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OCD-ARTESIA

Form 3160-5
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

FORM APPROVED
OMB No 1004-0137
Expires March 31, 2007

RECEIVED

FEB 25 2010

NMOC D ARTESIA

5 Lease Serial No
NM0543280A

6 If Indian, Allottee or Tribe Name

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

8 Well Name and No
Hudson 1 Federal #9H

9 API Well No
30-015-37310

10 Field and Pool, or Exploratory Area
Quahada Ridge SE (Delaware)

11. County or Parish, State
Eddy Co., NM

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1 Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2 Name of Operator
BOPCO, L. P.

3a Address
P. O. Box 2760 Midland, TX 79702

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

4 Location of Well (Footage, Sec, T, R, M, or Survey Description)
Surface: NWSE, 2375' FSL, 1780' FEL, Sec 1, T23S, R30S, Lat N32.33330, Lon W103.83138
BHL: SWNW, 1980' FSL, 330' FWL, Sec 2, T23S, R30E, Lat N32.332281, Long W103.859225

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 recomplate 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 requests approval for the revised horizontal casing program.

The 7" casing program will be changed from 7700' of 7", 26#, N-80, LT&C to 7855' of 7", 26#, P110, LT&C.

The 4-1/2" casing program will also be changed from 8061' of 4-1/2", 11.6#, HCP-110, LT&C with Baker packers for isolation and 1000' through the curve of 4-1/2", 11.6#, HCP-110, Ultra Flush Joint to 8008' of 4-1/2", 11.6#, P-110, LT&C with Baker packers for isolation and the liner hanger will be set at approximately 7705'. *Operator Request 100' tie back to set pump*

The revised horizontal drilling plan is attached. *as deep as possible. per operator*

BOPCO L.P. Bond # on file: COB000050

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

Annette Childers

Title Regulatory Clerk

Signature

Annette Childers

Date

2-1-2010

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)



D.D. 2/25/10

RKX



BOPCO, L.P.

Location Eddy County, NM
Field Quahada Ridge, SE (Delaware)
Facility Hudson 1 Fed No. 9H

Slot No 9H SHL
Well No 9H
Wellbore No 9H PWB

Plot reference wellpath is Plan #2

True vertical depths are referenced to Rig on No. 9H SHL (RT)

Measured depths are referenced to Rig on No. 9H SHL (RT)

Rig on No. 9H SHL (RT) to Mean Sea Level: 3309 feet

Mean Sea Level to Mudline (Facility Hudson 1 Fed No. 9H): 3271 feet

Coordinates are in feet referenced to Facility Center

Grid System NAD83 / TM New Mexico State Planes Eastern Zone (3001) US feet

North Reference Grid north

Scale True distance

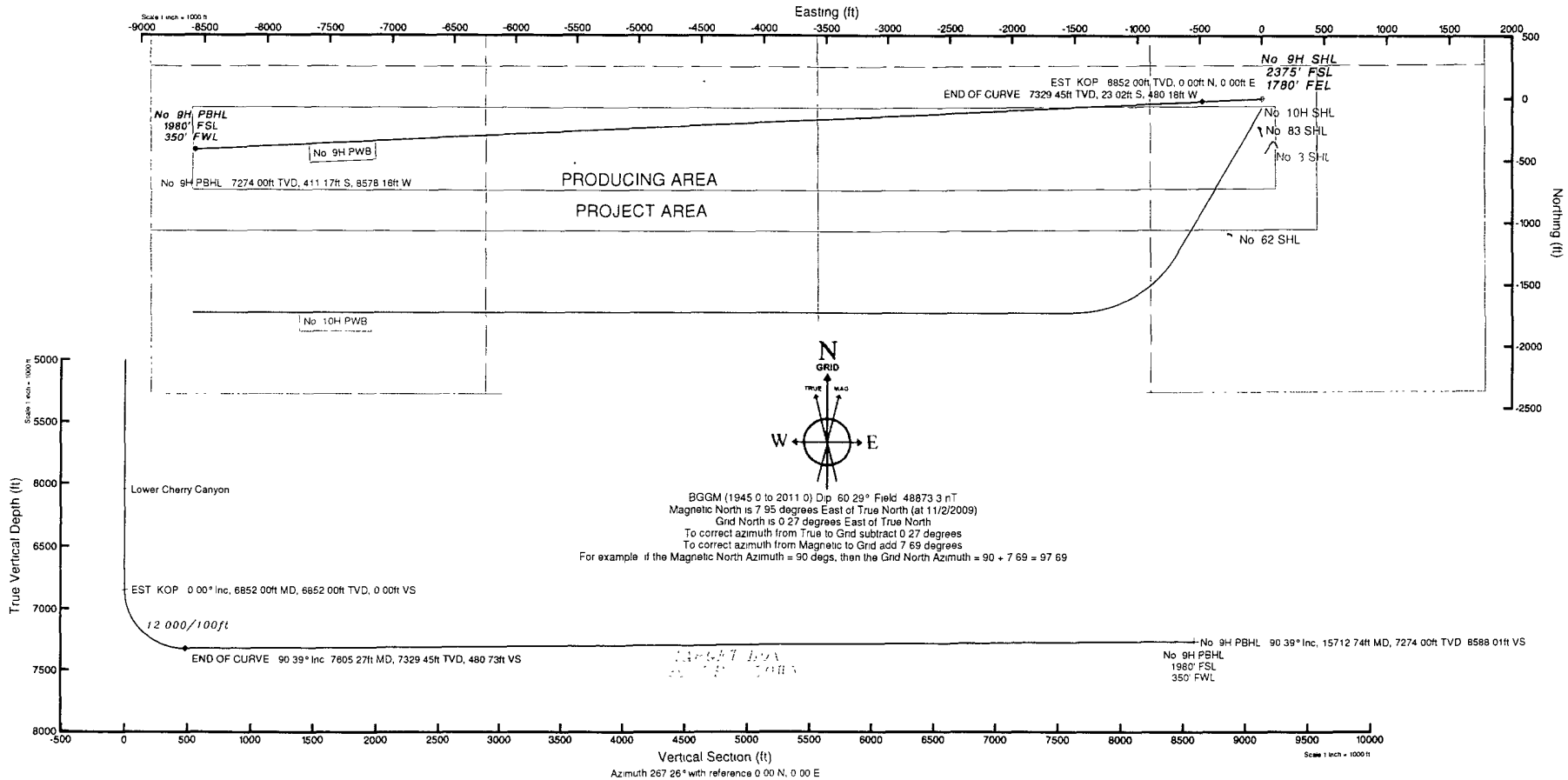
Depths are in feet

Created by Victor Hernandez on 2/1/2010



Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	0.00	0.000	267.256	0.00	0.00	0.00	0.00	0.00
EST KOP	6852.00	0.000	267.256	6852.00	0.00	0.00	0.00	0.00
END OF CURVE	7605.27	90.392	267.256	7329.45	-23.02	-480.18	12.00	480.73
No 9H PBHL	15712.74	90.392	267.256	7274.00	-411.17	-8578.16	0.00	8588.01





Planned Wellpath Report

Plan #2
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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 9H SHL
Area	Eddy County, NM	Well	No. 9H
Field	Quahada Ridge, SE (Delaware)	Wellbore	No. 9H PWB
Facility	Hudson 1 Fed No. 9H		

REPORT SETUP INFORMATION

Projection System	NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Victor Hernandez
Scale	0.999937	Report Generated	2/1/2010 at 3:00:53 PM
Convergence at slot	0.27° East	Database/Source file	WA_Midland/No. 9H_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	696371.30	485350.50	32°19'59.887"N	103°49'52.981"W
Facility Reference Pt			696371.30	485350.50	32°19'59.887"N	103°49'52.981"W
Field Reference Pt			696371.30	485350.50	32°19'59.887"N	103°49'52.981"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 9H SHL (RT) to Facility Vertical Datum	38.00ft
Horizontal Reference Pt	Facility Center	Rig on No. 9H SHL (RT) to Mean Sea Level	3309.00ft
Vertical Reference Pt	Rig on No. 9H SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 9H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	267.26°



Planned Wellpath Report

Plan #2
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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 9H SHL
Area	Eddy County, NM	Well	No. 9H
Field	Quahada Ridge, SE (Delaware)	Wellbore	No. 9H PWB
Facility	Hudson 1 Fed No. 9H		

WELLPATH DATA (99 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00	0.000	267.256	0.00	0.00	0.00	0.00	696371.30	485350.50	32°19'59.887"N	103°49'52.981"W	0.00	Tie On
197.00†	0.000	267.256	197.00	0.00	0.00	0.00	696371.30	485350.50	32°19'59.887"N	103°49'52.981"W	0.00	Rustler
507.00†	0.000	267.256	507.00	0.00	0.00	0.00	696371.30	485350.50	32°19'59.887"N	103°49'52.981"W	0.00	Base / Rustler
515.00†	0.000	267.256	515.00	0.00	0.00	0.00	696371.30	485350.50	32°19'59.887"N	103°49'52.981"W	0.00	Salt
3654.00†	0.000	267.256	3654.00	0.00	0.00	0.00	696371.30	485350.50	32°19'59.887"N	103°49'52.981"W	0.00	Base / Salt
3892.00†	0.000	267.256	3892.00	0.00	0.00	0.00	696371.30	485350.50	32°19'59.887"N	103°49'52.981"W	0.00	Lamar
3937.00†	0.000	267.256	3937.00	0.00	0.00	0.00	696371.30	485350.50	32°19'59.887"N	103°49'52.981"W	0.00	Ramsey
6047.00†	0.000	267.256	6047.00	0.00	0.00	0.00	696371.30	485350.50	32°19'59.887"N	103°49'52.981"W	0.00	Lower Cherry Canyon
6852.00	0.000	267.256	6852.00	0.00	0.00	0.00	696371.30	485350.50	32°19'59.887"N	103°49'52.981"W	0.00	EST. KOP
6952.00†	12.000	267.256	6951.22	10.43	-0.50	-10.42	696360.88	485350.00	32°19'59.882"N	103°49'53.102"W	12.00	
7052.00†	24.000	267.256	7046.20	41.28	-1.98	-41.23	696330.07	485348.52	32°19'59.869"N	103°49'53.461"W	12.00	
7152.00†	36.000	267.256	7132.65	91.19	-4.37	-91.08	696280.22	485346.13	32°19'59.848"N	103°49'54.042"W	12.00	
7252.00†	48.000	267.256	7206.83	157.98	-7.56	-157.80	696213.51	485342.94	32°19'59.819"N	103°49'54.820"W	12.00	
7352.00†	60.000	267.256	7265.50	238.73	-11.43	-238.46	696132.86	485339.07	32°19'59.784"N	103°49'55.760"W	12.00	
7452.00†	72.000	267.256	7306.10	329.92	-15.80	-329.53	696041.78	485334.71	32°19'59.745"N	103°49'56.822"W	12.00	
7552.00†	84.000	267.256	7326.85	427.56	-20.47	-427.07	695944.26	485330.03	32°19'59.704"N	103°49'57.959"W	12.00	
7605.27	90.392	267.256	7329.45	480.73	-23.02	-480.18	695891.15	485327.49	32°19'59.681"N	103°49'58.578"W	12.00	END OF CURVE
7652.00†	90.392	267.256	7329.13	527.46	-25.25	-526.86	695844.48	485325.25	32°19'59.661"N	103°49'59.122"W	0.00	
7752.00†	90.392	267.256	7328.45	627.46	-30.04	-626.74	695744.60	485320.46	32°19'59.618"N	103°50'00.287"W	0.00	
7852.00†	90.392	267.256	7327.77	727.46	-34.83	-726.62	695644.72	485315.67	32°19'59.576"N	103°50'01.451"W	0.00	
7952.00†	90.392	267.256	7327.08	827.46	-39.62	-826.51	695544.85	485310.89	32°19'59.533"N	103°50'02.615"W	0.00	
8052.00†	90.392	267.256	7326.40	927.45	-44.40	-926.39	695444.97	485306.10	32°19'59.490"N	103°50'03.780"W	0.00	
8152.00†	90.392	267.256	7325.71	1027.45	-49.19	-1026.27	695345.09	485301.31	32°19'59.447"N	103°50'04.944"W	0.00	
8252.00†	90.392	267.256	7325.03	1127.45	-53.98	-1126.16	695245.22	485296.52	32°19'59.404"N	103°50'06.108"W	0.00	
8352.00†	90.392	267.256	7324.35	1227.45	-58.77	-1226.04	695145.34	485291.74	32°19'59.362"N	103°50'07.273"W	0.00	
8452.00†	90.392	267.256	7323.66	1327.44	-63.55	-1325.92	695045.46	485286.95	32°19'59.319"N	103°50'08.437"W	0.00	
8552.00†	90.392	267.256	7322.98	1427.44	-68.34	-1425.81	694945.59	485282.16	32°19'59.276"N	103°50'09.601"W	0.00	
8652.00†	90.392	267.256	7322.29	1527.44	-73.13	-1525.69	694845.71	485277.38	32°19'59.233"N	103°50'10.766"W	0.00	
8752.00†	90.392	267.256	7321.61	1627.44	-77.92	-1625.57	694745.83	485272.59	32°19'59.191"N	103°50'11.930"W	0.00	
8852.00†	90.392	267.256	7320.93	1727.44	-82.70	-1725.45	694645.96	485267.80	32°19'59.148"N	103°50'13.095"W	0.00	



Planned Wellpath Report

Plan #2
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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 9H SHL
Area	Eddy County, NM	Well	No. 9H
Field	Quahada Ridge, SE (Delaware)	Wellbore	No. 9H PWB
Facility	Hudson 1 Fed No. 9H		

WELLPATH DATA (99 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8952.00†	90.392	267.256	7320.24	1827.43	-87.49	-1825.34	694546.08	485263.01	32°19'59.105"N	103°50'14.259"W	0.00	
9052.00†	90.392	267.256	7319.56	1927.43	-92.28	-1925.22	694446.21	485258.23	32°19'59.062"N	103°50'15.423"W	0.00	
9152.00†	90.392	267.256	7318.87	2027.43	-97.07	-2025.10	694346.33	485253.44	32°19'59.019"N	103°50'16.588"W	0.00	
9252.00†	90.392	267.256	7318.19	2127.43	-101.85	-2124.99	694246.45	485248.65	32°19'58.977"N	103°50'17.752"W	0.00	
9352.00†	90.392	267.256	7317.51	2227.42	-106.64	-2224.87	694146.58	485243.86	32°19'58.934"N	103°50'18.916"W	0.00	
9452.00†	90.392	267.256	7316.82	2327.42	-111.43	-2324.75	694046.70	485239.08	32°19'58.891"N	103°50'20.081"W	0.00	
9552.00†	90.392	267.256	7316.14	2427.42	-116.22	-2424.64	693946.82	485234.29	32°19'58.848"N	103°50'21.245"W	0.00	
9652.00†	90.392	267.256	7315.45	2527.42	-121.01	-2524.52	693846.95	485229.50	32°19'58.805"N	103°50'22.409"W	0.00	
9752.00†	90.392	267.256	7314.77	2627.41	-125.79	-2624.40	693747.07	485224.72	32°19'58.762"N	103°50'23.574"W	0.00	
9852.00†	90.392	267.256	7314.09	2727.41	-130.58	-2724.28	693647.19	485219.93	32°19'58.720"N	103°50'24.738"W	0.00	
9952.00†	90.392	267.256	7313.40	2827.41	-135.37	-2824.17	693547.32	485215.14	32°19'58.677"N	103°50'25.902"W	0.00	
10052.00†	90.392	267.256	7312.72	2927.41	-140.16	-2924.05	693447.44	485210.35	32°19'58.634"N	103°50'27.067"W	0.00	
10152.00†	90.392	267.256	7312.03	3027.41	-144.94	-3023.93	693347.56	485205.57	32°19'58.591"N	103°50'28.231"W	0.00	
10252.00†	90.392	267.256	7311.35	3127.40	-149.73	-3123.82	693247.69	485200.78	32°19'58.548"N	103°50'29.395"W	0.00	
10352.00†	90.392	267.256	7310.67	3227.40	-154.52	-3223.70	693147.81	485195.99	32°19'58.505"N	103°50'30.560"W	0.00	
10452.00†	90.392	267.256	7309.98	3327.40	-159.31	-3323.58	693047.93	485191.20	32°19'58.463"N	103°50'31.724"W	0.00	
10552.00†	90.392	267.256	7309.30	3427.40	-164.09	-3423.47	692948.06	485186.42	32°19'58.420"N	103°50'32.888"W	0.00	
10652.00†	90.392	267.256	7308.61	3527.39	-168.88	-3523.35	692848.18	485181.63	32°19'58.377"N	103°50'34.053"W	0.00	
10752.00†	90.392	267.256	7307.93	3627.39	-173.67	-3623.23	692748.31	485176.84	32°19'58.334"N	103°50'35.217"W	0.00	
10852.00†	90.392	267.256	7307.25	3727.39	-178.46	-3723.11	692648.43	485172.06	32°19'58.291"N	103°50'36.381"W	0.00	
10952.00†	90.392	267.256	7306.56	3827.39	-183.24	-3823.00	692548.55	485167.27	32°19'58.248"N	103°50'37.546"W	0.00	
11052.00†	90.392	267.256	7305.88	3927.38	-188.03	-3922.88	692448.68	485162.48	32°19'58.206"N	103°50'38.710"W	0.00	
11152.00†	90.392	267.256	7305.19	4027.38	-192.82	-4022.76	692348.80	485157.69	32°19'58.163"N	103°50'39.874"W	0.00	
11252.00†	90.392	267.256	7304.51	4127.38	-197.61	-4122.65	692248.92	485152.91	32°19'58.120"N	103°50'41.039"W	0.00	
11352.00†	90.392	267.256	7303.83	4227.38	-202.40	-4222.53	692149.05	485148.12	32°19'58.077"N	103°50'42.203"W	0.00	
11452.00†	90.392	267.256	7303.14	4327.37	-207.18	-4322.41	692049.17	485143.33	32°19'58.034"N	103°50'43.367"W	0.00	
11552.00†	90.392	267.256	7302.46	4427.37	-211.97	-4422.30	691949.29	485138.54	32°19'57.991"N	103°50'44.532"W	0.00	
11652.00†	90.392	267.256	7301.77	4527.37	-216.76	-4522.18	691849.42	485133.76	32°19'57.948"N	103°50'45.696"W	0.00	
11752.00†	90.392	267.256	7301.09	4627.37	-221.54	-4622.06	691749.54	485128.97	32°19'57.905"N	103°50'46.860"W	0.00	
11852.00†	90.392	267.256	7300.41	4727.37	-226.33	-4721.94	691649.66	485124.18	32°19'57.863"N	103°50'48.025"W	0.00	



Planned Wellpath Report

Plan #2
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REFERENCE.WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 9H SHL
Area	Eddy County, NM	Well	No. 9H
Field	Quahada Ridge, SE (Delaware)	Wellbore	No. 9H PWB
Facility	Hudson 1 Fed No. 9H		

WELLPATH DATA (99 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
11952.00†	90.392	267.256	7299.72	4827.36	-231.12	-4821.83	691549.79	485119.40	32°19'57.820"N	103°50'49.189"W	0.00	
12052.00†	90.392	267.256	7299.04	4927.36	-235.91	-4921.71	691449.91	485114.61	32°19'57.777"N	103°50'50.353"W	0.00	
12152.00†	90.392	267.256	7298.35	5027.36	-240.70	-5021.59	691350.04	485109.82	32°19'57.734"N	103°50'51.518"W	0.00	
12252.00†	90.392	267.256	7297.67	5127.36	-245.48	-5121.48	691250.16	485105.03	32°19'57.691"N	103°50'52.682"W	0.00	
12352.00†	90.392	267.256	7296.99	5227.35	-250.27	-5221.36	691150.28	485100.25	32°19'57.648"N	103°50'53.846"W	0.00	
12452.00†	90.392	267.256	7296.30	5327.35	-255.06	-5321.24	691050.41	485095.46	32°19'57.605"N	103°50'55.011"W	0.00	
12552.00†	90.392	267.256	7295.62	5427.35	-259.85	-5421.13	690950.53	485090.67	32°19'57.562"N	103°50'56.175"W	0.00	
12652.00†	90.392	267.256	7294.93	5527.35	-264.63	-5521.01	690850.65	485085.88	32°19'57.519"N	103°50'57.339"W	0.00	
12752.00†	90.392	267.256	7294.25	5627.34	-269.42	-5620.89	690750.78	485081.10	32°19'57.477"N	103°50'58.504"W	0.00	
12852.00†	90.392	267.256	7293.57	5727.34	-274.21	-5720.77	690650.90	485076.31	32°19'57.434"N	103°50'59.668"W	0.00	
12952.00†	90.392	267.256	7292.88	5827.34	-279.00	-5820.66	690551.02	485071.52	32°19'57.391"N	103°51'00.832"W	0.00	
13052.00†	90.392	267.256	7292.20	5927.34	-283.78	-5920.54	690451.15	485066.73	32°19'57.348"N	103°51'01.997"W	0.00	
13152.00†	90.392	267.256	7291.51	6027.34	-288.57	-6020.42	690351.27	485061.95	32°19'57.305"N	103°51'03.161"W	0.00	
13252.00†	90.392	267.256	7290.83	6127.33	-293.36	-6120.31	690251.39	485057.16	32°19'57.262"N	103°51'04.325"W	0.00	
13352.00†	90.392	267.256	7290.15	6227.33	-298.15	-6220.19	690151.52	485052.37	32°19'57.219"N	103°51'05.490"W	0.00	
13452.00†	90.392	267.256	7289.46	6327.33	-302.93	-6320.07	690051.64	485047.59	32°19'57.176"N	103°51'06.654"W	0.00	
13552.00†	90.392	267.256	7288.78	6427.33	-307.72	-6419.96	689951.76	485042.80	32°19'57.133"N	103°51'07.818"W	0.00	
13652.00†	90.392	267.256	7288.10	6527.32	-312.51	-6519.84	689851.89	485038.01	32°19'57.090"N	103°51'08.983"W	0.00	
13752.00†	90.392	267.256	7287.41	6627.32	-317.30	-6619.72	689752.01	485033.22	32°19'57.047"N	103°51'10.147"W	0.00	
13852.00†	90.392	267.256	7286.73	6727.32	-322.08	-6719.60	689652.14	485028.44	32°19'57.004"N	103°51'11.311"W	0.00	
13952.00†	90.392	267.256	7286.04	6827.32	-326.87	-6819.49	689552.26	485023.65	32°19'56.961"N	103°51'12.476"W	0.00	
14052.00†	90.392	267.256	7285.36	6927.31	-331.66	-6919.37	689452.38	485018.86	32°19'56.918"N	103°51'13.640"W	0.00	
14152.00†	90.392	267.256	7284.68	7027.31	-336.45	-7019.25	689352.51	485014.07	32°19'56.875"N	103°51'14.804"W	0.00	
14252.00†	90.392	267.256	7283.99	7127.31	-341.23	-7119.14	689252.63	485009.29	32°19'56.833"N	103°51'15.969"W	0.00	
14352.00†	90.392	267.256	7283.31	7227.31	-346.02	-7219.02	689152.75	485004.50	32°19'56.790"N	103°51'17.133"W	0.00	
14452.00†	90.392	267.256	7282.62	7327.30	-350.81	-7318.90	689052.88	484999.71	32°19'56.747"N	103°51'18.297"W	0.00	
14552.00†	90.392	267.256	7281.94	7427.30	-355.60	-7418.78	688953.00	484994.93	32°19'56.704"N	103°51'19.462"W	0.00	
14652.00†	90.392	267.256	7281.26	7527.30	-360.39	-7518.67	688853.12	484990.14	32°19'56.661"N	103°51'20.626"W	0.00	
14752.00†	90.392	267.256	7280.57	7627.30	-365.17	-7618.55	688753.25	484985.35	32°19'56.618"N	103°51'21.790"W	0.00	
14852.00†	90.392	267.256	7279.89	7727.30	-369.96	-7718.43	688653.37	484980.56	32°19'56.575"N	103°51'22.955"W	0.00	



Planned Wellpath Report

Plan #2
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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 9H SHL
Area	Eddy County, NM	Well	No. 9H
Field	Quahada Ridge, SE (Delaware)	Wellbore	No. 9H PWB
Facility	Hudson 1 Fed No. 9H		

WELLPATH DATA (99 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
14952.00†	90.392	267.256	7279.20	7827.29	-374.75	-7818.32	688553.49	484975.78	32°19'56.532"N	103°51'24.119"W	0.00	
15052.00†	90.392	267.256	7278.52	7927.29	-379.54	-7918.20	688453.62	484970.99	32°19'56.489"N	103°51'25.283"W	0.00	
15152.00†	90.392	267.256	7277.84	8027.29	-384.32	-8018.08	688353.74	484966.20	32°19'56.446"N	103°51'26.448"W	0.00	
15252.00†	90.392	267.256	7277.15	8127.29	-389.11	-8117.97	688253.86	484961.41	32°19'56.403"N	103°51'27.612"W	0.00	
15352.00†	90.392	267.256	7276.47	8227.28	-393.90	-8217.85	688153.99	484956.63	32°19'56.360"N	103°51'28.776"W	0.00	
15452.00†	90.392	267.256	7275.78	8327.28	-398.69	-8317.73	688054.11	484951.84	32°19'56.317"N	103°51'29.941"W	0.00	
15552.00†	90.392	267.256	7275.10	8427.28	-403.47	-8417.61	687954.24	484947.05	32°19'56.274"N	103°51'31.105"W	0.00	
15652.00†	90.392	267.256	7274.42	8527.28	-408.26	-8517.50	687854.36	484942.27	32°19'56.231"N	103°51'32.269"W	0.00	
15712.74	90.392	267.256	7274.00	8588.01	-413.17	-8578.16	687793.70	484939.36	32°19'56.205"N	103°51'32.976"W	0.00	No. 9H PBHL

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 9H PBHL	15712.74	7274.00	-413.17	-8578.16	687793.70	484939.36	32°19'56.205"N	103°51'32.976"W	point

SURVEY PROGRAM Ref Wellbore: No. 9H PWB Ref Wellpath: Plan #2

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
38.00	15712.74	NaviTrak (Standard)		No. 9H PWB