

OCD-ARTESIA

Form 3160-5
(April 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
BOPCO, L. P.3a. Address
P. O. Box 2760, Midland, TX 797023b. Phone No. (include area code)
432-683-2277

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

Surface: SENE, UL H, 2185' FNL, 180' FEL, Lat N32.349814, Long W103.8262
Bottom Hole: 1800' FNL, 330' FEL, Sec 31, T22S, R31E, Lt N32.350317, Lg W103.809537

5. Lease Serial No.

NM02953 & E5229

6. If Indian, Allottee or Tribe Name

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

NMMN70965G

8. Well Name and No.

James Ranch Unit #130H

9. API Well No.

30-015-38308

10. Field and Pool, or Exploratory Area

Quahada Ridge SE (Delaware)

11. County or Parish, State

Sec 36, T22S, R30E, Mer NMP

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☒ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

BOPCO, L.P. respectfully requests the changes listed below to be approved for the above captioned well. As the we are looking to TD this section of the well today, we respectfully request an expedited response.

We will set our 7" intermediate at 8130' to allow the 250' overlap from 7" shoe to TOL required by COA. Updated directional attached.

Cementing changes as follows:

Stage 1: 200 sks Tuned Light Cement (LEAD) + 0.75% CFR-3 + 1.5 #/sk Salt @ 2.76 ft3/sk, 10.2 lb/gal followed by 175 sks VersaCem-PBSH2 + 0.4% Halad-9 @ 1.65 ft3/sk, 13 lb/gal.

Stage 2: 430 sks EconoCem HLC (LEAD) + 1% Econolite + 5% Salt + 5 lb/sk Gilsonite @ 2.04 ft3/sk, 12.6 lb/gal followed by 100 sks HalCem @ 1.33 ft3/sk, 14.8 lb/gal.

DV tool will be set at 4500'.

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

Pete Lensing

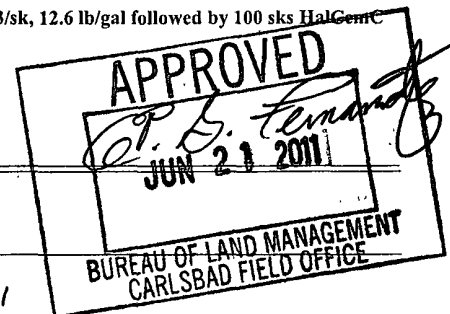
Title Drilling Engineer

Signature

Pete Lensing

Date

6/21/2011



THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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.

Title

Date

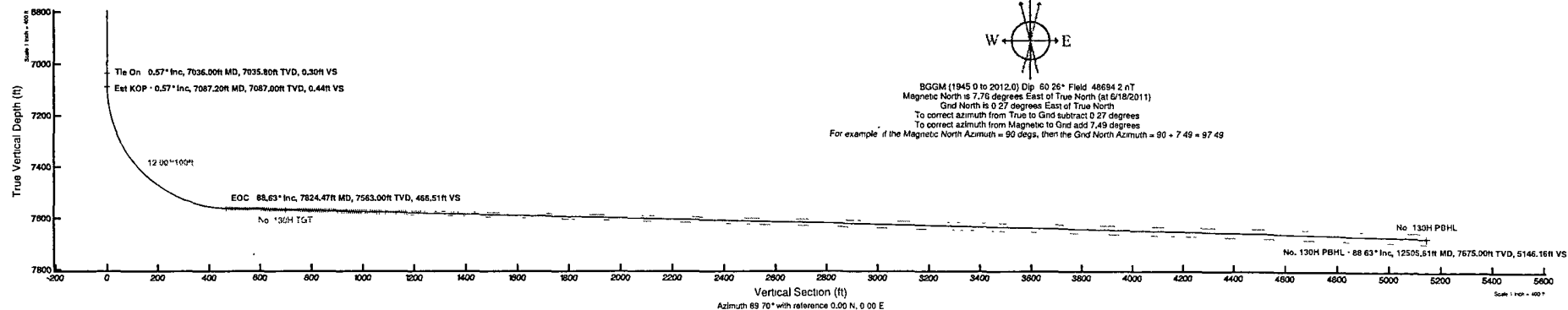
Office

Title 18 USC Section 1001 and Title 43 USC 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)

JUL 15 2011
NMOCD ARTESIA

Accepted for record - NMOCD
2011-07-20-11





Planned Wellpath Report

Plan_1
Page 1 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 130H SHL
Area	Eddy County, NM	Well	No. 130H
Field	(JRU) Quahada Ridge, SE (Delaware)	Wellbore	No. 130H PWB
Facility	James Ranch Unit No. 130H		

REPORT SETUP INFORMATION			
Projection System	NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Calhphik
Scale	0.999937	Report Generated	6/18/2011 at 11:51:11 AM
Convergence at slot	0.27° East	Database/Source file	WellArchitect_DB/No._130H_PWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	697943.95	491365.31	32°20'59.333"N	103°49'34.319"W
Facility Reference Pt			697943.95	491365.31	32°20'59.333"N	103°49'34.319"W
Field Reference Pt			696627.35	492798.47	32°21'13.576"N	103°49'49.589"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No. 130H SHL (KB) to GL	19.50ft
Horizontal Reference Pt	Slot	Rig on No. 130H SHL (KB) to Mean Sea Level	3340.50ft
Vertical Reference Pt	Rig on No. 130H SHL (KB)	Rig on No. 130H SHL (KB) to Mud Line at Slot (No. 130H SHL)	19.50ft
MD Reference Pt	Rig on No. 130H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	89.70°



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Plan_1
Page 2 of 5



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Field	(JRU) Quahada Ridge, SE (Delaware)	Wellbore	No. 130H PWB
Facility	James Ranch Unit No. 130H		

WELLPATH DATA (140 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	209.060	0.00	0.00	0.00	0.00	697943.95	491365.31	32°20'59.333"N	103°49'34.319"W	0.00	
19.50	0.000	209.060	19.50	0.00	0.00	0.00	697943.95	491365.31	32°20'59.333"N	103°49'34.319"W	0.00	
100.00	0.590	209.060	100.00	-0.20	-0.36	-0.20	697943.75	491364.95	32°20'59.329"N	103°49'34.321"W	0.73	
200.00	1.130	189.170	199.99	-0.62	-1.79	-0.61	697943.34	491363.52	32°20'59.315"N	103°49'34.326"W	0.61	
294.53†	1.073	184.740	294.50	-0.85	-3.59	-0.83	697943.12	491361.72	32°20'59.297"N	103°49'34.329"W	0.11	Rustier
300.00	1.070	184.470	299.97	-0.86	-3.69	-0.84	697943.11	491361.62	32°20'59.296"N	103°49'34.329"W	0.11	
400.00	0.810	159.030	399.96	-0.69	-5.28	-0.66	697943.29	491360.03	32°20'59.281"N	103°49'34.327"W	0.49	
500.00	0.690	175.450	499.95	-0.39	-6.54	-0.36	697943.59	491358.77	32°20'59.268"N	103°49'34.324"W	0.24	
600.00	0.480	160.590	599.94	-0.21	-7.54	-0.17	697943.78	491357.77	32°20'59.258"N	103°49'34.322"W	0.26	
700.00	0.540	179.810	699.94	-0.07	-8.40	-0.03	697943.92	491356.91	32°20'59.250"N	103°49'34.320"W	0.18	
717.56†	0.501	181.556	717.50	-0.08	-8.56	-0.03	697943.92	491356.75	32°20'59.248"N	103°49'34.320"W	0.24	Salt
800.00	0.330	195.090	799.94	-0.15	-9.15	-0.10	697943.85	491356.16	32°20'59.242"N	103°49'34.321"W	0.24	
900.00	0.450	202.100	899.93	-0.38	-9.79	-0.33	697943.62	491355.52	32°20'59.236"N	103°49'34.323"W	0.13	
1000.00	0.310	189.360	999.93	-0.57	-10.42	-0.52	697943.43	491354.89	32°20'59.230"N	103°49'34.326"W	0.16	
1100.00	0.240	194.960	1099.93	-0.67	-10.89	-0.62	697943.33	491354.42	32°20'59.225"N	103°49'34.327"W	0.07	
1200.00	0.150	177.860	1199.93	-0.72	-11.23	-0.66	697943.29	491354.08	32°20'59.222"N	103°49'34.327"W	0.11	
1300.00	0.140	189.620	1299.93	-0.74	-11.48	-0.68	697943.27	491353.83	32°20'59.219"N	103°49'34.328"W	0.03	
1400.00	0.250	152.040	1399.93	-0.66	-11.79	-0.60	697943.35	491353.52	32°20'59.216"N	103°49'34.327"W	0.16	
1500.00	0.090	222.670	1499.93	-0.61	-12.04	-0.55	697943.40	491353.27	32°20'59.214"N	103°49'34.326"W	0.24	
1600.00	0.070	226.870	1599.93	-0.71	-12.14	-0.65	697943.30	491353.17	32°20'59.213"N	103°49'34.327"W	0.02	
1700.00	0.080	324.250	1699.93	-0.80	-12.13	-0.73	697943.22	491353.18	32°20'59.213"N	103°49'34.328"W	0.11	
1800.00	0.130	89.010	1799.93	-0.72	-12.07	-0.66	697943.29	491353.24	32°20'59.213"N	103°49'34.327"W	0.19	
1900.00	0.120	211.510	1899.93	-0.67	-12.16	-0.60	697943.35	491353.16	32°20'59.212"N	103°49'34.327"W	0.22	
2000.00	0.120	55.310	1999.93	-0.63	-12.19	-0.57	697943.38	491353.13	32°20'59.212"N	103°49'34.326"W	0.23	
2100.00	0.130	186.160	2099.93	-0.56	-12.24	-0.50	697943.45	491353.07	32°20'59.212"N	103°49'34.326"W	0.23	
2200.00	0.070	5.180	2199.93	-0.57	-12.29	-0.50	697943.45	491353.02	32°20'59.211"N	103°49'34.326"W	0.20	
2300.00	0.090	20.220	2299.93	-0.53	-12.16	-0.47	697943.48	491353.16	32°20'59.212"N	103°49'34.325"W	0.03	
2400.00	0.060	342.960	2399.93	-0.52	-12.03	-0.46	697943.49	491353.28	32°20'59.214"N	103°49'34.325"W	0.06	
2500.00	0.110	185.530	2499.93	-0.55	-12.08	-0.48	697943.47	491353.23	32°20'59.213"N	103°49'34.325"W	0.17	
2600.00	0.050	302.370	2599.93	-0.59	-12.15	-0.53	697943.42	491353.16	32°20'59.213"N	103°49'34.326"W	0.14	
2700.00	0.050	272.700	2699.93	-0.67	-12.12	-0.61	697943.34	491353.19	32°20'59.213"N	103°49'34.327"W	0.03	
2800.00	0.060	254.550	2799.93	-0.77	-12.14	-0.70	697943.25	491353.17	32°20'59.213"N	103°49'34.328"W	0.02	
2900.00	0.100	284.530	2899.93	-0.90	-12.13	-0.84	697943.11	491353.18	32°20'59.213"N	103°49'34.330"W	0.06	
3000.00	0.150	293.930	2999.93	-1.11	-12.05	-1.04	697942.91	491353.26	32°20'59.214"N	103°49'34.332"W	0.05	
3100.00	0.110	48.710	3099.93	-1.15	-11.94	-1.09	697942.86	491353.37	32°20'59.215"N	103°49'34.332"W	0.22	
3200.00	0.470	150.630	3199.93	-0.88	-12.23	-0.82	697943.13	491353.08	32°20'59.212"N	103°49'34.329"W	0.50	
3300.00	0.410	144.300	3299.92	-0.48	-12.88	-0.41	697943.54	491352.43	32°20'59.205"N	103°49'34.325"W	0.08	
3400.00	0.730	140.880	3399.92	0.13	-13.66	0.20	697944.15	491351.65	32°20'59.198"N	103°49'34.317"W	0.32	
3500.00	0.650	144.250	3499.91	0.86	-14.62	0.94	697944.89	491350.69	32°20'59.188"N	103°49'34.309"W	0.09	
3599.60†	0.620	139.022	3599.50	1.54	-15.48	1.62	697945.57	491349.83	32°20'59.179"N	103°49'34.301"W	0.07	B / Salt
3600.00	0.620	139.000	3599.90	1.54	-15.49	1.62	697945.57	491349.82	32°20'59.179"N	103°49'34.301"W	0.07	
3700.00	0.720	148.170	3699.90	2.22	-16.43	2.31	697946.26	491348.88	32°20'59.170"N	103°49'34.293"W	0.15	
3800.00	0.530	139.380	3799.89	2.85	-17.31	2.94	697946.89	491348.00	32°20'59.161"N	103°49'34.286"W	0.21	
3877.61†	0.426	127.953	3877.50	3.31	-17.76	3.40	697947.35	491347.55	32°20'59.157"N	103°49'34.280"W	0.18	Lamar Lime
3900.00	0.400	123.610	3899.89	3.44	-17.86	3.53	697947.48	491347.45	32°20'59.156"N	103°49'34.279"W	0.18	



Planned Wellpath Report

Plan_1
Page 3 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 130H SHL
Area	Eddy County, NM	Well	No. 130H
Field	(JRU) Quahada Ridge, SE (Delaware)	Wellbore	No. 130H PWB
Facility	James Ranch Unit No. 130H		

WELLPATH DATA (140 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
3932.61†	0.380	121.574	3932.50	3.63	-17.98	3.72	697947.67	491347.33	32°20'59.155"N	103°49'34.277"W	0.07	Ramsey
4000.00	0.340	116.620	3999.89	3.99	-18.18	4.09	697948.04	491347.13	32°20'59.153"N	103°49'34.272"W	0.07	
4100.00	0.120	122.930	4099.88	4.35	-18.37	4.44	697948.39	491346.94	32°20'59.151"N	103°49'34.268"W	0.22	
4200.00	0.170	77.060	4199.88	4.58	-18.40	4.68	697948.63	491346.91	32°20'59.150"N	103°49'34.266"W	0.12	
4300.00	0.370	124.620	4299.88	4.99	-18.55	5.09	697949.04	491346.76	32°20'59.149"N	103°49'34.261"W	0.28	
4400.00	0.190	114.530	4399.88	5.40	-18.80	5.50	697949.45	491346.51	32°20'59.146"N	103°49'34.256"W	0.19	
4500.00	0.430	194.570	4499.88	5.46	-19.23	5.56	697949.51	491346.08	32°20'59.142"N	103°49'34.255"W	0.44	
4600.00	0.300	197.090	4599.88	5.28	-19.85	5.39	697949.34	491345.47	32°20'59.136"N	103°49'34.257"W	0.13	
4700.00	0.470	209.370	4699.88	5.00	-20.45	5.11	697949.06	491344.86	32°20'59.130"N	103°49'34.261"W	0.19	
4800.00	0.330	196.740	4799.87	4.71	-21.09	4.83	697948.78	491344.22	32°20'59.124"N	103°49'34.264"W	0.16	
4815.63†	0.336	194.304	4815.50	4.69	-21.17	4.80	697948.75	491344.14	32°20'59.123"N	103°49'34.264"W	0.10	Cherry Canyon
4900.00	0.380	182.810	4899.87	4.61	-21.69	4.73	697948.68	491343.62	32°20'59.118"N	103°49'34.265"W	0.10	
5000.00	0.500	214.370	4999.87	4.35	-22.38	4.46	697948.41	491342.93	32°20'59.111"N	103°49'34.268"W	0.27	
5100.00	0.390	203.550	5099.87	3.96	-23.06	4.08	697948.03	491342.25	32°20'59.104"N	103°49'34.273"W	0.14	
5200.00	0.400	192.430	5199.86	3.74	-23.71	3.87	697947.82	491341.60	32°20'59.098"N	103°49'34.275"W	0.08	
5300.00	0.360	180.240	5299.86	3.66	-24.36	3.79	697947.74	491340.95	32°20'59.091"N	103°49'34.276"W	0.09	
5400.00	0.300	158.570	5399.86	3.76	-24.92	3.89	697947.84	491340.39	32°20'59.086"N	103°49'34.275"W	0.14	
5500.00	0.260	158.970	5499.86	3.93	-25.38	4.07	697948.02	491339.93	32°20'59.081"N	103°49'34.273"W	0.04	
5600.00	0.450	151.580	5599.86	4.20	-25.94	4.33	697948.28	491339.38	32°20'59.076"N	103°49'34.270"W	0.20	
5700.00	0.290	167.310	5699.85	4.44	-26.53	4.58	697948.53	491338.78	32°20'59.070"N	103°49'34.267"W	0.19	
5800.00	0.260	180.640	5799.85	4.49	-27.00	4.63	697948.58	491338.31	32°20'59.065"N	103°49'34.267"W	0.07	
5900.00	0.340	169.510	5899.85	4.53	-27.52	4.68	697948.63	491337.79	32°20'59.060"N	103°49'34.266"W	0.10	
6000.00	0.280	189.390	5999.85	4.55	-28.05	4.69	697948.64	491337.26	32°20'59.055"N	103°49'34.266"W	0.12	
6100.00	0.460	198.250	6099.85	4.38	-28.68	4.53	697948.48	491336.64	32°20'59.049"N	103°49'34.268"W	0.19	
6200.00	0.500	212.640	6199.85	4.01	-29.42	4.17	697948.12	491335.89	32°20'59.041"N	103°49'34.272"W	0.13	
6300.00	0.610	213.070	6299.84	3.48	-30.24	3.64	697947.59	491335.07	32°20'59.033"N	103°49'34.278"W	0.11	
6400.00	0.750	216.890	6399.83	2.79	-31.21	2.96	697946.91	491334.11	32°20'59.024"N	103°49'34.286"W	0.15	
6500.00	0.720	210.440	6499.83	2.08	-32.27	2.25	697946.20	491333.04	32°20'59.013"N	103°49'34.295"W	0.09	
6600.00	0.660	219.070	6599.82	1.39	-33.26	1.57	697945.52	491332.05	32°20'59.004"N	103°49'34.303"W	0.12	
6700.00	0.430	210.720	6699.81	0.83	-34.03	1.01	697944.96	491331.28	32°20'58.996"N	103°49'34.309"W	0.24	
6800.00	0.370	221.550	6799.81	0.42	-34.59	0.61	697944.56	491330.72	32°20'58.990"N	103°49'34.314"W	0.10	
6900.00	0.450	187.160	6899.81	0.16	-35.23	0.34	697944.29	491330.09	32°20'58.984"N	103°49'34.317"W	0.25	
7000.00	0.520	166.080	6999.81	0.21	-36.06	0.40	697944.35	491329.26	32°20'58.976"N	103°49'34.316"W	0.19	
7036.00	0.570	163.280	7035.80	0.30	-36.39	0.49	697944.44	491328.93	32°20'58.973"N	103°49'34.315"W	0.00	Tie On
7087.20†	0.570	163.280	7087.00	0.44	-36.87	0.64	697944.59	491328.44	32°20'58.968"N	103°49'34.314"W	0.00	Est KOP
7136.00†	6.037	94.412	7135.71	3.07	-37.30	3.27	697947.22	491328.01	32°20'58.963"N	103°49'34.283"W	12.00	
7236.00†	18.021	90.908	7233.33	23.86	-37.96	24.06	697968.01	491327.36	32°20'58.956"N	103°49'34.041"W	12.00	
7284.37†	23.823	90.464	7278.50	41.12	-38.15	41.32	697985.27	491327.16	32°20'58.953"N	103°49'33.840"W	12.00	Brushy Canyon "U"
7336.00†	30.017	90.172	7324.51	64.48	-38.28	64.68	698008.63	491327.03	32°20'58.951"N	103°49'33.567"W	12.00	
7436.00†	42.015	89.831	7405.25	123.17	-38.25	123.38	698067.32	491327.06	32°20'58.948"N	103°49'32.883"W	12.00	
7518.54†	51.919	89.652	7461.50	183.43	-37.97	183.63	698127.57	491327.34	32°20'58.948"N	103°49'32.181"W	12.00	Lwr Brushy Canyon
7536.00†	54.014	89.621	7472.02	197.37	-37.89	197.57	698141.51	491327.43	32°20'58.949"N	103°49'32.018"W	12.00	
7636.00†	66.014	89.467	7521.90	283.83	-37.19	284.03	698227.96	491328.12	32°20'58.951"N	103°49'31.010"W	12.00	
7736.00†	78.013	89.339	7552.73	378.76	-36.20	378.96	698322.89	491329.11	32°20'58.957"N	103°49'29.904"W	12.00	
7744.93†	79.084	89.329	7554.50	387.51	-36.10	387.71	698331.63	491329.22	32°20'58.957"N	103°49'29.802"W	12.00	Lwr Brushy Canyon "W"



Planned Wellpath Report

Plan_1
Page 4 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 130H SHL
Area	Eddy County, NM	Well	No. 130H
Field	(JRU) Quahada Ridge, SE (Delaware)	Wellbore	No. 130H PWB
Facility	James Ranch Unit No. 130H		

WELLPATH DATA (140 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
7824.47	88.629	89.236	7563.00	466.51	-35.11	466.70	698410.62	491330.21	32°20'58.963"N	103°49'28.881"W	12.00	EOC
7836.00†	88.629	89.236	7563.28	478.03	-34.95	478.22	698422.14	491330.36	32°20'58.964"N	103°49'28.747"W	0.00	
7936.00†	88.629	89.236	7565.67	578.00	-33.62	578.19	698522.10	491331.69	32°20'58.973"N	103°49'27.581"W	0.00	
8036.00†	88.629	89.236	7568.06	677.97	-32.29	678.15	698622.05	491333.03	32°20'58.981"N	103°49'26.416"W	0.00	
8136.00†	88.629	89.236	7570.46	777.94	-30.95	778.11	698722.01	491334.36	32°20'58.990"N	103°49'25.251"W	0.00	
8236.00†	88.629	89.236	7572.85	877.90	-29.62	878.07	698821.97	491335.69	32°20'58.998"N	103°49'24.085"W	0.00	
8336.00†	88.629	89.236	7575.24	977.87	-28.29	978.04	698921.92	491337.02	32°20'59.007"N	103°49'22.920"W	0.00	
8436.00†	88.629	89.236	7577.63	1077.84	-26.96	1078.00	699021.88	491338.36	32°20'59.015"N	103°49'21.755"W	0.00	
8536.00†	88.629	89.236	7580.03	1177.81	-25.62	1177.96	699121.83	491339.69	32°20'59.024"N	103°49'20.590"W	0.00	
8636.00†	88.629	89.236	7582.42	1277.78	-24.29	1277.92	699221.79	491341.02	32°20'59.032"N	103°49'19.424"W	0.00	
8736.00†	88.629	89.236	7584.81	1377.75	-22.96	1377.89	699321.75	491342.36	32°20'59.041"N	103°49'18.259"W	0.00	
8836.00†	88.629	89.236	7587.20	1477.71	-21.62	1477.85	699421.70	491343.69	32°20'59.049"N	103°49'17.094"W	0.00	
8931.98†	88.629	89.236	7589.50	1573.66	-20.34	1573.79	699517.64	491344.97	32°20'59.057"N	103°49'15.975"W	0.00	Target #1 TVD
8936.00†	88.629	89.236	7589.60	1577.68	-20.29	1577.81	699521.66	491345.02	32°20'59.058"N	103°49'15.928"W	0.00	
9036.00†	88.629	89.236	7591.99	1677.65	-18.96	1677.77	699621.62	491346.35	32°20'59.066"N	103°49'14.763"W	0.00	
9136.00†	88.629	89.236	7594.38	1777.62	-17.62	1777.74	699721.57	491347.69	32°20'59.075"N	103°49'13.598"W	0.00	
9236.00†	88.629	89.236	7596.77	1877.59	-16.29	1877.70	699821.53	491349.02	32°20'59.083"N	103°49'12.432"W	0.00	
9336.00†	88.629	89.236	7599.17	1977.55	-14.96	1977.66	699921.48	491350.35	32°20'59.091"N	103°49'11.267"W	0.00	
9436.00†	88.629	89.236	7601.56	2077.52	-13.63	2077.62	700021.44	491351.69	32°20'59.100"N	103°49'10.102"W	0.00	
9536.00†	88.629	89.236	7603.95	2177.49	-12.29	2177.59	700121.40	491353.02	32°20'59.108"N	103°49'08.937"W	0.00	
9636.00†	88.629	89.236	7606.34	2277.46	-10.96	2277.55	700221.35	491354.35	32°20'59.117"N	103°49'07.771"W	0.00	
9736.00†	88.629	89.236	7608.74	2377.43	-9.63	2377.51	700321.31	491355.68	32°20'59.125"N	103°49'06.606"W	0.00	
9836.00†	88.629	89.236	7611.13	2477.39	-8.29	2477.47	700421.26	491357.02	32°20'59.134"N	103°49'05.441"W	0.00	
9936.00†	88.629	89.236	7613.52	2577.36	-6.96	2577.44	700521.22	491358.35	32°20'59.142"N	103°49'04.275"W	0.00	
10036.00†	88.629	89.236	7615.91	2677.33	-5.63	2677.40	700621.18	491359.68	32°20'59.150"N	103°49'03.110"W	0.00	
10136.00†	88.629	89.236	7618.31	2777.30	-4.29	2777.36	700721.13	491361.02	32°20'59.159"N	103°49'01.945"W	0.00	
10236.00†	88.629	89.236	7620.70	2877.27	-2.96	2877.32	700821.09	491362.35	32°20'59.167"N	103°49'00.779"W	0.00	
10336.00†	88.629	89.236	7623.09	2977.24	-1.63	2977.29	700921.04	491363.68	32°20'59.176"N	103°48'59.614"W	0.00	
10436.00†	88.629	89.236	7625.48	3077.20	-0.30	3077.25	701021.00	491365.01	32°20'59.184"N	103°48'58.449"W	0.00	
10536.00†	88.629	89.236	7627.88	3177.17	1.04	3177.21	701120.96	491366.35	32°20'59.193"N	103°48'57.284"W	0.00	
10636.00†	88.629	89.236	7630.27	3277.14	2.37	3277.17	701220.91	491367.68	32°20'59.201"N	103°48'56.118"W	0.00	
10736.00†	88.629	89.236	7632.66	3377.11	3.70	3377.14	701320.87	491369.01	32°20'59.209"N	103°48'54.953"W	0.00	
10836.00†	88.629	89.236	7635.05	3477.08	5.04	3477.10	701420.82	491370.35	32°20'59.218"N	103°48'53.788"W	0.00	
10936.00†	88.629	89.236	7637.45	3577.04	6.37	3577.06	701520.78	491371.68	32°20'59.226"N	103°48'52.622"W	0.00	
11036.00†	88.629	89.236	7639.84	3677.01	7.70	3677.02	701620.74	491373.01	32°20'59.235"N	103°48'51.457"W	0.00	
11136.00†	88.629	89.236	7642.23	3776.98	9.04	3776.99	701720.69	491374.34	32°20'59.243"N	103°48'50.292"W	0.00	
11236.00†	88.629	89.236	7644.62	3876.95	10.37	3876.95	701820.65	491375.68	32°20'59.251"N	103°48'49.126"W	0.00	
11336.00†	88.629	89.236	7647.02	3976.92	11.70	3976.91	701920.60	491377.01	32°20'59.260"N	103°48'47.961"W	0.00	
11436.00†	88.629	89.236	7649.41	4076.89	13.03	4076.87	702020.56	491378.34	32°20'59.268"N	103°48'46.796"W	0.00	
11536.00†	88.629	89.236	7651.80	4176.85	14.37	4176.84	702120.52	491379.68	32°20'59.277"N	103°48'45.631"W	0.00	
11636.00†	88.629	89.236	7654.19	4276.82	15.70	4276.80	702220.47	491381.01	32°20'59.285"N	103°48'44.465"W	0.00	
11736.00†	88.629	89.236	7656.59	4376.79	17.03	4376.76	702320.43	491382.34	32°20'59.293"N	103°48'43.300"W	0.00	
11836.00†	88.629	89.236	7658.98	4476.76	18.37	4476.72	702420.38	491383.67	32°20'59.302"N	103°48'42.135"W	0.00	
11936.00†	88.629	89.236	7661.37	4576.73	19.70	4576.69	702520.34	491385.01	32°20'59.310"N	103°48'40.969"W	0.00	
12036.00†	88.629	89.236	7663.76	4676.69	21.03	4676.65	702620.30	491386.34	32°20'59.318"N	103°48'39.804"W	0.00	



Planned Wellpath Report

Plan_1
Page 5 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 130H SHL
Area	Eddy County, NM	Well	No. 130H
Field	(JRU) Quahada Ridge, SE (Delaware)	Wellbore	No. 130H PWB
Facility	James Ranch Unit No. 130H		

WELLPATH DATA (140 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
12136.00†	88.629	89.236	7666.16	4776.66	22.36	4776.61	702720.25	491387.67	32°20'59.327"N	103°48'38.639"W	0.00	
12236.00†	88.629	89.236	7668.55	4876.63	23.70	4876.57	702820.21	491389.01	32°20'59.335"N	103°48'37.474"W	0.00	
12336.00†	88.629	89.236	7670.94	4976.60	25.03	4976.54	702920.16	491390.34	32°20'59.343"N	103°48'36.308"W	0.00	
12436.00†	88.629	89.236	7673.33	5076.57	26.36	5076.50	703020.12	491391.67	32°20'59.352"N	103°48'35.143"W	0.00	
12505.61	88.629	89.236	7675.00	5146.16	27.29	5146.09	703089.70	491392.60	32°20'59.358"N	103°48'34.332"W	0.00	No. 130H PBHL

HOLE & CASING SECTIONS - Ref Wellbore: No. 130H PWB - Ref Wellpath: Plan_1									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
8.75in Open Hole	7127.50	7843.50	716.00	7127.25	7563.46	-37.23	2.46	-34.85	485.72
7in Casing	19.50	7843.50	7824.00	19.50	7563.46	0.00	0.00	-34.85	485.72
6.125in Open Hole	7843.50	12505.61	4662.11	7563.46	7675.00	-34.85	485.72	27.29	5146.09

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
No. 130H TGT		7570.00	19.69	699.80	698643.70	491385.00	32°20'59.495"N	103°49'26.161"W	point
1) No. 130H PBHL	12505.61	7675.00	27.29	5146.08	703089.70	491392.60	32°20'59.358"N	103°48'34.332"W	point

SURVEY PROGRAM - Ref Wellbore: No. 130H PWB - Ref Wellpath: Plan_1				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
19.50	7036.00	Generic gyro - northseeking (Standard)		No.130H AWB
7036.00	12523.28	NaviTrak (Standard)		No. 130H PWB