

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS****Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.**5. Lease Serial No
NMNM02952A

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.7. If Unit or CA/Agreement, Name and/or No
891000558X1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
JAMES RANCH UNIT 140H2. Name of Operator
BOPCO LP
Contact KATY HOLSTER
E-Mail: keholster@basspet.com9. API Well No
30-015-39809-00-X13a. Address
MIDLAND, TX 797023b. Phone No (include area code)
Ph. 432-683-227710. Field and Pool, or Exploratory
QUAHADA RIDGE SE4. Location of Well (Footage, Sec, T., R., M., or Survey Description)
Sec 25 T22S R30E SENW Lot F 2619FNL 1980FWL11. County or Parish, and State
EDDY COUNTY, NM**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☒ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ 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 recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

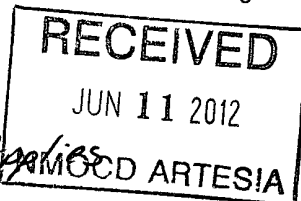
BOPCO, L.P. respectfully requests approval to alter the BHL from the approved footages of 1980' FNL & 330' FWL of Sec 27, T22S, R30E to a new BHL of 1980' FNL & 2310' FWL of Sec 28, T22S, R30E. The drainage acreage (proration units) will be increased from 320 acres to 400 acres. The 4-1/2" completion system will be extended to cover the increased lateral length. The new directional plan is attached.

Accepted for record

NMOCD

Date 7/5/12

Original COA Still Applies



14. I hereby certify that the foregoing is true and correct

Electronic Submission #140038 verified by the BLM Well Information System

For BOPCO LP, sent to the Carlsbad

Committed to AFMSS for processing by KURT SIMMONS on 06/07/2012 (12KMS2204SE)

Name (Printed/Typed) CHARLES T WARNE

Title DRILLING ENGINEER

Signature (Electronic Submission)

Date 06/07/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By EDWARD FERNANDEZ

Title PETROLEUM ENGINEER

Date 06/07/2012

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Carlsbad

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

DISTRICT I

1625 N. French Dr., Hobbs, NM 88240

DISTRICT II

1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources DepartmentForm C-102
Revised July 18, 2010Submit 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 30-015-39809	Pool Code 50443	Pool Name Quahada Ridge, SE (Delaware)
Property Code 306407	Property Name JAMES RANCH UNIT	Well Number 140H
OGRID No. 260737	Operator Name BOPCO, L.P.	Elevation 3345'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	25	22 S	30 E		2619	NORTH	1980	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	28	22 S	30 E		1980	NORTH	2310	EAST	EDDY

Dedicated Acres 400	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

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Jeremy Braden 6-17-12
Signature Date

Jeremy Braden
Printed Name

jdbraden@basspet.com
Email Address

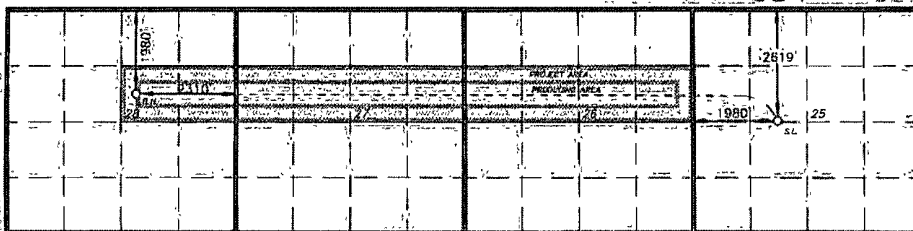
SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief

GARY L. JONES
Date Surveyed 6/19/2011
Signature & Seal of Professional Surveyor

Certificate No. **Gary L. Jones** 7977

BASIN SURVEYS 25273

PROPOSED BOTTOM
HOLE LOCATION

Lat - N 32°21'53.68"
Long - W 103°53'04.49"
NMSPCE- N 496760.980
E 638557.500
(NAD-27)

SURFACE LOCATION
DELAWARE PP

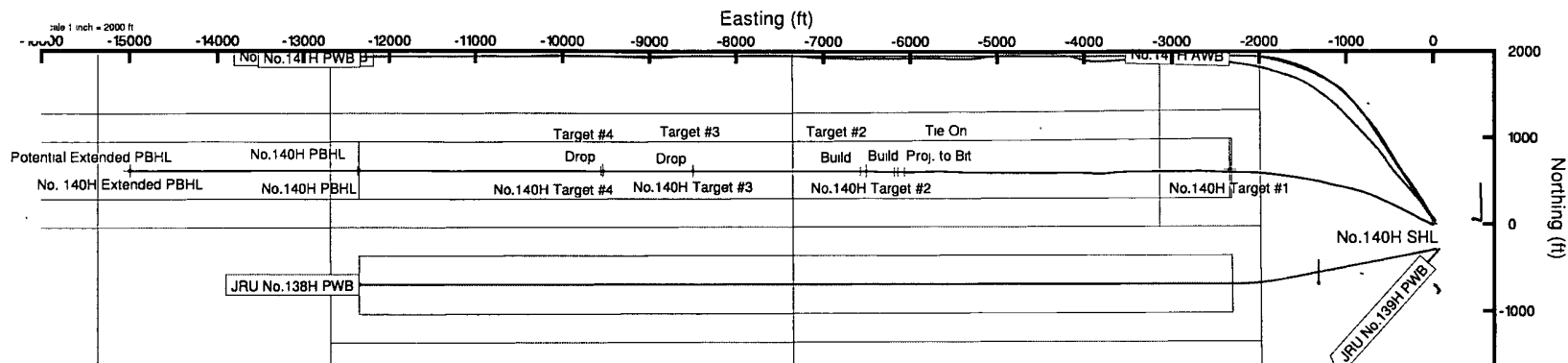
Lat - N 32°21'47.01"
Long - W 103°50'09.67"
NMSPCE- N 496152.802
E 653554.999
(NAD-27)



BOPCO, L.P.

Location: Eddy County, NM
Field: JRU NAD27
Facility: (JRU) No.140H & No.141H

Slot: No.140H SHL
Well: No.140H
Wellbore: No.140H PWB

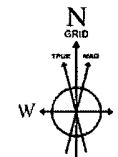


Well Profile Data

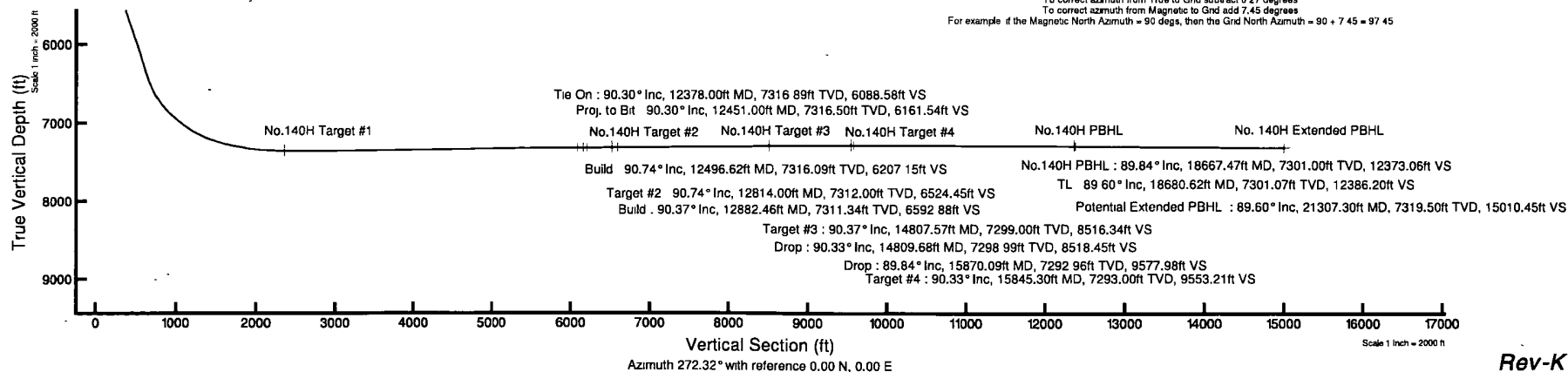
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (ft/100ft)	VS (ft)
Tie On	12378.00	90.300	270.500	7316.89	603.60	-8069.12	0.00	6088.58
Proj. to Bit	12451.00	90.300	270.500	7316.50	604.23	-8142.12	0.00	6161.54
Build	12496.62	90.739	271.300	7316.09	604.95	-8187.73	2.00	6207.15
Target #2	12814.00	90.739	271.300	7312.00	612.15	-8505.00	0.00	6524.45
Build	12882.46	90.367	269.982	7311.34	612.92	-8573.45	2.00	6592.66
Target #3	14807.57	90.367	269.982	7299.00	612.32	-8498.52	0.00	8516.34
Drop	14809.68	90.331	270.004	7298.99	612.32	-8500.63	2.00	8518.45
Target #4	15845.30	90.331	270.004	7293.00	612.40	-8538.24	0.00	9553.21
Drop	15870.09	89.835	270.004	7292.96	612.40	-8561.03	2.00	9577.98
No.140H PBHL	18667.47	89.635	270.004	7301.00	612.62	-12358.39	0.00	12373.06
TL	18680.62	89.598	269.892	7301.07	612.61	-12371.54	2.00	12386.20
Potential Extended PBHL	21307.30	89.598	269.892	7319.50	607.64	-14998.15	0.00	15010.45

Plot reference wellpath is Rev-K.0

True vertical depths are referenced to Rig on No.140H SHL (KB)	Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No.140H SHL (KB)	North Reference: Grid north
Rig on No.140H SHL (KB) to Mean Sea Level: 3375 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot No.140H SHL): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: genbry on 6/7/2012



BGGM (1945 to 2013) Dip: 80.22° Field: 48607.5 nT
Magnetic North is 7.71 degrees East of True North (at 2/23/2012)
Grid North is 0.27 degrees East of True North
To correct azimuth from True to Grid subtract 0.27 degrees
To correct azimuth from Magnetic to Grid add 7.45 degrees
For example if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.45 = 97.45



Rev-K.0



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.140H SHL
Area	Eddy County, NM	Well	No.140H
Field	JRU NAD27	Wellbore	No.140H PWB
Facility	(JRU) No.140H & No.141H		

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	6/7/2012 at 3:48:10 PM
Convergence at slot	0.27° East	Database/Source file	WA Midland/No.140H_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	653555.00	496152.80	32°21'47.011"N	103°50'09.669"W
Facility Reference Pt			653555.00	496152.80	32°21'47.011"N	103°50'09.669"W
Field Reference Pt			652495.44	494904.92	32°21'34.711"N	103°50'22.090"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No.140H SHL (KB) to Facility Vertical Datum	3375.00ft
Horizontal Reference Pt	Slot	Rig on No.140H SHL (KB) to Mean Sea Level	3375.00ft
Vertical Reference Pt	Rig on No.140H SHL (KB)	Rig on No.140H SHL (KB) to Mud Line at Slot (No.140H SHL)	3375.00ft
MD Reference Pt	Rig on No.140H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	272.32°



Planned Wellpath Report

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Facility	(JRU) No.140H & No.141H		

WELLPATH DATA (211 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
0.00	0.000	64.670	0.00	0.00	0.00	0.00	653555.00	496152.80	32°21'47.011"N	103°50'09.669"W	0.00	
75.00	0.390	64.670	75.00	-0.23	0.11	0.23	653555.23	496152.91	32°21'47.012"N	103°50'09.667"W	0.52	
175.00	0.370	90.780	175.00	-0.85	0.25	0.86	653555.86	496153.05	32°21'47.014"N	103°50'09.659"W	0.17	
275.00	0.180	29.610	275.00	-1.25	0.38	1.26	653556.26	496153.18	32°21'47.015"N	103°50'09.655"W	0.32	
369.00	0.390	288.800	369.00	-1.01	0.61	1.03	653556.03	496153.41	32°21'47.017"N	103°50'09.657"W	0.49	
463.00	0.410	295.820	462.99	-0.39	0.86	0.43	653555.43	496153.66	32°21'47.020"N	103°50'09.664"W	0.06	
557.00	0.140	246.580	556.99	0.02	0.96	0.02	653555.02	496153.76	32°21'47.021"N	103°50'09.669"W	0.36	
650.00	0.530	326.750	649.99	0.37	1.28	-0.32	653554.68	496154.08	32°21'47.024"N	103°50'09.673"W	0.56	
681.00	0.380	317.760	680.99	0.53	1.48	-0.47	653554.53	496154.27	32°21'47.026"N	103°50'09.675"W	0.53	
760.00	0.300	327.800	759.99	0.83	1.84	-0.76	653554.24	496154.64	32°21'47.030"N	103°50'09.678"W	0.13	
885.00	0.500	344.400	884.99	1.18	2.65	-1.08	653553.92	496155.45	32°21'47.038"N	103°50'09.682"W	0.18	
978.00	0.400	318.400	977.98	1.53	3.28	-1.40	653553.60	496156.08	32°21'47.044"N	103°50'09.686"W	0.24	
1262.00	0.100	0.000	1261.98	2.23	4.27	-2.06	653552.94	496157.07	32°21'47.054"N	103°50'09.693"W	0.12	
1553.00	0.200	155.900	1552.98	2.02	4.06	-1.85	653553.15	496156.86	32°21'47.052"N	103°50'09.691"W	0.10	
1843.00	0.200	81.800	1842.98	1.29	3.67	-1.14	653553.86	496156.47	32°21'47.048"N	103°50'09.683"W	0.08	
2132.00	0.100	92.200	2131.98	0.54	3.73	-0.39	653554.61	496156.53	32°21'47.048"N	103°50'09.674"W	0.04	
2422.00	0.100	36.200	2421.98	0.15	3.93	0.01	653555.01	496156.73	32°21'47.050"N	103°50'09.669"W	0.03	
2712.00	0.100	337.700	2711.98	0.11	4.36	0.06	653555.06	496157.16	32°21'47.055"N	103°50'09.668"W	0.03	
3003.00	0.300	140.700	3002.97	-0.29	4.01	0.45	653555.45	496156.81	32°21'47.051"N	103°50'09.664"W	0.14	
3292.00	1.200	265.900	3291.96	2.22	3.21	-2.09	653552.91	496156.01	32°21'47.043"N	103°50'09.694"W	0.48	
3583.00	1.300	120.400	3582.93	2.33	1.32	-2.28	653552.72	496154.12	32°21'47.025"N	103°50'09.696"W	0.82	
3800.00	1.200	243.000	3799.90	2.14	-0.96	-2.18	653552.82	496151.84	32°21'47.002"N	103°50'09.695"W	1.01	
3924.00	1.100	261.100	3923.88	4.44	-1.73	-4.52	653550.48	496151.07	32°21'46.994"N	103°50'09.722"W	0.30	
4021.00	2.100	273.700	4020.84	7.13	-1.76	-7.21	653547.79	496151.04	32°21'46.994"N	103°50'09.754"W	1.09	
4117.00	4.500	289.000	4116.68	12.50	-0.42	-12.53	653542.47	496152.38	32°21'47.008"N	103°50'09.816"W	2.64	
4214.00	6.500	290.500	4213.22	21.36	2.74	-21.27	653533.73	496155.54	32°21'47.039"N	103°50'09.917"W	2.07	
4311.00	8.700	295.900	4309.37	33.30	7.87	-33.01	653521.99	496160.67	32°21'47.091"N	103°50'10.054"W	2.38	
4408.00	9.400	297.500	4405.16	47.20	14.73	-46.64	653508.36	496167.53	32°21'47.159"N	103°50'10.212"W	0.77	
4504.00	9.400	297.700	4499.87	61.37	22.00	-60.53	653494.47	496174.79	32°21'47.232"N	103°50'10.374"W	0.03	
4601.00	10.800	293.800	4595.37	76.99	29.35	-75.86	653479.14	496182.14	32°21'47.305"N	103°50'10.552"W	1.61	
4698.00	13.300	292.500	4690.22	95.92	37.28	-94.49	653460.52	496190.08	32°21'47.385"N	103°50'10.769"W	2.59	
4795.00	14.200	293.700	4784.44	117.47	46.34	-115.69	653439.32	496199.13	32°21'47.475"N	103°50'11.016"W	0.97	
4892.00	17.200	295.500	4877.81	141.74	57.29	-139.54	653415.47	496210.09	32°21'47.585"N	103°50'11.293"W	3.13	
4988.00	18.900	298.800	4969.09	168.71	70.90	-165.98	653389.04	496223.69	32°21'47.721"N	103°50'11.601"W	2.07	
5085.00	19.900	301.800	5060.58	197.14	87.17	-193.77	653361.24	496239.96	32°21'47.883"N	103°50'11.924"W	1.46	
5182.00	22.200	298.800	5151.10	227.92	104.70	-223.87	653331.15	496257.49	32°21'48.058"N	103°50'12.274"W	2.62	
5279.00	22.800	298.900	5240.72	261.13	122.61	-256.38	653298.64	496275.40	32°21'48.236"N	103°50'12.652"W	0.62	
5374.00	22.400	297.600	5328.42	293.96	139.89	-288.54	653266.48	496292.68	32°21'48.409"N	103°50'13.026"W	0.67	
5471.00	19.800	296.100	5418.91	325.71	155.68	-319.67	653235.35	496308.47	32°21'48.567"N	103°50'13.388"W	2.74	
5567.00	19.200	296.000	5509.41	355.05	169.76	-348.46	653206.56	496322.54	32°21'48.707"N	103°50'13.723"W	0.63	
5664.00	19.100	295.900	5601.04	384.20	183.68	-377.08	653177.95	496336.47	32°21'48.846"N	103°50'14.056"W	0.11	
5761.00	19.600	296.700	5692.56	413.57	197.92	-405.89	653149.14	496350.71	32°21'48.988"N	103°50'14.391"W	0.58	
5857.00	20.600	296.900	5782.71	443.59	212.80	-435.33	653119.70	496365.58	32°21'49.137"N	103°50'14.733"W	1.04	
5954.00	21.000	296.600	5873.39	474.95	228.30	-466.09	653088.94	496381.09	32°21'49.292"N	103°50'15.091"W	0.43	
6050.00	20.200	295.100	5963.25	505.91	243.03	-496.48	653058.55	496395.82	32°21'49.439"N	103°50'15.444"W	1.00	



Planned Wellpath Report

Rev-K.0

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.140H SHL
Area	Eddy County, NM	Well	No.140H
Field	JRU NAD27	Wellbore	No.140H PWB
Facility	(JRU) No.140H & No.141H		

WELLPATH DATA (211 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
6146.00	18.300	292.100	6053.88	535.38	255.74	-525.46	653029.57	496408.52	32°21'49.566"N	103°50'15.781"W	2.23	
6243.00	17.800	291.800	6146.11	563.69	266.97	-553.34	653001.70	496419.75	32°21'49.679"N	103°50'16.106"W	0.52	
6340.00	18.200	296.600	6238.37	591.48	279.26	-580.65	652974.39	496432.04	32°21'49.801"N	103°50'16.424"W	1.58	
6436.00	17.900	297.800	6329.64	618.46	292.86	-607.10	652947.94	496445.64	32°21'49.937"N	103°50'16.731"W	0.50	
6533.00	20.300	294.400	6421.30	647.52	306.76	-635.62	652919.42	496459.54	32°21'50.076"N	103°50'17.063"W	2.73	
6630.00	22.500	293.200	6511.60	680.45	321.03	-668.01	652887.04	496473.80	32°21'50.219"N	103°50'17.440"W	2.31	
6727.00	29.400	292.500	6598.77	720.19	337.47	-707.11	652847.94	496490.25	32°21'50.383"N	103°50'17.895"W	7.12	
6823.00	34.000	290.200	6680.43	767.88	355.76	-754.10	652800.95	496508.54	32°21'50.566"N	103°50'18.442"W	4.95	
6920.00	38.000	287.400	6758.90	822.55	374.07	-808.07	652746.99	496526.84	32°21'50.750"N	103°50'19.070"W	4.46	
7018.00	42.900	285.500	6833.45	884.19	392.01	-869.04	652686.02	496544.79	32°21'50.930"N	103°50'19.780"W	5.16	
7115.00	47.600	284.800	6901.72	951.35	410.00	-935.52	652619.55	496562.77	32°21'51.111"N	103°50'20.554"W	4.87	
7212.00	50.400	282.300	6965.36	1023.14	427.11	-1006.67	652548.39	496579.88	32°21'51.284"N	103°50'21.382"W	3.48	
7308.00	52.800	280.900	7024.99	1097.38	442.22	-1080.37	652474.70	496594.99	32°21'51.437"N	103°50'22.241"W	2.75	
7405.00	56.600	283.300	7081.03	1175.37	458.85	-1157.74	652397.33	496611.62	32°21'51.605"N	103°50'23.142"W	4.41	
7501.00	61.300	283.900	7130.54	1256.00	478.19	-1237.66	652317.43	496630.96	32°21'51.800"N	103°50'24.072"W	4.92	
7598.00	65.300	282.000	7174.11	1341.15	497.58	-1322.09	652233.00	496650.35	32°21'51.996"N	103°50'25.056"W	4.48	
7695.00	69.700	280.900	7211.23	1429.61	515.36	-1409.90	652145.19	496668.12	32°21'52.175"N	103°50'26.079"W	4.66	
7792.00	73.900	279.100	7241.52	1520.91	531.34	-1500.63	652054.47	496684.10	32°21'52.338"N	103°50'27.135"W	4.67	
7888.00	75.000	278.400	7267.25	1612.81	545.40	-1592.04	651963.07	496698.17	32°21'52.481"N	103°50'28.200"W	1.34	
7985.00	79.500	277.600	7288.66	1706.93	558.56	-1685.70	651869.41	496711.32	32°21'52.616"N	103°50'29.292"W	4.71	
8082.00	79.500	277.500	7306.33	1801.91	571.09	-1780.25	651774.87	496723.85	32°21'52.744"N	103°50'30.393"W	0.10	
8178.00	79.700	277.100	7323.66	1895.97	583.09	-1873.91	651681.22	496735.85	32°21'52.867"N	103°50'31.484"W	0.46	
8275.00	84.500	274.100	7336.99	1991.86	592.45	-1969.49	651585.64	496745.21	32°21'52.964"N	103°50'32.598"W	5.82	
8372.00	86.200	273.400	7344.86	2088.50	598.77	-2065.96	651489.18	496751.53	32°21'53.031"N	103°50'33.723"W	1.89	
8469.00	86.900	272.300	7350.69	2185.32	603.58	-2162.66	651392.48	496756.34	32°21'53.083"N	103°50'34.850"W	1.34	
8565.00	88.400	271.100	7354.63	2281.23	606.43	-2258.53	651296.61	496759.19	32°21'53.115"N	103°50'35.967"W	2.00	
8658.00	90.000	271.300	7355.93	2374.20	608.38	-2351.50	651203.65	496761.14	32°21'53.139"N	103°50'37.051"W	1.73	
8760.00	88.200	270.800	7357.53	2476.16	610.24	-2453.47	651101.69	496763.00	32°21'53.162"N	103°50'38.240"W	1.83	
8855.00	90.200	275.100	7358.86	2571.12	615.13	-2548.31	651006.86	496767.89	32°21'53.214"N	103°50'39.345"W	4.99	
8950.00	90.700	270.900	7358.11	2666.09	620.10	-2643.15	650912.02	496772.86	32°21'53.268"N	103°50'40.450"W	4.45	
9045.00	90.700	269.000	7356.95	2760.99	620.02	-2738.14	650817.04	496772.78	32°21'53.271"N	103°50'41.558"W	2.00	
9140.00	90.700	269.400	7355.79	2855.85	618.69	-2833.12	650722.06	496771.45	32°21'53.263"N	103°50'42.665"W	0.42	
9236.00	90.800	267.700	7354.53	2951.63	616.26	-2929.08	650626.11	496769.02	32°21'53.243"N	103°50'43.784"W	1.77	
9331.00	90.700	270.500	7353.29	3046.46	614.77	-3024.05	650531.15	496767.53	32°21'53.232"N	103°50'44.891"W	2.95	
9426.00	90.800	270.400	7352.05	3141.40	615.52	-3119.04	650436.17	496768.28	32°21'53.244"N	103°50'45.999"W	0.15	
9521.00	90.800	268.100	7350.72	3236.25	614.28	-3214.02	650341.20	496767.04	32°21'53.236"N	103°50'47.106"W	2.42	
9617.00	90.800	269.400	7349.38	3332.05	612.18	-3309.98	650245.24	496764.94	32°21'53.220"N	103°50'48.225"W	1.35	
9712.00	90.700	270.900	7348.14	3426.97	612.43	-3404.97	650150.25	496765.19	32°21'53.226"N	103°50'49.332"W	1.58	
9807.00	90.700	267.600	7346.98	3521.81	611.19	-3499.94	650055.29	496763.95	32°21'53.218"N	103°50'50.440"W	3.47	
9902.00	90.800	267.100	7345.73	3616.45	606.80	-3594.83	649960.41	496759.56	32°21'53.179"N	103°50'51.546"W	0.54	
9997.00	90.800	262.500	7344.40	3710.60	598.19	-3689.41	649865.84	496750.95	32°21'53.098"N	103°50'52.649"W	4.84	
10092.00	90.700	267.200	7343.16	3804.76	589.66	-3783.99	649771.26	496742.43	32°21'53.018"N	103°50'53.752"W	4.95	
10187.00	91.100	273.000	7341.67	3899.63	589.83	-3878.94	649676.32	496742.59	32°21'53.024"N	103°50'54.859"W	6.12	
10283.00	90.900	274.300	7339.99	3995.59	595.94	-3974.72	649580.54	496748.70	32°21'53.089"N	103°50'55.976"W	1.37	
10378.00	90.600	269.500	7338.75	4090.55	599.09	-4069.64	649485.63	496751.85	32°21'53.124"N	103°50'57.082"W	5.06	



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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.140H SHL
Area	Eddy County, NM	Well	No.140H
Field	JRU NAD27	Wellbore	No.140H PWB
Facility	(JRU) No.140H & No.141H		

WELLPATH DATA (211 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
10473.00	90.700	271.100	7337.67	4185.48	599.59	-4164.63	649390.65	496752.35	32°21'53.133"N	103°50'58.189"W	1.69	
10569.00	90.700	268.200	7336.50	4281.36	599.00	-4260.61	649294.67	496751.76	32°21'53.132"N	103°50'59.308"W	3.02	
10664.00	90.700	269.000	7335.34	4376.15	596.68	-4355.57	649199.72	496749.44	32°21'53.113"N	103°51'00.416"W	0.84	
10759.00	90.800	269.000	7334.09	4470.99	595.02	-4450.55	649104.75	496747.78	32°21'53.101"N	103°51'01.523"W	0.11	
10854.00	90.700	271.800	7332.85	4565.92	595.68	-4545.53	649009.77	496748.44	32°21'53.112"N	103°51'02.630"W	2.95	
10950.00	90.800	270.400	7331.59	4661.88	597.53	-4641.50	648913.81	496750.29	32°21'53.134"N	103°51'03.749"W	1.46	
11045.00	90.700	270.000	7330.35	4756.81	597.86	-4736.49	648818.82	496750.62	32°21'53.142"N	103°51'04.856"W	0.43	
11140.00	90.800	270.400	7329.10	4851.74	598.19	-4831.48	648723.84	496750.95	32°21'53.149"N	103°51'05.964"W	0.43	
11236.00	90.700	270.600	7327.85	4947.68	599.03	-4927.47	648627.86	496751.79	32°21'53.162"N	103°51'07.083"W	0.23	
11331.00	90.700	270.000	7326.69	5042.61	599.52	-5022.46	648532.87	496752.29	32°21'53.171"N	103°51'08.190"W	0.63	
11426.00	90.700	270.400	7325.53	5137.54	599.86	-5117.45	648437.88	496752.62	32°21'53.178"N	103°51'09.298"W	0.42	
11521.00	90.700	270.200	7324.37	5232.47	600.35	-5212.44	648342.90	496753.11	32°21'53.188"N	103°51'10.405"W	0.21	
11616.00	90.700	270.700	7323.21	5327.42	601.10	-5307.43	648247.92	496753.86	32°21'53.199"N	103°51'11.513"W	0.53	
11711.00	90.800	271.900	7321.96	5422.39	603.25	-5402.40	648152.96	496756.02	32°21'53.225"N	103°51'12.620"W	1.27	
11807.00	90.800	272.600	7320.62	5518.38	607.02	-5498.32	648057.05	496759.78	32°21'53.266"N	103°51'13.738"W	0.73	
11902.00	90.800	271.200	7319.30	5613.37	610.17	-5593.25	647962.12	496762.93	32°21'53.302"N	103°51'14.844"W	1.47	
11997.00	90.200	269.700	7318.47	5708.31	610.92	-5688.24	647867.13	496763.68	32°21'53.313"N	103°51'15.952"W	1.70	
12092.00	90.200	268.600	7318.13	5803.16	609.51	-5783.23	647772.15	496762.27	32°21'53.303"N	103°51'17.059"W	1.16	
12187.00	90.200	267.300	7317.80	5897.88	606.11	-5878.17	647677.22	496758.87	32°21'53.274"N	103°51'18.166"W	1.37	
12283.00	90.300	269.600	7317.38	5993.66	603.51	-5974.12	647581.27	496756.27	32°21'53.253"N	103°51'19.285"W	2.40	
12378.00	90.300	270.500	7316.89	6088.58	603.60	-6069.12	647486.28	496756.36	32°21'53.258"N	103°51'20.392"W	0.00	Tie On
12451.00	90.300	270.500	7316.50	6161.54	604.23	-6142.12	647413.29	496756.99	32°21'53.267"N	103°51'21.243"W	0.00	Proj. to Bit
12478.00†	90.560	270.974	7316.30	6188.53	604.58	-6169.11	647386.29	496757.34	32°21'53.272"N	103°51'21.558"W	2.00	
12496.62	90.739	271.300	7316.09	6207.15	604.95	-6187.73	647367.68	496757.71	32°21'53.276"N	103°51'21.775"W	2.00	Build
12578.00†	90.739	271.300	7315.04	6288.51	606.80	-6269.08	647286.33	496759.56	32°21'53.298"N	103°51'22.723"W	0.00	
12678.00†	90.739	271.300	7313.75	6388.48	609.07	-6369.05	647186.37	496761.83	32°21'53.325"N	103°51'23.889"W	0.00	
12778.00†	90.739	271.300	7312.46	6488.46	611.34	-6469.01	647086.41	496764.09	32°21'53.352"N	103°51'25.054"W	0.00	
12814.00	90.739	271.300	7312.00	6524.45	612.15	-6505.00	647050.43	496764.91	32°21'53.361"N	103°51'25.474"W	0.00	Target #2
12878.00†	90.391	270.068	7311.37	6588.42	612.92	-6568.99	646986.44	496765.68	32°21'53.372"N	103°51'26.220"W	2.00	
12882.46	90.367	269.982	7311.34	6592.88	612.92	-6573.45	646981.98	496765.68	32°21'53.372"N	103°51'26.272"W	2.00	Build
12978.00†	90.367	269.982	7310.73	6688.33	612.89	-6668.99	646886.45	496765.65	32°21'53.376"N	103°51'27.385"W	0.00	
13078.00†	90.367	269.982	7310.09	6788.25	612.86	-6768.99	646786.46	496765.62	32°21'53.380"N	103°51'28.551"W	0.00	
13178.00†	90.367	269.982	7309.45	6888.16	612.83	-6868.99	646686.47	496765.59	32°21'53.384"N	103°51'29.717"W	0.00	
13278.00†	90.367	269.982	7308.80	6988.08	612.79	-6968.98	646586.48	496765.55	32°21'53.388"N	103°51'30.883"W	0.00	
13378.00†	90.367	269.982	7308.16	7087.99	612.76	-7068.98	646486.48	496765.52	32°21'53.392"N	103°51'32.049"W	0.00	
13478.00†	90.367	269.982	7307.52	7187.91	612.73	-7168.98	646386.49	496765.49	32°21'53.396"N	103°51'33.214"W	0.00	
13578.00†	90.367	269.982	7306.88	7287.82	612.70	-7268.98	646286.50	496765.46	32°21'53.400"N	103°51'34.380"W	0.00	
13678.00†	90.367	269.982	7306.24	7387.74	612.67	-7368.98	646186.51	496765.43	32°21'53.405"N	103°51'35.546"W	0.00	
13778.00†	90.367	269.982	7305.60	7487.65	612.64	-7468.97	646086.52	496765.40	32°21'53.409"N	103°51'36.712"W	0.00	
13878.00†	90.367	269.982	7304.96	7587.57	612.61	-7568.97	645986.53	496765.37	32°21'53.413"N	103°51'37.878"W	0.00	
13978.00†	90.367	269.982	7304.32	7687.48	612.58	-7668.97	645886.54	496765.34	32°21'53.417"N	103°51'39.044"W	0.00	
14078.00†	90.367	269.982	7303.68	7787.40	612.55	-7768.97	645786.54	496765.31	32°21'53.421"N	103°51'40.209"W	0.00	
14178.00†	90.367	269.982	7303.04	7887.31	612.52	-7868.97	645686.55	496765.27	32°21'53.425"N	103°51'41.375"W	0.00	
14278.00†	90.367	269.982	7302.39	7987.23	612.48	-7968.96	645586.56	496765.24	32°21'53.429"N	103°51'42.541"W	0.00	
14378.00†	90.367	269.982	7301.75	8087.14	612.45	-8068.96	645486.57	496765.21	32°21'53.433"N	103°51'43.707"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.140H SHL
Area	Eddy County, NM	Well	No.140H
Field	JRU NAD27	Wellbore	No.140H PWB
Facility	(JRU) No.140H & No.141H		

WELLPATH DATA (211 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
14478.00†	90.367	269.982	7301.11	8187.05	612.42	-8168.96	645386.58	496765.18	32°21'53.437"N	103°51'44.873"W	0.00	
14578.00†	90.367	269.982	7300.47	8286.97	612.39	-8268.96	645286.59	496765.15	32°21'53.441"N	103°51'46.038"W	0.00	
14678.00†	90.367	269.982	7299.83	8386.88	612.36	-8368.96	645186.60	496765.12	32°21'53.445"N	103°51'47.204"W	0.00	
14778.00†	90.367	269.982	7299.19	8486.80	612.33	-8468.95	645086.60	496765.09	32°21'53.449"N	103°51'48.370"W	0.00	
14807.57	90.367	269.982	7299.00†	8516.34	612.32	-8498.52	645057.04	496765.08	32°21'53.450"N	103°51'48.715"W	0.00	Target #3
14809.68	90.331	270.004	7298.99	8518.45	612.32	-8500.63	645054.93	496765.08	32°21'53.450"N	103°51'48.739"W	2.00	Drop
14878.00†	90.331	270.004	7298.59	8586.72	612.32	-8568.95	644986.61	496765.08	32°21'53.453"N	103°51'49.536"W	0.00	
14978.00†	90.331	270.004	7298.01	8686.63	612.33	-8668.95	644886.62	496765.09	32°21'53.458"N	103°51'50.702"W	0.00	
15078.00†	90.331	270.004	7297.44	8786.55	612.34	-8768.95	644786.63	496765.10	32°21'53.462"N	103°51'51.867"W	0.00	
15178.00†	90.331	270.004	7296.86	8886.47	612.35	-8868.95	644686.64	496765.11	32°21'53.467"N	103°51'53.033"W	0.00	
15278.00†	90.331	270.004	7296.28	8986.38	612.35	-8968.94	644586.65	496765.11	32°21'53.471"N	103°51'54.199"W	0.00	
15378.00†	90.331	270.004	7295.70	9086.30	612.36	-9068.94	644486.65	496765.12	32°21'53.475"N	103°51'55.365"W	0.00	
15478.00†	90.331	270.004	7295.12	9186.22	612.37	-9168.94	644386.66	496765.13	32°21'53.480"N	103°51'56.531"W	0.00	
15578.00†	90.331	270.004	7294.55	9286.13	612.38	-9268.94	644286.67	496765.14	32°21'53.484"N	103°51'57.697"W	0.00	
15678.00†	90.331	270.004	7293.97	9386.05	612.39	-9368.94	644186.68	496765.14	32°21'53.489"N	103°51'58.862"W	0.00	
15778.00†	90.331	270.004	7293.39	9485.97	612.39	-9468.94	644086.69	496765.15	32°21'53.493"N	103°52'00.028"W	0.00	
15845.30	90.331	270.004	7293.00†	9553.21	612.40	-9536.24	644019.39	496765.16	32°21'53.496"N	103°52'00.813"W	0.00	Target #4
15870.09	89.835	270.004	7292.96	9577.98	612.40	-9561.03	643994.60	496765.16	32°21'53.497"N	103°52'01.102"W	2.00	Drop
15878.00†	89.835	270.004	7292.99	9585.88	612.40	-9568.94	643986.70	496765.16	32°21'53.497"N	103°52'01.194"W	0.00	
15978.00†	89.835	270.004	7293.27	9685.80	612.41	-9668.93	643886.70	496765.17	32°21'53.502"N	103°52'02.360"W	0.00	
16078.00†	89.835	270.004	7293.56	9785.72	612.42	-9768.93	643786.71	496765.18	32°21'53.506"N	103°52'03.526"W	0.00	
16178.00†	89.835	270.004	7293.85	9885.64	612.42	-9868.93	643686.72	496765.18	32°21'53.511"N	103°52'04.691"W	0.00	
16278.00†	89.835	270.004	7294.14	9985.55	612.43	-9968.93	643586.72	496765.19	32°21'53.515"N	103°52'05.857"W	0.00	
16378.00†	89.835	270.004	7294.42	10085.47	612.44	-10068.93	643486.73	496765.20	32°21'53.519"N	103°52'07.023"W	0.00	
16478.00†	89.835	270.004	7294.71	10185.39	612.45	-10168.93	643386.74	496765.21	32°21'53.524"N	103°52'08.189"W	0.00	
16578.00†	89.835	270.004	7295.00	10285.31	612.46	-10268.93	643286.74	496765.21	32°21'53.528"N	103°52'09.355"W	0.00	
16678.00†	89.835	270.004	7295.28	10385.23	612.46	-10368.93	643186.75	496765.22	32°21'53.532"N	103°52'10.521"W	0.00	
16778.00†	89.835	270.004	7295.57	10485.14	612.47	-10468.93	643086.76	496765.23	32°21'53.537"N	103°52'11.686"W	0.00	
16878.00†	89.835	270.004	7295.86	10585.06	612.48	-10568.93	642986.77	496765.24	32°21'53.541"N	103°52'12.852"W	0.00	
16978.00†	89.835	270.004	7296.15	10684.98	612.49	-10668.93	642886.77	496765.25	32°21'53.546"N	103°52'14.018"W	0.00	
17078.00†	89.835	270.004	7296.43	10784.90	612.49	-10768.93	642786.78	496765.25	32°21'53.550"N	103°52'15.184"W	0.00	
17178.00†	89.835	270.004	7296.72	10884.82	612.50	-10868.93	642686.79	496765.26	32°21'53.554"N	103°52'16.350"W	0.00	
17278.00†	89.835	270.004	7297.01	10984.73	612.51	-10968.93	642586.79	496765.27	32°21'53.559"N	103°52'17.516"W	0.00	
17378.00†	89.835	270.004	7297.30	11084.65	612.52	-11068.93	642486.80	496765.28	32°21'53.563"N	103°52'18.681"W	0.00	
17478.00†	89.835	270.004	7297.58	11184.57	612.53	-11168.93	642386.81	496765.29	32°21'53.567"N	103°52'19.847"W	0.00	
17578.00†	89.835	270.004	7297.87	11284.49	612.53	-11268.93	642286.81	496765.29	32°21'53.572"N	103°52'21.013"W	0.00	
17678.00†	89.835	270.004	7298.16	11384.40	612.54	-11368.93	642186.82	496765.30	32°21'53.576"N	103°52'22.179"W	0.00	
17778.00†	89.835	270.004	7298.44	11484.32	612.55	-11468.93	642086.83	496765.31	32°21'53.580"N	103°52'23.345"W	0.00	
17878.00†	89.835	270.004	7298.73	11584.24	612.56	-11568.93	641986.84	496765.32	32°21'53.585"N	103°52'24.511"W	0.00	
17978.00†	89.835	270.004	7299.02	11684.16	612.56	-11668.93	641886.84	496765.32	32°21'53.589"N	103°52'25.676"W	0.00	
18078.00†	89.835	270.004	7299.31	11784.08	612.57	-11768.93	641786.85	496765.33	32°21'53.593"N	103°52'26.842"W	0.00	
18178.00†	89.835	270.004	7299.59	11883.99	612.58	-11868.93	641686.86	496765.34	32°21'53.598"N	103°52'28.008"W	0.00	
18278.00†	89.835	270.004	7299.88	11983.91	612.59	-11968.93	641586.86	496765.35	32°21'53.602"N	103°52'29.174"W	0.00	
18378.00†	89.835	270.004	7300.17	12083.83	612.60	-12068.92	641486.87	496765.36	32°21'53.606"N	103°52'30.340"W	0.00	
18478.00†	89.835	270.004	7300.46	12183.75	612.60	-12168.92	641386.88	496765.36	32°21'53.611"N	103°52'31.506"W	0.00	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.140H SHL
Area	Eddy County, NM	Well	No.140H
Field	JRU NAD27	Wellbore	No.140H PWB
Facility	(JRU) No.140H & No.141H		

WELLPATH DATA (211 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
18578.00†	89.835	270.004	7300.74	12283.67	612.61	-12268.92	641286.88	496765.37	32°21'53.615"N	103°52'32.671"W	0.00	
18667.47	89.835	270.004	7301.00†	12373.06	612.62	-12358.39	641197.42	496765.38	32°21'53.619"N	103°52'33.714"W	0.00	No.140H PBHL
18678.00†	89.645	269.914	7301.05	12383.58	612.61	-12368.92	641186.89	496765.37	32°21'53.619"N	103°52'33.837"W	2.00	
18680.62	89.598	269.892	7301.07	12386.20	612.61	-12371.54	641184.27	496765.37	32°21'53.619"N	103°52'33.868"W	2.00	TL
18778.00†	89.598	269.892	7301.75	12483.49	612.42	-12468.92	641086.90	496765.18	32°21'53.621"N	103°52'35.003"W	0.00	
18878.00†	89.598	269.892	7302.45	12583.40	612.23	-12568.92	640986.91	496764.99	32°21'53.624"N	103°52'36.169"W	0.00	
18978.00†	89.598	269.892	7303.15	12683.31	612.04	-12668.92	640886.92	496764.80	32°21'53.626"N	103°52'37.335"W	0.00	
19078.00†	89.598	269.892	7303.85	12783.21	611.86	-12768.91	640786.93	496764.61	32°21'53.628"N	103°52'38.501"W	0.00	
19178.00†	89.598	269.892	7304.56	12883.12	611.67	-12868.91	640686.94	496764.43	32°21'53.631"N	103°52'39.666"W	0.00	
19278.00†	89.598	269.892	7305.26	12983.03	611.48	-12968.91	640586.95	496764.24	32°21'53.633"N	103°52'40.832"W	0.00	
19378.00†	89.598	269.892	7305.96	13082.94	611.29	-13068.91	640486.96	496764.05	32°21'53.635"N	103°52'41.998"W	0.00	
19478.00†	89.598	269.892	7306.66	13182.85	611.10	-13168.90	640386.97	496763.86	32°21'53.638"N	103°52'43.164"W	0.00	
19578.00†	89.598	269.892	7307.36	13282.75	610.91	-13268.90	640286.97	496763.67	32°21'53.640"N	103°52'44.330"W	0.00	
19678.00†	89.598	269.892	7308.07	13382.66	610.72	-13368.90	640186.98	496763.48	32°21'53.642"N	103°52'45.495"W	0.00	
19778.00†	89.598	269.892	7308.77	13482.57	610.53	-13468.89	640086.99	496763.29	32°21'53.645"N	103°52'46.661"W	0.00	
19878.00†	89.598	269.892	7309.47	13582.48	610.34	-13568.89	639987.00	496763.10	32°21'53.647"N	103°52'47.827"W	0.00	
19978.00†	89.598	269.892	7310.17	13682.38	610.15	-13668.89	639887.01	496762.91	32°21'53.649"N	103°52'48.993"W	0.00	
20078.00†	89.598	269.892	7310.87	13782.29	609.96	-13768.89	639787.02	496762.72	32°21'53.652"N	103°52'50.159"W	0.00	
20178.00†	89.598	269.892	7311.57	13882.20	609.78	-13868.88	639687.03	496762.54	32°21'53.654"N	103°52'51.324"W	0.00	
20278.00†	89.598	269.892	7312.28	13982.11	609.59	-13968.88	639587.04	496762.35	32°21'53.656"N	103°52'52.490"W	0.00	
20378.00†	89.598	269.892	7312.98	14082.02	609.40	-14068.88	639487.05	496762.16	32°21'53.659"N	103°52'53.656"W	0.00	
20478.00†	89.598	269.892	7313.68	14181.92	609.21	-14168.88	639387.06	496761.97	32°21'53.661"N	103°52'54.822"W	0.00	
20578.00†	89.598	269.892	7314.38	14281.83	609.02	-14268.87	639287.07	496761.78	32°21'53.663"N	103°52'55.988"W	0.00	
20678.00†	89.598	269.892	7315.08	14381.74	608.83	-14368.87	639187.08	496761.59	32°21'53.666"N	103°52'57.154"W	0.00	
20778.00†	89.598	269.892	7315.79	14481.65	608.64	-14468.87	639087.09	496761.40	32°21'53.668"N	103°52'58.319"W	0.00	
20878.00†	89.598	269.892	7316.49	14581.55	608.45	-14568.87	638987.09	496761.21	32°21'53.670"N	103°52'59.485"W	0.00	
20978.00†	89.598	269.892	7317.19	14681.46	608.26	-14668.86	638887.10	496761.02	32°21'53.672"N	103°53'00.651"W	0.00	
21078.00†	89.598	269.892	7317.89	14781.37	608.07	-14768.86	638787.11	496760.83	32°21'53.675"N	103°53'01.817"W	0.00	
21178.00†	89.598	269.892	7318.59	14881.28	607.89	-14868.86	638687.12	496760.65	32°21'53.677"N	103°53'02.983"W	0.00	
21278.00†	89.598	269.892	7319.29	14981.19	607.70	-14968.85	638587.13	496760.46	32°21'53.679"N	103°53'04.148"W	0.00	
21307.30	89.598	269.892	7319.50†	15010.45	607.64	-14998.15	638557.84	496760.40	32°21'53.680"N	103°53'04.490"W	0.00	Potential Extended PBHL



Planned Wellpath Report

Rev-K.0

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.140H SHL
Area	Eddy County, NM	Well	No.140H
Field	JRU NAD27	Wellbore	No.140H PWB
Facility	(JRU) No.140H & No.141H		

HOLE & CASING SECTIONS - Ref Wellbore: No.140H PWB Ref Wellpath: Rev-K.0

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.375in Casing Surface	0.00	750.00	750.00	0.00	749.99	0.00	0.00	1.80	-0.73
12.25in Open Hole	750.00	3850.00	3100.00	749.99	3849.89	1.80	-0.73	-1.37	-3.12
9.625in Casing Intermediate	750.00	3850.00	3100.00	749.99	3849.89	1.80	-0.73	-1.37	-3.12
8.75in Open Hole	3850.00	8643.00	4793.00	3849.89	7355.90	-1.37	-3.12	608.04	-2336.51
7in Casing	3850.00	8643.00	4793.00	3849.89	7355.90	-1.37	-3.12	608.04	-2336.51
6.125in Open Hole	9234.00	21307.30	12073.30	7354.56	7319.50	616.34	-2927.08	607.64	-14998.15

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
3) No.140H Target #4	15845.30	7293.00	612.40	-9536.24	644019.39	496765.16	32°21'53.496"N	103°52'00.813"W	point
2) No.140H Target #3	14807.57	7299.00	612.32	-8498.52	645057.04	496765.08	32°21'53.450"N	103°51'48.715"W	point
4) No.140H PBHL	18667.47	7301.00	612.62	-12358.39	641197.42	496765.38	32°21'53.619"N	103°52'33.714"W	point
1) No.140H Target #2	12814.00	7312.00	612.15	-6505.00	647050.43	496764.91	32°21'53.361"N	103°51'25.474"W	point
5) No. 140H Extended PBHL	21307.30	7319.50	607.64	-14998.15	638557.84	496760.40	32°21'53.680"N	103°53'04.490"W	point
No.140H Target #1		7357.00	631.94	-2335.15	651220.00	496784.70	32°21'53.371"N	103°50'36.859"W	point

SURVEY PROGRAM - Ref Wellbore: No.140H PWB Ref Wellpath: Rev-K.0

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
30.00	681.00	Generic gyro - northseeking (Standard)		No.140H AWB
681.00	3800.00	NaviTrak (Standard)		No.140H AWB
3800.00	8658.00	NaviTrak (Standard)		No.140H AWB
8658.00	12378.00	NaviTrak (Standard)		No.140H AWB
12378.00	21307.30	NaviTrak (Standard)		No.140H PWB

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 18, 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	Pool Code	Pool Name	
30-015-39809	50443	Quahada Ridge, SE (Delaware)	
Property Code	Property Name	Well Number	
306407	JAMES RANCH UNIT	140H	
OGRID No.	Operator Name	Elevation	
260737	BOPCO, L.P	3345'	

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	25	22 S	30 E		2619	NORTH	1980	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	28	22 S	30 E		1980	NORTH	2310	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
-----------------	-----------------	--------------------	-----------

400

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole 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.

Terrence B. Jones 6-17-12

PROPOSED BOTTOM
HOLE LOCATION

Lat - N 32°21'53.68"
Long - W 103°53'04.49"
NMSPCE- N 496760.980
E 638557.500
(NAD-27)

SURFACE LOCATION
DELAWARE PP

Lat - N 32°21'47.01"
Long - W 103°50'09.67"
NMSPCE- N 496152.802
E 653554.999
(NAD-27)

Certificate No. Gary L. Jones 7977

BASIN SURVEYS 25273