

UNITED STATES **OCD-ARTESIA**
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007**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 ☐ Other2 Name of Operator
BOPCO, L. P.3a Address
P. O. Box 2760, Midland, TX 797023b. Phone No. (include area code)
432-683-2277

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

Surface: NWNW Lot D 925' FNL 1110' FWL, Sec 23, T24S-R30E, Lat:N32.207986, Lng:W103.856206
Bottom Hole: NWNW Lot D 470' FNL 865' FWL 32.194731 N Lat, 103.840031 W Long

5 Lease Serial No
BH- NMLC061705B, SH- NM030452

6 If Indian, Allottee or Tribe Name

7 If Unit or CA/Agreement, Name and/or No
NMNM71016X8 Well Name and No
Poker Lake Unit 341H9 API Well No
30-015-3948610 Field and Pool, or Exploratory Area
Poker Lake NW (Delaware)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 recomple 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 recomple 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 approval to alter the BHL from the approved footages of 470' FNL & 865' FWL of Sec 23, T24S, R30E to a new BHL of 1300' FNL & 1750' FWL of Sec 25, T24S, R30E. The drainage acreage (proration units) will be increased from 520 acres to 640 acres. The 4-1/2" completion system will be extended to cover the increased lateral length. The new directional plan is attached.

Accepted for record

NMOCD

Teg/2/2012

Original COA still

SUBJECT TO LIKE
APPROVAL BY STATE
C-102

RECEIVED

SEP 21 2012

NMOCD ARTESIA

APPROVED

SEP 19 2012

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE14 I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Jeremy Braden

Title Engineering Assistant

Signature

Jeremy Braden

Date

6-18-2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Ed Fernandez

PETROLEUM ENGINEER

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)

DISTRICT I
1625 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 30-015-39486	Pool Code 96046	Pool Name Poker Lake NW (Delaware)
Property Code 306402	Property Name POKER LAKE UNIT	Well Number 341H
OGRID No. 260737	Operator Name BOPCO, L.P.	Elevation 3441'

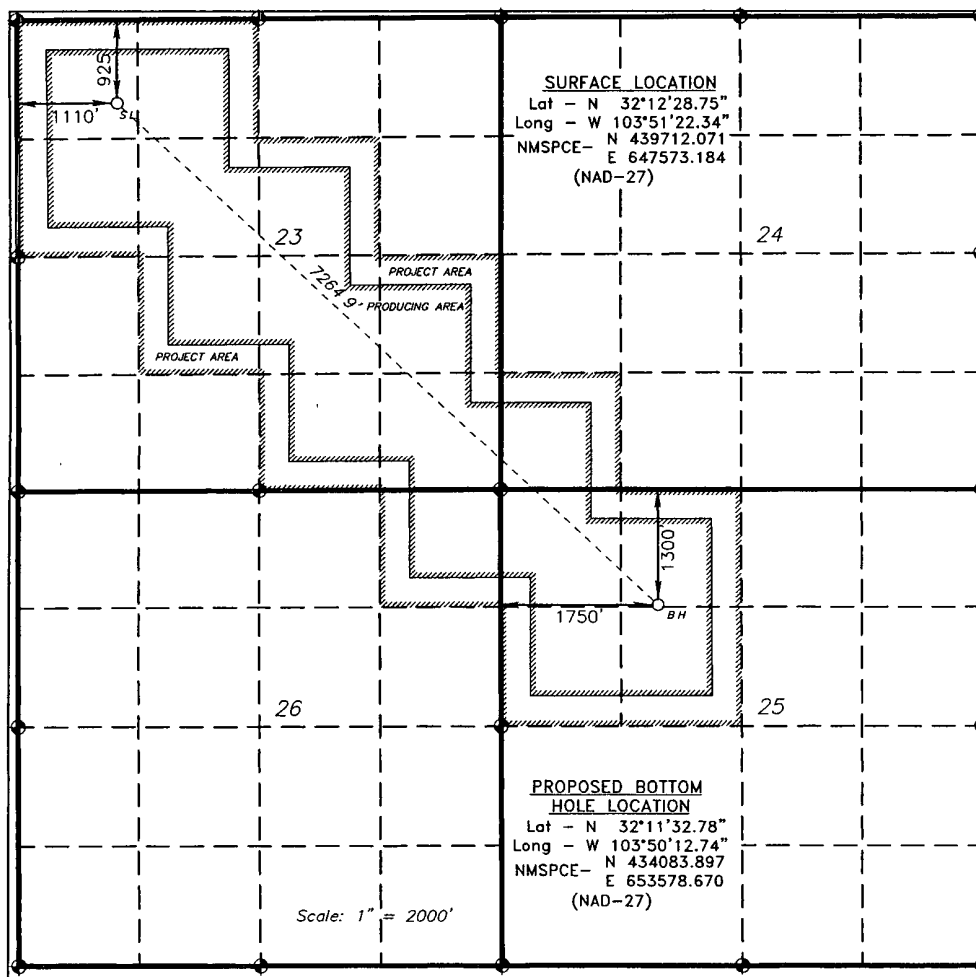
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	23	24 S	30 E		925	NORTH	1110	WEST	EDDY

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
D	25	24 S	30 E		1300	NORTH	1750	WEST	EDDY
Dedicated Acres 640	Joint or Infill	Consolidation Code	Order No.						

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



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.

Jeremy Braden 6-18-12
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

24261



BOPCO, L.P.

Location: Eddy County, NM
Field: Poker Lake Unit
Facility: Poker Lake Unit No. 341H

Slot: No.341H SHL
Well: No.341H
Wellbore: No.341H PWB



Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	19 00	0 00	133 142	19 00	0 00	0 00	0 00	0 00
Est KOP	7254 50	0 00	133 142	7254 50	0 00	0 00	0 00	0 00
Curve 60°	7754 50	60 00	133 142	7668 00	-163 25	174 19	12 00	238 73
150' Tangent/ 7" Casing	7904 50	60 00	133 142	7743 00	-252 08	268 98	0 00	368 64
EOC	8154 64	90 00	133 142	7807 00	-415 41	443 27	11 99	607 50
Target #1	8295 64	90 00	133 142	7807 00	-511 83	546 15	0 00	748 50
TL	8348 11	88 95	133 142	7807 48	-547 71	584 44	2 00	800 97
No 341H PBHL	15779 51	88 95	133 142	7943 60	-5628 56	6005 89	0 00	8231 12

Location Information

Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Poker Lake Unit No. 341H	647573 184	439712 071	32°12'28 747"N	103°51'22 338"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
No 341H SHL	0 00	0 00	647573 184	439712 071
Rig on No 341H SHL (KB) to Mud line (At Slot No 341H SHL)				
				19ft
Mean Sea Level to Mud line (At Slot No 341H SHL)				-344ft
Rig on No 341H SHL (KB) to Mean Sea Level				3460ft

Bottom Hole Location

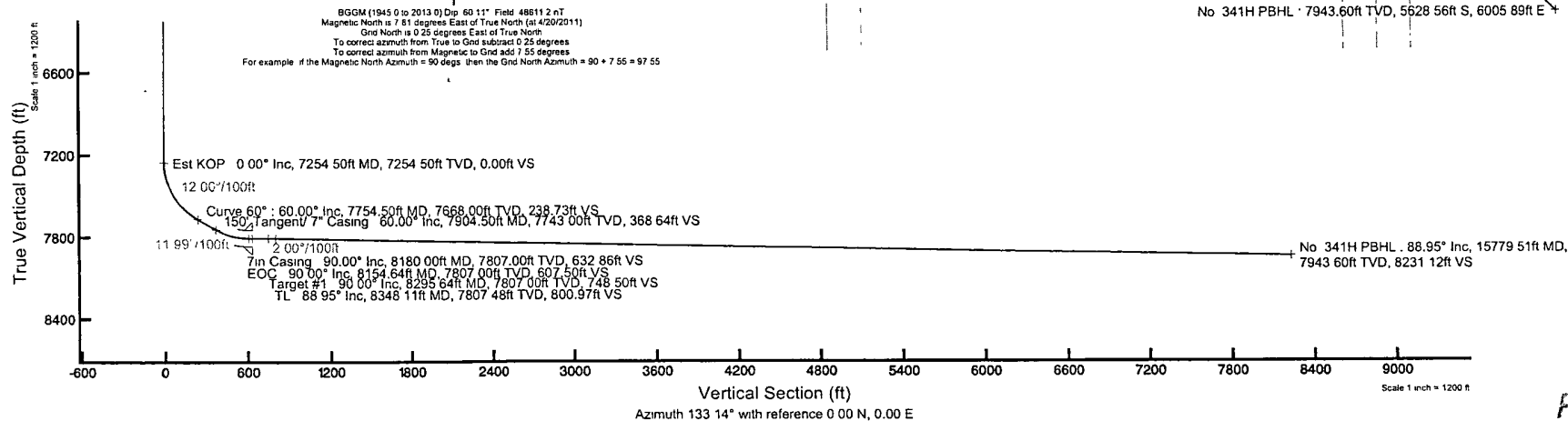
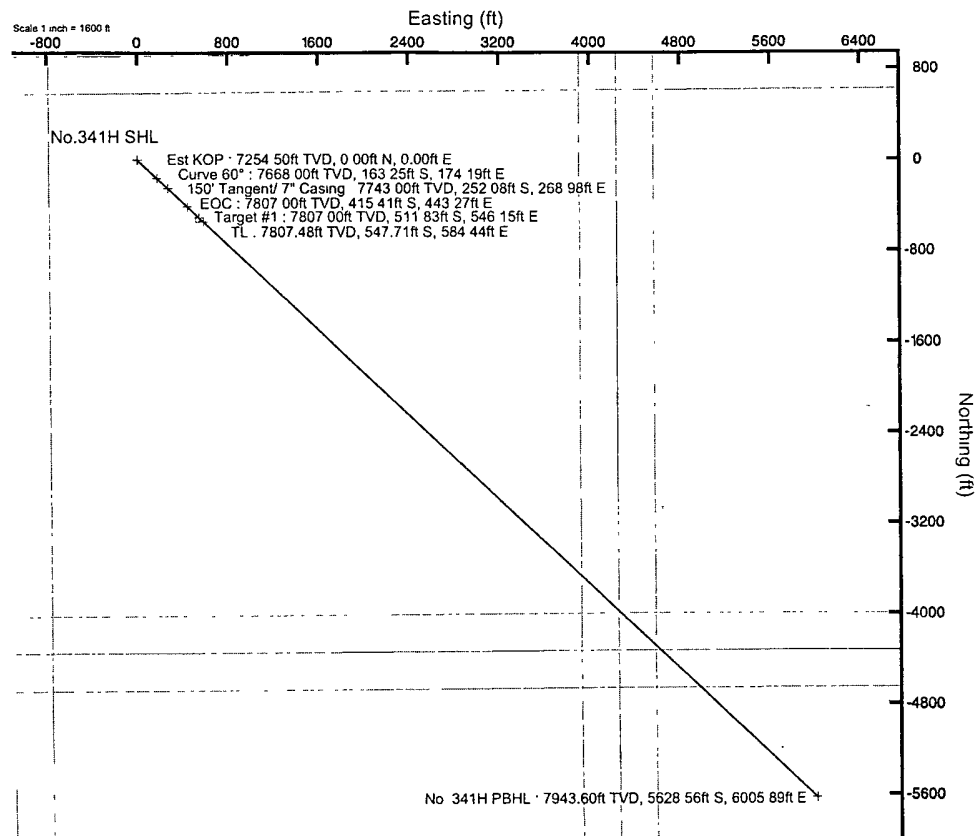
MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
15779 51	88 95	133 142	7943 60	-5628 56	6005 89	653578 67	434083 90	32°11'32 781"N	103°50'12 742"W

Targets

Name	MD (ft)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
No 341 Target #1		7807 00	-526 38	542 00	648115 15	439185 73	32°12'23 514"N	103°51'16 057"W
No 341 PBHL	15779 51	7943 60	5628 56	6005 89	653578 67	434083 90	32°11'32 781"N	103°50'12 742"W

Hole and Casing Sections

Name	Start MD (ft)	End MD (ft)	Interval (ft)	Start TVD (ft)	End TVD (ft)	Start Local N (ft)	End Local N (ft)	Start Local E (ft)	End Local E (ft)	Wellbore
7in Casing	19 00	8180 00	8161 00	19 00	7807 00	0 00	0 00	-432 76	461 78	No 341H PWB
8 7/8in Open Hole	19 00	8180 00	8161 00	19 00	7807 00	0 00	0 00	-432 76	461 78	No 341H PWB



Rev-C.0



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.341H SHL
Area	Eddy County, NM	Well	No.341H
Field	Poker Lake Unit	Wellbore	No.341H PWB
Facility	Poker Lake Unit No. 341H		

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	Daviarcn
Scale	0.999934	Report Generated	6/12/2012 at 4:43:58 PM
Convergence at slot	0.25° East	Database/Source file	WA_Midland/No.341H_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	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W
Facility Reference Pt			647573.18	439712.07	32°12'28.747"N	103°51'22.338"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.341H SHL (KB) to Facility Vertical Datum	19.00ft
Horizontal Reference Pt	Slot	Rig on No.341H SHL (KB) to Mean Sea Level	3460.00ft
Vertical Reference Pt	Rig on No.341H SHL (KB)	Rig on No.341H SHL (KB) to Mud Line at Slot (No.341H SHL)	19.00ft
MD Reference Pt	Rig on No.341H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	133.14°



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.341H SHL
Area	Eddy County, NM	Well	No.341H
Field	Poker Lake Unit	Wellbore	No.341H PWB
Facility	Poker Lake Unit No. 341H		

WELLPATH DATA (166 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	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
0.00†	0.000	133.142	0.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
19.00	0.000	133.142	19.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
119.00†	0.000	133.142	119.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
219.00†	0.000	133.142	219.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
319.00†	0.000	133.142	319.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
419.00†	0.000	133.142	419.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
519.00†	0.000	133.142	519.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
619.00†	0.000	133.142	619.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
719.00†	0.000	133.142	719.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
819.00†	0.000	133.142	819.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
919.00†	0.000	133.142	919.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
1019.00†	0.000	133.142	1019.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
1119.00†	0.000	133.142	1119.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
1219.00†	0.000	133.142	1219.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
1319.00†	0.000	133.142	1319.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
1419.00†	0.000	133.142	1419.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
1519.00†	0.000	133.142	1519.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
1619.00†	0.000	133.142	1619.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
1719.00†	0.000	133.142	1719.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
1819.00†	0.000	133.142	1819.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
1919.00†	0.000	133.142	1919.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
2019.00†	0.000	133.142	2019.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
2119.00†	0.000	133.142	2119.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
2219.00†	0.000	133.142	2219.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
2319.00†	0.000	133.142	2319.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
2419.00†	0.000	133.142	2419.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
2519.00†	0.000	133.142	2519.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
2619.00†	0.000	133.142	2619.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
2719.00†	0.000	133.142	2719.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
2819.00†	0.000	133.142	2819.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
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Area	Eddy County, NM	Well	No.341H
Field	Poker Lake Unit	Wellbore	No.341H PWB
Facility	Poker Lake Unit No. 341H		

WELLPATH DATA (166 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	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
2919.00†	0.000	133.142	2919.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
3019.00†	0.000	133.142	3019.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
3119.00†	0.000	133.142	3119.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
3219.00†	0.000	133.142	3219.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
3319.00†	0.000	133.142	3319.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
3419.00†	0.000	133.142	3419.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
3519.00†	0.000	133.142	3519.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
3619.00†	0.000	133.142	3619.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
3719.00†	0.000	133.142	3719.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
3819.00†	0.000	133.142	3819.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
3919.00†	0.000	133.142	3919.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
4019.00†	0.000	133.142	4019.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
4119.00†	0.000	133.142	4119.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
4219.00†	0.000	133.142	4219.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
4319.00†	0.000	133.142	4319.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
4419.00†	0.000	133.142	4419.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
4519.00†	0.000	133.142	4519.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
4619.00†	0.000	133.142	4619.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
4719.00†	0.000	133.142	4719.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
4819.00†	0.000	133.142	4819.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
4919.00†	0.000	133.142	4919.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
5019.00†	0.000	133.142	5019.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
5119.00†	0.000	133.142	5119.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
5219.00†	0.000	133.142	5219.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
5319.00†	0.000	133.142	5319.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
5419.00†	0.000	133.142	5419.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
5519.00†	0.000	133.142	5519.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
5619.00†	0.000	133.142	5619.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
5719.00†	0.000	133.142	5719.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
5819.00†	0.000	133.142	5819.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00



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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.341H SHL
Area	Eddy County, NM	Well	No.341H
Field	Poker Lake Unit	Wellbore	No.341H PWB
Facility	Poker Lake Unit No. 341H		

WELLPATH DATA (166 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	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
5919.00†	0.000	133.142	5919.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
6019.00†	0.000	133.142	6019.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
6119.00†	0.000	133.142	6119.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
6219.00†	0.000	133.142	6219.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
6319.00†	0.000	133.142	6319.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
6419.00†	0.000	133.142	6419.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
6519.00†	0.000	133.142	6519.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
6619.00†	0.000	133.142	6619.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
6719.00†	0.000	133.142	6719.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
6819.00†	0.000	133.142	6819.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
6919.00†	0.000	133.142	6919.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
7019.00†	0.000	133.142	7019.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
7119.00†	0.000	133.142	7119.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
7219.00†	0.000	133.142	7219.00	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
7254.50†	0.000	133.142	7254.50	0.00	0.00	0.00	647573.18	439712.07	32°12'28.747"N	103°51'22.338"W	0.00	0.000	0.00
7319.00†	7.740	133.142	7318.80	4.35	-2.97	3.17	647576.36	439709.10	32°12'28.717"N	103°51'22.301"W	4.35	133.142	12.00
7419.00†	19.740	133.142	7415.76	28.06	-19.19	20.47	647593.66	439692.89	32°12'28.556"N	103°51'22.100"W	28.06	133.142	12.00
7519.00†	31.740	133.142	7505.68	71.41	-48.83	52.10	647625.28	439663.25	32°12'28.261"N	103°51'21.734"W	71.41	133.142	12.00
7619.00†	43.740	133.142	7584.61	132.50	-90.61	96.68	647669.86	439621.47	32°12'27.846"N	103°51'21.217"W	132.50	133.142	12.00
7719.00†	55.740	133.142	7649.12	208.68	-142.69	152.26	647725.44	439569.39	32°12'27.328"N	103°51'20.573"W	208.68	133.142	12.00
7754.50	60.000	133.142	7668.00	238.73	-163.25	174.19	647747.37	439548.83	32°12'27.124"N	103°51'20.319"W	238.73	133.142	12.00
7819.00†	60.000	133.142	7700.25	294.59	-201.44	214.95	647788.12	439510.64	32°12'26.744"N	103°51'19.846"W	294.59	133.142	0.00
7904.50	60.000	133.142	7743.00	368.64	-252.08	268.98	647842.15	439460.01	32°12'26.241"N	103°51'19.220"W	368.64	133.142	0.00
7919.00†	61.739	133.142	7750.06	381.30	-260.74	278.22	647851.39	439451.35	32°12'26.155"N	103°51'19.113"W	381.30	133.142	11.99
8019.00†	73.732	133.142	7787.87	473.68	-323.90	345.62	647918.78	439388.19	32°12'25.527"N	103°51'18.332"W	473.68	133.142	11.99
8119.00†	85.726	133.142	7805.67	571.90	-391.07	417.29	647990.45	439321.03	32°12'24.859"N	103°51'17.501"W	571.90	133.142	11.99
8154.64	90.000	133.142	7807.00	607.50	-415.41	443.27	648016.42	439296.69	32°12'24.617"N	103°51'17.200"W	607.50	133.142	11.99
8219.00†	90.000	133.142	7807.00	671.86	-459.43	490.23	648063.38	439252.68	32°12'24.179"N	103°51'16.656"W	671.86	133.142	0.00
8295.64	90.000	133.142	7807.00	748.50	-511.83	546.15	648119.30	439200.27	32°12'23.658"N	103°51'16.008"W	748.50	133.142	0.00
8319.00†	89.533	133.142	7807.10	771.86	-527.81	563.20	648136.34	439184.30	32°12'23.499"N	103°51'15.810"W	771.86	133.142	2.00



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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.341H SHL
Area	Eddy County, NM	Well	No.341H
Field	Poker Lake Unit	Wellbore	No.341H PWB
Facility	Poker Lake Unit No. 341H		

WELLPATH DATA (166 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	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
8348.11	88.950	133.142	7807.48	800.97	-547.71	584.44	648157.58	439164.40	32°12'23.301"N	103°51'15.564"W	800.97	133.142	2.00
8419.00†	88.950	133.142	7808.78	871.85	-596.18	636.15	648209.29	439115.93	32°12'22.820"N	103°51'14.965"W	871.85	133.142	0.00
8519.00†	88.950	133.142	7810.61	971.83	-664.55	709.11	648282.24	439047.57	32°12'22.140"N	103°51'14.119"W	971.83	133.142	0.00
8619.00†	88.950	133.142	7812.44	1071.81	-732.92	782.06	648355.19	438979.20	32°12'21.460"N	103°51'13.274"W	1071.81	133.142	0.00
8719.00†	88.950	133.142	7814.27	1171.80	-801.29	855.01	648428.14	438910.84	32°12'20.780"N	103°51'12.428"W	1171.80	133.142	0.00
8819.00†	88.950	133.142	7816.11	1271.78	-869.66	927.97	648501.09	438842.47	32°12'20.100"N	103°51'11.583"W	1271.78	133.142	0.00
8919.00†	88.950	133.142	7817.94	1371.76	-938.03	1000.92	648574.04	438774.11	32°12'19.421"N	103°51'10.737"W	1371.76	133.142	0.00
9019.00†	88.950	133.142	7819.77	1471.75	-1006.40	1073.87	648646.98	438705.74	32°12'18.741"N	103°51'09.892"W	1471.75	133.142	0.00
9119.00†	88.950	133.142	7821.60	1571.73	-1074.77	1146.83	648719.93	438637.38	32°12'18.061"N	103°51'09.047"W	1571.73	133.142	0.00
9219.00†	88.950	133.142	7823.43	1671.71	-1143.14	1219.78	648792.88	438569.01	32°12'17.381"N	103°51'08.201"W	1671.71	133.142	0.00
9319.00†	88.950	133.142	7825.26	1771.70	-1211.51	1292.73	648865.83	438500.65	32°12'16.702"N	103°51'07.356"W	1771.70	133.142	0.00
9419.00†	88.950	133.142	7827.10	1871.68	-1279.88	1365.69	648938.78	438432.28	32°12'16.022"N	103°51'06.510"W	1871.68	133.142	0.00
9519.00†	88.950	133.142	7828.93	1971.66	-1348.25	1438.64	649011.73	438363.92	32°12'15.342"N	103°51'05.665"W	1971.66	133.142	0.00
9619.00†	88.950	133.142	7830.76	2071.65	-1416.62	1511.59	649084.67	438295.55	32°12'14.662"N	103°51'04.819"W	2071.65	133.142	0.00
9719.00†	88.950	133.142	7832.59	2171.63	-1484.99	1584.55	649157.62	438227.18	32°12'13.982"N	103°51'03.974"W	2171.63	133.142	0.00
9819.00†	88.950	133.142	7834.42	2271.61	-1553.36	1657.50	649230.57	438158.82	32°12'13.303"N	103°51'03.128"W	2271.61	133.142	0.00
9919.00†	88.950	133.142	7836.25	2371.60	-1621.73	1730.45	649303.52	438090.45	32°12'12.623"N	103°51'02.283"W	2371.60	133.142	0.00
10019.00†	88.950	133.142	7838.09	2471.58	-1690.10	1803.41	649376.47	438022.09	32°12'11.943"N	103°51'01.437"W	2471.58	133.142	0.00
10119.00†	88.950	133.142	7839.92	2571.56	-1758.47	1876.36	649449.42	437953.72	32°12'11.263"N	103°51'00.592"W	2571.56	133.142	0.00
10219.00†	88.950	133.142	7841.75	2671.55	-1826.84	1949.31	649522.37	437885.36	32°12'10.584"N	103°50'59.747"W	2671.55	133.142	0.00
10319.00†	88.950	133.142	7843.58	2771.53	-1895.21	2022.27	649595.31	437816.99	32°12'09.904"N	103°50'58.901"W	2771.53	133.142	0.00
10419.00†	88.950	133.142	7845.41	2871.51	-1963.58	2095.22	649668.26	437748.63	32°12'09.224"N	103°50'58.056"W	2871.51	133.142	0.00
10519.00†	88.950	133.142	7847.24	2971.50	-2031.95	2168.17	649741.21	437680.26	32°12'08.544"N	103°50'57.210"W	2971.50	133.142	0.00
10619.00†	88.950	133.142	7849.08	3071.48	-2100.32	2241.13	649814.16	437611.90	32°12'07.864"N	103°50'56.365"W	3071.48	133.142	0.00
10719.00†	88.950	133.142	7850.91	3171.46	-2168.69	2314.08	649887.11	437543.53	32°12'07.185"N	103°50'55.520"W	3171.46	133.142	0.00
10819.00†	88.950	133.142	7852.74	3271.44	-2237.06	2387.03	649960.06	437475.17	32°12'06.505"N	103°50'54.674"W	3271.44	133.142	0.00
10919.00†	88.950	133.142	7854.57	3371.43	-2305.43	2459.99	650033.00	437406.80	32°12'05.825"N	103°50'53.829"W	3371.43	133.142	0.00
11019.00†	88.950	133.142	7856.40	3471.41	-2373.80	2532.94	650105.95	437338.44	32°12'05.145"N	103°50'52.983"W	3471.41	133.142	0.00
11119.00†	88.950	133.142	7858.23	3571.39	-2442.17	2605.89	650178.90	437270.07	32°12'04.465"N	103°50'52.138"W	3571.39	133.142	0.00
11219.00†	88.950	133.142	7860.07	3671.38	-2510.54	2678.85	650251.85	437201.71	32°12'03.786"N	103°50'51.293"W	3671.38	133.142	0.00



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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.341H SHL
Area	Eddy County, NM	Well	No.341H
Field	Poker Lake Unit	Wellbore	No.341H PWB
Facility	Poker Lake Unit No. 341H		

WELLPATH DATA (166 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	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
11319.00†	88.950	133.142	7861.90	3771.36	-2578.91	2751.80	650324.80	437133.34	32°12'03.106"N	103°50'50.447"W	3771.36	133.142	0.00
11419.00†	88.950	133.142	7863.73	3871.34	-2647.28	2824.75	650397.75	437064.97	32°12'02.426"N	103°50'49.602"W	3871.34	133.142	0.00
11519.00†	88.950	133.142	7865.56	3971.33	-2715.65	2897.71	650470.69	436996.61	32°12'01.746"N	103°50'48.756"W	3971.33	133.142	0.00
11619.00†	88.950	133.142	7867.39	4071.31	-2784.02	2970.66	650543.64	436928.24	32°12'01.066"N	103°50'47.911"W	4071.31	133.142	0.00
11719.00†	88.950	133.142	7869.22	4171.29	-2852.39	3043.61	650616.59	436859.88	32°12'00.386"N	103°50'47.066"W	4171.29	133.142	0.00
11819.00†	88.950	133.142	7871.06	4271.28	-2920.76	3116.57	650689.54	436791.51	32°11'59.707"N	103°50'46.220"W	4271.28	133.142	0.00
11919.00†	88.950	133.142	7872.89	4371.26	-2989.13	3189.52	650762.49	436723.15	32°11'59.027"N	103°50'45.375"W	4371.26	133.142	0.00
12019.00†	88.950	133.142	7874.72	4471.24	-3057.50	3262.47	650835.44	436654.78	32°11'58.347"N	103°50'44.530"W	4471.24	133.142	0.00
12119.00†	88.950	133.142	7876.55	4571.23	-3125.87	3335.43	650908.38	436586.42	32°11'57.667"N	103°50'43.684"W	4571.23	133.142	0.00
12219.00†	88.950	133.142	7878.38	4671.21	-3194.24	3408.38	650981.33	436518.05	32°11'56.987"N	103°50'42.839"W	4671.21	133.142	0.00
12319.00†	88.950	133.142	7880.21	4771.19	-3262.61	3481.33	651054.28	436449.69	32°11'56.308"N	103°50'41.993"W	4771.19	133.142	0.00
12419.00†	88.950	133.142	7882.05	4871.18	-3330.98	3554.29	651127.23	436381.32	32°11'55.628"N	103°50'41.148"W	4871.18	133.142	0.00
12519.00†	88.950	133.142	7883.88	4971.16	-3399.35	3627.24	651200.18	436312.96	32°11'54.948"N	103°50'40.303"W	4971.16	133.142	0.00
12619.00†	88.950	133.142	7885.71	5071.14	-3467.72	3700.19	651273.13	436244.59	32°11'54.268"N	103°50'39.457"W	5071.14	133.142	0.00
12719.00†	88.950	133.142	7887.54	5171.13	-3536.09	3773.15	651346.08	436176.23	32°11'53.588"N	103°50'38.612"W	5171.13	133.142	0.00
12819.00†	88.950	133.142	7889.37	5271.11	-3604.46	3846.10	651419.02	436107.86	32°11'52.908"N	103°50'37.767"W	5271.11	133.142	0.00
12919.00†	88.950	133.142	7891.20	5371.09	-3672.83	3919.05	651491.97	436039.49	32°11'52.229"N	103°50'36.921"W	5371.09	133.142	0.00
13019.00†	88.950	133.142	7893.04	5471.08	-3741.20	3992.01	651564.92	435971.13	32°11'51.549"N	103°50'36.076"W	5471.08	133.142	0.00
13119.00†	88.950	133.142	7894.87	5571.06	-3809.57	4064.96	651637.87	435902.76	32°11'50.869"N	103°50'35.231"W	5571.06	133.142	0.00
13219.00†	88.950	133.142	7896.70	5671.04	-3877.94	4137.91	651710.82	435834.40	32°11'50.189"N	103°50'34.385"W	5671.04	133.142	0.00
13319.00†	88.950	133.142	7898.53	5771.03	-3946.31	4210.87	651783.77	435766.03	32°11'49.509"N	103°50'33.540"W	5771.03	133.142	0.00
13419.00†	88.950	133.142	7900.36	5871.01	-4014.68	4283.82	651856.71	435697.67	32°11'48.829"N	103°50'32.695"W	5871.01	133.142	0.00
13519.00†	88.950	133.142	7902.19	5970.99	-4083.05	4356.77	651929.66	435629.30	32°11'48.149"N	103°50'31.850"W	5970.99	133.142	0.00
13619.00†	88.950	133.142	7904.03	6070.98	-4151.42	4429.73	652002.61	435560.94	32°11'47.470"N	103°50'31.004"W	6070.98	133.142	0.00
13719.00†	88.950	133.142	7905.86	6170.96	-4219.79	4502.68	652075.56	435492.57	32°11'46.790"N	103°50'30.159"W	6170.96	133.142	0.00
13819.00†	88.950	133.142	7907.69	6270.94	-4288.16	4575.63	652148.51	435424.21	32°11'46.110"N	103°50'29.314"W	6270.94	133.142	0.00
13919.00†	88.950	133.142	7909.52	6370.92	-4356.53	4648.59	652221.46	435355.84	32°11'45.430"N	103°50'28.468"W	6370.92	133.142	0.00
14019.00†	88.950	133.142	7911.35	6470.91	-4424.90	4721.54	652294.40	435287.48	32°11'44.750"N	103°50'27.623"W	6470.91	133.142	0.00
14119.00†	88.950	133.142	7913.18	6570.89	-4493.27	4794.49	652367.35	435219.11	32°11'44.070"N	103°50'26.778"W	6570.89	133.142	0.00
14219.00†	88.950	133.142	7915.02	6670.87	-4561.64	4867.45	652440.30	435150.75	32°11'43.391"N	103°50'25.932"W	6670.87	133.142	0.00



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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.341H SHL
Area	Eddy County, NM	Well	No.341H
Field	Poker Lake Unit	Wellbore	No.341H PWB
Facility	Poker Lake Unit No. 341H		

WELLPATH DATA (166 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	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
14319.00†	88.950	133.142	7916.85	6770.86	-4630.01	4940.40	652513.25	435082.38	32°11'42.711"N	103°50'25.087"W	6770.86	133.142	0.00
14419.00†	88.950	133.142	7918.68	6870.84	-4698.38	5013.35	652586.20	435014.02	32°11'42.031"N	103°50'24.242"W	6870.84	133.142	0.00
14519.00†	88.950	133.142	7920.51	6970.82	-4766.75	5086.31	652659.15	434945.65	32°11'41.351"N	103°50'23.397"W	6970.82	133.142	0.00
14619.00†	88.950	133.142	7922.34	7070.81	-4835.12	5159.26	652732.10	434877.28	32°11'40.671"N	103°50'22.551"W	7070.81	133.142	0.00
14719.00†	88.950	133.142	7924.17	7170.79	-4903.48	5232.22	652805.04	434808.92	32°11'39.991"N	103°50'21.706"W	7170.79	133.142	0.00
14819.00†	88.950	133.142	7926.01	7270.77	-4971.85	5305.17	652877.99	434740.55	32°11'39.311"N	103°50'20.861"W	7270.77	133.142	0.00
14919.00†	88.950	133.142	7927.84	7370.76	-5040.22	5378.12	652950.94	434672.19	32°11'38.632"N	103°50'20.016"W	7370.76	133.142	0.00
15019.00†	88.950	133.142	7929.67	7470.74	-5108.59	5451.08	653023.89	434603.82	32°11'37.952"N	103°50'19.170"W	7470.74	133.142	0.00
15119.00†	88.950	133.142	7931.50	7570.72	-5176.96	5524.03	653096.84	434535.46	32°11'37.272"N	103°50'18.325"W	7570.72	133.142	0.00
15219.00†	88.950	133.142	7933.33	7670.71	-5245.33	5596.98	653169.79	434467.09	32°11'36.592"N	103°50'17.480"W	7670.71	133.142	0.00
15319.00†	88.950	133.142	7935.16	7770.69	-5313.70	5669.94	653242.73	434398.73	32°11'35.912"N	103°50'16.635"W	7770.69	133.142	0.00
15419.00†	88.950	133.142	7937.00	7870.67	-5382.07	5742.89	653315.68	434330.36	32°11'35.232"N	103°50'15.789"W	7870.67	133.142	0.00
15519.00†	88.950	133.142	7938.83	7970.66	-5450.44	5815.84	653388.63	434262.00	32°11'34.552"N	103°50'14.944"W	7970.66	133.142	0.00
15619.00†	88.950	133.142	7940.66	8070.64	-5518.81	5888.80	653461.58	434193.63	32°11'33.872"N	103°50'14.099"W	8070.64	133.142	0.00
15719.00†	88.950	133.142	7942.49	8170.62	-5587.18	5961.75	653534.53	434125.27	32°11'33.193"N	103°50'13.254"W	8170.62	133.142	0.00
15779.51	88.950	133.142	7943.60	8231.12	-5628.56	6005.89	653578.67	434083.90	32°11'32.781"N	103°50'12.742"W	8231.12	133.142	0.00

HOLE & CASING SECTIONS - Ref Wellbore: No.341H PWB Ref Wellpath: Rev-C.0

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
7in Casing	19.00	8180.00	8161.00	19.00	7807.00	0.00	0.00	-432.76	461.78
8.75in Open Hole	19.00	8180.00	8161.00	19.00	7807.00	0.00	0.00	-432.76	461.78



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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.341H SHL
Area	Eddy County, NM	Well	No.341H
Field	Poker Lake Unit	Wellbore	No.341H PWB
Facility	Poker Lake Unit No. 341H		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
No.341 Target #1		7807.00	-526.38	542.00	648115.15	439185.73	32°12'23.514"N	103°51'16.057"W	point
1) No.341 PBHL	15779.51	7943.60	5628.56	6005.89	653578.67	434083.90	32°11'32.781"N	103°50'12.742"W	point

SURVEY PROGRAM - Ref Wellbore: No.341H PWB Ref Wellpath: Rev-C.0				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
19.00	14489.12	NaviTrak (Standard)		No.341H PWB