

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. NMNM05912
2. Name of Operator BOPCO LP		6. If Indian, Allottee or Tribe Name
3a. Address MIDLAND, TX 79702		7. If Unit or CA/Agreement, Name and/or No. 891000303X
3b. Phone No. (include area code) Ph: 432-221-7307		8. Well Name and No. POKER LAKE UNIT 442H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 19 T24S R30E SWSE 820FSL 2290FEL		9. API Well No. 30-015-41195-00-X1
		10. Field and Pool, or Exploratory NASH DRAW
		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 Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

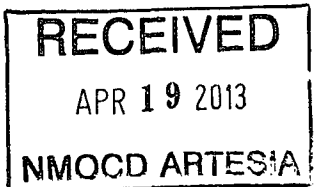
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths 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 ament the casing program for PLU #442H. This will be accomplished by drilling a 17 1/2" surface hole and setting a 13 5/8", 48 ppf, H-40, ST&C surface string at approximately 470'. The 13 5/8" surface casing will be cemented to surface. The salt string will be drilled with an 11" hole drilled to approximately 3,438' and then cased using and 8 5/8", 32 ppf, J-55, LTC intermediate string that will be cemented to surface. The Production hole will be a 7 7/8" hole drilled to TD and cased with 5 1/2", 17 ppf, HCP-110, BTC casing and cemented to 1000' into the 8 5/8" salt string (2,438')

Please see attached revised casing program, casing program safety factors, cementing program, directional plan, well plan, plat and APD.

Accepted for record
NMOC

LRDade 4/24/13



14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #204305 verified by the BLM Well Information System For BOPCO LP, sent to the Carlsbad Committed to AFMSS for processing by JOHNNY DICKERSON on 04/16/2013 (13JLD0526SE)	
Name(Printed/Typed) COURTNEY LOCKHART	Title REPORT AUTHORIZER
Signature (Electronic Submission)	Date 04/12/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHRISTOPHER WALLS	Title PETROLEUM ENGINEER	Date 04/16/2013
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

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

OIL CONSERVATION DIVISION

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

Form C-102

Revised July 16, 2010

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 47545	Pool Name NASH DRAW (DELAWARE BS AVALON SD)
Property Code 306402	Property Name POKER LAKE UNIT	Well Number 442H
OGRID No. 260737	Operator Name BOPCO, L.P.	Elevation 3153'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	19	24 S	30 E		820	SOUTH	2290	EAST	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
J	18	24 S	30 E		1488	SOUTH	2362	EAST	EDDY

Dedicated Acres 240	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

<u>PROPOSED BOTTOM HOLE LOCATION</u> Lat - N 32°12'51.28" Long - W 103°55'09.66" NMSPCE - N 441908.3 E 628034.0 (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. Signature: <i>Courtney Lockhart</i> Date: <i>4-12-13</i> Printed Name: Courtney Lockhart Email Address: cjlockhart@basspet.com
<u>SURFACE LOCATION</u> Lat - N 32°11'52.31" Long - W 103°55'08.54" NMSPCE - N 435949.263 E 628153.236 (NAD-27)		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: <i>NOVEMBER 2, 2012</i> Signature & Seal of Professional Surveyor: <i>GARY L. JONES</i> Certificate No. Gary L. Jones 7977 BASIN SURVEYS 27683

BOPCO, L.P respectfully submits to change the bottom hole location from its original location of 1,169' FSL & 2,329' FEL of Section 13, T24S-R29E to a new bottom hole location of 1,488' FSL & 2,362' FEL of Section 18, T24S-R30E.

BOPCO, L.P. respectfully requests permission to amend the casing program for Poker Lake Unit #442H. This will be accomplished by drilling a 17-1/2" surface hole and setting a 13-5/8", 48 ppf, H-40, ST&C surface string at approximately 470'. The 13-5/8" surface casing will be cemented to surface. The salt string will be drilled with an 11" hole drilled to approximately 3,438' and then cased using an 8-5/8", 32 ppf, J-55, LTC intermediate string that will be cemented to surface. The production hole will be a 7-7/8" hole drilled to TD and cased with 5-1/2", 17 ppf, HCP-110, BTC casing and cemented to 1,000' into the 8-5/8" salt string (2,438').

Revised Casing Program:

Type	Interval (MD)	Hole Size
20" (already set)	0-120'	26"
13-3/8", 48ppf, H-40, STC	0-470	17-1/2"
8-5/8", 32 ppf, J-55, LTC	0-3,438'	11"
5-1/2", 17 ppf, HCP-110, Buttress	8,736' - 14,302	7-7/8"

Casing Program Safety Factors:

Type	Tension	Collapse	Burst
8-5/8", 32 ppf, J-55, LTC	4.57	1.39	2.61
5-1/2", 17 ppf, J-55, 8rd, LTC	5.00	2.10	2.59

Cementing Program: Please see below for updates to cement program

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

Primary Volume: 500 sacks

Primary Details: 14.8 ppg, 1.33 ft³/sk yield, H₂O 9.14 gal/sk

Top of Primary: Surface

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

8-5/8" 1st Intermediate salt string (fluid caliper + 50% excess)

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

Lead Volume: 590 sacks

Lead Details: 12.9 ppg, 1.92 ft³/sk yield, H₂O 9.805 gal/sk

Tail Slurry: Class "C" Cement: 0.2% Retarder
Tail Volume: 150 sacks
Tail Details: 14.8 ppg, 1.33 ft³/sk yield, H₂O 6.300 gal/sk
Tail Length: 500'

TOC: Surface

5-1/2" 1st Intermediate (caliper volume + 50% excess)

1st Stage

Lead Slurry: 65/35 Class "H": Poz Cement: 5% Salt + 6% Bentonite + 0.6% Retarder + 0.125 lb/sk Cellophane + 0.25 lb/sk Antifoam + 3 lb/sk Kol-Seal LCM

Lead Volume: 300 sacks

Lead Details: 12.9 ppg, 1.92 ft³/sk yield, H₂O 9.922 gal/sk

Top of Lead: DV Tool

Tail Slurry: PVL Cement: 1.3% Salt + 5% Expanding Cement + 0.5% Gel Suppressing Agent + 0.1% Antisettling agent + 0.6% Retarder + 0.25 pps Antifoam

Tail Volume: 950 sacks

Tail Details: 13.0 ppg, 1.48 ft³/sk yield, H₂O 7.566 gal/sk

Top of Tail: KOP (8,015')

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

2nd Stage

Lead Slurry: 65/35 Class "C": Poz Cement: 5% Salt + 6% Bentonite + 0.6% Retarder + 0.125 lb/sk Cellophane + 0.25 lb/sk Antifoam + 3 lb/sk Kol-Seal LCM

Lead Volume: 180 sacks

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

Top of Lead: 1,000' inside of 8-5/8" shoe (2,438')

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

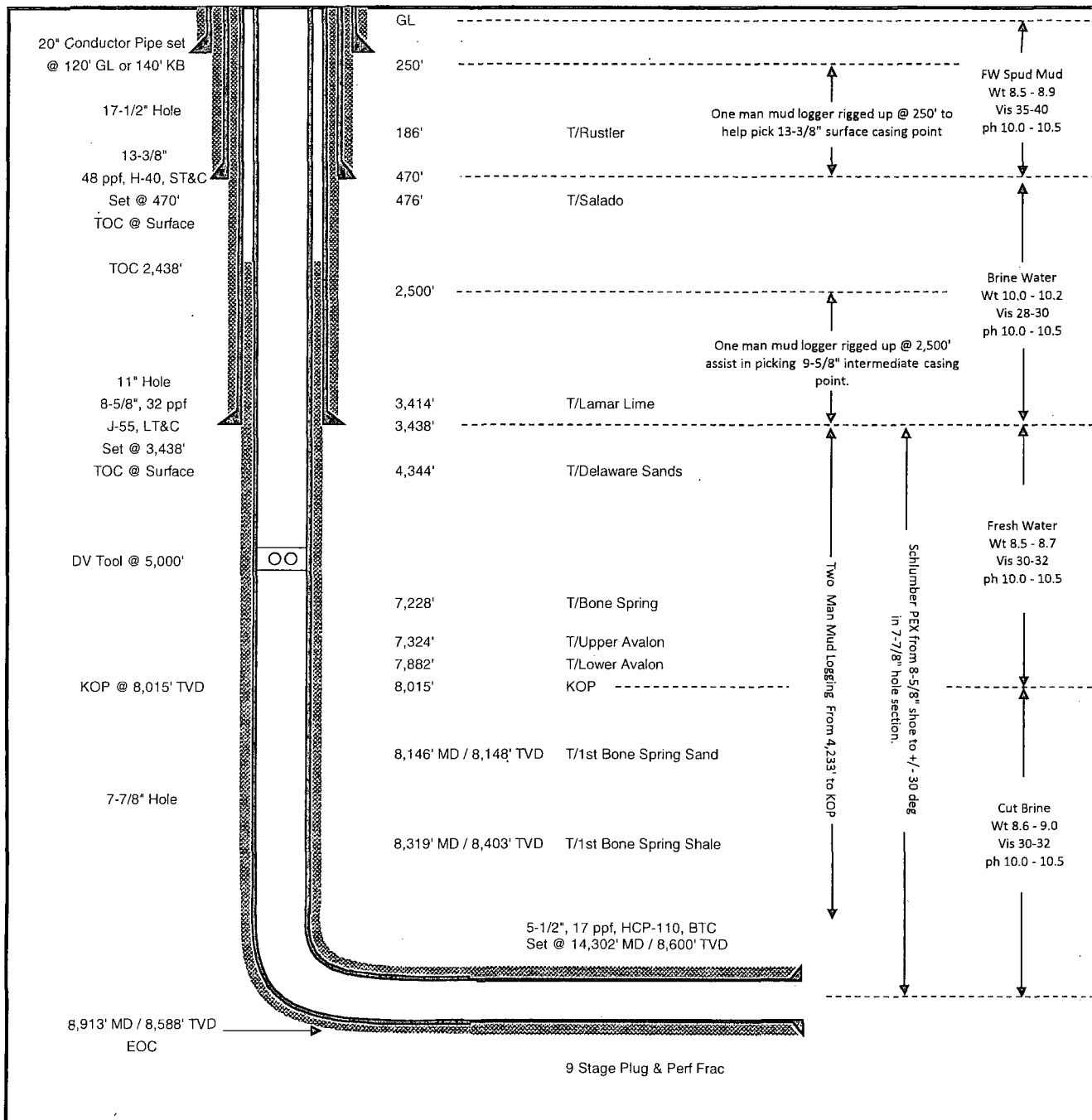
Tail Volume: 100 sacks

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

Tail Length: 670'

TOC: 2,438'

BOPCO, L.P.
Poker Lake Unit #442H
Nash Draw



FIELD: Nash Draw	Lease Name: Poker Lake Unit #364H
LOCATION: 820' FSL & 2,290' FEL, Sec 19, T24S, R30E	Elevation: GL 3,149', KB 3,193' (est)
COUNTY: Eddy County, NM	Proposed Pilot hole TD : None
BHL: 1,162' FSL & 2,322' FWL, Sec 13, T24S, R29E	Proposed Horizontal Hole: 14,302' MD, 8,600' TVD, 358.85° AZ from surface
Angle @ KOP and depth: 0 deg KOP TVD: 8,015'	Build Rate: 10 deg/100', Max Angle: 89.87 deg, Horizontal Displacement: 5,960'
Drilling Company & Rig: Latshaw Rig #4	Approved By:
Prepared by: CV Last Revision Date: April 10, 2013	Approval Date:



BOPCO, L.P.

Location: Eddy County, NM

Field: Poker Lake Unit

Facility: Poker Lake Unit No. 442H and 443H

Slot: No. 442H SHL

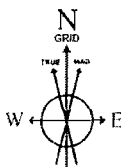
Well: No. 442H

Wellbore: No. 442H PWB

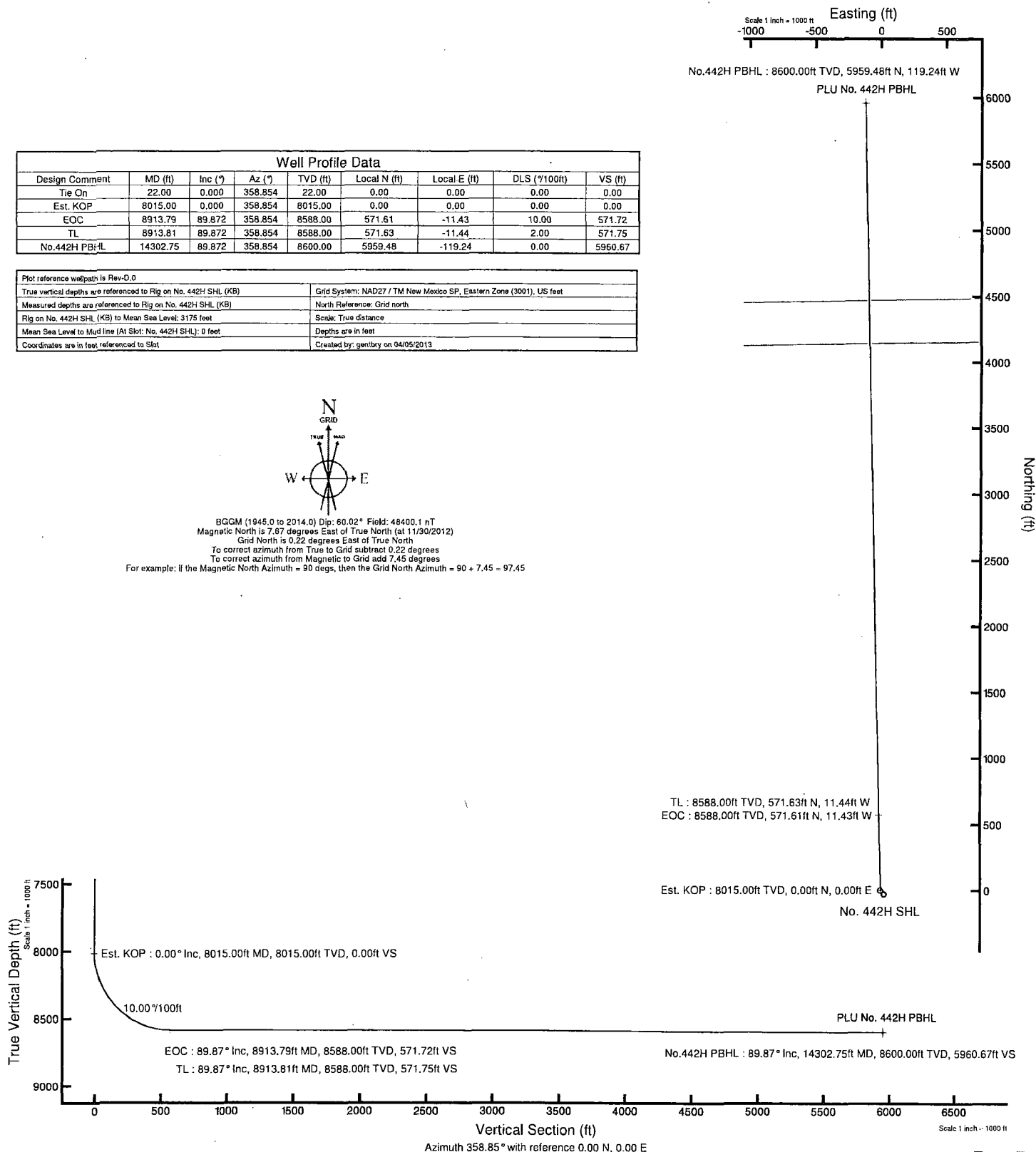


Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	22.00	0.000	358.854	22.00	0.00	0.00	0.00	0.00
Est. KOP	8015.00	0.000	358.854	8015.00	0.00	0.00	0.00	0.00
EOC	8913.79	89.872	358.854	8588.00	571.61	-11.43	10.00	571.72
TL	8913.81	89.872	358.854	8588.00	571.63	-11.44	2.00	571.75
No.442H PWB:IL	14302.75	89.872	358.854	8600.00	5959.48	-119.24	0.00	5960.67

Plot reference wellpath is Rev-D.0	
True vertical depths are referenced to Rig on No. 442H SHL (KB)	Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No. 442H SHL (KB)	North Reference: Grid north
Rig on No. 442H SHL (KB) to Mean Sea Level: 3175 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: No. 442H SHL): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: gentbry on 04/05/2013



BGGM (1945.0 to 2014.0) Dip: 60.02° Field: 48400.1 nT
Magnetic North is 7.97 degrees East of True North (at 11/30/2012)
Grid North is 0.22 degrees East of True North
To correct azimuth from True to Grid subtract 0.22 degrees
To correct azimuth from Magnetic to Grid add 7.45 degrees
For example: If the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.45 = 97.45



Rev-D.0



Planned Wellpath Report

Rev-D.0

Page 1 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 442H SHL
Area	Eddy County, NM	Well	No. 442H
Field	Poker Lake Unit	Wellbore	No. 442H PWB
Facility	Poker Lake Unit No. 442H and 443H		

REPORT SETUP INFORMATION			
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Gentbry
Scale	0.999928	Report Generated	04/05/2013 at 2:36:32 PM
Convergence at slot	0.22° East	Database/Source file	WA Midland/No. 442H_PWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	28.20	-28.26	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W
Facility Reference Pt			628181.49	435921.07	32°11'52.026"N	103°55'08.210"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. 442H SHL (KB) to Facility Vertical Datum	3175.00ft
Horizontal Reference Pt	Slot	Rig on No. 442H SHL (KB) to Mean Sea Level	3175.00ft
Vertical Reference Pt	Rig on No. 442H SHL (KB)	Rig on No. 442H SHL (KB) to Mud Line at Slot (No. 442H SHL)	3175.00ft
MD Reference Pt	Rig on No. 442H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	358.85°



Planned Wellpath Report

Rev-D.0

Page 2 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 442H SHL
Area	Eddy County, NM	Well	No. 442H
Field	Poker Lake Unit	Wellbore	No. 442H PWB
Facility	Poker Lake Unit No. 442H and 443H		

WELLPATH DATA (159 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	358.854	0.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
22.00	0.000	358.854	22.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	Tie On
122.00†	0.000	358.854	122.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
130.00†	0.000	358.854	130.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	T/Fresh Water
200.00†	0.000	358.854	200.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	T/Rustler
222.00†	0.000	358.854	222.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
322.00†	0.000	358.854	322.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
422.00†	0.000	358.854	422.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
480.00†	0.000	358.854	480.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	T/Salado
522.00†	0.000	358.854	522.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
622.00†	0.000	358.854	622.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
722.00†	0.000	358.854	722.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
822.00†	0.000	358.854	822.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
922.00†	0.000	358.854	922.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
1022.00†	0.000	358.854	1022.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
1122.00†	0.000	358.854	1122.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
1222.00†	0.000	358.854	1222.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
1322.00†	0.000	358.854	1322.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
1422.00†	0.000	358.854	1422.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
1522.00†	0.000	358.854	1522.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
1622.00†	0.000	358.854	1622.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
1722.00†	0.000	358.854	1722.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
1822.00†	0.000	358.854	1822.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
1922.00†	0.000	358.854	1922.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
2022.00†	0.000	358.854	2022.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
2122.00†	0.000	358.854	2122.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
2222.00†	0.000	358.854	2222.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
2322.00†	0.000	358.854	2322.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
2422.00†	0.000	358.854	2422.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
2522.00†	0.000	358.854	2522.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
2622.00†	0.000	358.854	2622.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
2722.00†	0.000	358.854	2722.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
2822.00†	0.000	358.854	2822.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
2922.00†	0.000	358.854	2922.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
3022.00†	0.000	358.854	3022.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
3122.00†	0.000	358.854	3122.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
3206.00†	0.000	358.854	3206.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	B/Salt
3222.00†	0.000	358.854	3222.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
3322.00†	0.000	358.854	3322.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
3418.00†	0.000	358.854	3418.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	T/Lamar
3422.00†	0.000	358.854	3422.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
3453.00†	0.000	358.854	3453.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	T/Ramsey
3522.00†	0.000	358.854	3522.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
3622.00†	0.000	358.854	3622.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
3722.00†	0.000	358.854	3722.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	



Planned Wellpath Report

Rev-D.0
Page 3 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 442H SHL
Area	Eddy County, NM	Well	No. 442H
Field	Poker Lake Unit	Wellbore	No. 442H PWB
Facility	Poker Lake Unit No. 442H and 443H		

WELLPATH DATA (159 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
3822.00†	0.000	358.854	3822.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
3922.00†	0.000	358.854	3922.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
4022.00†	0.000	358.854	4022.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
4122.00†	0.000	358.854	4122.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
4222.00†	0.000	358.854	4222.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
4322.00†	0.000	358.854	4322.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
4348.00†	0.000	358.854	4348.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	Cherry Canyon
4422.00†	0.000	358.854	4422.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
4522.00†	0.000	358.854	4522.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
4622.00†	0.000	358.854	4622.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
4722.00†	0.000	358.854	4722.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
4822.00†	0.000	358.854	4822.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
4922.00†	0.000	358.854	4922.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
5022.00†	0.000	358.854	5022.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
5122.00†	0.000	358.854	5122.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
5222.00†	0.000	358.854	5222.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
5322.00†	0.000	358.854	5322.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
5422.00†	0.000	358.854	5422.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
5522.00†	0.000	358.854	5522.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
5622.00†	0.000	358.854	5622.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
5722.00†	0.000	358.854	5722.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
5822.00†	0.000	358.854	5822.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
5922.00†	0.000	358.854	5922.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
6022.00†	0.000	358.854	6022.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
6122.00†	0.000	358.854	6122.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
6222.00†	0.000	358.854	6222.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
6322.00†	0.000	358.854	6322.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
6422.00†	0.000	358.854	6422.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
6522.00†	0.000	358.854	6522.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
6622.00†	0.000	358.854	6622.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
6722.00†	0.000	358.854	6722.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
6798.00†	0.000	358.854	6798.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	Brushy Canyon
6822.00†	0.000	358.854	6822.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
6922.00†	0.000	358.854	6922.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
7022.00†	0.000	358.854	7022.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
7122.00†	0.000	358.854	7122.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
7222.00†	0.000	358.854	7222.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
7232.00†	0.000	358.854	7232.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	Bone Spring
7322.00†	0.000	358.854	7322.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
7328.00†	0.000	358.854	7328.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	Upper Avalon
7422.00†	0.000	358.854	7422.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
7522.00†	0.000	358.854	7522.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
7622.00†	0.000	358.854	7622.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
7722.00†	0.000	358.854	7722.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
7822.00†	0.000	358.854	7822.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	



Planned Wellpath Report

Rev-D.0

Page 4 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 442H SHL
Area	Eddy County, NM	Well	No. 442H
Field	Poker Lake Unit	Wellbore	No. 442H PWB
Facility	Poker Lake Unit No. 442H and 443H		

WELLPATH DATA (159 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
7886.00+	0.000	358.854	7886.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	Lower Avalon
7922.00+	0.000	358.854	7922.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	
8015.00	0.000	358.854	8015.00	0.00	0.00	0.00	628153.24	435949.26	32°11'52.307"N	103°55'08.537"W	0.00	Est. KOP
8022.00+	0.700	358.854	8022.00	0.04	0.04	0.00	628153.24	435949.31	32°11'52.307"N	103°55'08.537"W	10.00	
8122.00+	10.699	358.854	8121.38	9.96	9.96	-0.20	628153.04	435959.22	32°11'52.405"N	103°55'08.539"W	10.00	
8222.00+	20.698	358.854	8217.53	36.99	36.98	-0.74	628152.50	435986.24	32°11'52.672"N	103°55'08.544"W	10.00	
8322.00+	30.698	358.854	8307.52	80.29	80.28	-1.61	628151.63	436029.53	32°11'53.101"N	103°55'08.552"W	10.00	
8422.00+	40.697	358.854	8388.63	138.57	138.54	-2.77	628150.46	436087.79	32°11'53.678"N	103°55'08.563"W	10.00	
8522.00+	50.696	358.854	8458.39	210.04	210.00	-4.20	628149.04	436159.25	32°11'54.385"N	103°55'08.577"W	10.00	
8622.00+	60.695	358.854	8514.67	292.54	292.49	-5.85	628147.39	436241.73	32°11'55.201"N	103°55'08.592"W	10.00	
8722.00+	70.695	358.854	8555.78	383.57	383.49	-7.67	628145.57	436332.72	32°11'56.102"N	103°55'08.609"W	10.00	
8822.00+	80.694	358.854	8580.46	480.34	480.25	-9.61	628143.63	436429.47	32°11'57.059"N	103°55'08.628"W	10.00	
8913.79	89.872	358.854	8588.00	571.72	571.61	-11.43	628141.80	436520.83	32°11'57.963"N	103°55'08.645"W	10.00	EOC
8913.81	89.872	358.854	8588.00	571.75	571.63	-11.44	628141.80	436520.85	32°11'57.964"N	103°55'08.645"W	2.00	TL
8922.00+	89.872	358.854	8588.02	579.93	579.82	-11.60	628141.64	436529.04	32°11'58.044"N	103°55'08.646"W	0.00	
9022.00+	89.872	358.854	8588.24	679.93	679.80	-13.60	628139.64	436629.01	32°11'59.034"N	103°55'08.665"W	0.00	
9122.00+	89.872	358.854	8588.46	779.93	779.78	-15.60	628137.64	436728.98	32°12'00.023"N	103°55'08.684"W	0.00	
9222.00+	89.872	358.854	8588.69	879.93	879.76	-17.60	628135.64	436828.95	32°12'01.013"N	103°55'08.703"W	0.00	
9322.00+	89.872	358.854	8588.91	979.93	979.74	-19.60	628133.64	436928.93	32°12'02.002"N	103°55'08.722"W	0.00	
9422.00+	89.872	358.854	8589.13	1079.93	1079.72	-21.60	628131.64	437028.90	32°12'02.992"N	103°55'08.740"W	0.00	
9522.00+	89.872	358.854	8589.35	1179.93	1179.70	-23.60	628129.64	437128.87	32°12'03.981"N	103°55'08.759"W	0.00	
9622.00+	89.872	358.854	8589.58	1279.93	1279.68	-25.60	628127.64	437228.84	32°12'04.970"N	103°55'08.778"W	0.00	
9722.00+	89.872	358.854	8589.80	1379.93	1379.65	-27.60	628125.63	437328.82	32°12'05.960"N	103°55'08.797"W	0.00	
9822.00+	89.872	358.854	8590.02	1479.93	1479.63	-29.60	628123.63	437428.79	32°12'06.949"N	103°55'08.816"W	0.00	
9922.00+	89.872	358.854	8590.25	1579.93	1579.61	-31.60	628121.63	437528.76	32°12'07.939"N	103°55'08.834"W	0.00	
10022.00+	89.872	358.854	8590.47	1679.93	1679.59	-33.61	628119.63	437628.73	32°12'08.928"N	103°55'08.853"W	0.00	
10122.00+	89.872	358.854	8590.69	1779.93	1779.57	-35.61	628117.63	437728.70	32°12'09.918"N	103°55'08.872"W	0.00	
10222.00+	89.872	358.854	8590.91	1879.93	1879.55	-37.61	628115.63	437828.68	32°12'10.907"N	103°55'08.891"W	0.00	
10322.00+	89.872	358.854	8591.14	1979.93	1979.53	-39.61	628113.63	437928.65	32°12'11.896"N	103°55'08.910"W	0.00	
10422.00+	89.872	358.854	8591.36	2079.93	2079.51	-41.61	628111.63	438028.62	32°12'12.886"N	103°55'08.928"W	0.00	
10522.00+	89.872	358.854	8591.58	2179.93	2179.49	-43.61	628109.63	438128.59	32°12'13.875"N	103°55'08.947"W	0.00	
10622.00+	89.872	358.854	8591.80	2279.93	2279.47	-45.61	628107.63	438228.57	32°12'14.865"N	103°55'08.966"W	0.00	
10722.00+	89.872	358.854	8592.03	2379.93	2379.45	-47.61	628105.63	438328.54	32°12'15.854"N	103°55'08.985"W	0.00	
10822.00+	89.872	358.854	8592.25	2479.93	2479.43	-49.61	628103.63	438428.51	32°12'16.843"N	103°55'09.004"W	0.00	
10922.00+	89.872	358.854	8592.47	2579.93	2579.41	-51.61	628101.63	438528.48	32°12'17.833"N	103°55'09.022"W	0.00	
11022.00+	89.872	358.854	8592.69	2679.93	2679.39	-53.61	628099.63	438628.46	32°12'18.822"N	103°55'09.041"W	0.00	
11122.00+	89.872	358.854	8592.92	2779.93	2779.37	-55.61	628097.63	438728.43	32°12'19.812"N	103°55'09.060"W	0.00	
11222.00+	89.872	358.854	8593.14	2879.93	2879.35	-57.61	628095.63	438828.40	32°12'20.801"N	103°55'09.079"W	0.00	
11322.00+	89.872	358.854	8593.36	2979.93	2979.33	-59.61	628093.63	438928.37	32°12'21.791"N	103°55'09.098"W	0.00	
11422.00+	89.872	358.854	8593.59	3079.93	3079.31	-61.61	628091.63	439028.35	32°12'22.780"N	103°55'09.116"W	0.00	
11522.00+	89.872	358.854	8593.81	3179.93	3179.29	-63.61	628089.63	439128.32	32°12'23.769"N	103°55'09.135"W	0.00	
11622.00+	89.872	358.854	8594.03	3279.93	3279.27	-65.61	628087.63	439228.29	32°12'24.759"N	103°55'09.154"W	0.00	
11722.00+	89.872	358.854	8594.25	3379.93	3379.25	-67.61	628085.63	439328.26	32°12'25.748"N	103°55'09.173"W	0.00	
11822.00+	89.872	358.854	8594.48	3479.93	3479.23	-69.62	628083.63	439428.23	32°12'26.738"N	103°55'09.192"W	0.00	
11922.00+	89.872	358.854	8594.70	3579.93	3579.21	-71.62	628081.63	439528.21	32°12'27.727"N	103°55'09.210"W	0.00	



Planned Wellpath Report

Rev-D.0

Page 5 of 5



REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 442H SHL
Area	Eddy County, NM	Well	No. 442H
Field	Poker Lake Unit	Wellbore	No. 442H PWB
Facility	Poker Lake Unit No. 442H and 443H		

WELLPATH DATA (159 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
12022.00†	89.872	358.854	8594.92	3679.93	3679.19	-73.62	628079.62	439628.18	32°12'28.716"N	103°55'09.229"W	0.00	
12122.00†	89.872	358.854	8595.14	3779.92	3779.17	-75.62	628077.62	439728.15	32°12'29.706"N	103°55'09.248"W	0.00	
12222.00†	89.872	358.854	8595.37	3879.92	3879.15	-77.62	628075.62	439828.12	32°12'30.695"N	103°55'09.267"W	0.00	
12322.00†	89.872	358.854	8595.59	3979.92	3979.13	-79.62	628073.62	439928.10	32°12'31.685"N	103°55'09.286"W	0.00	
12422.00†	89.872	358.854	8595.81	4079.92	4079.11	-81.62	628071.62	440028.07	32°12'32.674"N	103°55'09.304"W	0.00	
12522.00†	89.872	358.854	8596.03	4179.92	4179.09	-83.62	628069.62	440128.04	32°12'33.664"N	103°55'09.323"W	0.00	
12622.00†	89.872	358.854	8596.26	4279.92	4279.07	-85.62	628067.62	440228.01	32°12'34.653"N	103°55'09.342"W	0.00	
12722.00†	89.872	358.854	8596.48	4379.92	4379.05	-87.62	628065.62	440327.99	32°12'35.642"N	103°55'09.361"W	0.00	
12822.00†	89.872	358.854	8596.70	4479.92	4479.03	-89.62	628063.62	440427.96	32°12'36.632"N	103°55'09.380"W	0.00	
12922.00†	89.872	358.854	8596.93	4579.92	4579.01	-91.62	628061.62	440527.93	32°12'37.621"N	103°55'09.398"W	0.00	
13022.00†	89.872	358.854	8597.15	4679.92	4678.99	-93.62	628059.62	440627.90	32°12'38.611"N	103°55'09.417"W	0.00	
13122.00†	89.872	358.854	8597.37	4779.92	4778.97	-95.62	628057.62	440727.87	32°12'39.600"N	103°55'09.436"W	0.00	
13222.00†	89.872	358.854	8597.59	4879.92	4878.95	-97.62	628055.62	440827.85	32°12'40.589"N	103°55'09.455"W	0.00	
13322.00†	89.872	358.854	8597.82	4979.92	4978.93	-99.62	628053.62	440927.82	32°12'41.579"N	103°55'09.474"W	0.00	
13422.00†	89.872	358.854	8598.04	5079.92	5078.91	-101.62	628051.62	441027.79	32°12'42.568"N	103°55'09.492"W	0.00	
13522.00†	89.872	358.854	8598.26	5179.92	5178.88	-103.63	628049.62	441127.76	32°12'43.558"N	103°55'09.511"W	0.00	
13622.00†	89.872	358.854	8598.48	5279.92	5278.86	-105.63	628047.62	441227.74	32°12'44.547"N	103°55'09.530"W	0.00	
13722.00†	89.872	358.854	8598.71	5379.92	5378.84	-107.63	628045.62	441327.71	32°12'45.537"N	103°55'09.549"W	0.00	
13822.00†	89.872	358.854	8598.93	5479.92	5478.82	-109.63	628043.62	441427.68	32°12'46.526"N	103°55'09.568"W	0.00	
13922.00†	89.872	358.854	8599.15	5579.92	5578.80	-111.63	628041.62	441527.65	32°12'47.515"N	103°55'09.586"W	0.00	
14022.00†	89.872	358.854	8599.37	5679.92	5678.78	-113.63	628039.62	441627.63	32°12'48.505"N	103°55'09.605"W	0.00	
14122.00†	89.872	358.854	8599.60	5779.92	5778.76	-115.63	628037.62	441727.60	32°12'49.494"N	103°55'09.624"W	0.00	
14222.00†	89.872	358.854	8599.82	5879.92	5878.74	-117.63	628035.62	441827.57	32°12'50.484"N	103°55'09.643"W	0.00	
14302.75	89.872	358.854	8600.00	5960.67	5959.48	-119.24	628034.00	441908.30	32°12'51.283"N	103°55'09.658"W	0.00	No.442H PBHL

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) PLU No. 442H PBHL	14302.75	8600.00	5959.48	-119.24	628034.00	441908.30	32°12'51.283"N	103°55'09.658"W	point

SURVEY PROGRAM - Ref Wellbore: No. 442H PWB - Ref Wellpath: Rev-D.0

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
22.00	14302.75	NaviTrak (Standard)		No. 442H PWB