

OCD-ARTESIA

Form 3160-5
(August 2007)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
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.*5. Lease Serial No.
LC068905
6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

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)

SENW; UL E; 1650' FNL 710' FWL

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

NM71016X

8. Well Name and No.

Poker Lake Unit 315

9. API Well No.

30-015-39166

10. Field and Pool or Exploratory Area

Poker Lake SW (Delaware)

11. Country or Parish, State

Eddy

NM

12. CHECK THE 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 Initial
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Completion
	☐ 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 must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

*** CONFIDENTIAL ***

BOPCO, L.P. respectfully wishes to report the initial completion of the wellbore as follows:

9/22 - 9/26/11: Clean and level location preparing to frac.

9/27 - 10/9/11: No activity.

10/10/11: Set frac tanks and prepare to frac.

10/11/11: Frac stages 1 thru 4.

10/12 - 10/24/11: No activity. CT unit not available.

10/25 - 10/26/11: MIRU frac equipment.

10/27/11: Frac stages 5 thru 18.

10/28 - 11/21/11: Begin flowback, circulate hole clean, drill out frac plugs, remove frac tree and set Wood Group TD 1750 sub pump. Run in hole w/2-7/8" EUE 8rd 6.5 ppf L80 tubing to 7,165'.

11/22/11: Well ready to produce.

Item 4: BHL Location: SENW; UL E; 1582 FNL 1128 FWL

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

Sandra J. Belt ext. 7379

Title Sr. Regulatory Clerk

Signature

Sandra J. Belt

Date 12/29/2011

ACCEPTED FOR RECORD

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Office

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.

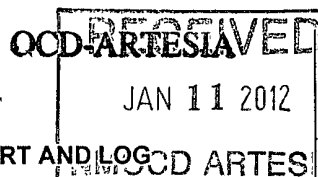
JAN 7 2012

Date

BUREAU OF LAND MANAGEMENT

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)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other		5. Lease Serial No. NMLC068905	
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,		6. If Indian, Allottee or Tribe Name	
Other: _____		7. Unit or CA Agreement Name and No.	
2. Name of Operator BOPCO, L.P.		8. Lease Name and Well No. Poker Lake Unit 315H	
3. Address P O Box 2760 Midland Tx 79702		9. API Well No. 30-015-39166	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SENW; UL E; 1650' FNL; 710' FWL; Lat N32.220506; Lon W103.840325 At top prod. interval reported below At total depth SENW; ULE; Sec. 11; 24S; 30E; 1582' FNL 1128' FWL		10. Field and Pool or Exploratory Poker Lake SW (Delaware)	
14. Date Spudded 08/05/2011		15. Date T.D. Reached 09/19/2011	
16. Date Completed 11/22/2011 ☐ D & A ☒ Ready to Prod.		17. Elevations (DF, RKB, RT, GL)* 3,474' GR	
18. Total Depth: MD 14,819 TVD 7,770		19. Plug Back T.D.: MD TVD	
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CWS/AI; SCBL/GR; CN/GR	
22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit report) Directional Survey? ☐ No ☒ Yes (Submit copy)		23. Casing and Liner Record (Report all strings set in well)	

CONFIDENTIAL

Hole Size	Size/Grade	Wt (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17 1/2	13 3/8 H40	48.0	0	793		725 ExtChem+C	217	Circulated	
12 1/4	9 5/8 J55	40.0	0	4,139		2415 EcoCh	756	Circulated	
8 3/4	7 N80	26.0	0	9,106	4,488	1180 VerCem	198	3,330'	
6 1/8	4 1/2 HCP	11.6	9,029'	14,511					

Accepted for record

NMOCD

JCS 1/19/2012

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 7/8"	7,165'							

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Delaware	4,150'	6,370'	9,148' - 14,762'	Frac Ports		Producing
B)						
C)						
D)						

Depth Interval	Amount and Type of Material
9,148' - 14,762'	138,154 gals. 25# Linear Gel; 1,718,975 lbs. 16/30 Ottawa; 254,320 lbs. Super LC;
	1,090,579 gals 25# Delta Frac

RECLAMATION
DUE 5-22-12

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11/25/11	12/7/11	24	→	583	549	1,656	44.1	0.8058	Wood Group TD 1750 SubPump

Choke Size	Tbg. Press. Flwg SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
W/O	880	840	→	583	549	1,656	942	POW

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					

ACCEPTED FOR RECORD

JAN 7 2012

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (Solid, used for fuel, vented, etc.)

Sold

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
Bell Canyon	4160	5010	Sandstone	Rustler	440
Cherry Canyon	5010	6300	Sandstone	Salt	800
Lo. Cherry Canyon	6300	6370	Sandstone	Base Salt	3910
Brushy Canyon	6370		Not reached	Lamar	4150
				Bell Canyon	4160
				Cherry Canyon	5010
				Lo. Cherry Canyon	6300
				Brushy Canyon	6370

32. Additional remarks (include plugging procedure):

All depths are measured depths. 2-7/8" EUE 8rd 6.5 ppf L-80 tubing.

**7" - Cement did not circulate to surface from DV tool. Legion Brumley w/BLM was notified. Wait 8-10 hours run temp. surface. TOC @ 3,315'. Was told to run cement bond log prior to completion. CBL run and TOC @ 3,330'.

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☒ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Sandra J. Belt ext. 149Title Sr. Regulatory ClerkSignature Sandra J. BeltDate 12/29/2011

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.

(Continued on page 3)

(Form 3160-4, 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 30-015-39166	Pool Code 96047	Pool Name Poker Lake SW (Delaware)
Property Code 306402	Property Name POKER LAKE UNIT	Well Number 315H
GRID No. 260737	Operator Name BOPCO, L.P.	Elevation 3474'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	13	24 S	30 E		1650	NORTH	710	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
E	11	24 S	30 E		1582	NORTH	1128	WEST	EDDY

Dedicated Acres 280	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

PROPOSED BOTTOM HOLE LOCATION Lat - N 32°14'06.46" Long - W 103°51'22.01" NMSPC- N 449585.59 E 647557.72 (NAD-27) SURFACE LOCATION Lat - N 32°13'13.81" Long - W 103°50'24.59" NMSPC- N 444288.433 E 652513.561 (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 _____ Date _____ Printed Name _____ 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 July 7, 2011 Signature GARY L. JONES Professional Surveyor 7977 Certificate No. GARY L. JONES 7977 BASIN SURVEYS 24656

**McVAY DRILLING COMPANY**

P.O. Box 2450
Hobbs, New Mexico 88241
(575) 397-3311
FAX: 39-DRILL

RECEIVED

NOV 7 2011

BOPCO WTD PRODUCTION

Well Name and Num: Poker Lake Unit 315H
Location: Sec. 13, T24S, R30E
Operator: BOPCo
Drilling Contractor: McVay Drilling Company

The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>
0.66	216	0.60	4174	34.80	7581	87.50	8764
0.53	455	0.60	4427	40.19	7643	89.10	8858
0.95	739	0.90	4617	48.80	7737	88.80	8953
0.40	869	1.00	4807	57.50	7861	90.24	9324
0.40	1060	1.30	5092	64.10	7953	89.30	9512
0.50	1252	0.80	5377	68.00	8015	90.40	9794
0.60	1442	0.80	5662	71.80	8078	90.80	9981
0.70	1632	0.80	5947	74.90	8142	90.60	10263
0.70	1917	0.80	6232	76.60	8173	93.20	10826
0.60	2202	0.90	6517	78.40	8204	89.60	10919
0.30	2487	0.80	6889	80.70	8236	92.00	11107
0.60	2772	0.60	7079	84.90	8296	90.50	11295
0.70	3058	3.70	7174	88.20	8359	90.00	11483
0.60	3342	9.70	7269	90.20	8421	89.90	11577
0.80	3627	16.50	7362	92.30	8483	89.70	11765
1.40	3817	24.00	7456	90.00	8577	90.00	11951
0.60	4079	29.40	7519	90.60	8671	95.50	12140

**McVAY DRILLING COMPANY**

P.O. Box 2450
Hobbs, New Mexico 88241
(575) 397-3311
FAX: 39-DRILL

RECEIVED**NOV 7 2011****BOPCO WTD PRODUCTION**

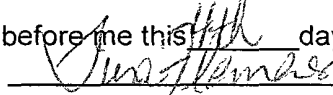
Well Name and Num: Poker Lake Unit 315H
Location: Sec. 13, T24S, R30E
Operator: BOPCo
Drilling Contractor: McVay Drilling Company

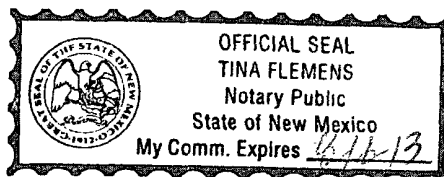
The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>
95.36	12326	90.40	14530
91.30	12422	91.10	14624
90.90	12610	92.60	14717
90.40	12703	92.70	14769
91.90	12798		
89.30	12935		
93.10	13216		
94.20	13404		
94.50	13498		
95.20	13591		
93.00	13685		
93.70	13779		
89.10	13873		
89.80	14155		
89.70	14248		
90.10	14342		
90.40	14436		

By: 

Subscribed and sworn to before me this 4th day of November, 2011


Notary Public, Lea County, New Mexico





BOPCO, L.P.

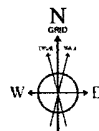
Location Eddy County, NM
Field Poker Lake Unit
Facility Poker Lake Unit No. 315H

Slot No 315H SHL
Well No 315H
Wellbore No 315H PWB

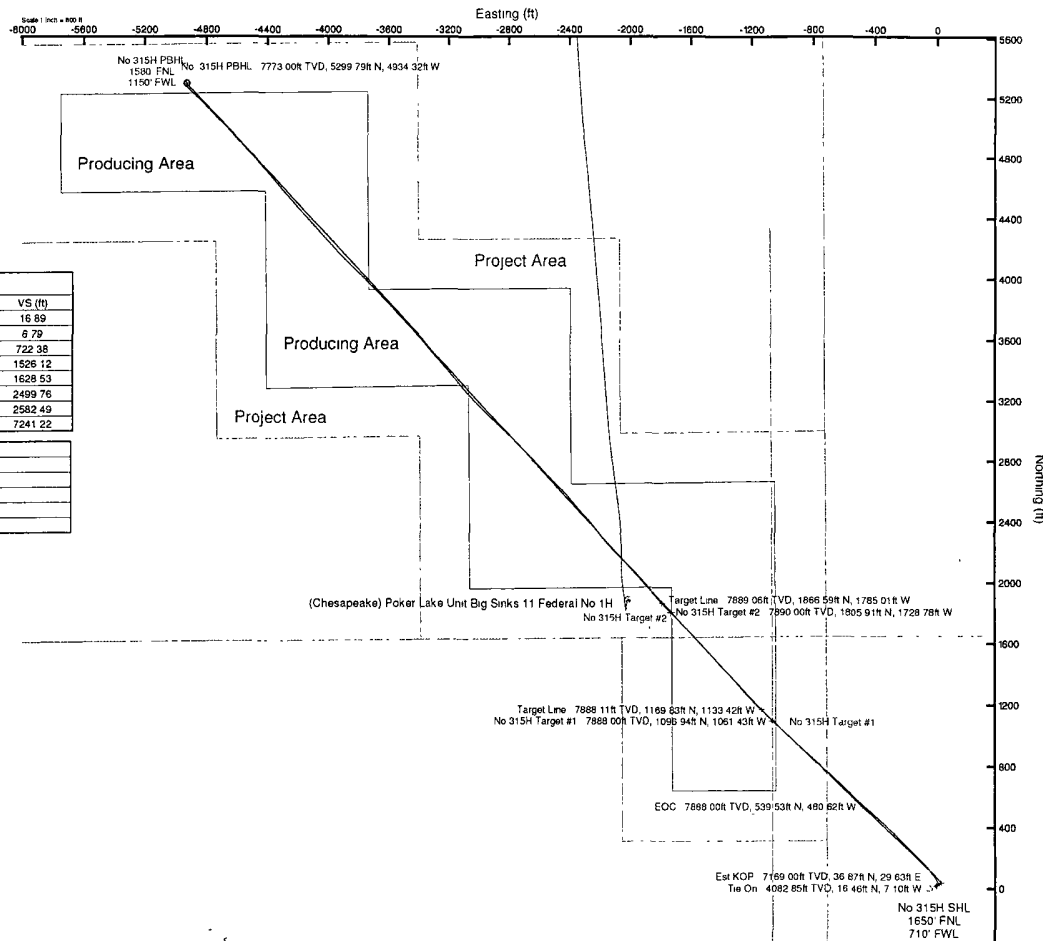
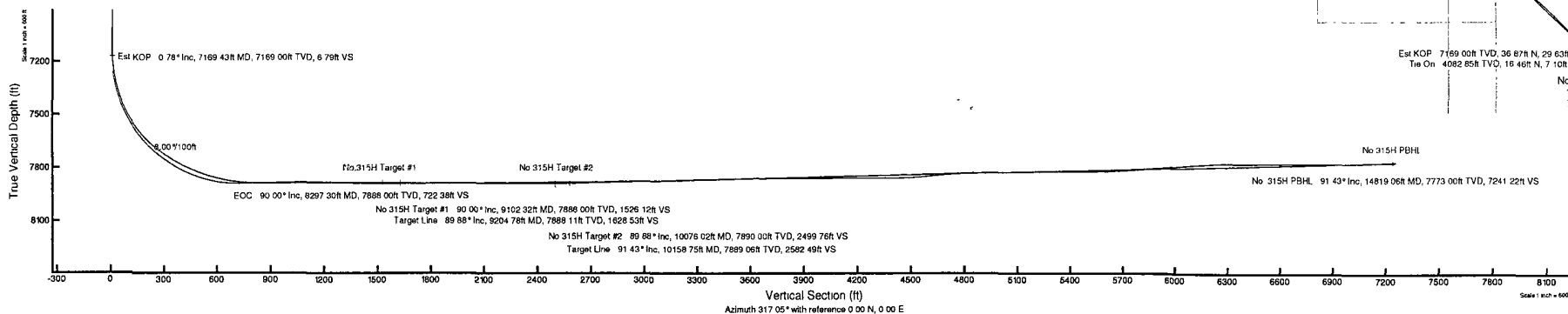


Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	4083.00	0.780	60.950	4082.85	16.46	-7.10	16.89
Est KOP	7169.43	0.780	60.950	7169.00	36.87	29.63	6.79
EOC	8297.30	90.000	313.822	7888.00	539.53	-480.62	722.38
No 315H Target #1	9102.32	90.000	313.822	7888.00	1096.94	-1061.43	1526.12
Target Line	9204.78	89.876	316.894	7888.11	1169.83	-1133.42	1628.53
No 315H Target #2	10076.02	89.876	316.894	7890.00	1805.91	-1728.78	2499.76
Target Line	10158.75	91.427	317.470	7889.06	1866.59	-1785.01	2582.49
No 315H PBHL	14819.06	91.427	317.470	7773.00	5299.79	-4934.32	7241.22

Plot reference wellpath is Plan #1	
True vertical depths are referenced to Rig on No 315H SHL (KB)	Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No 315H SHL (KB)	North Reference: Grid north
Rig on No 315H SHL (KB) to Mean Sea Level: 3497 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot No 315H SHL): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: gentry on 8/12/2011



BGM (1945.0 to 2012.0) Dip 66.14° Field 48630.1 nT
Magnetic North is 7.78 degrees East of True North (at 4/29/2011)
Grid North is 0.26 degrees East of True North
To correct azimuth from True to Grid subtract 0.26 degrees
To correct azimuth from Magnetic to Grid add 7.51 degrees
For example if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.51 = 97.51





Actual Wellpath Report

No. 315H AWP

Page 1 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.315H SHL
Area	Eddy County, NM	Well	No.315H
Field	Poker Lake Unit	Wellbore	No. 315H AWB
Facility	Poker Lake Unit No. 315H		

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	0.999936	Report Generated	9/6/2011 at 7:57:03 AM
Convergence at slot	0.26° East	Database/Source file	WA Midland/No. 315H AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.09	49.95	652513.56	444288.43	32°13'13.814"N	103°50'24.592"W
Facility Reference Pt			652463.61	444288.34	32°13'13.815"N	103°50'25.173"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.315H SHL (KB) to Facility Vertical Datum	3497.00ft
Horizontal Reference Pt	Slot	Rig on No.315H SHL (KB) to Mean Sea Level	3497.00ft
Vertical Reference Pt	Rig on No.315H SHL (KB)	Rig on No.315H SHL (KB) to Mud Line at Slot (No.315H SHL)	3497.00ft
MD Reference Pt	Rig on No.315H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	317.05°



Actual Wellpath Report

No. 315H AWP

Page 2 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.315H SHL
Area	Eddy County, NM	Well	No.315H
Field	Poker Lake Unit	Wellbore	No. 315H AWP
Facility	Poker Lake Unit No. 315H		

WELLPATH DATA (174 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	88.370	0.00	0.00	0.00	0.00	652513.56	444288.43	32°13'13.814"N	103°50'24.592"W	0.00	
19.00	0.000	88.370	19.00	0.00	0.00	0.00	652513.56	444288.43	32°13'13.814"N	103°50'24.592"W	0.00	
100.00	0.190	88.370	100.00	-0.09	0.00	0.13	652513.69	444288.43	32°13'13.814"N	103°50'24.590"W	0.23	
200.00	0.250	66.760	200.00	-0.27	0.09	0.50	652514.06	444288.52	32°13'13.815"N	103°50'24.586"W	0.10	
300.00	0.110	311.050	300.00	-0.25	0.24	0.63	652514.19	444288.67	32°13'13.816"N	103°50'24.585"W	0.31	
400.00	0.240	332.020	400.00	0.05	0.49	0.46	652514.02	444288.92	32°13'13.819"N	103°50'24.587"W	0.14	
500.00	0.270	338.480	500.00	0.47	0.90	0.27	652513.83	444289.33	32°13'13.823"N	103°50'24.589"W	0.04	
600.00	0.180	331.010	600.00	0.84	1.25	0.11	652513.67	444289.68	32°13'13.826"N	103°50'24.591"W	0.09	
700.00	0.280	344.780	700.00	1.21	1.63	-0.03	652513.53	444290.06	32°13'13.830"N	103°50'24.592"W	0.11	
800.00	0.580	344.570	799.99	1.88	2.35	-0.23	652513.33	444290.78	32°13'13.837"N	103°50'24.595"W	0.30	
900.00	0.560	312.430	899.99	2.81	3.17	-0.72	652512.84	444291.60	32°13'13.845"N	103°50'24.600"W	0.32	
1000.00	0.330	294.670	999.99	3.56	3.62	-1.35	652512.21	444292.05	32°13'13.850"N	103°50'24.608"W	0.27	
1100.00	0.550	311.150	1099.98	4.31	4.05	-1.97	652511.59	444292.48	32°13'13.854"N	103°50'24.615"W	0.25	
1200.00	0.490	325.820	1199.98	5.21	4.72	-2.57	652510.99	444293.15	32°13'13.861"N	103°50'24.622"W	0.15	
1300.00	0.500	324.010	1299.97	6.06	5.43	-3.07	652510.49	444293.86	32°13'13.868"N	103°50'24.627"W	0.02	
1400.00	0.570	325.200	1399.97	6.99	6.19	-3.61	652509.95	444294.62	32°13'13.876"N	103°50'24.634"W	0.07	
1500.00	0.530	324.900	1499.97	7.94	6.98	-4.16	652509.40	444295.41	32°13'13.883"N	103°50'24.640"W	0.04	
1600.00	0.650	302.900	1599.96	8.95	7.66	-4.90	652508.66	444296.09	32°13'13.890"N	103°50'24.649"W	0.25	
1700.00	0.600	321.080	1699.95	10.02	8.38	-5.71	652507.86	444296.81	32°13'13.897"N	103°50'24.658"W	0.20	
1800.00	0.600	296.590	1799.95	11.03	9.02	-6.50	652507.06	444297.45	32°13'13.904"N	103°50'24.667"W	0.25	
1900.00	0.450	322.580	1899.94	11.91	9.57	-7.21	652506.35	444298.00	32°13'13.909"N	103°50'24.675"W	0.28	
2000.00	0.460	314.220	1999.94	12.71	10.16	-7.74	652505.83	444298.59	32°13'13.915"N	103°50'24.682"W	0.07	
2100.00	0.150	301.560	2099.94	13.23	10.51	-8.13	652505.43	444298.94	32°13'13.918"N	103°50'24.686"W	0.32	
2200.00	0.230	332.670	2199.94	13.55	10.75	-8.34	652505.22	444299.18	32°13'13.921"N	103°50'24.689"W	0.13	
2300.00	0.210	289.430	2299.94	13.91	10.99	-8.60	652504.96	444299.42	32°13'13.923"N	103°50'24.692"W	0.16	
2400.00	0.360	275.010	2399.94	14.30	11.08	-9.09	652504.47	444299.51	32°13'13.924"N	103°50'24.697"W	0.17	
2500.00	0.300	284.800	2499.94	14.76	11.18	-9.66	652503.91	444299.61	32°13'13.925"N	103°50'24.704"W	0.08	
2600.00	0.540	293.050	2599.93	15.41	11.43	-10.34	652503.22	444299.86	32°13'13.928"N	103°50'24.712"W	0.25	
2700.00	0.230	284.620	2699.93	16.01	11.66	-10.97	652502.59	444300.09	32°13'13.930"N	103°50'24.719"W	0.31	
2800.00	0.550	324.500	2799.93	16.66	12.10	-11.44	652502.12	444300.53	32°13'13.934"N	103°50'24.725"W	0.40	
2900.00	0.450	316.710	2899.92	17.53	12.78	-11.99	652501.57	444301.21	32°13'13.941"N	103°50'24.731"W	0.12	
3000.00	0.540	347.350	2999.92	18.32	13.53	-12.36	652501.20	444301.96	32°13'13.949"N	103°50'24.735"W	0.28	
3100.00	0.580	330.020	3099.92	19.22	14.42	-12.72	652500.84	444302.85	32°13'13.957"N	103°50'24.739"W	0.17	
3200.00	0.500	319.000	3199.91	20.15	15.19	-13.26	652500.30	444303.62	32°13'13.965"N	103°50'24.746"W	0.13	
3300.00	0.600	330.370	3299.91	21.10	15.98	-13.80	652499.76	444304.41	32°13'13.973"N	103°50'24.752"W	0.15	
3400.00	0.560	354.830	3399.90	22.00	16.92	-14.11	652499.45	444305.35	32°13'13.982"N	103°50'24.755"W	0.25	
3500.00	0.830	64.000	3499.90	22.17	17.72	-13.50	652500.06	444306.15	32°13'13.990"N	103°50'24.748"W	0.82	
3600.00	0.620	65.910	3599.89	21.78	18.26	-12.35	652501.21	444306.69	32°13'13.995"N	103°50'24.735"W	0.21	
3700.00	0.530	121.710	3699.88	21.16	18.24	-11.47	652502.09	444306.67	32°13'13.995"N	103°50'24.725"W	0.54	
3800.00	0.790	123.750	3799.88	20.05	17.61	-10.50	652503.06	444306.04	32°13'13.989"N	103°50'24.713"W	0.26	
3900.00	1.010	120.730	3899.87	18.53	16.78	-9.17	652504.39	444305.21	32°13'13.981"N	103°50'24.698"W	0.22	
4000.00	0.520	99.640	3999.86	17.32	16.25	-7.96	652505.60	444304.68	32°13'13.975"N	103°50'24.684"W	0.56	
4083.00	0.780	60.950	4082.85	16.89	16.46	-7.10	652506.46	444304.89	32°13'13.977"N	103°50'24.674"W	0.60	
4174.00	0.600	354.300	4173.85	17.12	17.24	-6.61	652506.96	444305.67	32°13'13.985"N	103°50'24.668"W	0.85	
4237.00	0.400	6.400	4236.84	17.52	17.79	-6.61	652506.95	444306.22	32°13'13.990"N	103°50'24.668"W	0.36	



Actual Wellpath Report

No. 315H AWP

Page 3 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.315H SHL
Area	Eddy County, NM	Well	No.315H
Field	Poker Lake Unit	Wellbore	No. 315H AWB
Facility	Poker Lake Unit No. 315H		

WELLPATH DATA (174 stations)

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
4427.00	0.600	21.100	4426.84	18.39	19.37	-6.18	652507.38	444307.80	32°13'14.006"N	103°50'24.663"W	0.12	
4617.00	0.900	16.800	4616.82	19.58	21.73	-5.39	652508.17	444310.16	32°13'14.029"N	103°50'24.654"W	0.16	
4807.00	1.000	22.400	4806.79	21.02	24.69	-4.33	652509.23	444313.12	32°13'14.059"N	103°50'24.641"W	0.07	
5092.00	1.300	218.300	5091.77	21.57	24.45	-5.39	652508.18	444312.88	32°13'14.056"N	103°50'24.653"W	0.80	
5377.00	0.800	76.100	5376.75	20.11	22.39	-5.46	652508.10	444310.82	32°13'14.036"N	103°50'24.654"W	0.70	
5662.00	0.800	80.000	5661.72	18.06	23.22	-1.57	652511.99	444311.65	32°13'14.044"N	103°50'24.609"W	0.02	
5947.00	0.800	76.100	5946.70	16.01	24.04	2.32	652515.88	444312.47	32°13'14.052"N	103°50'24.564"W	0.02	
6232.00	0.800	82.800	6231.67	13.88	24.77	6.23	652519.79	444313.20	32°13'14.059"N	103°50'24.518"W	0.03	
6517.00	0.900	118.600	6516.64	10.60	23.95	10.17	652523.73	444312.37	32°13'14.051"N	103°50'24.472"W	0.19	
6800.00	0.800	120.900	6799.61	6.59	21.87	13.82	652527.37	444310.30	32°13'14.030"N	103°50'24.430"W	0.04	
6987.00	0.800	138.600	6986.59	4.03	20.22	15.80	652529.36	444308.65	32°13'14.013"N	103°50'24.407"W	0.13	
7018.00	0.900	135.800	7017.59	3.57	19.88	16.11	652529.67	444308.31	32°13'14.010"N	103°50'24.403"W	0.35	
7048.00	0.700	125.100	7047.58	3.16	19.61	16.43	652529.98	444308.04	32°13'14.007"N	103°50'24.400"W	0.83	
7079.00	0.600	115.800	7078.58	2.82	19.43	16.73	652530.29	444307.86	32°13'14.006"N	103°50'24.396"W	0.47	
7111.00	0.400	72.800	7110.58	2.62	19.39	16.98	652530.54	444307.82	32°13'14.005"N	103°50'24.393"W	1.28	
7143.00	1.600	336.100	7142.58	2.99	19.83	16.91	652530.47	444308.26	32°13'14.010"N	103°50'24.394"W	5.29	
7174.00	3.700	329.400	7173.54	4.38	21.09	16.23	652529.78	444309.51	32°13'14.022"N	103°50'24.402"W	6.84	
7206.00	5.700	331.000	7205.43	6.93	23.36	14.93	652528.49	444311.79	32°13'14.045"N	103°50'24.417"W	6.26	
7237.00	7.400	330.600	7236.23	10.36	26.45	13.20	652526.76	444314.88	32°13'14.075"N	103°50'24.437"W	5.49	
7269.00	9.700	330.900	7267.87	14.98	30.60	10.88	652524.44	444319.03	32°13'14.116"N	103°50'24.464"W	7.19	
7301.00	11.900	330.900	7299.30	20.81	35.84	7.96	652521.52	444324.27	32°13'14.168"N	103°50'24.497"W	6.87	
7331.00	14.200	329.800	7328.52	27.40	41.72	4.61	652518.17	444330.15	32°13'14.227"N	103°50'24.536"W	7.71	
7362.00	16.500	328.600	7358.42	35.42	48.77	0.40	652513.96	444337.20	32°13'14.297"N	103°50'24.585"W	7.49	
7394.00	18.800	327.200	7388.91	44.95	56.98	-4.76	652508.80	444345.41	32°13'14.378"N	103°50'24.644"W	7.31	
7425.00	21.500	326.700	7418.01	55.47	65.93	-10.59	652502.97	444354.36	32°13'14.467"N	103°50'24.712"W	8.73	
7456.00	24.000	325.600	7446.59	67.31	75.88	-17.27	652496.29	444364.31	32°13'14.566"N	103°50'24.789"W	8.18	
7488.00	26.700	325.000	7475.51	80.86	87.14	-25.07	652488.49	444375.57	32°13'14.678"N	103°50'24.879"W	8.48	
7519.00	29.400	324.200	7502.87	95.31	99.02	-33.52	652480.05	444387.45	32°13'14.795"N	103°50'24.977"W	8.79	
7551.00	32.300	322.900	7530.34	111.61	112.22	-43.27	652470.29	444400.64	32°13'14.926"N	103°50'25.090"W	9.30	
7581.00	34.800	320.700	7555.34	128.13	125.24	-53.53	652460.03	444413.66	32°13'15.056"N	103°50'25.208"W	9.27	
7612.00	37.400	318.900	7580.38	146.38	139.18	-65.32	652448.24	444427.60	32°13'15.194"N	103°50'25.345"W	9.06	
7643.00	40.100	317.400	7604.56	165.77	153.62	-78.27	652435.29	444442.04	32°13'15.338"N	103°50'25.495"W	9.22	
7674.00	42.400	315.300	7627.87	186.21	168.41	-92.39	652421.18	444456.82	32°13'15.485"N	103°50'25.658"W	8.66	
7705.00	45.900	314.800	7650.11	207.78	183.68	-107.64	652405.93	444472.10	32°13'15.637"N	103°50'25.835"W	11.35	
7737.00	48.800	314.500	7671.78	231.30	200.22	-124.38	652389.19	444488.64	32°13'15.801"N	103°50'26.029"W	9.09	
7768.00	51.300	314.900	7691.69	255.04	216.94	-141.27	652372.30	444505.35	32°13'15.967"N	103°50'26.225"W	8.12	
7799.00	53.600	315.400	7710.58	279.60	234.36	-158.60	652354.97	444522.77	32°13'16.140"N	103°50'26.426"W	7.53	
7830.00	55.500	315.600	7728.56	304.84	252.37	-176.30	652337.27	444540.78	32°13'16.319"N	103°50'26.631"W	6.15	
7861.00	57.500	316.200	7745.67	330.69	270.94	-194.29	652319.28	444559.35	32°13'16.504"N	103°50'26.839"W	6.65	
7893.00	59.600	316.300	7762.36	357.98	290.65	-213.17	652300.41	444579.06	32°13'16.700"N	103°50'27.058"W	6.57	
7922.00	62.100	316.400	7776.49	383.31	308.98	-230.65	652282.93	444597.39	32°13'16.882"N	103°50'27.260"W	8.63	
7953.00	64.100	316.700	7790.51	410.95	329.05	-249.66	652263.92	444617.46	32°13'17.081"N	103°50'27.480"W	6.51	
7985.00	66.400	315.500	7803.91	440.00	349.98	-269.81	652243.77	444638.39	32°13'17.290"N	103°50'27.714"W	7.95	
8015.00	68.000	314.100	7815.53	467.64	369.47	-289.43	652224.15	444657.87	32°13'17.483"N	103°50'27.941"W	6.85	
8047.00	69.800	313.500	7827.05	497.44	390.13	-310.98	652202.60	444678.53	32°13'17.689"N	103°50'28.191"W	5.89	



Actual Wellpath Report

No. 315H AWP

Page 4 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.315H SHL
Area	Eddy County, NM	Well	No.315H
Field	Poker Lake Unit	Wellbore	No. 315H AWB
Facility	Poker Lake Unit No. 315H		

WELLPATH DATA (174 stations)

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
8078.00	71.800	313.500	7837.25	526.66	410.28	-332.21	652181.37	444698.68	32°13'17.889"N	103°50'28.437"W	6.45	
8110.00	73.500	313.100	7846.79	557.14	431.23	-354.44	652159.14	444719.63	32°13'18.097"N	103°50'28.695"W	5.44	
8142.00	74.900	312.900	7855.50	587.85	452.23	-376.96	652136.62	444740.63	32°13'18.306"N	103°50'28.956"W	4.42	
8173.00	76.600	312.700	7863.13	617.81	472.64	-399.01	652114.58	444761.04	32°13'18.509"N	103°50'29.211"W	5.52	
8204.00	78.400	312.400	7869.84	647.98	493.11	-421.30	652092.29	444781.50	32°13'18.713"N	103°50'29.470"W	5.88	
8236.00	80.700	312.100	7875.65	679.34	514.26	-444.60	652068.99	444802.66	32°13'18.923"N	103°50'29.740"W	7.25	
8265.00	82.400	312.300	7879.91	707.92	533.53	-465.84	652047.75	444821.93	32°13'19.115"N	103°50'29.986"W	5.90	
8296.00	84.900	313.300	7883.34	738.65	554.46	-488.45	652025.14	444842.86	32°13'19.323"N	103°50'30.248"W	8.68	
8328.00	86.900	313.300	7885.62	770.49	576.35	-511.68	652001.92	444864.74	32°13'19.541"N	103°50'30.517"W	6.25	
8359.00	88.200	314.000	7886.95	801.41	597.73	-534.09	651979.51	444886.12	32°13'19.753"N	103°50'30.777"W	4.76	
8389.00	89.000	313.400	7887.68	831.35	618.45	-555.77	651957.83	444906.84	32°13'19.959"N	103°50'31.028"W	3.33	
8421.00	90.700	313.600	7887.77	863.29	640.48	-578.98	651934.62	444928.86	32°13'20.178"N	103°50'31.297"W	5.35	
8453.00	91.600	313.800	7887.12	895.23	662.58	-602.11	651911.49	444950.97	32°13'20.398"N	103°50'31.565"W	2.88	
8483.00	92.300	313.800	7886.10	925.16	683.33	-623.75	651889.85	444971.72	32°13'20.604"N	103°50'31.816"W	2.33	
8514.00	91.200	313.300	7885.16	956.09	704.68	-646.21	651867.40	444993.06	32°13'20.816"N	103°50'32.076"W	3.90	
8577.00	90.000	313.000	7884.50	1018.94	747.76	-692.17	651821.44	445036.14	32°13'21.245"N	103°50'32.609"W	1.96	
8671.00	90.600	313.000	7884.00	1112.70	811.87	-760.91	651752.70	445100.25	32°13'21.882"N	103°50'33.406"W	0.64	
8764.00	87.500	313.400	7885.55	1205.47	875.52	-828.69	651684.93	445163.89	32°13'22.515"N	103°50'34.191"W	3.36	
8858.00	89.100	313.300	7888.34	1299.23	940.01	-897.01	651616.61	445228.38	32°13'23.156"N	103°50'34.983"W	1.71	
8953.00	88.800	313.600	7890.08	1394.02	1005.33	-965.97	651547.66	445293.70	32°13'23.806"N	103°50'35.782"W	0.45	
9054.00	90.300	313.500	7890.87	1494.83	1074.92	-1039.16	651474.47	445363.28	32°13'24.498"N	103°50'36.631"W	1.49	
9107.00	90.300	313.500	7890.59	1547.73	1111.40	-1077.61	651436.02	445399.76	32°13'24.861"N	103°50'37.076"W	0.00	
9168.00	90.600	314.400	7890.11	1608.64	1153.73	-1121.52	651392.11	445442.09	32°13'25.281"N	103°50'37.585"W	1.56	
9230.00	88.700	314.200	7890.49	1670.56	1197.03	-1165.89	651347.74	445485.38	32°13'25.712"N	103°50'38.099"W	3.08	
9324.00	90.400	318.100	7891.23	1764.53	1264.80	-1231.00	651282.65	445553.15	32°13'26.385"N	103°50'38.854"W	4.53	
9418.00	91.100	319.000	7890.00	1858.48	1335.25	-1293.21	651220.43	445623.59	32°13'27.085"N	103°50'39.574"W	1.21	
9512.00	89.300	316.000	7889.67	1952.47	1404.55	-1356.71	651156.94	445692.88	32°13'27.774"N	103°50'40.310"W	3.72	
9605.00	91.300	318.200	7889.18	2045.45	1472.66	-1420.01	651093.65	445761.00	32°13'28.451"N	103°50'41.043"W	3.20	
9700.00	90.300	317.400	7887.86	2140.43	1543.03	-1483.81	651029.84	445831.36	32°13'29.150"N	103°50'41.782"W	1.35	
9794.00	90.400	316.600	7887.28	2234.43	1611.78	-1547.92	650965.74	445900.10	32°13'29.833"N	103°50'42.524"W	0.86	
9887.00	90.400	317.600	7886.63	2327.43	1679.90	-1611.23	650902.44	445968.22	32°13'30.510"N	103°50'43.258"W	1.08	
9981.00	90.800	317.700	7885.65	2421.42	1749.37	-1674.55	650839.13	446037.68	32°13'31.200"N	103°50'43.991"W	0.44	
10075.00	90.200	317.800	7884.83	2515.41	1818.94	-1737.75	650775.93	446107.25	32°13'31.892"N	103°50'44.723"W	0.65	
10169.00	90.600	317.900	7884.17	2609.40	1888.63	-1800.82	650712.85	446176.94	32°13'32.584"N	103°50'45.454"W	0.44	
10263.00	90.600	317.100	7883.19	2703.39	1957.93	-1864.33	650649.36	446246.23	32°13'33.273"N	103°50'46.189"W	0.85	
10356.00	91.400	317.900	7881.57	2796.37	2026.49	-1927.15	650586.54	446314.78	32°13'33.954"N	103°50'46.917"W	1.22	
10450.00	90.900	316.000	7879.68	2890.34	2095.16	-1991.30	650522.39	446383.45	32°13'34.636"N	103°50'47.660"W	2.09	
10544.00	90.200	314.000	7878.78	2984.27	2161.62	-2057.76	650455.94	446449.91	32°13'35.297"N	103°50'48.430"W	2.25	
10638.00	91.400	317.700	7877.46	3078.23	2229.05	-2123.21	650390.49	446517.33	32°13'35.967"N	103°50'49.188"W	4.14	
10732.00	91.200	319.700	7875.33	3172.16	2299.65	-2185.24	650328.47	446587.93	32°13'36.669"N	103°50'49.907"W	2.14	
10826.00	93.200	321.000	7871.72	3265.93	2371.96	-2245.17	650268.54	446660.24	32°13'37.387"N	103°50'50.601"W	2.54	
10919.00	89.600	317.100	7869.45	3358.81	2442.16	-2306.08	650207.63	446730.43	32°13'38.084"N	103°50'51.306"W	5.71	
11013.00	92.200	319.900	7867.97	3452.75	2512.54	-2368.35	650145.37	446800.80	32°13'38.783"N	103°50'52.027"W	4.06	
11107.00	92.000	318.000	7864.53	3546.63	2583.38	-2430.04	650083.68	446871.63	32°13'39.487"N	103°50'52.741"W	2.03	
11201.00	89.700	313.900	7863.13	3640.58	2650.91	-2495.37	650018.36	446939.16	32°13'40.158"N	103°50'53.498"W	5.00	



Actual Wellpath Report

No. 315H AWP

Page 5 of 6



REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.315H SHL
Area	Eddy County, NM	Well	No.315H
Field	Poker Lake Unit	Wellbore	No. 315H AWB
Facility	Poker Lake Unit No. 315H		

WELLPATH DATA (174 stations)												
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
11295.00	90.500	316.700	7862.97	3734.52	2717.72	-2561.48	649952.25	447005.97	32°13'40.822"N	103°50'54.265"W	3.10	
11389.00	90.800	316.700	7861.90	3828.51	2786.12	-2625.94	649887.79	447074.37	32°13'41.502"N	103°50'55.011"W	0.32	
11483.00	90.000	315.500	7861.25	3922.50	2853.85	-2691.12	649822.62	447142.09	32°13'42.175"N	103°50'55.766"W	1.53	
11577.00	89.900	315.200	7861.33	4016.46	2920.72	-2757.18	649756.56	447208.96	32°13'42.840"N	103°50'56.532"W	0.34	
11671.00	90.700	315.100	7860.84	4110.40	2987.36	-2823.47	649690.27	447275.60	32°13'43.502"N	103°50'57.300"W	0.86	
11765.00	89.700	314.000	7860.51	4204.31	3053.31	-2890.46	649623.29	447341.53	32°13'44.158"N	103°50'58.077"W	1.58	
11859.00	90.100	315.300	7860.67	4298.23	3119.37	-2957.33	649556.43	447407.59	32°13'44.814"N	103°50'58.851"W	1.45	
11953.00	90.000	316.300	7860.59	4392.20	3186.75	-3022.86	649490.90	447474.97	32°13'45.484"N	103°50'59.611"W	1.07	
12047.00	92.800	318.400	7858.29	4486.16	3255.86	-3086.52	649427.24	447544.07	32°13'46.171"N	103°51'00.348"W	3.72	
12140.00	95.500	319.200	7851.56	4578.86	3325.64	-3147.61	649366.15	447613.85	32°13'46.864"N	103°51'01.056"W	3.03	
12235.00	95.500	319.700	7842.46	4673.34	3397.50	-3209.09	649304.68	447685.70	32°13'47.578"N	103°51'01.768"W	0.52	
12329.00	93.400	319.500	7835.17	4766.96	3468.86	-3269.83	649243.95	447757.06	32°13'48.287"N	103°51'02.471"W	2.24	
12422.00	91.300	317.900	7831.35	4859.83	3538.66	-3331.15	649182.63	447826.86	32°13'48.980"N	103°51'03.181"W	2.84	
12516.00	91.100	316.900	7829.38	4953.81	3607.84	-3394.76	649119.02	447896.03	32°13'49.667"N	103°51'03.918"W	1.08	
12610.00	90.900	317.200	7827.74	5047.80	3676.63	-3458.80	649054.99	447964.82	32°13'50.351"N	103°51'04.660"W	0.38	
12704.00	90.400	316.800	7826.68	5141.79	3745.37	-3522.90	648990.89	448033.56	32°13'51.034"N	103°51'05.403"W	0.68	
12798.00	91.900	318.000	7824.79	5235.76	3814.55	-3586.51	648927.28	448102.73	32°13'51.721"N	103°51'06.140"W	2.04	
12935.00	89.300	316.500	7823.36	5372.74	3915.13	-3679.49	648834.31	448203.31	32°13'52.721"N	103°51'07.217"W	2.19	
13029.00	90.000	315.900	7823.93	5466.73	3982.98	-3744.55	648769.25	448271.14	32°13'53.395"N	103°51'07.970"W	0.98	
13123.00	91.200	314.200	7822.95	5560.66	4049.50	-3810.96	648702.86	448337.66	32°13'54.056"N	103°51'08.740"W	2.21	
13216.00	93.100	315.900	7819.46	5653.53	4115.26	-3876.61	648637.21	448403.42	32°13'54.710"N	103°51'09.501"W	2.74	
13310.00	93.200	317.000	7814.29	5747.38	4183.29	-3941.28	648572.55	448471.44	32°13'55.386"N	103°51'10.250"W	1.17	
13404.00	94.200	318.500	7808.22	5841.17	4252.72	-4004.34	648509.48	448540.87	32°13'56.076"N	103°51'10.981"W	1.92	
13498.00	94.500	319.200	7801.09	5934.86	4323.30	-4066.02	648447.81	448611.44	32°13'56.777"N	103°51'11.695"W	0.81	
13591.00	95.200	318.300	7793.23	6027.48	4392.97	-4127.12	648386.71	448681.11	32°13'57.469"N	103°51'12.403"W	1.22	
13685.00	93.000	318.000	7786.51	6121.22	4462.80	-4189.67	648324.17	448750.94	32°13'58.163"N	103°51'13.127"W	2.36	
13779.00	93.700	318.700	7781.02	6215.03	4532.92	-4252.03	648261.81	448821.05	32°13'58.859"N	103°51'13.850"W	1.05	
13873.00	89.100	319.400	7778.72	6308.92	4603.88	-4313.60	648200.24	448892.00	32°13'59.564"N	103°51'14.563"W	4.95	
13967.00	89.600	319.900	7779.79	6402.82	4675.51	-4374.46	648139.39	448963.63	32°14'00.276"N	103°51'15.267"W	0.75	
14061.00	90.200	318.600	7779.95	6496.74	4746.72	-4435.82	648078.04	449034.83	32°14'00.983"N	103°51'15.978"W	1.52	
14155.00	89.800	318.000	7779.95	6590.72	4816.90	-4498.35	648015.51	449105.01	32°14'01.680"N	103°51'16.702"W	0.77	
14248.00	89.700	317.400	7780.36	6683.71	4885.69	-4560.94	647952.92	449173.79	32°14'02.364"N	103°51'17.427"W	0.65	
14342.00	90.100	316.700	7780.52	6777.71	4954.49	-4624.99	647888.88	449242.59	32°14'03.047"N	103°51'18.169"W	0.86	
14436.00	90.400	316.300	7780.11	6871.71	5022.67	-4689.69	647824.18	449310.77	32°14'03.725"N	103°51'18.919"W	0.53	
14530.00	90.400	316.400	7779.46	6965.70	5090.69	-4754.57	647759.30	449378.78	32°14'04.401"N	103°51'19.671"W	0.11	
14624.00	91.100	316.100	7778.23	7059.68	5158.58	-4819.57	647694.31	449446.67	32°14'05.076"N	103°51'20.424"W	0.81	
14717.00	92.600	315.600	7775.22	7152.61	5225.28	-4884.31	647629.57	449513.36	32°14'05.738"N	103°51'21.174"W	1.70	
14769.00	92.700	315.000	7772.82	7204.53	5262.20	-4920.85	647593.04	449550.28	32°14'06.105"N	103°51'21.598"W	1.17	
14819.00	92.700	315.000	7770.46	7254.44	5297.51	-4956.16	647557.72	449585.59	32°14'06.456"N	103°51'22.007"W	0.00	Proj to Bit



Actual Wellpath Report

No. 315H AWP

Page 6 of 6



REFERENCE WELLPATH IDENTIFICATION

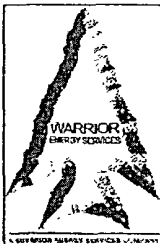
Operator	BOPCO, L.P.	Slot	No.315H SHL
Area	Eddy County, NM	Well	No.315H
Field	Poker Lake Unit	Wellbore	No. 315H AWB
Facility	Poker Lake Unit No. 315H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
No.315H PBHL		7773.00	5299.79	-4934.31	647579.57	449587.87	32°14'06.478"N	103°51'21.753"W	point
No.315H Target #1		7888.00	1096.94	-1061.43	651452.20	445385.30	32°13'24.717"N	103°50'36.889"W	point
No.315H Target #2		7890.00	1805.91	-1728.78	650784.89	446094.22	32°13'31.762"N	103°50'44.619"W	point

WELLPATH COMPOSITION - Ref Wellbore: No. 315H AWB Ref Wellpath: No. 315H AWP

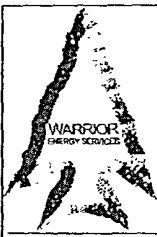
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
19.00	4083.00	Gyrodata standard - Drop gyro or Multi-shot	Gyro	No. 315H AWB
4083.00	14819.00	NaviTrak (Standard)	MWD	No. 315H AWB



WARRIOR
ENERGY SERVICES

Compensated Neutron Gamma Ray Collar Log

Company Well Field County State	Bopco, L.P. Poker Lake Unit #315H Poker Lake NW (Delaware) Eddy New Mexico 19702	Company Bopco.L.P.					
		Well Poker Lake Unit #315H					
		Field Poker Lake NW (Delaware)					
		County Eddy			State New Mexico 19702		
		Location: API # : 1450' FNL & 1830' FEL Section, 13 T 24S Range, 30E SEC TWP RGE					
Permanent Datum		Ground Level		Elevation 3474'		Other Services	
Log Measured From		Kelly Bushing Or 19' APD				Elevation	
Drilling Measured From		Kelly Bushing				K.B. 3493' D.F. 3492' G.L. 3474'	
Date		9-24-2011					
Run Number		One					
Depth Driller		14819'					
Depth Logger		7300'					
Bottom Logged Interval		7300'					
Top Log Interval		Surface					
Open Hole Size		8.750"					
Type Fluid		Water					
Density / Viscosity		N/A					
Max. Recorded Temp.		N/A					
Estimated Cement Top		N/A					
Time Well Ready		7:00am					
Time Logger on Bottom		See Log					
Equipment Number		WL-4740					
Location		Odessa, TX					
Recorded By		Jose Palomares					
Witnessed By		Jace Fuqua					
Borehole Record							
Run Number	Bit	From	To	Size	Weight	From	To
Tubing Record							
Casing Record	Size	Wgt/Ft	Top	Bottom			
Surface String	13 3/8"	48#	Surface	793'			
Prot. String	9 5/8"	40#	Surface	4139'			
Production String	7"	26#	Surface	T.D			
Liner							



WARRIOR
ENERGY SERVICES

Sector Cement Bond Gamma Ray Collar Log

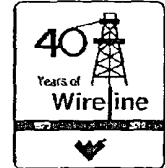
Company Well Field County State	Bopco, L.P. Poker Lake Unit #315H Poker Lake NW (Delaware) Eddy New Mexico 19701	Company Bopco, L.P.		Well Poker Lake Unit #315H		Field Poker Lake NW (Delaware)		County Eddy		State New Mexico		1970	
		Location:				API #:				Other Services			
		1450' FNL & 1830' FEL Section, 13 T 24S Range, 30E											
		SEC TWP RGE								Elevation			
		Permanent Datum				Ground Level				Elevation 3474'			
Log Measured From				Kelly Bushing Or 19' APD				K.B. 3493'					
Drilling Measured From				Kelly Bushing				D.F. 3492'					
								G.L. 3474'					
Date		9-23-2011											
Run Number		One											
Depth Driller		14819'											
Depth Logger		7300'											
Bottom Logged Interval		7300'											
Top Log Interval		Surface											
Open Hole Size		8.750"											
Type Fluid		Water											
Density / Viscosity		N/A											
Max. Recorded Temp.		N/A											
Estimated Cement Top		3330'											
Time Well Ready		11.00am											
Time Logger on Bottom		See Log											
Equipment Number		WL-4740											
Location		Odessa, TX											
Recorded By		Jose Palomares											
Witnessed By		Jace Fuqua											
Borehole Record								Tubing Record					
Run Number	Bit	From	To	Size	Weight	From	To						
Casing Record		Size	Wgt/Ft	Top	Bottom								
Surface String		13 3/8"	48#	Surface	793'								
Prot. String		9 5/8"	40#	Surface	4139'								
Production String		7"	26#	Surface	T D								
Liner													



Weatherford™

COMPACT WELL SHUTTLE BOREHOLE PROFILE LOG

COMPANY BOPCO, L.P.
WELL POKER LAKE UNIT # 315H
FIELD QUAHADA RIDGE, SE (DELAWARE)
PROVINCE/COUNTY EDDY
COUNTRY/STATE U.S.A. / NEW MEXICO
LOCATION SHL: 1450' FNL & 1830' FEL
SEC.13,T24S,R30E



SEC 13	TWP 24S	RGE 30E	Other Services GAMMA RAY LOG
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API Number 30-015-39166
Permit Number

Permanent Datum GL, Elevation 3474 feet
Log Measured From KB
Drilling Measured From KB

Elevations:	feet
KB	3493.00
DF	3492.00
GL	3474.00

Date	07-SEP-2011		
Run Number	ONE		
Depth Driller	14819.00	feet	
Depth Logger	14819.00	feet	
First Reading	14711.00	feet	
Last Reading	7100.00	feet	
Casing Driller	9107.00	feet	
Casing Logger	9107.00	feet	
Bit Size	6.125	inches	
Hole Fluid Type	ALLZAN/ALLPAC		
Density / Viscosity	8.80 lb/USg	34.00 qt/sec	
PH / Fluid Loss	8.00	8.00 ml/30Min	
Sample Source	CIRC. TANK		
Rm @ Measured Temp	0.90 @ 80.0	ohm-m	
Rmf @ Measured Temp	0.67 @ 80.0	ohm-m	
Rmc @ Measured Temp	1.12 @ 80.0	ohm-m	
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	0.056 @129.0	ohm-m	
Time Since Circulation	1 HOUR		
Max Recorded Temp	129.00	deg F	
Equipment Name	COMPACT		
Equipment / Base	18042	4352	
Recorded By	JASON GRIFFIN		
Witnessed By	LARRY LUDWICK		
Witnessed By			