

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: SWNE, UL G, 2619' FNL, 2020' FWL, Lat N32.363058, Long W103.835889**Bottom Hole: 660' FNL, 350' FWL, Sec 27, T22S, R30E, Lat: N32.368522, Long: W103.875961**

5 Lease Serial No.

NM-02952A

6 If Indian, Allottee or Tribe Name

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

James Ranch NMNM 70965X

8. Well Name and No.

James Ranch Unit #141H

9 API Well No.

30-015-3997210 Field and Pool, or Exploratory Area
Quahada Ridge SE (Delaware)

11. County or Parish, State

Sec 25, 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 Plug Back and Sidetrack.
	☒ 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. would like to submit this sundry as a follow up to verbal approval given on 4-14-12 to sidetrack the 8-3/4" wellbore on the JRU #141H. An unsuccessful attempt was made to retrieve a stuck BHA consisting of 144.4' of Baker RSS and 6 joints of 5" HWDP totalling 331.0' of fish. TOF was left at 7642' and a plug was set from 6760' to 6123' (verified by tagging) consisting of 335sks Halcem-H + additives at 15.6ppg, 1.19 cuft/sk. A second sidetrack plug was set from 4550' to 4120' consisting of 415sks Halcem-H + additives at 17.5ppg, 0.96 cuft/sk. The 8-3/4" hole section will be sidetracked and re-drilled according to attached Baker Directional Plan. The 7" casing will be set into the original lease boundary as per original APD.

Accepted for record
NMOC

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

RECEIVED

APR 30 2012

NMOC ARTESIA

APPROVED

APR 14 2012

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)**Charles Warne**Title **Drilling Engineer**

Signature

*Charles Warne*Date **4-18-12**

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)

HALLIBURTON

Cementing Permian Basin, Hobbs

LAB RESULTS - Plug

Job Information

Request/Slurry	229474/1	Rig Name	LATSHAW DRILLING #18	Date	12/APR/2012
Submitted By	Juan Jimenez - Ecuador	Job Type	KOP	Bulk Plant	Hobbs, NM
Customer	BOPCO, LP	Location	Eddy	Well	James Ranch Unit #141H

Well Information

Casing/Liner Size	4 1/2"	Depth MD	4550 7300 ft	BHST	135 F
Hole Size	8 3/4"	Depth TVD	4550 7300 ft	BHCT	116 F

Drilling Fluid Information

Mud Supplier Name	Mud Trade Name	Density	9.2 PPG
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Cement Information - Plug Design

Conc	UOM	Cement/Additive	Sample Type	Sample Date	Lot No.	Cement Properties		
		PlugCem				Slurry Density	17.50	PPG
100.00	% BWOC	Cemex Premium H				Slurry Yield	.95	ft3/sk
0.350	% BWOC	CFR-3 (PB)				Water Requirement	3.39	GPS
3.000	% BWOW	KCl (Potassium Chloride) Salt				Total Mix Fluid	3.39	GPS
0.250	% BWOC	HR-601						
3.39	gal/sack	Fresh Water				Water Source	Fresh Water	
0.350	% BWOC	HALAD-322				Water Chloride	N/A	ppm

Pilot Test Results Request ID: 229474/1

Thickening Time - ON-OFF-ON! Request Test ID: 2381117

Test Temp (°F)	Pressure (psi)	Reached in (min)	70 Bc (hh:min)
116	5,300	15	02.31

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HALLIBURTON

Cementing Permian Basin, Hobbs

LAB RESULTS - Plug

Job Information

Request/Slurry	229919/1	Rig Name	LATSHAW DRILLING #18	Date	13/APR/2012
Submitted By	Juan Jimenez - Ecuador	Job Type	KOP	Bulk Plant	Hobbs, NM
Customer	BOPCO, LP	Location	Eddy	Well	James Ranch Unit #141H

Well Information

Casing/Liner Size	4 1/2"	Depth MD	6760.4578 ft	BHST	114 F
Hole Size	8 3/4"	Depth TVD	6760.4578 ft	BHCT	99 F

Drilling Fluid Information

Mud Supplier Name	Mud Trade Name	Density	9.2 PPG
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Cement Information - Plug Design

Conc	UOM	Cement/Additive	Sample Type	Sample Date	Lot No.	Cement Properties	
		PlugCem				Slurry Density	15.60 PPG
100 00	% BWOC	Cemex Premium H				Slurry Yield	1 18 ft3/sk
0 400	% BWOC	CFR-3 (PB)				Water Requirement	5.25 GPS
5 25	gal/sack	Fresh Water				Total Mix Fluid	5.25 GPS
						Water Source	Fresh Water
						Water Chloride	N/A ppm

Pilot Test Results Request ID: 229919/1

Thickening Time - ON-OFF-ON, Request Test ID: 2386856

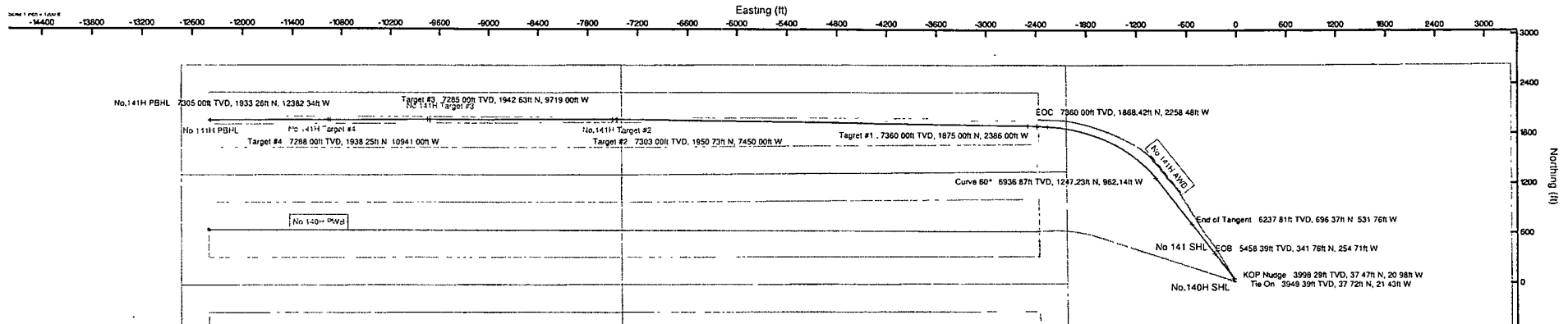
Test Temp (°F)	Pressure (psi)	Reached in (min)	70 Bc (hh:min)	Stirring before stop (mins)	Static Period (min)
99	3,700	15	03.30	45	30

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BOPCO, L.P.

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

Slot	No.141 SHL
Well	No.141H ST01
Wellbore	No.141H ST01 AWB

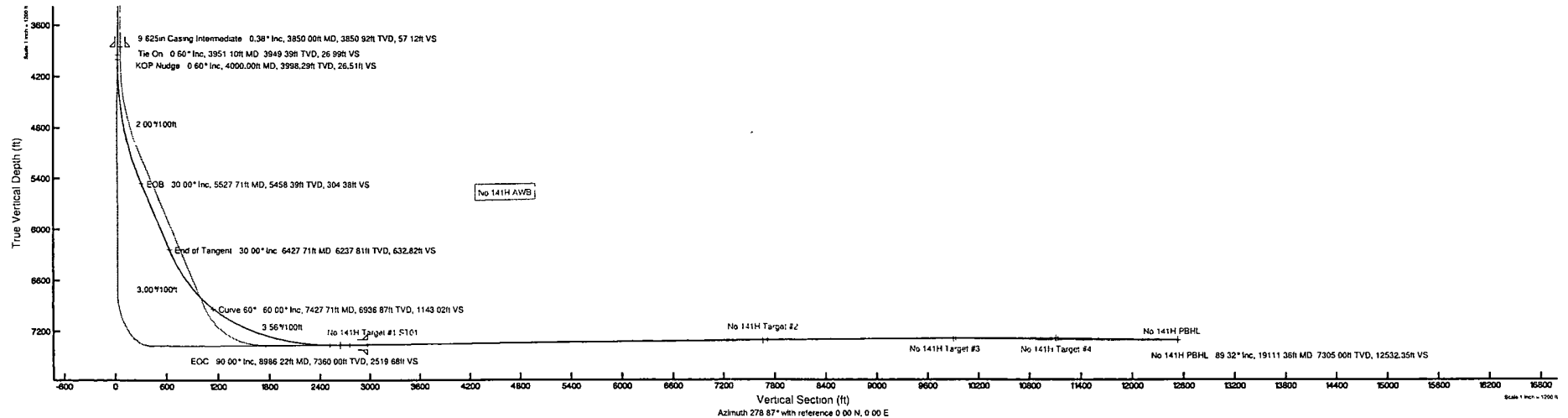


Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°1000ft)	VS (ft)
Tie On	3951.10	0.600	119.290	3949.39	37.72	-21.43	0.00	26.99
KOP EDB	4000.00	0.600	119.290	3958.29	37.47	-20.98	0.00	26.51
EOB	5527.71	30.000	322.000	5458.39	341.76	-254.71	2.00	304.38
End of Tangent	6427.71	30.000	322.000	6237.81	696.37	-531.76	0.00	632.82
Curve 60°	7427.71	60.000	322.000	6938.87	1247.23	-962.14	3.00	1143.02
EOC	8986.22	90.000	272.958	7360.00	1868.42	-2258.48	3.56	2519.68
TL	8986.53	90.000	272.952	7360.00	1868.44	-2258.80	2.00	2519.99
Tagret #1	9113.90	90.000	272.952	7360.00	1875.00	-2386.00	0.00	2646.68
Build	9224.71	90.652	270.834	7359.37	1878.66	-2496.74	2.00	2756.66
Target #2	14178.82	90.652	270.834	7303.00	1950.73	-7450.00	2.00	7661.75
Drop	14232.28	90.452	269.783	7302.48	1951.02	-7503.46	2.00	7714.61
Target #3	16447.91	90.452	269.783	7285.00	1942.63	-9719.00	0.00	9902.34
Drop	16477.92	89.852	269.795	7284.92	1942.52	-9749.01	2.00	9931.98
Target #4	17669.92	89.852	269.795	7288.00	1938.25	-10941.00	0.00	11109.03
Drop	17696.55	89.319	268.802	7288.19	1938.16	-10967.63	2.00	11135.33
No 141H PBHL	19111.36	89.319	268.802	7305.00	1933.26	-12382.34	0.00	12532.35



BGGM (1948.0 to 2013.0) Dip: 60.22° Field: 48407.5 nT
Magnetic North = 7.71 degrees East of True North (at 2/23/2013)
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

Plot reference weight is Rev-B.0 S121	
True vertical depths are referenced to Rig on No.141 SHL (KB)	Grid System: NA2027 / TM New Mexico SP, Eastern Zone (0001), US feet
Measured depths are referenced to Rig on No.141 SHL (KB)	North Reference: Grid north
Rig on No.141 SHL (KB) to Mean Sea Level= 3270 feet	Scale: True distance
Mean Sea Level to Must line (At) Site No. 141 SHL: 0 feet	Depths are in feet
Coordinates are in feet referenced to Site	Created by: gomesor on 4/12/2012





Planned Wellpath Report

Rev-B.0 ST01

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.141 SHL
Area	Eddy County, NM	Well	No.141H ST01
Field	JRU NAD27	Wellbore	No.141H ST01 AWB
Facility	(JRU) No.140H & No.141H	Sidetrack from	No.141H AWB at 3951.10 MD

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	Gomeoscr
Scale	0.999936	Report Generated	4/12/2012 at 11:35:59 AM
Convergence at slot	0.27° East	Database/Source file	WA Midland/No.141H_ST01_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-1.00	40.40	653595.40	496151.80	32°21'47.000"N	103°50'09.198"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.141 SHL (KB) to Facility Vertical Datum	3376.00ft
Horizontal Reference Pt	Slot	Rig on No.141 SHL (KB) to Mean Sea Level	3376.00ft
Vertical Reference Pt	Rig on No.141 SHL (KB)	Rig on No.141 SHL (KB) to Mud Line at Slot (No.141 SHL)	3376.00ft
MD Reference Pt	Rig on No.141 SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	278.87°



Planned Wellpath Report

Rev-B.0 ST01

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BAKER HUGHES

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.141 SHL
Area	Eddy County, NM	Well	No.141H ST01
Field	JRU NAD27	Wellbore	No.141H ST01 AWB
Facility	(JRU) No.140H & No.141H	Sidetrack from	No.141H AWB at 3951.10 MD

WELLPATH DATA (207 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	285.940	0.00	0.00	0.00	0.00	653595.40	496151.80	32°21'47.000"N	103°50'09.198"W	0.00	
100.00	1.170	285.940	99.99	1.01	0.28	-0.98	653594.42	496152.08	32°21'47.002"N	103°50'09.210"W	1.17	
200.00	1.970	289.330	199.95	3.72	1.13	-3.59	653591.81	496152.93	32°21'47.011"N	103°50'09.240"W	0.81	
300.00	2.120	292.270	299.89	7.21	2.40	-6.92	653588.48	496154.20	32°21'47.024"N	103°50'09.279"W	0.18	
400.00	2.240	289.520	399.82	10.93	3.75	-10.47	653584.93	496155.53	32°21'47.037"N	103°50'09.320"W	0.16	
500.00	2.360	295.100	499.74	14.82	5.28	-14.18	653581.22	496157.08	32°21'47.053"N	103°50'09.364"W	0.25	
600.00	2.580	286.580	599.65	19.03	6.80	-18.20	653577.20	496158.60	32°21'47.068"N	103°50'09.410"W	0.43	
700.00	2.630	288.160	699.54	23.53	8.15	-22.54	653572.86	496159.95	32°21'47.081"N	103°50'09.461"W	0.09	
822.40	5.170	320.490	821.66	30.42	13.28	-28.72	653566.69	496165.08	32°21'47.132"N	103°50'09.533"W	2.67	
920.20	3.270	199.20	919.21	34.06	19.47	-31.43	653563.97	496171.27	32°21'47.194"N	103°50'09.564"W	3.55	
1018.00	3.360	0.950	1016.85	34.79	25.13	-31.29	653564.12	496176.93	32°21'47.250"N	103°50'09.562"W	0.11	
1115.70	3.180	336.390	1114.40	36.64	30.47	-32.32	653563.08	496182.27	32°21'47.303"N	103°50'09.574"W	1.43	
1213.50	2.340	350.320	1212.08	38.73	34.93	-33.75	653561.66	496186.72	32°21'47.347"N	103°50'09.590"W	1.09	
1311.30	2.590	6.720	1309.79	39.45	39.09	-33.82	653561.58	496190.89	32°21'47.388"N	103°50'09.591"W	0.76	
1409.10	1.590	13.510	1407.53	39.42	42.60	-33.25	653562.15	496194.40	32°21'47.423"N	103°50'09.584"W	1.05	
1506.80	0.630	38.730	1505.21	39.05	44.34	-32.60	653562.81	496196.14	32°21'47.440"N	103°50'09.576"W	1.08	
1604.60	0.650	43.410	1603.00	38.46	45.16	-31.88	653563.52	496196.96	32°21'47.448"N	103°50'09.568"W	0.06	
1702.40	0.450	40.370	1700.80	37.95	45.86	-31.25	653564.15	496197.66	32°21'47.455"N	103°50'09.560"W	0.21	
1800.10	0.250	61.140	1798.49	37.58	46.25	-30.81	653564.59	496198.05	32°21'47.459"N	103°50'09.555"W	0.24	
1897.90	0.280	100.970	1896.29	37.17	46.51	-30.39	653565.01	496198.11	32°21'47.459"N	103°50'09.550"W	0.19	
1995.70	0.300	87.520	1994.09	36.68	46.28	-29.90	653565.50	496198.07	32°21'47.459"N	103°50'09.545"W	0.07	
2093.40	0.170	52.800	2091.79	36.33	46.38	-29.53	653565.87	496198.17	32°21'47.460"N	103°50'09.540"W	0.19	
2191.20	0.110	329.110	2189.59	36.29	46.54	-29.46	653565.94	496198.34	32°21'47.462"N	103°50'09.539"W	0.20	
2289.00	0.110	234.380	2287.39	36.42	46.57	-29.59	653565.82	496198.37	32°21'47.462"N	103°50'09.541"W	0.17	
2386.80	0.090	185.830	2385.19	36.48	46.44	-29.67	653565.73	496198.24	32°21'47.461"N	103°50'09.542"W	0.09	
2484.50	0.130	52.930	2482.89	36.40	46.43	-29.59	653565.81	496198.23	32°21'47.460"N	103°50'09.541"W	0.21	
2582.30	0.150	345.640	2580.69	36.37	46.62	-29.53	653565.87	496198.42	32°21'47.462"N	103°50'09.540"W	0.16	
2680.10	0.200	317.810	2678.49	36.55	46.87	-29.68	653565.72	496198.67	32°21'47.465"N	103°50'09.542"W	0.10	
2777.80	0.310	297.570	2776.19	36.94	47.12	-30.03	653565.37	496198.92	32°21'47.467"N	103°50'09.546"W	0.14	
2875.60	0.260	316.390	2873.99	37.36	47.40	-30.42	653564.99	496199.20	32°21'47.470"N	103°50'09.551"W	0.11	
2973.40	0.330	125.900	2971.79	37.29	47.40	-30.34	653565.06	496199.19	32°21'47.470"N	103°50'09.550"W	0.60	
3071.10	0.930	126.300	3069.48	36.34	46.76	-29.47	653565.93	496198.56	32°21'47.464"N	103°50'09.540"W	0.61	
3168.90	1.180	129.080	3167.27	34.76	45.66	-28.05	653567.35	496197.46	32°21'47.453"N	103°50'09.523"W	0.26	
3266.70	0.920	142.230	3265.05	33.32	44.40	-26.79	653568.61	496196.20	32°21'47.440"N	103°50'09.508"W	0.36	
3364.40	0.870	167.190	3362.74	32.47	43.06	-26.15	653569.26	496194.86	32°21'47.427"N	103°50'09.501"W	0.40	
3462.20	0.770	152.870	3460.53	31.81	41.75	-25.68	653569.72	496193.55	32°21'47.414"N	103°50'09.496"W	0.23	
3560.00	0.910	139.000	3558.32	30.83	40.58	-24.87	653570.53	496192.38	32°21'47.402"N	103°50'09.486"W	0.25	
3657.80	0.750	129.420	3656.11	29.69	39.59	-23.87	653571.53	496191.38	32°21'47.392"N	103°50'09.475"W	0.22	
3755.50	0.610	130.900	3753.80	28.70	38.84	-22.98	653572.42	496190.64	32°21'47.385"N	103°50'09.464"W	0.14	
3853.30	0.520	126.700	3851.59	27.86	38.23	-22.23	653573.17	496190.03	32°21'47.379"N	103°50'09.456"W	0.10	
3951.10	0.600	119.290	3949.39	26.99	37.72	-21.43	653573.97	496189.52	32°21'47.374"N	103°50'09.446"W	0.00	Tie On
4000.00	0.600	119.290	3998.29	26.51	37.47	-20.98	653574.42	496189.27	32°21'47.371"N	103°50'09.441"W	0.00	KOP Nudge
4051.10†	0.520	347.614	4049.39	26.34	37.56	-20.80	653574.60	496189.36	32°21'47.372"N	103°50'09.439"W	2.00	
4151.10†	2.477	326.879	4149.35	27.96	39.82	-22.08	653573.32	496191.61	32°21'47.395"N	103°50'09.454"W	2.00	
4251.10†	4.473	324.519	4249.16	32.13	44.80	-25.52	653569.88	496196.60	32°21'47.444"N	103°50'09.494"W	2.00	



Planned Wellpath Report

Rev-B.0 ST01

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.		Slot	No.141 SHL
Area	Eddy County, NM		Well	No.141H ST01
Field	JRU NAD27		Wellbore	No.141H ST01 AWB
Facility	(JRU) No.140H & No.141H		Sidetrack from	No.141H AWB at 3951.10 MD

WELLPATH DATA (207 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
4351.10†	6.471	323.615	4348.70	38.86	52.52	-31.13	653564.27	496204.31	32°21'47.521"N	103°50'09.559"W	2.00	
4451.10†	8.470	323.136	4447.84	48.13	62.94	-38.89	653556.51	496214.74	32°21'47.624"N	103°50'09.648"W	2.00	
4551.10†	10.469	322.838	4546.48	59.95	76.08	-48.80	653546.61	496227.87	32°21'47.755"N	103°50'09.763"W	2.00	
4651.10†	12.469	322.636	4644.47	74.29	91.90	-60.84	653534.57	496243.70	32°21'47.912"N	103°50'09.903"W	2.00	
4751.10†	14.469	322.488	4741.72	91.13	110.39	-75.00	653520.41	496262.19	32°21'48.095"N	103°50'10.067"W	2.00	
4851.10†	16.468	322.376	4838.09	110.46	131.53	-91.26	653504.15	496283.32	32°21'48.305"N	103°50'10.255"W	2.00	
4951.10†	18.468	322.288	4933.48	132.25	155.29	-109.60	653485.80	496307.08	32°21'48.541"N	103°50'10.468"W	2.00	
5051.10†	20.468	322.216	5027.75	156.47	181.64	-130.01	653465.40	496337.43	32°21'48.803"N	103°50'10.704"W	2.00	
5151.10†	22.468	322.156	5120.81	183.10	210.55	-152.44	653442.97	496362.34	32°21'49.090"N	103°50'10.964"W	2.00	
5251.10†	24.468	322.106	5212.53	212.10	241.99	-176.89	653418.52	496393.77	32°21'49.402"N	103°50'11.248"W	2.00	
5351.10†	26.468	322.063	5302.81	243.44	275.91	-203.31	653392.10	496427.69	32°21'49.739"N	103°50'11.554"W	2.00	
5451.10†	28.468	322.026	5391.54	277.08	312.28	-231.68	653363.73	496464.06	32°21'50.100"N	103°50'11.883"W	2.00	
5527.71	30.000	322.000	5458.39	304.38	341.76	-254.71	653340.71	496493.54	32°21'50.393"N	103°50'12.149"W	2.00	EOB
5551.10†	30.000	322.000	5478.64	312.92	350.98	-261.91	653333.51	496502.76	32°21'50.485"N	103°50'12.233"W	0.00	
5651.10†	30.000	322.000	5565.24	349.41	390.38	-292.69	653302.73	496542.15	32°21'50.876"N	103°50'12.590"W	0.00	
5751.10†	30.000	322.000	5651.85	385.90	429.78	-323.48	653271.95	496581.55	32°21'51.267"N	103°50'12.946"W	0.00	
5851.10†	30.000	322.000	5738.45	422.39	469.18	-354.26	653241.17	496620.95	32°21'51.659"N	103°50'13.303"W	0.00	
5951.10†	30.000	322.000	5825.05	458.89	508.58	-385.04	653210.38	496660.35	32°21'52.050"N	103°50'13.660"W	0.00	
6051.10†	30.000	322.000	5911.65	495.38	547.98	-415.82	653179.60	496699.75	32°21'52.441"N	103°50'14.017"W	0.00	
6151.10†	30.000	322.000	5998.26	531.87	587.38	-446.61	653148.82	496739.14	32°21'52.832"N	103°50'14.373"W	0.00	
6251.10†	30.000	322.000	6084.86	568.36	626.78	-477.39	653118.04	496778.54	32°21'53.224"N	103°50'14.730"W	0.00	
6351.10†	30.000	322.000	6171.46	604.86	666.18	-508.17	653087.26	496817.94	32°21'53.615"N	103°50'15.087"W	0.00	
6427.71	30.000	322.000	6237.81	632.82	696.37	-531.76	653063.68	496848.12	32°21'53.915"N	103°50'15.360"W	0.00	End of Tangent
6451.10†	30.702	322.000	6257.99	641.44	705.68	-539.03	653056.40	496857.43	32°21'54.007"N	103°50'15.444"W	3.00	
6551.10†	33.702	322.000	6342.60	680.33	747.67	-571.84	653023.60	496899.42	32°21'54.424"N	103°50'15.825"W	3.00	
6651.10†	36.702	322.000	6424.30	722.40	793.09	-607.32	652988.12	496944.84	32°21'54.875"N	103°50'16.236"W	3.00	
6751.10†	39.702	322.000	6502.88	767.53	841.82	-645.39	652950.05	496993.56	32°21'55.359"N	103°50'16.677"W	3.00	
6851.10†	42.702	322.000	6578.11	815.60	893.72	-685.94	652909.50	497045.46	32°21'55.875"N	103°50'17.147"W	3.00	
6951.10†	45.702	322.000	6649.79	866.48	948.65	-728.86	652866.59	497100.39	32°21'56.420"N	103°50'17.644"W	3.00	
7051.10†	48.702	322.000	6717.73	920.02	1006.46	-774.03	652821.42	497158.20	32°21'56.994"N	103°50'18.168"W	3.00	
7151.10†	51.702	322.000	6781.73	976.09	1067.00	-821.33	652774.13	497218.73	32°21'57.595"N	103°50'18.716"W	3.00	
7251.10†	54.702	322.000	6841.62	1034.53	1130.09	-870.62	652724.84	497281.82	32°21'58.222"N	103°50'19.287"W	3.00	
7351.10†	57.702	322.000	6897.24	1095.17	1195.57	-921.78	652673.69	497347.29	32°21'58.872"N	103°50'19.880"W	3.00	
7427.71	60.000	322.000	6936.87	1143.02	1247.23	-962.14	652633.32	497398.95	32°21'59.385"N	103°50'20.348"W	3.00	Curve 60°
7451.10†	60.334	321.122	6948.50	1157.94	1263.12	-974.75	652620.71	497414.84	32°21'59.543"N	103°50'20.494"W	3.56	
7551.10†	61.825	317.434	6996.87	1224.58	1329.43	-1031.85	652563.61	497481.14	32°22'00.202"N	103°50'21.156"W	3.56	
7651.10†	63.413	313.851	7042.88	1295.71	1392.89	-1093.93	652501.54	497544.60	32°22'00.833"N	103°50'21.877"W	3.56	
7751.10†	65.087	310.369	7086.33	1371.04	1453.26	-1160.75	652434.73	497604.96	32°22'01.433"N	103°50'22.652"W	3.56	
7851.10†	66.840	306.982	7127.07	1450.28	1510.30	-1232.04	652363.44	497662.00	32°22'02.001"N	103°50'23.481"W	3.56	
7951.10†	68.664	303.684	7164.94	1533.13	1563.80	-1307.54	652287.94	497715.50	32°22'02.534"N	103°50'24.358"W	3.56	
8051.10†	70.550	300.468	7199.79	1619.27	1613.55	-1386.96	652208.53	497765.25	32°22'03.029"N	103°50'25.281"W	3.56	
8151.10†	72.492	297.328	7231.49	1708.36	1659.36	-1469.98	652125.51	497811.06	32°22'03.487"N	103°50'26.247"W	3.56	
8251.10†	74.482	294.255	7259.92	1800.08	1701.06	-1556.30	652039.20	497852.75	32°22'03.903"N	103°50'27.251"W	3.56	
8351.10†	76.514	291.241	7284.97	1894.05	1738.48	-1645.57	651949.94	497890.16	32°22'04.277"N	103°50'28.289"W	3.56	
8451.10†	78.581	288.278	7306.53	1989.93	1771.47	-1737.45	651858.06	497923.16	32°22'04.608"N	103°50'29.359"W	3.56	



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BAKER HUGHES

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.141 SHL
Area	Eddy County, NM	Well	No.141H ST01
Field	JRU NAD27	Wellbore	No.141H ST01 AWB
Facility	(JRU) No.140H & No.141H	Sidetrack from	No.141H AWB at 3951.10 MD

WELLPATH DATA (207 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
8551.10†	80.677	285.358	7324.54	2087.34	1799.92	-1831.60	651763.92	497951.60	32°22'04.894"N	103°50'30.455"W	3.56	
8651.10†	82.797	282.474	7338.91	2185.90	1823.71	-1927.64	651667.88	497975.39	32°22'05.134"N	103°50'31.574"W	3.56	
8751.10†	84.934	279.616	7349.60	2285.24	1842.75	-2025.21	651570.32	497994.43	32°22'05.326"N	103°50'32.710"W	3.56	
8851.10†	87.084	276.778	7356.56	2384.97	1856.97	-2123.94	651471.60	498008.65	32°22'05.472"N	103°50'33.860"W	3.56	
8951.10†	89.242	273.950	7359.77	2484.72	1866.31	-2223.43	651372.12	498017.99	32°22'05.569"N	103°50'35.020"W	3.56	
8986.22	90.000	272.958	7360.00	2519.68	1868.42	-2258.48	651337.07	498020.10	32°22'05.591"N	103°50'35.428"W	3.56	EOC
8986.53	90.000	272.952	7360.00	2519.99	1868.44	-2258.80	651336.75	498020.12	32°22'05.591"N	103°50'35.432"W	2.00	TL
9051.10†	90.000	272.952	7360.00	2584.21	1871.77	-2323.28	651272.27	498023.44	32°22'05.627"N	103°50'36.184"W	0.00	
9113.90	90.000	272.952	7360.00†	2646.68	1875.00	-2386.00	651209.56	498026.68	32°22'05.662"N	103°50'36.915"W	0.00	Tagret #1
9151.10†	90.219	272.241	7359.93	2683.65	1876.68	-2423.16	651172.40	498028.36	32°22'05.680"N	103°50'37.348"W	2.00	
9224.71	90.652	270.834	7359.37	2756.66	1878.66	-2496.74	651098.83	498030.34	32°22'05.703"N	103°50'38.205"W	2.00	Build
9251.10†	90.652	270.834	7359.07	2782.79	1879.04	-2523.12	651072.44	498030.72	32°22'05.708"N	103°50'38.513"W	0.00	
9351.10†	90.652	270.834	7357.93	2881.80	1880.50	-2623.11	650972.47	498032.17	32°22'05.727"N	103°50'39.679"W	0.00	
9451.10†	90.652	270.834	7356.79	2980.81	1881.95	-2723.09	650872.49	498033.63	32°22'05.746"N	103°50'40.844"W	0.00	
9551.10†	90.652	270.834	7355.66	3079.82	1883.41	-2823.07	650772.51	498035.08	32°22'05.765"N	103°50'42.010"W	0.00	
9651.10†	90.652	270.834	7354.52	3178.83	1884.86	-2923.05	650672.54	498036.54	32°22'05.784"N	103°50'43.175"W	0.00	
9751.10†	90.652	270.834	7353.38	3277.84	1886.32	-3023.04	650572.56	498037.99	32°22'05.803"N	103°50'44.341"W	0.00	
9851.10†	90.652	270.834	7352.24	3376.85	1887.77	-3123.02	650472.59	498039.45	32°22'05.822"N	103°50'45.507"W	0.00	
9951.10†	90.652	270.834	7351.10	3475.86	1889.23	-3223.00	650372.61	498040.90	32°22'05.840"N	103°50'46.672"W	0.00	
10051.10†	90.652	270.834	7349.97	3574.87	1890.68	-3322.99	650272.63	498042.36	32°22'05.859"N	103°50'47.838"W	0.00	
10151.10†	90.652	270.834	7348.83	3673.88	1892.14	-3422.97	650172.66	498043.81	32°22'05.878"N	103°50'49.003"W	0.00	
10251.10†	90.652	270.834	7347.69	3772.89	1893.59	-3522.95	650072.68	498045.27	32°22'05.897"N	103°50'50.169"W	0.00	
10351.10†	90.652	270.834	7346.55	3871.90	1895.05	-3622.94	649972.70	498046.72	32°22'05.916"N	103°50'51.335"W	0.00	
10451.10†	90.652	270.834	7345.42	3970.91	1896.50	-3722.92	649872.73	498048.18	32°22'05.935"N	103°50'52.500"W	0.00	
10551.10†	90.652	270.834	7344.28	4069.92	1897.96	-3822.90	649772.75	498049.63	32°22'05.954"N	103°50'53.666"W	0.00	
10651.10†	90.652	270.834	7343.14	4168.93	1899.41	-3922.88	649672.77	498051.08	32°22'05.973"N	103°50'54.831"W	0.00	
10751.10†	90.652	270.834	7342.00	4267.94	1900.86	-4022.87	649572.80	498052.54	32°22'05.992"N	103°50'55.997"W	0.00	
10851.10†	90.652	270.834	7340.86	4366.96	1902.32	-4122.85	649472.82	498053.99	32°22'06.010"N	103°50'57.163"W	0.00	
10951.10†	90.652	270.834	7339.73	4465.97	1903.77	-4222.83	649372.85	498055.45	32°22'06.029"N	103°50'58.328"W	0.00	
11051.10†	90.652	270.834	7338.59	4564.98	1905.23	-4322.82	649272.87	498056.90	32°22'06.048"N	103°50'59.494"W	0.00	
11151.10†	90.652	270.834	7337.45	4663.99	1906.68	-4422.80	649172.89	498058.36	32°22'06.067"N	103°51'00.660"W	0.00	
11251.10†	90.652	270.834	7336.31	4763.00	1908.14	-4522.78	649072.92	498059.81	32°22'06.086"N	103°51'01.825"W	0.00	
11351.10†	90.652	270.834	7335.17	4862.01	1909.59	-4622.76	648972.94	498061.27	32°22'06.105"N	103°51'02.991"W	0.00	
11451.10†	90.652	270.834	7334.04	4961.02	1911.05	-4722.75	648872.96	498062.72	32°22'06.124"N	103°51'04.156"W	0.00	
11551.10†	90.652	270.834	7332.90	5060.03	1912.50	-4822.73	648772.99	498064.18	32°22'06.142"N	103°51'05.322"W	0.00	
11651.10†	90.652	270.834	7331.76	5159.04	1913.96	-4922.71	648673.01	498065.63	32°22'06.161"N	103°51'06.488"W	0.00	
11751.10†	90.652	270.834	7330.62	5258.05	1915.41	-5022.70	648573.03	498067.09	32°22'06.180"N	103°51'07.653"W	0.00	
11851.10†	90.652	270.834	7329.49	5357.06	1916.87	-5122.68	648473.06	498068.54	32°22'06.199"N	103°51'08.819"W	0.00	
11951.10†	90.652	270.834	7328.35	5456.07	1918.32	-5222.66	648373.08	498070.00	32°22'06.218"N	103°51'09.984"W	0.00	
12051.10†	90.652	270.834	7327.21	5555.08	1919.78	-5322.65	648273.11	498071.45	32°22'06.237"N	103°51'11.150"W	0.00	
12151.10†	90.652	270.834	7326.07	5654.09	1921.23	-5422.63	648173.13	498072.90	32°22'06.255"N	103°51'12.316"W	0.00	
12251.10†	90.652	270.834	7324.93	5753.10	1922.69	-5522.61	648073.15	498074.36	32°22'06.274"N	103°51'13.481"W	0.00	
12351.10†	90.652	270.834	7323.80	5852.11	1924.14	-5622.59	647973.18	498075.81	32°22'06.293"N	103°51'14.647"W	0.00	
12451.10†	90.652	270.834	7322.66	5951.12	1925.60	-5722.58	647873.20	498077.27	32°22'06.312"N	103°51'15.812"W	0.00	
12551.10†	90.652	270.834	7321.52	6050.13	1927.05	-5822.56	647773.22	498078.72	32°22'06.331"N	103°51'16.978"W	0.00	



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BAKER HUGHES

REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.141 SHL
Area	Eddy County, NM	Well	No.141H ST01
Field	JRU NAD27	Wellbore	No.141H ST01 AWB
Facility	(JRU) No.140H & No.141H	Sidetrack from	No.141H AWB at 3951.10 MD

WELLPATH DATA (207 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
12651.10†	90.652	270.834	7320.38	6149.15	1928.51	-5922.54	647673.25	498080.18	32°22'06.350"N	103°51'18.144"W	0.00	
12751.10†	90.652	270.834	7319.25	6248.16	1929.96	-6022.53	647573.27	498081.63	32°22'06.368"N	103°51'19.309"W	0.00	
12851.10†	90.652	270.834	7318.11	6347.17	1931.41	-6122.51	647473.29	498083.09	32°22'06.387"N	103°51'20.475"W	0.00	
12951.10†	90.652	270.834	7316.97	6446.18	1932.87	-6222.49	647373.32	498084.54	32°22'06.406"N	103°51'21.640"W	0.00	
13051.10†	90.652	270.834	7315.83	6545.19	1934.32	-6322.47	647273.34	498086.00	32°22'06.425"N	103°51'22.806"W	0.00	
13151.10†	90.652	270.834	7314.69	6644.20	1935.78	-6422.46	647173.37	498087.45	32°22'06.444"N	103°51'23.972"W	0.00	
13251.10†	90.652	270.834	7313.56	6743.21	1937.23	-6522.44	647073.39	498088.91	32°22'06.462"N	103°51'25.137"W	0.00	
13351.10†	90.652	270.834	7312.42	6842.22	1938.69	-6622.42	646973.41	498090.36	32°22'06.481"N	103°51'26.303"W	0.00	
13451.10†	90.652	270.834	7311.28	6941.23	1940.14	-6722.41	646873.44	498091.82	32°22'06.500"N	103°51'27.468"W	0.00	
13551.10†	90.652	270.834	7310.14	7040.24	1941.60	-6822.39	646773.46	498093.27	32°22'06.519"N	103°51'28.634"W	0.00	
13651.10†	90.652	270.834	7309.00	7139.25	1943.05	-6922.37	646673.48	498094.72	32°22'06.538"N	103°51'29.800"W	0.00	
13751.10†	90.652	270.834	7307.87	7238.26	1944.51	-7022.36	646573.51	498096.18	32°22'06.556"N	103°51'30.965"W	0.00	
13851.10†	90.652	270.834	7306.73	7337.27	1945.96	-7122.34	646473.53	498097.63	32°22'06.575"N	103°51'32.131"W	0.00	
13951.10†	90.652	270.834	7305.59	7436.28	1947.42	-7222.32	646373.55	498099.09	32°22'06.594"N	103°51'33.296"W	0.00	
14051.10†	90.652	270.834	7304.45	7535.29	1948.87	-7322.30	646273.58	498100.54	32°22'06.613"N	103°51'34.462"W	0.00	
14151.10†	90.652	270.834	7303.32	7634.30	1950.33	-7422.29	646173.60	498102.00	32°22'06.632"N	103°51'35.628"W	0.00	
14178.82	90.652	270.834	7303.00†	7661.75	1950.73	-7450.00	646145.89	498102.40	32°22'06.637"N	103°51'35.951"W	0.00	Target #2
14232.28	90.452	269.783	7302.48	7714.61	1951.02	-7503.46	646092.43	498102.69	32°22'06.642"N	103°51'36.574"W	2.00	Drop
14251.10†	90.452	269.783	7302.34	7733.19	1950.95	-7522.28	646073.62	498102.62	32°22'06.642"N	103°51'36.793"W	0.00	
14351.10†	90.452	269.783	7301.55	7831.93	1950.57	-7622.27	645973.63	498102.24	32°22'06.643"N	103°51'37.959"W	0.00	
14451.10†	90.452	269.783	7300.76	7930.67	1950.19	-7722.27	645873.64	498101.86	32°22'06.643"N	103°51'39.125"W	0.00	
14551.10†	90.452	269.783	7299.97	8029.42	1949.81	-7822.27	645773.65	498101.48	32°22'06.644"N	103°51'40.291"W	0.00	
14651.10†	90.452	269.783	7299.18	8128.16	1949.43	-7922.26	645673.66	498101.10	32°22'06.645"N	103°51'41.457"W	0.00	
14751.10†	90.452	269.783	7298.39	8226.90	1949.05	-8022.26	645573.67	498100.73	32°22'06.645"N	103°51'42.623"W	0.00	
14851.10†	90.452	269.783	7297.60	8325.64	1948.68	-8122.25	645473.68	498100.35	32°22'06.646"N	103°51'43.789"W	0.00	
14951.10†	90.452	269.783	7296.81	8424.38	1948.30	-8222.25	645373.69	498099.97	32°22'06.646"N	103°51'44.954"W	0.00	
15051.10†	90.452	269.783	7296.02	8523.12	1947.92	-8322.25	645273.70	498099.59	32°22'06.647"N	103°51'46.120"W	0.00	
15151.10†	90.452	269.783	7295.23	8621.86	1947.54	-8422.24	645173.71	498099.21	32°22'06.648"N	103°51'47.286"W	0.00	
15251.10†	90.452	269.783	7294.44	8720.60	1947.16	-8522.24	645073.72	498098.83	32°22'06.648"N	103°51'48.452"W	0.00	
15351.10†	90.452	269.783	7293.66	8819.34	1946.78	-8622.24	644973.73	498098.45	32°22'06.649"N	103°51'49.618"W	0.00	
15451.10†	90.452	269.783	7292.87	8918.08	1946.40	-8722.23	644873.74	498098.08	32°22'06.649"N	103°51'50.784"W	0.00	
15551.10†	90.452	269.783	7292.08	9016.82	1946.03	-8822.23	644773.75	498097.70	32°22'06.650"N	103°51'51.950"W	0.00	
15651.10†	90.452	269.783	7291.29	9115.56	1945.65	-8922.22	644673.76	498097.32	32°22'06.651"N	103°51'53.115"W	0.00	
15751.10†	90.452	269.783	7290.50	9214.31	1945.27	-9022.22	644573.77	498096.94	32°22'06.651"N	103°51'54.281"W	0.00	
15851.10†	90.452	269.783	7289.71	9313.05	1944.89	-9122.22	644473.78	498096.56	32°22'06.652"N	103°51'55.447"W	0.00	
15951.10†	90.452	269.783	7288.92	9411.79	1944.51	-9222.21	644373.79	498096.18	32°22'06.652"N	103°51'56.613"W	0.00	
16051.10†	90.452	269.783	7288.13	9510.53	1944.13	-9322.21	644273.81	498095.80	32°22'06.653"N	103°51'57.779"W	0.00	
16151.10†	90.452	269.783	7287.34	9609.27	1943.75	-9422.21	644173.82	498095.43	32°22'06.653"N	103°51'58.945"W	0.00	
16251.10†	90.452	269.783	7286.55	9708.01	1943.38	-9522.20	644073.83	498095.05	32°22'06.654"N	103°52'00.110"W	0.00	
16351.10†	90.452	269.783	7285.76	9806.75	1943.00	-9622.20	643973.84	498094.67	32°22'06.655"N	103°52'01.276"W	0.00	
16447.91	90.452	269.783	7285.00†	9902.34	1942.63	-9719.00	643877.04	498094.30	32°22'06.655"N	103°52'02.405"W	0.00	Target #3
16451.10†	90.388	269.784	7284.98	9905.49	1942.62	-9722.19	643873.85	498094.29	32°22'06.655"N	103°52'02.442"W	2.00	
16477.92	89.852	269.795	7284.92	9931.98	1942.52	-9749.01	643847.03	498094.19	32°22'06.655"N	103°52'02.755"W	2.00	Drop
16551.10†	89.852	269.795	7285.11	10004.24	1942.26	-9822.19	643773.85	498093.93	32°22'06.656"N	103°52'03.608"W	0.00	
16651.10†	89.852	269.795	7285.37	10102.98	1941.90	-9922.19	643673.86	498093.57	32°22'06.657"N	103°52'04.774"W	0.00	



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BAKER HUGHES

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.141 SHL
Area	Eddy County, NM	Well	No.141H ST01
Field	JRU NAD27	Wellbore	No.141H ST01 AWB
Facility	(JRU) No.140H & No.141H	Sidetrack from	No.141H AWB at 3951.10 MD

WELLPATH DATA (207 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
16751.10†	89.852	269.795	7285.63	10201.73	1941.54	-10022.19	643573.87	498093.21	32°22'06.657"N	103°52'05.940"W	0.00	
16851.10†	89.852	269.795	7285.88	10300.48	1941.18	-10122.19	643473.88	498092.85	32°22'06.658"N	103°52'07.106"W	0.00	
16951.10†	89.852	269.795	7286.14	10399.22	1940.82	-10222.19	643373.88	498092.50	32°22'06.659"N	103°52'08.272"W	0.00	
17051.10†	89.852	269.795	7286.40	10497.97	1940.47	-10322.19	643273.89	498092.14	32°22'06.660"N	103°52'09.438"W	0.00	
17151.10†	89.852	269.795	7286.66	10596.72	1940.11	-10422.19	643173.90	498091.78	32°22'06.660"N	103°52'10.603"W	0.00	
17251.10†	89.852	269.795	7286.92	10695.46	1939.75	-10522.19	643073.91	498091.42	32°22'06.661"N	103°52'11.769"W	0.00	
17351.10†	89.852	269.795	7287.18	10794.21	1939.39	-10622.18	642973.92	498091.06	32°22'06.662"N	103°52'12.935"W	0.00	
17451.10†	89.852	269.795	7287.43	10892.96	1939.03	-10722.18	642873.92	498090.71	32°22'06.663"N	103°52'14.101"W	0.00	
17551.10†	89.852	269.795	7287.69	10991.70	1938.68	-10822.18	642773.93	498090.35	32°22'06.663"N	103°52'15.267"W	0.00	
17651.10†	89.852	269.795	7287.95	11090.45	1938.32	-10922.18	642673.94	498089.99	32°22'06.664"N	103°52'16.433"W	0.00	
17669.92	89.852	269.795	7288.00 ⁴	11109.03	1938.25	-10941.00	642655.12	498089.92	32°22'06.664"N	103°52'16.652"W	0.00	Target #4
17696.55	89.319	269.802	7288.19	11135.33	1938.16	-10967.63	642628.49	498089.83	32°22'06.664"N	103°52'16.963"W	2.00	Drop
17751.10†	89.319	269.802	7288.84	11189.20	1937.97	-11022.18	642573.95	498089.64	32°22'06.665"N	103°52'17.599"W	0.00	
17851.10†	89.319	269.802	7290.03	11287.94	1937.62	-11122.17	642473.96	498089.29	32°22'06.666"N	103°52'18.765"W	0.00	
17951.10†	89.319	269.802	7291.22	11386.68	1937.28	-11222.16	642373.98	498088.95	32°22'06.667"N	103°52'19.930"W	0.00	
18051.10†	89.319	269.802	7292.40	11485.42	1936.93	-11322.15	642273.99	498088.60	32°22'06.667"N	103°52'21.096"W	0.00	
18151.10†	89.319	269.802	7293.59	11584.16	1936.58	-11422.15	642174.01	498088.26	32°22'06.668"N	103°52'22.262"W	0.00	
18251.10†	89.319	269.802	7294.78	11682.91	1936.24	-11522.14	642074.02	498087.91	32°22'06.669"N	103°52'23.428"W	0.00	
18351.10†	89.319	269.802	7295.97	11781.65	1935.89	-11622.13	641974.04	498087.57	32°22'06.670"N	103°52'24.594"W	0.00	
18451.10†	89.319	269.802	7297.16	11880.39	1935.55	-11722.12	641874.05	498087.22	32°22'06.671"N	103°52'25.759"W	0.00	
18551.10†	89.319	269.802	7298.34	11979.13	1935.20	-11822.12	641774.06	498086.87	32°22'06.672"N	103°52'26.925"W	0.00	
18651.10†	89.319	269.802	7299.53	12077.87	1934.86	-11922.11	641674.08	498086.53	32°22'06.672"N	103°52'28.091"W	0.00	
18751.10†	89.319	269.802	7300.72	12176.62	1934.51	-12022.10	641574.09	498086.18	32°22'06.673"N	103°52'29.257"W	0.00	
18851.10†	89.319	269.802	7301.91	12275.36	1934.16	-12122.09	641474.11	498085.84	32°22'06.674"N	103°52'30.423"W	0.00	
18951.10†	89.319	269.802	7303.10	12374.10	1933.82	-12222.08	641374.12	498085.49	32°22'06.675"N	103°52'31.588"W	0.00	
19051.10†	89.319	269.802	7304.28	12472.84	1933.47	-12322.08	641274.13	498085.15	32°22'06.676"N	103°52'32.754"W	0.00	
19111.36	89.319	269.802	7305.00 ⁵	12532.35	1933.26	-12382.34	641213.88	498084.94	32°22'06.676"N	103°52'33.457"W	0.00	No.141H PBHL



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.141 SHL
Area	Eddy County, NM	Well	No.141H ST01
Field	JRU NAD27	Wellbore	No.141H ST01 AWB
Facility	(JRU) No.140H & No.141H	Sidetrack from	No.141H AWB at 3951.10 MD

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
3) No.141H Target #3	16447.91	7285.00	1942.63	-9719.00	643877.04	498094.30	32°22'06.655"N	103°52'02.405"W	point
4) No.141H Target #4	17669.92	7288.00	1938.25	-10941.00	642655.12	498089.92	32°22'06.664"N	103°52'16.652"W	point
2) No.141H Target #2	14178.82	7303.00	1950.73	-7450.00	646145.89	498102.40	32°22'06.637"N	103°51'35.951"W	point
5) No.141H PBHL	19111.36	7305.00	1933.26	-12382.34	641213.88	498084.94	32°22'06.676"N	103°52'33.457"W	point
1) No.141H Target #1 ST01	9113.90	7360.00	1875.00	-2386.00	651209.56	498026.68	32°22'05.662"N	103°50'36.915"W	point

SURVEY PROGRAM - Ref Wellbore: No.141H ST01 AWB Ref Wellpath: Rev-B.0 ST01

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
30.00	3951.10	Generic gyro - northseeking (Standard)		No.141H AWB
3951.10	19111.36	NaviTrak (Standard)		No.141H ST01 AWB

CONDITIONS OF APPROVAL

Sundry dated 04/18/2012

OPERATOR'S NAME:	BOPCO, L. P.
LEASE NO.:	NMNM02952A Agreement NMNM 70965X
WELL NAME & NO.:	James Ranch Unit # 141 H
Location	Sec. 25 – T22S – R30E
COUNTY	Eddy County, New Mexico

Verbal Approval done on 04/14/2012

Original COA still applies with the following Conditions Of Approval:

1. Operator to provide a detail description with a diagram, of the fish left in the hole.
2. Operator to have the first plug tag and recorded; The BLM is to be notified a minimum of hours in advance for a representative to have the opportunity to witness: Call the Carlsbad Field (575) 361-2822
3. Operator to provide a NOI Sundry within 5 business days of this verbal approval
4. Operator to follow-up with a subsequent report with detail description of JOB

EGF 04/14/2012