133.494	1322.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
1422.00†	0.000	133.494	1422.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
1522.00†	0.000	133.494	1522.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
1622.00†	0.000	133.494	1622.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
1722.00†	0.000	133.494	1722.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
1822.00†	0.000	133.494	1822.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
1922.00†	0.000	133.494	1922.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
2022.00†	0.000	133.494	2022.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
2122.00†	0.000	133.494	2122.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
2222.00†	0.000	133.494	2222.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
2322.00†	0.000	133.494	2322.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
2422.00†	0.000	133.494	2422.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
2522.00†	0.000	133.494	2522.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
2622.00†	0.000	133.494	2622.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	



Planned Wellpath Report

Rev-D.0

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.332H SHL
Area	Eddy County, NM	Well	No.332H
Field	Poker Lake Unit	Wellbore	No.332H PWB
Facility	Poker Lake Unit No. 332H		

WELLPATH DATA (170 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
2722.00†	0.000	133.494	2722.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
2822.00†	0.000	133.494	2822.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
2922.00†	0.000	133.494	2922.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
3022.00†	0.000	133.494	3022.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
3122.00†	0.000	133.494	3122.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
3222.00†	0.000	133.494	3222.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
3322.00†	0.000	133.494	3322.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
3422.00†	0.000	133.494	3422.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
3522.00†	0.000	133.494	3522.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
3622.00†	0.000	133.494	3622.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
3722.00†	0.000	133.494	3722.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
3822.00†	0.000	133.494	3822.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
3922.00†	0.000	133.494	3922.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
3929.00†	0.000	133.494	3929.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	Lamar
3949.00†	0.000	133.494	3949.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	Delaware Sands
4022.00†	0.000	133.494	4022.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
4122.00†	0.000	133.494	4122.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
4222.00†	0.000	133.494	4222.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
4322.00†	0.000	133.494	4322.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
4422.00†	0.000	133.494	4422.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
4522.00†	0.000	133.494	4522.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
4622.00†	0.000	133.494	4622.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
4722.00†	0.000	133.494	4722.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
4822.00†	0.000	133.494	4822.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
4922.00†	0.000	133.494	4922.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
5022.00†	0.000	133.494	5022.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
5122.00†	0.000	133.494	5122.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
5222.00†	0.000	133.494	5222.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
5322.00†	0.000	133.494	5322.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
5422.00†	0.000	133.494	5422.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.332H SHL
Area	Eddy County, NM	Well	No.332H
Field	Poker Lake Unit	Wellbore	No.332H PWB
Facility	Poker Lake Unit No. 332H		

WELLPATH DATA (170 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
5522.00†	0.000	133.494	5522.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
5622.00†	0.000	133.494	5622.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
5722.00†	0.000	133.494	5722.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
5822.00†	0.000	133.494	5822.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
5922.00†	0.000	133.494	5922.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
6022.00†	0.000	133.494	6022.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
6122.00†	0.000	133.494	6122.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
6222.00†	0.000	133.494	6222.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
6322.00†	0.000	133.494	6322.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
6422.00†	0.000	133.494	6422.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
6522.00†	0.000	133.494	6522.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
6622.00†	0.000	133.494	6622.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
6722.00†	0.000	133.494	6722.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
6791.00†	0.000	133.494	6791.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	MBC Shell Marker
6822.00†	0.000	133.494	6822.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	
6878.00	0.000	133.494	6878.00	0.00	0.00	0.00	641339.62	455252.80	32°15'02.807"N	103°52'34.121"W	0.00	Est KOP
6922.00†	3.520	133.494	6921.97	1.35	-0.93	0.98	641340.60	455251.87	32°15'02.798"N	103°52'34.109"W	8.00	
7022.00†	11.520	133.494	7021.03	14.43	-9.93	10.47	641350.09	455242.87	32°15'02.708"N	103°52'33.999"W	8.00	
7122.00†	19.520	133.494	7117.31	41.16	-28.33	29.86	641369.48	455224.47	32°15'02.525"N	103°52'33.774"W	8.00	
7222.00†	27.520	133.494	7208.92	81.04	-55.78	58.79	641398.41	455197.03	32°15'02.253"N	103°52'33.439"W	8.00	
7322.00†	35.520	133.494	7294.10	133.28	-91.73	96.68	641436.30	455161.08	32°15'01.895"N	103°52'33.000"W	8.00	
7422.00†	43.520	133.494	7371.18	196.86	-135.49	142.81	641482.42	455117.32	32°15'01.460"N	103°52'32.465"W	8.00	
7522.00†	51.520	133.494	7438.66	270.55	-186.21	196.27	641535.88	455066.60	32°15'00.956"N	103°52'31.845"W	8.00	
7619.60†	59.328	133.494	7494.00	350.84	-241.48	254.52	641594.12	455011.34	32°15'00.407"N	103°52'31.169"W	8.00	Lower Brushy Canyon 8A
7622.00†	59.520	133.494	7495.22	352.92	-242.90	256.02	641595.63	455009.92	32°15'00.393"N	103°52'31.152"W	8.00	
7628.00	60.000	133.494	7498.25	358.10	-246.47	259.78	641599.39	455006.35	32°15'00.357"N	103°52'31.108"W	8.00	60° Inc.
7722.00†	60.000	133.494	7545.25	439.51	-302.50	318.84	641658.44	454950.32	32°14'59.800"N	103°52'30.423"W	0.00	
7822.00†	60.000	133.494	7595.25	526.11	-362.11	381.66	641721.26	454890.72	32°14'59.208"N	103°52'29.695"W	0.00	
7828.00	60.000	133.494	7598.25	531.30	-365.68	385.43	641725.03	454887.14	32°14'59.172"N	103°52'29.651"W	0.00	Casing Point
7922.00†	67.532	133.494	7639.77	615.56	-423.68	446.56	641786.15	454829.16	32°14'58.596"N	103°52'28.942"W	8.01	



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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.332H SHL
Area	Eddy County, NM	Well	No.332H
Field	Poker Lake Unit	Wellbore	No.332H PWB
Facility	Poker Lake Unit No. 332H		

WELLPATH DATA (170 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
7961.96†	70.734	133.494	7654.00	652.90	-449.38	473.64	641813.23	454803.46	32°14'58.340"N	103°52'28.628"W	8.01	LBC "Y" Sand
8022.00†	75.545	133.494	7671.41	710.34	-488.91	515.31	641854.90	454763.93	32°14'57.947"N	103°52'28.145"W	8.01	
8122.00†	83.558	133.494	7689.53	808.60	-556.54	586.60	641926.18	454696.30	32°14'57.275"N	103°52'27.318"W	8.01	
8194.58	89.374	133.494	7694.00	881.01	-606.38	639.13	641978.71	454646.46	32°14'56.780"N	103°52'26.709"W	8.01	EOC
8196.77	89.418	133.494	7694.02	883.20	-607.89	640.71	641980.29	454644.96	32°14'56.765"N	103°52'26.691"W	2.00	TL
8222.00†	89.418	133.494	7694.28	908.43	-625.25	659.02	641998.59	454627.60	32°14'56.592"N	103°52'26.478"W	0.00	
8322.00†	89.418	133.494	7695.30	1008.42	-694.08	731.56	642071.13	454558.78	32°14'55.908"N	103°52'25.637"W	0.00	
8422.00†	89.418	133.494	7696.31	1108.42	-762.90	804.10	642143.67	454489.96	32°14'55.224"N	103°52'24.796"W	0.00	
8522.00†	89.418	133.494	7697.33	1208.41	-831.72	876.64	642216.20	454421.14	32°14'54.540"N	103°52'23.955"W	0.00	
8622.00†	89.418	133.494	7698.34	1308.41	-900.55	949.18	642288.74	454352.32	32°14'53.856"N	103°52'23.114"W	0.00	
8722.00†	89.418	133.494	7699.36	1408.40	-969.37	1021.72	642361.27	454283.50	32°14'53.172"N	103°52'22.272"W	0.00	
8822.00†	89.418	133.494	7700.38	1508.40	-1038.20	1094.26	642433.81	454214.68	32°14'52.487"N	103°52'21.431"W	0.00	
8922.00†	89.418	133.494	7701.39	1608.39	-1107.02	1166.81	642506.35	454145.86	32°14'51.803"N	103°52'20.590"W	0.00	
9022.00†	89.418	133.494	7702.41	1708.39	-1175.84	1239.35	642578.88	454077.04	32°14'51.119"N	103°52'19.749"W	0.00	
9122.00†	89.418	133.494	7703.43	1808.38	-1244.67	1311.89	642651.42	454008.22	32°14'50.435"N	103°52'18.908"W	0.00	
9222.00†	89.418	133.494	7704.44	1908.38	-1313.49	1384.43	642723.96	453939.41	32°14'49.751"N	103°52'18.067"W	0.00	
9322.00†	89.418	133.494	7705.46	2008.37	-1382.31	1456.97	642796.49	453870.59	32°14'49.067"N	103°52'17.225"W	0.00	
9422.00†	89.418	133.494	7706.47	2108.37	-1451.14	1529.51	642869.03	453801.77	32°14'48.383"N	103°52'16.384"W	0.00	
9522.00†	89.418	133.494	7707.49	2208.36	-1519.96	1602.05	642941.56	453732.95	32°14'47.699"N	103°52'15.543"W	0.00	
9622.00†	89.418	133.494	7708.51	2308.36	-1588.79	1674.59	643014.10	453664.13	32°14'47.014"N	103°52'14.702"W	0.00	
9722.00†	89.418	133.494	7709.52	2408.35	-1657.61	1747.14	643086.64	453595.31	32°14'46.330"N	103°52'13.861"W	0.00	
9822.00†	89.418	133.494	7710.54	2508.35	-1726.43	1819.68	643159.17	453526.49	32°14'45.646"N	103°52'13.020"W	0.00	
9922.00†	89.418	133.494	7711.56	2608.34	-1795.26	1892.22	643231.71	453457.67	32°14'44.962"N	103°52'12.178"W	0.00	
10022.00†	89.418	133.494	7712.57	2708.34	-1864.08	1964.76	643304.24	453388.85	32°14'44.278"N	103°52'11.337"W	0.00	
10122.00†	89.418	133.494	7713.59	2808.33	-1932.91	2037.30	643376.78	453320.03	32°14'43.594"N	103°52'10.496"W	0.00	
10222.00†	89.418	133.494	7714.60	2908.33	-2001.73	2109.84	643449.32	453251.21	32°14'42.910"N	103°52'09.655"W	0.00	
10322.00†	89.418	133.494	7715.62	3008.32	-2070.55	2182.38	643521.85	453182.40	32°14'42.226"N	103°52'08.814"W	0.00	
10422.00†	89.418	133.494	7716.64	3108.31	-2139.38	2254.92	643594.39	453113.58	32°14'41.541"N	103°52'07.973"W	0.00	
10522.00†	89.418	133.494	7717.65	3208.31	-2208.20	2327.47	643666.93	453044.76	32°14'40.857"N	103°52'07.132"W	0.00	
10622.00†	89.418	133.494	7718.67	3308.30	-2277.03	2400.01	643739.46	452975.94	32°14'40.173"N	103°52'06.291"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.332H SHL
Area	Eddy County, NM	Well	No.332H
Field	Poker Lake Unit	Wellbore	No.332H PWB
Facility	Poker Lake Unit No. 332H		

WELLPATH DATA (170 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
10722.00†	89.418	133.494	7719.68	3408.30	-2345.85	2472.55	643812.00	452907.12	32°14'39.489"N	103°52'05.449"W	0.00	
10822.00†	89.418	133.494	7720.70	3508.29	-2414.67	2545.09	643884.53	452838.30	32°14'38.805"N	103°52'04.608"W	0.00	
10922.00†	89.418	133.494	7721.72	3608.29	-2483.50	2617.63	643957.07	452769.48	32°14'38.121"N	103°52'03.767"W	0.00	
11022.00†	89.418	133.494	7722.73	3708.28	-2552.32	2690.17	644029.61	452700.66	32°14'37.437"N	103°52'02.926"W	0.00	
11122.00†	89.418	133.494	7723.75	3808.28	-2621.14	2762.71	644102.14	452631.84	32°14'36.752"N	103°52'02.085"W	0.00	
11222.00†	89.418	133.494	7724.77	3908.27	-2689.97	2835.25	644174.68	452563.02	32°14'36.068"N	103°52'01.244"W	0.00	
11322.00†	89.418	133.494	7725.78	4008.27	-2758.79	2907.80	644247.22	452494.20	32°14'35.384"N	103°52'00.403"W	0.00	
11422.00†	89.418	133.494	7726.80	4108.26	-2827.62	2980.34	644319.75	452425.39	32°14'34.700"N	103°51'59.562"W	0.00	
11522.00†	89.418	133.494	7727.81	4208.26	-2896.44	3052.88	644392.29	452356.57	32°14'34.016"N	103°51'58.721"W	0.00	
11622.00†	89.418	133.494	7728.83	4308.25	-2965.26	3125.42	644464.82	452287.75	32°14'33.332"N	103°51'57.879"W	0.00	
11722.00†	89.418	133.494	7729.85	4408.25	-3034.09	3197.96	644537.36	452218.93	32°14'32.647"N	103°51'57.038"W	0.00	
11822.00†	89.418	133.494	7730.86	4508.24	-3102.91	3270.50	644609.90	452150.11	32°14'31.963"N	103°51'56.197"W	0.00	
11922.00†	89.418	133.494	7731.88	4608.24	-3171.74	3343.04	644682.43	452081.29	32°14'31.279"N	103°51'55.356"W	0.00	
12022.00†	89.418	133.494	7732.90	4708.23	-3240.56	3415.58	644754.97	452012.47	32°14'30.595"N	103°51'54.515"W	0.00	
12122.00†	89.418	133.494	7733.91	4808.23	-3309.38	3488.13	644827.50	451943.65	32°14'29.911"N	103°51'53.674"W	0.00	
12222.00†	89.418	133.494	7734.93	4908.22	-3378.21	3560.67	644900.04	451874.83	32°14'29.227"N	103°51'52.833"W	0.00	
12322.00†	89.418	133.494	7735.94	5008.22	-3447.03	3633.21	644972.58	451806.01	32°14'28.542"N	103°51'51.992"W	0.00	
12422.00†	89.418	133.494	7736.96	5108.21	-3515.86	3705.75	645045.11	451737.19	32°14'27.858"N	103°51'51.151"W	0.00	
12522.00†	89.418	133.494	7737.98	5208.21	-3584.68	3778.29	645117.65	451668.38	32°14'27.174"N	103°51'50.310"W	0.00	
12622.00†	89.418	133.494	7738.99	5308.20	-3653.50	3850.83	645190.19	451599.56	32°14'26.490"N	103°51'49.469"W	0.00	
12722.00†	89.418	133.494	7740.01	5408.20	-3722.33	3923.37	645262.72	451530.74	32°14'25.806"N	103°51'48.628"W	0.00	
12822.00†	89.418	133.494	7741.03	5508.19	-3791.15	3995.92	645335.26	451461.92	32°14'25.122"N	103°51'47.787"W	0.00	
12922.00†	89.418	133.494	7742.04	5608.19	-3859.98	4068.46	645407.79	451393.10	32°14'24.437"N	103°51'46.946"W	0.00	
13022.00†	89.418	133.494	7743.06	5708.18	-3928.80	4141.00	645480.33	451324.28	32°14'23.753"N	103°51'46.105"W	0.00	
13122.00†	89.418	133.494	7744.07	5808.18	-3997.62	4213.54	645552.87	451255.46	32°14'23.069"N	103°51'45.264"W	0.00	
13222.00†	89.418	133.494	7745.09	5908.17	-4066.45	4286.08	645625.40	451186.64	32°14'22.385"N	103°51'44.423"W	0.00	
13322.00†	89.418	133.494	7746.11	6008.16	-4135.27	4358.62	645697.94	451117.82	32°14'21.701"N	103°51'43.581"W	0.00	
13422.00†	89.418	133.494	7747.12	6108.16	-4204.09	4431.16	645770.48	451049.00	32°14'21.016"N	103°51'42.740"W	0.00	
13522.00†	89.418	133.494	7748.14	6208.15	-4272.92	4503.70	645843.01	450980.18	32°14'20.332"N	103°51'41.899"W	0.00	
13622.00†	89.418	133.494	7749.16	6308.15	-4341.74	4576.25	645915.55	450911.37	32°14'19.648"N	103°51'41.058"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.332H SHL
Area	Eddy County, NM	Well	No.332H
Field	Poker Lake Unit	Wellbore	No.332H PWB
Facility	Poker Lake Unit No. 332H		

WELLPATH DATA (170 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
13722.00†	89.418	133.494	7750.17	6408.14	-4410.57	4648.79	645988.08	450842.55	32°14'18.964"N	103°51'40.217"W	0.00	
13822.00†	89.418	133.494	7751.19	6508.14	-4479.39	4721.33	646060.62	450773.73	32°14'18.280"N	103°51'39.376"W	0.00	
13922.00†	89.418	133.494	7752.20	6608.13	-4548.21	4793.87	646133.16	450704.91	32°14'17.596"N	103°51'38.535"W	0.00	
14022.00†	89.418	133.494	7753.22	6708.13	-4617.04	4866.41	646205.69	450636.09	32°14'16.911"N	103°51'37.694"W	0.00	
14122.00†	89.418	133.494	7754.24	6808.12	-4685.86	4938.95	646278.23	450567.27	32°14'16.227"N	103°51'36.853"W	0.00	
14222.00†	89.418	133.494	7755.25	6908.12	-4754.69	5011.49	646350.77	450498.45	32°14'15.543"N	103°51'36.012"W	0.00	
14322.00†	89.418	133.494	7756.27	7008.11	-4823.51	5084.03	646423.30	450429.63	32°14'14.859"N	103°51'35.171"W	0.00	
14422.00†	89.418	133.494	7757.29	7108.11	-4892.33	5156.58	646495.84	450360.81	32°14'14.175"N	103°51'34.330"W	0.00	
14522.00†	89.418	133.494	7758.30	7208.10	-4961.16	5229.12	646568.37	450291.99	32°14'13.490"N	103°51'33.489"W	0.00	
14622.00†	89.418	133.494	7759.32	7308.10	-5029.98	5301.66	646640.91	450223.17	32°14'12.806"N	103°51'32.648"W	0.00	
14722.00†	89.418	133.494	7760.33	7408.09	-5098.81	5374.20	646713.45	450154.36	32°14'12.122"N	103°51'31.807"W	0.00	
14822.00†	89.418	133.494	7761.35	7508.09	-5167.63	5446.74	646785.98	450085.54	32°14'11.438"N	103°51'30.966"W	0.00	
14922.00†	89.418	133.494	7762.37	7608.08	-5236.45	5519.28	646858.52	450016.72	32°14'10.754"N	103°51'30.126"W	0.00	
15022.00†	89.418	133.494	7763.38	7708.08	-5305.28	5591.82	646931.05	449947.90	32°14'10.069"N	103°51'29.285"W	0.00	
15122.00†	89.418	133.494	7764.40	7808.07	-5374.10	5664.36	647003.59	449879.08	32°14'09.385"N	103°51'28.444"W	0.00	
15222.00†	89.418	133.494	7765.41	7908.07	-5442.92	5736.91	647076.13	449810.26	32°14'08.701"N	103°51'27.603"W	0.00	
15322.00†	89.418	133.494	7766.43	8008.06	-5511.75	5809.45	647148.66	449741.44	32°14'08.017"N	103°51'26.762"W	0.00	
15422.00†	89.418	133.494	7767.45	8108.06	-5580.57	5881.99	647221.20	449672.62	32°14'07.332"N	103°51'25.921"W	0.00	
15522.00†	89.418	133.494	7768.46	8208.05	-5649.40	5954.53	647293.74	449603.80	32°14'06.648"N	103°51'25.080"W	0.00	
15574.79	89.418	133.494	7769.00 ¹	8260.83	-5685.73	5992.82	647332.02	449567.48	32°14'06.287"N	103°51'24.636"W	0.00	No. 332H PBHL



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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.332H SHL
Area	Eddy County, NM	Well	No.332H
Field	Poker Lake Unit	Wellbore	No.332H PWB
Facility	Poker Lake Unit No. 332H		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
No.332H Target #1		7694.00	-1111.88	1321.37	642660.90	454141.00	32°14'51.749"N	103°52'18.791"W	point
1) No.332H PBHL	15574.79	7769.00	5685.73	5992.82	647332.03	449567.48	32°14'06.287"N	103°51'24.636"W	point

SURVEY PROGRAM - Ref Wellbore: No.332H PWB Ref Wellpath: Rev-D.0				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
22.00	15574.79	NaviTrak (Standard)		No.332H PWB