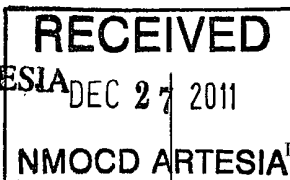


UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

QCD-ARTESIA



FORM 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
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resrv.,
Other: _____

2. Name of Operator
BOPCO, L.P.

3. Address
P O Box 2760 Midland Tx 79702

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

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface SESF,ULP 550'FSL 365' FEL LAT.N32.197514 LONG. W103.860989

At top prod. interval reported below

At total depth ULP Sec. 26;24S;30E 240'FSL 240' FEL

14. Date Spudded 08/17/2011

15. Date T.D. Reached 10/04/2011

16. Date Completed 11/02/2011
☐ D & A ☒ Ready to Prod.

5. Lease Serial No.
NMLC 068430

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
NM NM 71016

8. Lease Name and Well No.
Poker Lake Unit 343H

9. API Well No.
30-015-38667

10. Field and Pool or Exploratory
Nash Draw;Delaware/BS (AVA.SD.)

11. Sec., T., R., M., on Block and
Survey or Area
22;24S;R30E

12. County or Parish
EDDY

13. State
NM

17. Elevations (DF, RKB, RT, GL)*
3395 GL

18. Total Depth: MD 15,303
TVD 7,834

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)
LD/CN/GR; CL; ML;AR/M-CFL/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)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cement Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2	13-3/8 J55	54.5	0	1,230		1200 PC	359	CIRCULATE	
12-1/4	9-5/8 H40	40.0	0	3,995		1400 ECONO	433	CIRCULATE	
8-3/4	7" N80	26.0	0	8,064	4419	670 ECONO	420	CIRCULATE	
6-1/8	4-1/2 HCP	11.6	7,992	15,253					

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8	7,186							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) DELAWARE	3953	6134	8,152-15,246	Frac Ports		Producing
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
8,152-15,245	169,485#'s 25# Linear; 1,586,241 gals 25# Silverstim R21; 2,396,497#'s 16/30 Ottawa; 373,653 #'s 16/30 Super LC

RECLAMATION

DUE 5-2-12

CONFIDENTIAL

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11-07-11	11-13	24	→	571	214	1916	43.6	0.8081	Wood Group TD 1750 Sub Pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
W/O	450	400	→	571	214	1916	375	Producing	

28a Production - Interval B

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

DEC 23 2011

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).	31. Formation (Log) Markers
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.	

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas Depth
Bell Canyon	4010	4900		Rustler	940
Cherry Canyon	4900	6178		Salt	1338
Brushy Canyon	6178	NR		Base/Salt	3740
				Lamar	3953
				Bell Canyon	4010
				Cherry Canyon	4900
				Lo Cherry Canyon	6134
				Brushy Canyon	6178

32. Additional remarks (include plugging procedure):

To be held confidential for the maximum period of time.

RECEIVED
 12/15/11 3:50
 BUREAU OF LAND MGMT
 CARLSBAD FIELD OFFICE

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. 7379 Title Sr. Regulatory Clerk
 Signature Sandra J. Belt Date 12/13/2011

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

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 30-015-38667	Pool Code 47545	Pool Name Nash Draw; Delaware/BS(Avalon Sd.)
Property Code 306402	Property Name POKER LAKE UNIT	Well Number 343H
OGRID No. 260737	Operator Name BOPCO, L.P.	Elevation 3393'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	22	24 S	30 E		550	SOUTH	365	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
P	26	24 S	30 E		240	SOUTH	240	EAST	EDDY

Dedicated Acres 560	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

SURFACE LOCATION Lat - N 32°11'51.05" Long - W 103°51'39.56" NMSPCE- N 435896.698 E 646110.118 (NAD-27) PROPOSED BOTTOM HOLE LOCATION Lat - N 32°10'55.79" Long - W 103°50'35.79" NMSPCE- N 430336.80 E 651614.93 (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. Sandra J. Belt 124311 Signature Date Sandra J. Belt Printed Name sjbelt@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. DECEMBER 16, 2010 Date Surveyed Signature & Seal of Professional Surveyor Certificate No. Gary L. Jones 7977 BASIN SURVEYS 23828
--	--



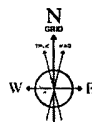
BOPCO, L.P.

Location: Eddy County, NM
Field: Poker Lake Unit
Facility: Poker Lake Unit No. 343H

Slot: No.343H SHL
Well: No.343H
Wellbore: No.343H PWB

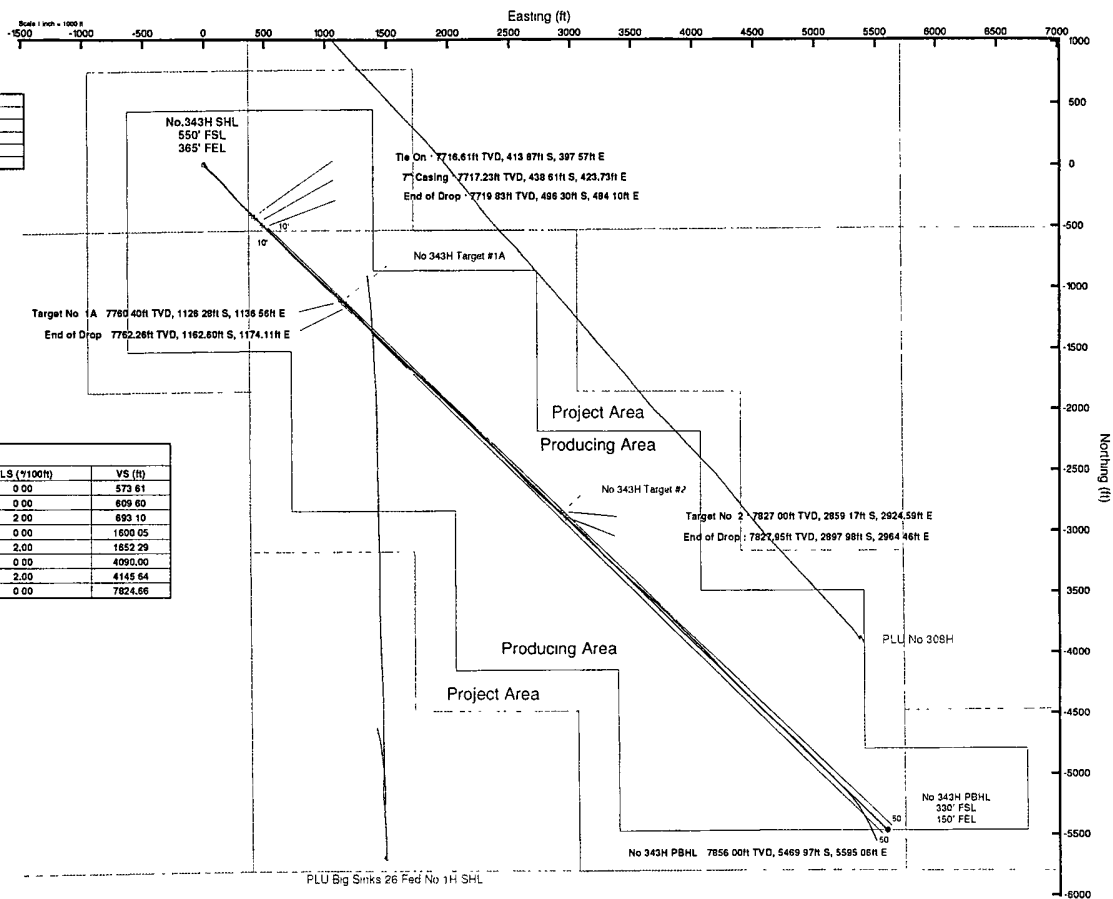
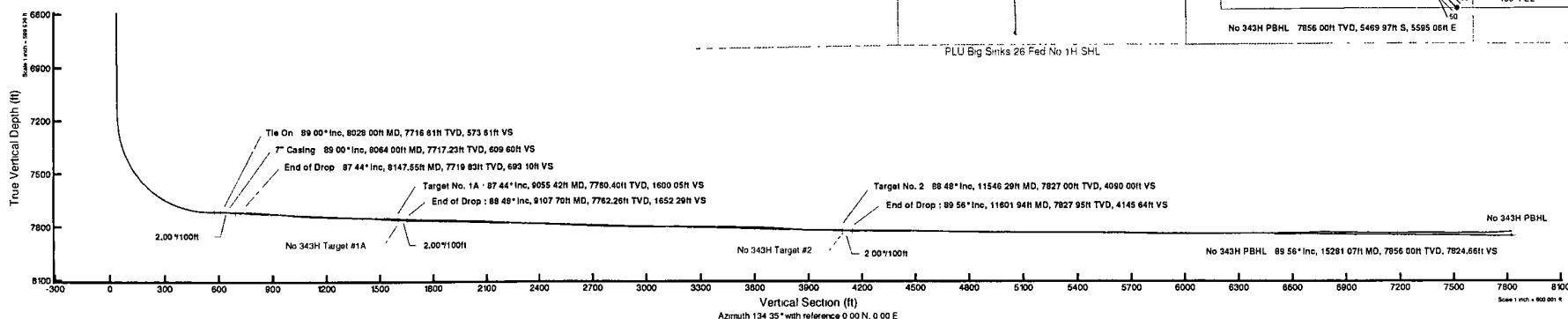


Plot reference wellbore # Plan 8	
True vertical depths are referenced to Rig on No.343H SHL (KB)	Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No.343H SHL (KB)	North Reference: Grid north
Rig on No.343H SHL (KB) to Mean Sea Level: 3418.8 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: No.343H SHL) 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: calphill on 8/10/2011



SGGM (1945 to 2012) Dip: 80.11° Field: 45589 ± NT
Magnetic North is 7.78 degrees East of True North (at 7/1/2011)
Grid North is 0.25 degrees East of True North
To correct azimuth from True to Grid subtract 0.25 degrees
To correct azimuth from Magnetic to Grid add 7.50 degrees
For example if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.50 = 97.50

Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	8028.00	89.000	133.400	7716.61	-413.87	397.57	573.61
7" Casing	8064.00	89.000	133.400	7717.23	-438.61	423.73	609.60
End of Drop	8147.55	87.439	133.998	7719.83	-498.30	484.10	693.10
Target No. 1A	9055.42	87.439	133.998	7760.40	-1126.20	1136.58	1600.05
End of Drop	9107.70	88.479	134.104	7762.28	-1162.60	1174.11	1652.29
Target No. 2	11546.29	88.479	134.104	7827.00	-2859.17	2924.59	4090.00
End of Drop	11601.94	89.563	134.355	7827.95	-2897.98	2964.46	4145.64
No.343H PBHL	15281.07	89.563	134.355	7856.00	-5469.97	5595.06	7824.66





Actual Wellpath Report

No. 343H AWP

Page 1 of 7



BAKER HUGHES

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.343H SHL
Area	Eddy County, NM	Well	No.343H
Field	Poker Lake Unit	Wellbore	No. 343H AWB
Facility	Poker Lake Unit No. 343H		

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	0.999934	Report Generated	9/26/2011 at 8:23:27 AM
Convergence at slot	0.25° East	Database/Source file	WA Midland/No. 343H_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	646110.12	435896.70	32°11'51.054"N	103°51'39.561"W
Facility Reference Pt			646110.12	435896.70	32°11'51.054"N	103°51'39.561"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.343H SHL (KB) to Facility Vertical Datum	3418.40ft
Horizontal Reference Pt	Slot	Rig on No.343H SHL (KB) to Mean Sea Level	3418.40ft
Vertical Reference Pt	Rig on No.343H SHL (KB)	Rig on No.343H SHL (KB) to Mud Line at Slot (No.343H SHL)	3418.40ft
MD Reference Pt	Rig on No.343H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	134.35°



Actual Wellpath Report

No. 343H AWP

Page 2 of 7



REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.343H SHL
Area	Eddy County, NM	Well	No.343H
Field	Poker Lake Unit	Wellbore	No. 343H AWP
Facility	Poker Lake Unit No. 343H		

WELLPATH DATA (220 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	269.330	0.00	0.00	0.00	0.00	646110.12	435896.70	32°11'51.054"N	103°51'39.561"W	0.00	
22.90	0.000	269.330	22.90	0.00	0.00	0.00	646110.12	435896.70	32°11'51.054"N	103°51'39.561"W	0.00	
100.00	0.170	269.330	100.00	-0.08	0.00	-0.11	646110.01	435896.70	32°11'51.054"N	103°51'39.563"W	0.22	
200.00	0.110	266.580	200.00	-0.25	-0.01	-0.36	646109.76	435896.69	32°11'51.054"N	103°51'39.566"W	0.06	
300.00	0.050	293.520	300.00	-0.36	0.00	-0.49	646109.63	435896.70	32°11'51.054"N	103°51'39.567"W	0.07	
400.00	0.170	312.210	400.00	-0.54	0.12	-0.64	646109.48	435896.82	32°11'51.055"N	103°51'39.569"W	0.12	
500.00	0.440	319.540	500.00	-1.08	0.51	-1.00	646109.12	435897.21	32°11'51.059"N	103°51'39.573"W	0.27	
600.00	0.380	327.830	600.00	-1.78	1.08	-1.43	646108.69	435897.78	32°11'51.064"N	103°51'39.578"W	0.08	
700.00	0.400	329.650	699.99	-2.44	1.67	-1.78	646108.34	435898.37	32°11'51.070"N	103°51'39.582"W	0.02	
800.00	0.190	9.070	799.99	-2.87	2.13	-1.93	646108.19	435898.83	32°11'51.075"N	103°51'39.584"W	0.28	
900.00	0.090	90.350	899.99	-2.91	2.29	-1.83	646108.29	435898.99	32°11'51.076"N	103°51'39.583"W	0.20	
1000.00	0.320	63.170	999.99	-2.76	2.42	-1.50	646108.62	435899.12	32°11'51.078"N	103°51'39.579"W	0.24	
1100.00	0.770	77.460	1099.99	-2.31	2.69	-0.59	646109.53	435899.39	32°11'51.080"N	103°51'39.568"W	0.47	
1200.00	1.050	81.910	1199.97	-1.38	2.97	0.97	646111.09	435899.67	32°11'51.083"N	103°51'39.550"W	0.29	
1300.00	1.070	83.050	1299.96	-0.24	3.21	2.80	646112.92	435899.91	32°11'51.085"N	103°51'39.529"W	0.03	
1400.00	1.200	79.830	1399.94	0.95	3.51	4.76	646114.88	435900.21	32°11'51.088"N	103°51'39.506"W	0.14	
1500.00	0.570	123.100	1499.93	2.05	3.42	6.21	646116.33	435900.12	32°11'51.087"N	103°51'39.489"W	0.88	
1600.00	0.690	147.440	1599.92	3.12	2.64	6.95	646117.07	435899.34	32°11'51.080"N	103°51'39.480"W	0.29	
1700.00	1.100	154.790	1699.91	4.61	1.27	7.68	646117.80	435897.96	32°11'51.066"N	103°51'39.472"W	0.42	
1800.00	1.000	151.170	1799.89	6.34	-0.37	8.51	646118.63	435896.33	32°11'51.050"N	103°51'39.462"W	0.12	
1900.00	0.990	157.180	1899.87	7.97	-1.93	9.27	646119.39	435894.77	32°11'51.034"N	103°51'39.454"W	0.10	
2000.00	0.800	158.790	1999.86	9.41	-3.38	9.85	646119.97	435893.32	32°11'51.020"N	103°51'39.447"W	0.19	
2100.00	1.040	178.150	2099.85	10.70	-4.93	10.14	646120.26	435891.77	32°11'51.004"N	103°51'39.444"W	0.39	
2200.00	1.170	179.960	2199.83	12.07	-6.86	10.17	646120.29	435889.84	32°11'50.985"N	103°51'39.443"W	0.13	
2300.00	0.170	221.700	2299.82	12.79	-7.99	10.07	646120.19	435888.71	32°11'50.974"N	103°51'39.445"W	0.05	
2400.00	0.020	55.380	2399.82	12.80	-8.09	9.98	646120.10	435888.61	32°11'50.973"N	103°51'39.446"W	0.19	
2500.00	0.050	206.670	2499.82	12.81	-8.12	9.98	646120.10	435888.58	32°11'50.973"N	103°51'39.446"W	0.07	
2600.00	0.190	253.510	2599.82	12.75	-8.21	9.80	646119.92	435888.49	32°11'50.972"N	103°51'39.448"W	0.16	
2700.00	0.100	244.910	2699.82	12.63	-8.29	9.56	646119.68	435888.41	32°11'50.971"N	103°51'39.451"W	0.09	
2800.00	0.180	165.850	2799.82	12.74	-8.48	9.52	646119.64	435888.22	32°11'50.969"N	103°51'39.451"W	0.19	
2900.00	0.220	147.110	2899.82	13.06	-8.80	9.66	646119.78	435887.90	32°11'50.966"N	103°51'39.449"W	0.08	
3000.00	0.300	148.280	2999.82	13.50	-9.18	9.91	646120.02	435887.52	32°11'50.962"N	103°51'39.447"W	0.08	
3100.00	0.540	144.550	3099.82	14.22	-9.79	10.32	646120.44	435886.91	32°11'50.956"N	103°51'39.442"W	0.24	
3200.00	0.800	140.040	3199.81	15.38	-10.71	11.04	646121.16	435886.00	32°11'50.947"N	103°51'39.433"W	0.27	
3300.00	0.970	138.610	3299.80	16.92	-11.88	12.05	646122.17	435884.83	32°11'50.936"N	103°51'39.422"W	0.17	
3400.00	0.650	127.650	3399.79	18.32	-12.86	13.06	646123.17	435883.84	32°11'50.926"N	103°51'39.410"W	0.35	
3526.80	0.650	128.070	3526.58	19.75	-13.74	14.19	646124.31	435882.96	32°11'50.917"N	103°51'39.397"W	0.00	
3620.10	0.680	135.150	3619.87	20.83	-14.46	15.00	646125.12	435882.24	32°11'50.910"N	103°51'39.388"W	0.09	
3713.40	0.950	143.280	3713.17	22.15	-15.47	15.85	646125.97	435881.23	32°11'50.900"N	103°51'39.378"W	0.31	
3806.70	1.070	146.450	3806.45	23.77	-16.82	16.79	646126.91	435879.88	32°11'50.887"N	103°51'39.367"W	0.14	
3900.00	0.790	144.240	3899.74	25.25	-18.07	17.65	646127.77	435878.64	32°11'50.874"N	103°51'39.357"W	0.30	
3993.30	0.450	134.140	3993.03	26.25	-18.84	18.29	646128.41	435877.86	32°11'50.866"N	103°51'39.350"W	0.38	
4086.60	0.380	132.750	4086.33	26.93	-19.31	18.78	646128.90	435877.39	32°11'50.862"N	103°51'39.344"W	0.08	
4179.80	0.400	128.560	4179.53	27.56	-19.72	19.26	646129.38	435876.98	32°11'50.858"N	103°51'39.338"W	0.04	
4273.10	0.370	125.220	4272.83	28.18	-20.10	19.76	646129.88	435876.60	32°11'50.854"N	103°51'39.332"W	0.04	



Actual Wellpath Report

No. 343H AWP

Page 3 of 7



REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.343H SHL
Area	Eddy County, NM	Well	No.343H
Field	Poker Lake Unit	Wellbore	No. 343H AWP
Facility	Poker Lake Unit No. 343H		

WELLPATH DATA (220 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
4366.40	0.350	123.780	4366.12	28.76	-20.43	20.25	646130.36	435876.27	32°11'50.851"N	103°51'39.327"W	0.02	
4459.70	0.290	124.750	4459.42	29.27	-20.72	20.68	646130.80	435875.98	32°11'50.848"N	103°51'39.322"W	0.06	
4553.00	0.170	127.190	4552.72	29.64	-20.94	20.98	646131.10	435875.76	32°11'50.846"N	103°51'39.318"W	0.13	
4646.30	0.140	103.510	4646.02	29.88	-21.05	21.20	646131.32	435875.65	32°11'50.844"N	103°51'39.316"W	0.08	
4739.60	0.220	79.250	4739.32	30.08	-21.04	21.49	646131.61	435875.66	32°11'50.845"N	103°51'39.312"W	0.12	
4832.90	0.430	62.080	4832.62	30.29	-20.85	21.97	646132.09	435875.85	32°11'50.846"N	103°51'39.307"W	0.25	
4926.20	0.440	60.570	4925.92	30.49	-20.51	22.60	646132.71	435876.19	32°11'50.850"N	103°51'39.300"W	0.02	
5019.50	0.420	59.070	5019.21	30.68	-20.15	23.20	646133.32	435876.55	32°11'50.853"N	103°51'39.292"W	0.02	
5112.70	0.360	50.490	5112.41	30.80	-19.79	23.72	646133.84	435876.91	32°11'50.857"N	103°51'39.286"W	0.09	
5206.00	0.290	41.910	5205.71	30.82	-19.43	24.10	646134.22	435877.27	32°11'50.860"N	103°51'39.282"W	0.09	
5299.30	0.270	35.190	5299.01	30.77	-19.08	24.39	646134.51	435877.63	32°11'50.864"N	103°51'39.279"W	0.04	
5392.60	0.270	32.470	5392.31	30.69	-18.71	24.63	646134.75	435877.99	32°11'50.867"N	103°51'39.276"W	0.01	
5485.90	0.260	33.730	5485.61	30.61	-18.35	24.87	646134.99	435878.35	32°11'50.871"N	103°51'39.273"W	0.01	
5579.20	0.200	28.100	5578.91	30.52	-18.03	25.06	646135.18	435878.67	32°11'50.874"N	103°51'39.271"W	0.07	
5672.50	0.120	14.890	5672.21	30.43	-17.79	25.16	646135.28	435878.91	32°11'50.877"N	103°51'39.269"W	0.09	
5765.80	0.080	356.830	5765.51	30.34	-17.63	25.19	646135.30	435879.07	32°11'50.878"N	103°51'39.269"W	0.05	
5859.10	0.060	48.750	5858.81	30.29	-17.53	25.22	646135.34	435879.17	32°11'50.879"N	103°51'39.269"W	0.07	
5952.40	0.130	104.310	5952.11	30.39	-17.53	25.36	646135.48	435879.17	32°11'50.879"N	103°51'39.267"W	0.12	
6045.60	0.220	129.350	6045.31	30.66	-17.67	25.60	646135.72	435879.03	32°11'50.878"N	103°51'39.264"W	0.12	
6138.90	0.340	163.200	6138.60	31.08	-18.05	25.82	646135.94	435878.65	32°11'50.874"N	103°51'39.262"W	0.21	
6232.20	0.430	180.900	6231.90	31.56	-18.66	25.89	646136.01	435878.04	32°11'50.868"N	103°51'39.261"W	0.16	
6325.50	0.550	189.190	6325.20	32.06	-19.45	25.82	646135.93	435877.25	32°11'50.860"N	103°51'39.262"W	0.15	
6418.80	0.580	204.260	6418.49	32.48	-20.33	25.55	646135.67	435876.38	32°11'50.851"N	103°51'39.265"W	0.16	
6512.10	0.640	211.720	6511.79	32.75	-21.20	25.08	646135.20	435875.50	32°11'50.843"N	103°51'39.271"W	0.11	
6605.40	0.660	212.510	6605.08	32.98	-22.10	24.52	646134.64	435874.61	32°11'50.834"N	103°51'39.277"W	0.02	
6698.70	0.850	215.500	6698.38	33.20	-23.11	23.83	646133.95	435873.59	32°11'50.824"N	103°51'39.285"W	0.21	
6792.00	0.840	213.380	6791.67	33.43	-24.25	23.05	646133.17	435872.45	32°11'50.813"N	103°51'39.294"W	0.04	
6885.30	0.940	212.590	6884.95	33.72	-25.46	22.26	646132.38	435871.24	32°11'50.801"N	103°51'39.304"W	0.11	
6978.50	1.000	202.390	6978.14	34.18	-26.86	21.54	646131.66	435869.84	32°11'50.787"N	103°51'39.312"W	0.20	
7071.80	0.930	189.250	7071.43	34.92	-28.36	21.11	646131.23	435868.34	32°11'50.772"N	103°51'39.317"W	0.25	
7102.80	0.930	186.040	7102.42	35.22	-28.86	21.04	646131.16	435867.84	32°11'50.767"N	103°51'39.318"W	0.17	
7158.00	1.300	133.500	7157.61	36.12	-29.73	21.45	646131.57	435866.97	32°11'50.759"N	103°51'39.313"W	1.89	
7189.00	3.800	137.800	7188.58	37.50	-30.74	22.39	646132.51	435865.96	32°11'50.749"N	103°51'39.302"W	8.08	
7220.00	5.900	134.900	7219.47	40.12	-32.62	24.21	646134.33	435864.08	32°11'50.730"N	103°51'39.281"W	6.82	
7251.00	8.100	132.500	7250.24	43.90	-35.22	26.95	646137.07	435861.48	32°11'50.704"N	103°51'39.250"W	7.16	
7283.00	10.700	130.900	7281.80	49.12	-38.69	30.86	646140.98	435858.01	32°11'50.669"N	103°51'39.204"W	8.17	
7314.00	13.600	130.900	7312.11	55.63	-42.96	35.79	646145.91	435853.74	32°11'50.627"N	103°51'39.147"W	9.35	
7345.00	16.500	130.800	7342.04	63.66	-48.23	41.88	646152.00	435848.48	32°11'50.575"N	103°51'39.077"W	9.36	
7376.00	19.500	130.800	7371.52	73.22	-54.49	49.13	646159.25	435842.22	32°11'50.512"N	103°51'38.992"W	9.68	
7407.00	22.900	130.700	7400.42	84.41	-61.80	57.62	646167.74	435834.90	32°11'50.440"N	103°51'38.894"W	10.97	
7439.00	26.100	130.700	7429.53	97.65	-70.46	67.68	646177.80	435826.25	32°11'50.354"N	103°51'38.777"W	10.00	
7470.00	29.500	132.200	7456.95	112.09	-80.03	78.51	646188.62	435816.67	32°11'50.258"N	103°51'38.652"W	11.20	
7501.00	32.700	133.600	7483.49	128.09	-90.94	90.23	646200.34	435805.77	32°11'50.150"N	103°51'38.516"W	10.58	
7533.00	36.100	134.900	7509.89	146.17	-103.56	103.17	646213.28	435793.15	32°11'50.024"N	103°51'38.366"W	10.87	
7564.00	39.400	135.400	7534.40	165.14	-117.01	116.55	646226.66	435779.70	32°11'49.891"N	103°51'38.211"W	10.69	



Actual Wellpath Report

No. 343H AWP

Page 4 of 7



REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.343H SHL
Area	Eddy County, NM	Well	No.343H
Field	Poker Lake Unit	Wellbore	No. 343H AWB
Facility	Poker Lake Unit No. 343H		

WELLPATH DATA (220 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
7594.00	42.900	135.600	7556.98	184.87	-131.09	130.39	646240.50	435765.62	32°11'49.751"N	103°51'38.051"W	11.67	
7625.00	46.600	136.300	7579.00	206.69	-146.78	145.55	646255.66	435749.93	32°11'49.595"N	103°51'37.875"W	12.04	
7656.00	49.900	137.500	7599.64	229.79	-163.66	161.35	646271.46	435733.05	32°11'49.427"N	103°51'37.692"W	11.03	
7687.00	53.500	138.900	7618.85	254.05	-181.80	177.56	646287.66	435714.91	32°11'49.247"N	103°51'37.504"W	12.14	
7718.00	56.900	139.600	7636.54	279.41	-201.08	194.17	646304.27	435695.63	32°11'49.055"N	103°51'37.312"W	11.12	
7749.00	60.400	139.500	7652.66	305.77	-221.23	211.34	646321.45	435675.49	32°11'48.855"N	103°51'37.113"W	11.29	
7781.00	64.400	138.800	7667.49	334.03	-242.67	229.89	646339.99	435654.04	32°11'48.642"N	103°51'36.899"W	12.65	
7812.00	68.400	138.600	7679.89	362.35	-264.01	248.63	646358.74	435632.71	32°11'48.430"N	103°51'36.682"W	12.92	
7843.00	71.800	137.800	7690.44	391.43	-285.73	268.06	646378.16	435610.99	32°11'48.215"N	103°51'36.457"W	11.23	
7873.00	75.000	136.200	7699.01	420.14	-306.75	287.67	646397.77	435589.97	32°11'48.006"N	103°51'36.230"W	11.83	
7905.00	78.400	134.800	7706.38	451.27	-328.96	309.49	646419.59	435567.76	32°11'47.785"N	103°51'35.977"W	11.45	
7936.00	82.300	133.800	7711.57	481.82	-350.30	331.36	646441.46	435546.43	32°11'47.573"N	103°51'35.723"W	12.98	
7967.00	85.900	134.300	7714.76	512.66	-371.74	353.52	646463.62	435524.99	32°11'47.360"N	103°51'35.467"W	11.72	
7998.00	89.100	133.600	7716.11	543.62	-393.23	375.82	646485.91	435503.50	32°11'47.146"N	103°51'35.208"W	10.57	
8028.00	89.000	133.400	7716.61	573.61	-413.87	397.57	646507.67	435482.85	32°11'46.941"N	103°51'34.956"W	0.75	
8081.00	89.000	133.400	7717.53	626.60	-450.28	436.08	646546.17	435446.45	32°11'46.579"N	103°51'34.510"W	0.00	
8107.00	87.800	135.100	7718.26	652.59	-468.42	454.69	646564.78	435428.31	32°11'46.399"N	103°51'34.294"W	8.00	
8138.00	88.100	135.700	7719.37	683.56	-490.48	476.44	646586.53	435406.26	32°11'46.179"N	103°51'34.042"W	2.16	
8233.00	89.600	135.300	7721.27	778.52	-558.22	543.02	646653.10	435338.52	32°11'45.506"N	103°51'33.271"W	1.63	
8297.00	85.800	135.200	7723.84	842.45	-603.63	588.03	646698.11	435293.11	32°11'45.055"N	103°51'32.750"W	5.94	
8359.00	86.200	134.900	7728.17	904.29	-647.40	631.72	646741.80	435249.35	32°11'44.620"N	103°51'32.243"W	0.81	
8423.00	84.900	135.800	7733.13	968.09	-692.79	676.56	646786.64	435203.96	32°11'44.169"N	103°51'31.724"W	2.47	
8486.00	84.500	134.700	7738.95	1030.81	-737.34	720.73	646830.80	435159.41	32°11'43.726"N	103°51'31.212"W	1.85	
8550.00	86.300	133.600	7744.08	1094.60	-781.77	766.50	646876.57	435114.98	32°11'43.284"N	103°51'30.682"W	3.29	
8614.00	89.900	133.800	7746.20	1158.55	-825.96	812.73	646922.80	435070.80	32°11'42.845"N	103°51'30.146"W	5.63	
8677.00	87.300	132.200	7747.74	1221.51	-868.91	858.79	646968.85	435027.85	32°11'42.418"N	103°51'29.612"W	4.85	
8740.00	90.100	133.300	7749.17	1284.46	-911.65	905.03	647015.09	434985.11	32°11'41.993"N	103°51'29.076"W	4.77	
8804.00	88.600	132.600	7749.90	1348.43	-955.26	951.87	647061.93	434941.51	32°11'41.560"N	103°51'28.534"W	2.59	
8868.00	87.900	132.600	7751.85	1412.37	-998.56	998.96	647109.01	434898.21	32°11'41.129"N	103°51'27.988"W	1.09	
8930.00	89.900	133.300	7753.04	1474.34	-1040.79	1044.33	647154.38	434855.98	32°11'40.709"N	103°51'27.462"W	3.42	
8994.00	89.000	132.800	7753.66	1538.32	-1084.48	1091.10	647201.14	434812.30	32°11'40.275"N	103°51'26.920"W	1.61	
9059.00	87.400	134.200	7755.70	1603.28	-1129.20	1138.22	647248.26	434767.58	32°11'39.830"N	103°51'26.374"W	3.27	
9122.00	87.500	134.500	7758.50	1666.21	-1173.19	1183.23	647293.27	434723.59	32°11'39.393"N	103°51'25.853"W	0.50	
9186.00	88.500	135.100	7760.74	1730.17	-1218.26	1228.61	647338.65	434678.52	32°11'38.945"N	103°51'25.327"W	1.82	
9249.00	89.600	134.300	7761.78	1793.16	-1262.57	1273.38	647383.42	434634.22	32°11'38.504"N	103°51'24.808"W	2.16	
9313.00	87.800	135.300	7763.23	1857.14	-1307.65	1318.78	647428.81	434589.14	32°11'38.056"N	103°51'24.282"W	3.22	
9375.00	88.100	135.900	7765.45	1919.08	-1351.92	1362.13	647472.16	434544.88	32°11'37.616"N	103°51'23.780"W	1.08	
9439.00	88.900	136.700	7767.13	1983.02	-1398.17	1406.33	647516.36	434498.63	32°11'37.157"N	103°51'23.268"W	1.77	
9502.00	89.900	136.500	7767.79	2045.97	-1443.94	1449.62	647559.64	434452.86	32°11'36.702"N	103°51'22.767"W	1.62	
9566.00	86.400	134.500	7769.85	2109.91	-1489.56	1494.44	647604.46	434407.24	32°11'36.249"N	103°51'22.248"W	6.30	
9629.00	87.100	134.800	7773.42	2172.81	-1533.76	1539.19	647649.20	434363.04	32°11'35.809"N	103°51'21.729"W	1.21	
9693.00	86.300	133.500	7777.11	2236.70	-1578.26	1585.03	647695.04	434318.54	32°11'35.367"N	103°51'21.198"W	2.38	
9756.00	86.900	132.900	7780.84	2299.58	-1621.31	1630.88	647740.89	434275.50	32°11'34.939"N	103°51'20.667"W	1.35	
9820.00	87.800	131.400	7783.80	2363.46	-1664.21	1678.27	647788.28	434232.60	32°11'34.512"N	103°51'20.118"W	2.73	
9883.00	88.800	129.600	7785.67	2426.28	-1705.11	1726.16	647836.16	434191.71	32°11'34.105"N	103°51'19.562"W	3.27	



Actual Wellpath Report

No. 343H AWP

Page 5 of 7



BAKER HUGHES

REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.343H SHL
Area	Eddy County, NM	Well	No.343H
Field	Poker Lake Unit	Wellbore	No. 343H AWB
Facility	Poker Lake Unit No. 343H		

WELLPATH DATA (220 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
9948.00	87.900	129.500	7787.54	2491.03	-1746.48	1776.25	647886.25	434150.34	32°11'33.694"N	103°51'18.982"W	1.39	
10011.00	86.300	131.100	7790.73	2553.79	-1787.17	1824.24	647934.23	434109.65	32°11'33.289"N	103°51'18.425"W	3.59	
10074.00	87.100	133.500	7794.36	2616.64	-1829.50	1870.75	647980.75	434067.33	32°11'32.868"N	103°51'17.886"W	4.01	
10139.00	88.500	134.200	7796.85	2681.58	-1874.50	1917.59	648027.58	434022.33	32°11'32.421"N	103°51'17.344"W	2.41	
10204.00	88.700	133.800	7798.44	2746.56	-1919.63	1964.34	648074.32	433977.20	32°11'31.972"N	103°51'16.802"W	0.69	
10266.00	89.300	133.600	7799.52	2808.55	-1962.46	2009.15	648119.13	433934.37	32°11'31.546"N	103°51'16.283"W	1.02	
10331.00	89.000	132.800	7800.49	2873.53	-2006.95	2056.53	648166.51	433889.88	32°11'31.104"N	103°51'15.734"W	1.31	
10396.00	89.700	134.300	7801.23	2938.52	-2051.73	2103.64	648213.61	433845.11	32°11'30.659"N	103°51'15.188"W	2.55	
10458.00	88.700	134.400	7802.09	3000.51	-2095.07	2147.97	648257.94	433801.77	32°11'30.228"N	103°51'14.674"W	1.62	
10521.00	91.100	134.900	7802.20	3063.50	-2139.34	2192.78	648302.75	433757.51	32°11'29.788"N	103°51'14.155"W	3.89	
10585.00	90.900	134.100	7801.08	3127.49	-2184.19	2238.42	648348.39	433712.66	32°11'29.342"N	103°51'13.626"W	1.29	
10649.00	89.500	136.000	7800.86	3191.48	-2229.48	2283.63	648393.60	433667.37	32°11'28.892"N	103°51'13.103"W	3.69	
10713.00	89.300	136.200	7801.53	3255.45	-2275.59	2328.01	648437.97	433621.26	32°11'28.434"N	103°51'12.589"W	0.44	
10777.00	87.400	135.600	7803.37	3319.40	-2321.53	2372.53	648482.48	433575.33	32°11'27.977"N	103°51'12.073"W	3.11	
10840.00	90.300	135.100	7804.64	3382.37	-2366.34	2416.79	648526.74	433530.52	32°11'27.532"N	103°51'11.560"W	4.67	
10904.00	88.800	136.500	7805.14	3446.34	-2412.22	2461.40	648571.35	433484.65	32°11'27.076"N	103°51'11.044"W	3.21	
10968.00	90.000	137.600	7805.81	3510.27	-2459.06	2505.01	648614.95	433437.81	32°11'26.610"N	103°51'10.539"W	2.54	
11031.00	89.600	136.300	7806.03	3573.20	-2505.09	2548.01	648657.96	433391.78	32°11'26.153"N	103°51'10.041"W	2.16	
11095.00	87.600	137.300	7807.59	3637.12	-2551.73	2591.81	648701.75	433345.14	32°11'25.690"N	103°51'09.534"W	3.49	
11160.00	86.000	136.100	7811.22	3701.96	-2598.96	2636.31	648746.25	433297.92	32°11'25.220"N	103°51'09.018"W	3.08	
11223.00	86.100	133.600	7815.56	3764.80	-2643.28	2680.87	648790.80	433253.60	32°11'24.780"N	103°51'08.502"W	3.96	
11286.00	85.300	133.600	7820.29	3827.62	-2686.61	2726.36	648836.29	433210.28	32°11'24.349"N	103°51'07.975"W	1.27	
11350.00	87.400	131.600	7824.36	3891.45	-2729.83	2773.37	648883.30	433167.06	32°11'23.919"N	103°51'07.430"W	4.53	
11414.00	90.200	131.200	7825.70	3955.35	-2772.14	2821.36	648931.29	433124.75	32°11'23.498"N	103°51'06.874"W	4.42	
11477.00	90.700	131.800	7825.21	4018.27	-2813.89	2868.54	648978.47	433083.01	32°11'23.083"N	103°51'06.327"W	1.24	
11542.00	88.300	131.700	7825.77	4083.19	-2857.16	2917.03	649026.95	433039.73	32°11'22.653"N	103°51'05.765"W	3.70	
11604.00	90.300	131.900	7826.53	4145.12	-2898.48	2963.25	649073.16	432998.42	32°11'22.242"N	103°51'05.229"W	3.24	
11667.00	88.700	130.400	7827.08	4208.02	-2939.93	3010.68	649120.59	432956.97	32°11'21.830"N	103°51'04.680"W	3.48	
11731.00	90.100	132.100	7827.75	4271.92	-2982.13	3058.79	649168.70	432914.78	32°11'21.410"N	103°51'04.122"W	3.44	
11794.00	90.000	132.900	7827.70	4334.88	-3024.69	3105.24	649215.15	432872.22	32°11'20.987"N	103°51'03.584"W	1.28	
11857.00	89.800	138.400	7827.81	4397.84	-3069.72	3149.26	649259.17	432827.19	32°11'20.539"N	103°51'03.074"W	8.74	
11921.00	88.600	137.100	7828.70	4461.72	-3117.09	3192.29	649302.19	432779.82	32°11'20.069"N	103°51'02.576"W	2.76	
11985.00	89.000	137.300	7830.04	4525.63	-3164.04	3235.76	649345.66	432732.88	32°11'19.602"N	103°51'02.072"W	0.70	
12049.00	88.700	135.500	7831.33	4589.57	-3210.37	3279.89	649389.78	432686.55	32°11'19.142"N	103°51'01.561"W	2.85	
12112.00	88.700	133.300	7832.75	4652.55	-3254.44	3324.89	649434.78	432642.48	32°11'18.704"N	103°51'01.040"W	3.49	
12176.00	88.600	132.600	7834.26	4716.51	-3298.03	3371.72	649481.61	432598.89	32°11'18.270"N	103°51'00.497"W	1.10	
12240.00	88.900	132.900	7835.66	4780.47	-3341.47	3418.70	649528.59	432555.46	32°11'17.838"N	103°50'59.953"W	0.66	
12304.00	89.300	132.500	7836.66	4844.44	-3384.86	3465.73	649575.61	432512.07	32°11'17.407"N	103°50'59.408"W	0.88	
12365.00	89.900	131.600	7837.09	4905.39	-3425.72	3511.03	649620.90	432471.22	32°11'17.000"N	103°50'58.883"W	1.77	
12429.00	89.400	131.300	7837.48	4969.30	-3468.08	3558.99	649668.87	432428.85	32°11'16.579"N	103°50'58.327"W	0.91	
12492.00	90.500	132.400	7837.54	5032.24	-3510.11	3605.92	649715.79	432386.83	32°11'16.161"N	103°50'57.783"W	2.47	
12556.00	89.800	131.700	7837.37	5096.19	-3552.98	3653.44	649763.31	432343.96	32°11'15.735"N	103°50'57.233"W	1.55	
12619.00	88.700	131.700	7838.19	5159.11	-3594.88	3700.48	649810.34	432302.06	32°11'15.318"N	103°50'56.688"W	1.75	
12682.00	89.900	133.400	7838.96	5222.08	-3637.48	3746.88	649856.75	432259.47	32°11'14.894"N	103°50'56.150"W	3.30	
12745.00	89.600	134.300	7839.24	5285.07	-3681.13	3792.31	649902.18	432215.83	32°11'14.460"N	103°50'55.624"W	1.51	



Actual Wellpath Report

No. 343H AWP

Page 6 of 7



BAKER HUGHES

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.343H SHL
Area	Eddy County, NM	Well	No.343H
Field	Poker Lake Unit	Wellbore	No. 343H AWP
Facility	Poker Lake Unit No. 343H		

WELLPATH DATA (220 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
12810.00	89.700	134.000	7839.63	5350.07	-3726.40	3838.95	649948.81	432170.56	32°11'14.010"N	103°50'55.083"W	0.49	
12873.00	90.300	135.200	7839.63	5413.07	-3770.63	3883.81	649993.66	432126.32	32°11'13.571"N	103°50'54.564"W	2.13	
12937.00	89.000	135.700	7840.03	5477.05	-3816.24	3928.71	650038.56	432080.72	32°11'13.117"N	103°50'54.044"W	2.18	
13000.00	89.300	135.900	7840.96	5540.03	-3861.40	3972.62	650082.47	432035.56	32°11'12.669"N	103°50'53.535"W	0.57	
13063.00	90.500	135.400	7841.07	5603.01	-3906.45	4016.66	650126.51	431990.52	32°11'12.221"N	103°50'53.025"W	2.06	
13127.00	87.200	133.900	7842.35	5666.98	-3951.41	4062.17	650172.02	431945.56	32°11'11.774"N	103°50'52.498"W	5.66	
13191.00	90.100	137.900	7843.86	5730.92	-3997.35	4106.68	650216.52	431899.63	32°11'11.317"N	103°50'51.982"W	7.72	
13254.00	87.900	137.400	7844.96	5793.81	-4043.90	4149.12	650258.95	431853.08	32°11'10.855"N	103°50'51.491"W	3.58	
13317.00	89.400	138.700	7846.45	5856.65	-4090.74	4191.22	650301.05	431806.24	32°11'10.389"N	103°50'51.004"W	3.15	
13381.00	89.700	138.300	7846.95	5920.48	-4138.67	4233.62	650343.45	431758.32	32°11'09.913"N	103°50'50.513"W	0.78	
13445.00	88.700	135.100	7847.84	5984.41	-4185.23	4277.50	650387.33	431711.75	32°11'09.450"N	103°50'50.005"W	5.24	
13509.00	91.400	135.600	7847.79	6048.40	-4230.76	4322.48	650432.30	431666.23	32°11'08.998"N	103°50'49.484"W	4.29	
13572.00	90.200	134.500	7846.91	6111.39	-4275.34	4366.98	650476.80	431621.65	32°11'08.555"N	103°50'48.968"W	2.58	
13635.00	91.400	134.400	7846.03	6174.38	-4319.45	4411.95	650521.77	431577.54	32°11'08.116"N	103°50'48.447"W	1.91	
13695.00	90.400	133.000	7845.09	6234.36	-4360.90	4455.32	650565.13	431536.10	32°11'07.704"N	103°50'47.945"W	2.87	
13759.00	89.600	134.600	7845.09	6298.36	-4405.19	4501.51	650611.32	431491.81	32°11'07.264"N	103°50'47.410"W	2.80	
13823.00	90.400	134.300	7845.09	6362.36	-4450.01	4547.20	650657.01	431446.99	32°11'06.818"N	103°50'46.881"W	1.33	
13886.00	89.100	134.400	7845.36	6425.36	-4494.05	4592.25	650702.05	431402.96	32°11'06.381"N	103°50'46.359"W	2.07	
13949.00	90.900	134.200	7845.36	6488.35	-4538.05	4637.33	650747.14	431358.96	32°11'05.943"N	103°50'45.836"W	2.87	
14012.00	91.900	131.000	7843.82	6551.30	-4580.67	4683.69	650793.49	431316.34	32°11'05.519"N	103°50'45.299"W	5.32	
14075.00	89.700	133.300	7842.94	6614.24	-4622.94	4730.38	650840.18	431274.07	32°11'05.099"N	103°50'44.758"W	5.05	
14139.00	90.900	134.200	7842.61	6678.23	-4667.20	4776.61	650886.41	431229.82	32°11'04.659"N	103°50'44.223"W	2.34	
14203.00	92.800	130.200	7840.54	6742.14	-4710.16	4823.99	650933.78	431186.87	32°11'04.232"N	103°50'43.674"W	6.92	
14266.00	88.500	135.100	7839.82	6805.07	-4752.81	4870.29	650980.08	431144.21	32°11'03.807"N	103°50'43.137"W	10.35	
14330.00	90.300	135.700	7840.49	6869.05	-4798.38	4915.23	651025.01	431098.65	32°11'03.355"N	103°50'42.617"W	2.96	
14393.00	89.400	136.000	7840.66	6932.03	-4843.58	4959.11	651068.89	431053.45	32°11'02.905"N	103°50'42.109"W	1.51	
14456.00	88.600	135.800	7841.76	6995.00	-4888.82	5002.94	651112.72	431008.22	32°11'02.456"N	103°50'41.601"W	1.31	
14519.00	89.300	134.900	7842.91	7057.98	-4933.63	5047.21	651156.99	430963.41	32°11'02.010"N	103°50'41.088"W	1.81	
14585.00	89.200	135.200	7843.78	7123.96	-4980.33	5093.84	651203.61	430916.71	32°11'01.546"N	103°50'40.548"W	0.48	
14648.00	90.800	135.300	7843.78	7186.96	-5025.07	5138.19	651247.96	430871.97	32°11'01.101"N	103°50'40.035"W	2.54	
14712.00	91.000	135.000	7842.77	7250.94	-5070.44	5183.32	651293.08	430826.61	32°11'00.650"N	103°50'39.512"W	0.56	
14776.00	89.800	137.000	7842.32	7314.91	-5116.47	5227.77	651337.53	430780.58	32°11'00.193"N	103°50'38.997"W	3.64	
14839.00	90.400	139.100	7842.21	7377.77	-5163.33	5269.88	651379.64	430733.73	32°10'59.727"N	103°50'38.510"W	3.47	
14903.00	88.700	141.200	7842.72	7441.44	-5212.45	5310.89	651420.64	430684.60	32°10'59.239"N	103°50'38.035"W	4.22	
14965.00	90.500	145.200	7843.15	7502.68	-5262.09	5348.02	651457.77	430634.97	32°10'58.747"N	103°50'37.606"W	7.07	
15030.00	90.200	148.700	7842.75	7566.11	-5316.56	5383.46	651493.21	430580.50	32°10'58.206"N	103°50'37.196"W	5.40	
15094.00	89.900	150.000	7842.70	7627.93	-5371.62	5416.09	651525.84	430525.45	32°10'57.660"N	103°50'36.820"W	2.08	
15189.00	92.800	155.700	7840.46	7717.95	-5456.08	5459.40	651569.15	430440.99	32°10'56.822"N	103°50'36.320"W	6.73	
15252.00	93.400	156.500	7837.05	7776.38	-5513.59	5484.89	651594.64	430383.48	32°10'56.252"N	103°50'36.027"W	1.59	
15303.00	93.400	156.500	7834.03	7823.53	-5560.28	5505.19	651614.93	430336.80	32°10'55.789"N	103°50'35.793"W	0.00	Proj to Bit



Actual Wellpath Report

No. 343H AWP

Page 7 of 7



REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.343H SHL
Area	Eddy County, NM	Well	No.343H
Field	Poker Lake Unit	Wellbore	No. 343H AWB
Facility	Poker Lake Unit No. 343H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
No.343H Target #1A		7760.40	-1126.28	1136.56	647246.60	434770.50	32°11'39.859"N	103°51'26.393"W	point
No.343H Target #2		7827.00	-2859.17	2924.59	649034.51	433037.72	32°11'22.633"N	103°51'05.677"W	point
No.343H PBHL		7856.00	-5469.97	5595.06	651704.80	430427.10	32°10'56.678"N	103°50'34.742"W	point

WELLPATH COMPOSITION - Ref Wellbore: No. 343H AWB Ref Wellpath: No. 343H AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
22.90	7102.80	Generic gyro - northseeking (Standard)	GyroData Gyro <100-7102.8>	No. 343H AWB
7102.80	15303.00	NaviTrak (Standard)	MWD NaviTrak <7158-XXXX>	No. 343H AWB

COMPANY: BOPCO, L. P.

WELL: Poker Lake Unit #343H

FIELD: Poker Lake, SW (Delaware)

County: Eddy

State: New Mexico

County: Eddy Field: Poker Lake, SW (Delaware) Location: 550' FSL & 365' FEL Well: Poker Lake Unit #343H Company: BOPCO, L. P.	LOCATION		Schlumberger		Platform Express		
					Array Induction Tool		
			550' FSL & 365' FEL		Elev.: K.B. 3417.9 ft G.L. 3395.5 ft D.F. 3416.9 ft		
			Permanent Datum: <u>GROUND LEVEL</u>		Elev.: <u>3395.5 ft</u>		
			Log Measured From: <u>KELLY BUSHING</u>		22.4 ft above Perm. Datum		
		Drilling Measured From: <u>KELLY BUSHING</u>					
		API Serial No. 30-015-38667		Section 22		Township 24S	Range 30E
Logging Date		7-Sep-2011					
Run Number		1					
Depth Driller		8081 ft					
Schlumberger Depth		7500 ft					
Bottom Log Interval		7492 ft					
Top Log Interval		3990 ft					
Casing Driller Size @ Depth		9.625 in @ 3995 ft @					
Casing Schlumberger		3990 ft					
Bit Size		8.750 in					
Type Fluid In Hole		Fresh Water Polymer Mud					
MUD	Density	Viscosity	8.8 lbm/gal 28 s				
	Fluid Loss	PH	10				
Source Of Sample		Mud Pit					
RM @ Measured Temperature		0.647 ohm.m @ 83 degF				@	
RMF @ Measured Temperature		0.485 ohm.m @ 83 degF				@	
RMC @ Measured Temperature		@				@	
Source RMF		RMC	Calculated				
RM @ MRT		RMF @ MRT	0.466 @ 118	0.350 @ 118	@	@	
Maximum Recorded Temperatures		118 degF					
Circulation Stopped		Time	6-Sep-2011 9:00				
Logger On Bottom		Time	7-Sep-2011 2:15				
Unit Number		Location	2357 Roswell				
Recorded By		Rachel Gallagher					
Witnessed By		Larry Ludwick					

COMPANY: BOPCO, L. P.

WELL: Poker Lake Unit #343H

FIELD: Poker Lake, SW (Delaware)

County: Eddy

State:

New Mexico

County: Eddy Field: Poker Lake, SW (Delaware) Location: 550' FSL & 365' FEL Well: Poker Lake Unit #343H Company: BOPCO, L. P.	Schlumberger		Microlog				
			550' FSL & 365' FEL		Elev.: K.B. 3417.9 ft G.L. 3395.5 ft D.F. 3416.9 ft		
	Permanent Datum: <u>GROUND LEVEL</u>		Elev.: <u>3395.5 ft</u>				
	Log Measured From: <u>KELLY BUSHING</u>		22.4 ft above Perm. Datum				
Drilling Measured From: <u>KELLY BUSHING</u>							
API Serial No. 30-015-38667		Section 22		Township 24S		Range 30E	
Logging Date		7-Sep-2011					
Run Number		1					
Depth Driller		8081 ft					
Schlumberger Depth		7500 ft					
Bottom Log Interval		7492 ft					
Top Log Interval		3990 ft					
Casing Driller Size @ Depth		9.625 in @ 3995 ft				@	
Casing Schlumberger		3990 ft					
Bit Size		8.750 in					
Type Fluid In Hole		Fresh Water Polymer Mud					
MUD	Density	Viscosity	8.8 lbm/gal	28 s			
	Fluid Loss	PH		10			
	Source Of Sample		Mud Pit				
RM @ Measured Temperature		0.647 ohm.m @ 83 degF				@	
RMF @ Measured Temperature		0.485 ohm.m @ 83 degF				@	
RMC @ Measured Temperature		@				@	
Source RMF		RMC	Calculated				
RM @ MRT		RMF @ MRT	0.466 @ 118	0.350 @ 118	@		@
Maximum Recorded Temperatures		118 degF					
Circulation Stopped		Time	6-Sep-2011	9:00			
Logger On Bottom		Time	7-Sep-2011	2:15			
Unit Number		Location	2357	Roswell			
Recorded By		Rachel Gallagher					
Witnessed By		Larry Ludwick					

COMPANY: BOPCO, L. P.

WELL: Poker Lake Unit #343H

FIELD: Poker Lake, SW (Delaware)

County: Eddy State: New Mexico

Eddy County: Field: Poker Lake, SW (Delaware) Location: 550' FSL & 365' FEL Well: Poker Lake Unit #343H Company: BOPCO, L. P.		Schlumberger Caliper Log			
		LOCATION		Elev.:	
		550' FSL & 365' FEL		K.B.	3417.9 ft
				G.L.	3395.5 ft
				D.F.	3416.9 ft
		Permanent Datum: GROUND LEVEL		Elev.: 3395.5 ft	
		Log Measured From: KELLY BUSHING		22.4 ft above Perm. Datum	
		Drilling Measured From: KELLY BUSHING			
		API Serial No. 30-015-38667	Section 22	Township 24S	Range 30E
Logging Date		7-Sep-2011			
Run Number		1			
Depth Driller		8081 ft			
Schlumberger Depth		7500 ft			
Bottom Log Interval		7492 ft			
Top Log Interval		3990 ft			
Casing Driller Size @ Depth		9.625 in @ 3995 ft			
Casing Schlumberger		3990 ft			
Bit Size		8.750 in			
Type Fluid In Hole		Fresh Water Polymer Mud			
MUD	Density	Viscosity	8.8 lbm/gal	28 s	
	Fluid Loss	PH		10	
	Source Of Sample		Mud Pit		
RM @ Measured Temperature		0.647 ohm.m @ 83 degF		@	
RMF @ Measured Temperature		0.485 ohm.m @ 83 degF		@	
RMC @ Measured Temperature		@		@	
Source RMF		RMC		Calculated	
RM @ MRT		RMF @ MRT		0.466 @ 118 0.350 @ 118 @ @	
Maximum Recorded Temperatures		118 degF			
Circulation Stopped		Time	6-Sep-2011	9:00	
Logger On Bottom		Time	7-Sep-2011	2:15	
Unit Number		Location	2357	Roswell	
Recorded By		Rachel Gallagher			
Witnessed By		Larry Ludwick			

COMPANY: BOPCO, L. P.

WELL: Poker Lake Unit #343H

FIELD: Poker Lake, SW (Delaware)

County: Eddy

State: New Mexico

County: Eddy Field: Poker Lake, SW (Delaware) Location: 550' FSL & 365' FEL Well: Poker Lake Unit #343H Company: BOPCO, L. P.	Schlumberger		Platform Express			
			Three Detector Litho-Density Compensated Neutron / GR			
	550' FSL & 365' FEL		Elev.: K.B. 3417.9 ft G.L. 3395.5 ft D.F. 3416.9 ft			
	Permanent Datum: GROUND LEVEL		Elev.: 3395.5 ft			
Log Measured From: KELLY BUSHING		22.4 ft above Perm. Datum				
Drilling Measured From: KELLY BUSHING						
API Serial No. 30-015-38667		Section 22		Township 24S	Range 30E	
Logging Date		7-Sep-2011				
Run Number		1				
Depth Driller		8081 ft				
Schlumberger Depth		7500 ft				
Bottom Log Interval		7492 ft				
Top Log Interval		200 ft				
Casing Driller Size @ Depth		9.625 in @ 3995 ft				
Casing Schlumberger		3990 ft				
Bit Size		8.750 in				
Type Fluid In Hole		Fresh Water Polymer Mud				
MUD	Density	Viscosity	8.8 lbm/gal	28 s		
	Fluid Loss	PH	10			
	Source Of Sample		Mud Pit			
	RM @ Measured Temperature		0.647 ohm.m @ 83 degF		@	
RMF @ Measured Temperature		0.485 ohm.m @ 83 degF		@		
RMC @ Measured Temperature		@		@		
Source RMF		RMC	Calculated			
RM @ MRT		RMF @ MRT	0.466 @ 118	0.350 @ 118	@ @	
Maximum Recorded Temperatures		118 degF				
Circulation Stopped		Time	6-Sep-2011	9:00		
Logger On Bottom		Time	7-Sep-2011	2:15		
Unit Number		Location	2357	Roswell		
Recorded By		Rachel Gallagher				
Witnessed By		Larry Ludwick				

COMPANY: BOPCO, L. P.

WELL: Poker Lake Unit #343H

FIELD: Poker Lake, SW (Delaware)

County: Eddy

State: New Mexico

County: Eddy Field: Poker Lake, SW (Delaware) Location: 550' FSL & 365' FEL Well: Poker Lake Unit #343H Company: BOPCO, L. P.	LOCATION		Schlumberger		Platform Express			
					Array Induction Tool			
					Micro-CFL / GR			
		550' FSL & 365' FEL		Elev.: K.B. 3417.9 ft				
				G.L. 3395.5 ft				
				D.F. 3416.9 ft				
		Permanent Datum: <u>GROUND LEVEL</u>		Elev.: <u>3395.5 ft</u>				
		Log Measured From: <u>KELLY BUSHING</u>		22.4 ft above Perm. Datum				
		Drilling Measured From: <u>KELLY BUSHING</u>						
		API Serial No. 30-015-38667		Section 22		Township 24S		
						Range 30E		
		Logging Date		7-Sep-2011				
		Run Number		1				
		Depth Driller		8081 ft				
		Schlumberger Depth		7500 ft				
		Bottom Log Interval		7492 ft				
		Top Log Interval		3990 ft				
		Casing Driller Size @ Depth		9.625 in @ 3995 ft		@		
		Casing Schlumberger		3990 ft				
		Bit Size		8.750 in				
		Type Fluid In Hole		Fresh Water Polymer Mud				
MUD	Density	Viscosity	8.8 lbm/gal	28 s				
	Fluid Loss	PH		10				
	Source Of Sample		Mud Pit					
	RM @ Measured Temperature		0.647 ohm.m @ 83 degF		@			
RMF @ Measured Temperature		0.485 ohm.m @ 83 degF		@				
RMC @ Measured Temperature		@		@				
Source RMF		RMC	Calculated					
RM @ MRT		RMF @ MRT	0.466 @ 118	0.350 @ 118	@	@		
Maximum Recorded Temperatures		118 degF						
Circulation Stopped		Time	6-Sep-2011	9:00				
Logger On Bottom		Time	7-Sep-2011	2:15				
Unit Number		Location	2357	Roswell				
Recorded By		Rachel Gallagher						
Witnessed By		Larry Ludwick						

COMPANY: BOPCO, L. P.

WELL: Poker Lake Unit #343H

FIELD: Poker Lake, SW (Delaware)

County: Eddy State: New Mexico

County: Eddy Field: Poker Lake, SW (Delaware) Location: 550' FSL & 365' FEL Well: Poker Lake Unit #343H Company: BOPCO, L. P.	Schlumberger		Platform Express			
			Three Detector Litho-Density Compensated Neutron / GR			
	LOCATION	550' FSL & 365' FEL		Elev.: K.B. 3417.9 ft G.L. 3395.5 ft D.F. 3416.9 ft		
		Permanent Datum: <u>GROUND LEVEL</u>		Elev.: <u>3395.5 ft</u>		
Log Measured From: <u>KELLY BUSHING</u>		22.4 ft above Perm. Datum				
		Drilling Measured From: <u>KELLY BUSHING</u>				
API Serial No. 30-015-38667		Section 22		Township 24S		
				Range 30E		
MUD	Logging Date		7-Sep-2011			
	Run Number		1			
	Depth Driller		8081 ft			
	Schlumberger Depth		7500 ft			
	Bottom Log Interval		7492 ft			
	Top Log Interval		200 ft			
	Casing Driller Size @ Depth		9.625 in @ 3995 ft		@	
	Casing Schlumberger		3990 ft			
	Bit Size		8.750 in			
	Type Fluid In Hole		Fresh Water Polymer Mud			
	Density	Viscosity	8.8 lbm/gal	28 s		
	Fluid Loss	PH		10		
	Source Of Sample		Mud Pit			
	RM @ Measured Temperature		0.647 ohm.m @ 83 degF		@	
	RMF @ Measured Temperature		0.485 ohm.m @ 83 degF		@	
	RMC @ Measured Temperature		@		@	
	Source RMF	RMC	Calculated			
RM @ MRT	RMF @ MRT	0.466 @ 118	0.350 @ 118	@	@	
Maximum Recorded Temperatures		118 degF				
Circulation Stopped	Time	6-Sep-2011 9:00				
Logger On Bottom	Time	7-Sep-2011 2:15				
Unit Number	Location	2357 Roswell				
Recorded By		Rachel Gallagher				
Witnessed By		Larry Ludwick				