

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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.  
NMLC064827A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.  
891000558X

8. Well Name and No.  
JAMES RANCH UNIT DI 1 135H

9. API Well No.  
30-015-42376-00-X1

10. Field and Pool, or Exploratory  
QUAHADA RIDGE

11. County or Parish, and State  
EDDY COUNTY, NM

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
BOPCO LP  
Contact: COURTNEY FOSTER  
E-Mail: CJFOSTER@BASSPET.COM

3a. Address  
MIDLAND, TX 79702

3b. Phone No. (include area code)  
Ph: 432-661-3573

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 21 T22S R30E SENE 1526FNL 1270FEL  
32.225023 N Lat, 103.525239 W Lon

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A PD
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

BOPCO, L.P. respectfully requests to move the surface location from 1,526 FNL & 1,270 FEL in Section 21, T22S-R30E to 1,517 FNL & 1,292 FEL in Section 21, T22S-R30E. (N32.380647 & W103.881292)  
BOPCO, L.P. also respectfully requests to allow the original approved total depth of the above mentioned well from 18,739?MD (7,191? TVD) to 19,062? MD (7,191? TVD).

Attached are the new C-102 showing the surface location move, as well as a new directional plan showing the changed total depth.

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

Accepted for record  
NMOCD JS  
6-16-14

JUN 16 2014

RECEIVED

Eng OK 5/22/14 CRW

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

Electronic Submission #246662 verified by the BLM Well Information System  
For BOPCO LP, sent to the Carlsbad  
Committed to AFMSS for processing by CHRISTOPHER WALLS on 05/22/2014 (14CRW0281SE)

Name (Printed/Typed) COURTNEY FOSTER Title REGULATORY ANALYST

Signature (Electronic Submission) Date 05/22/2014

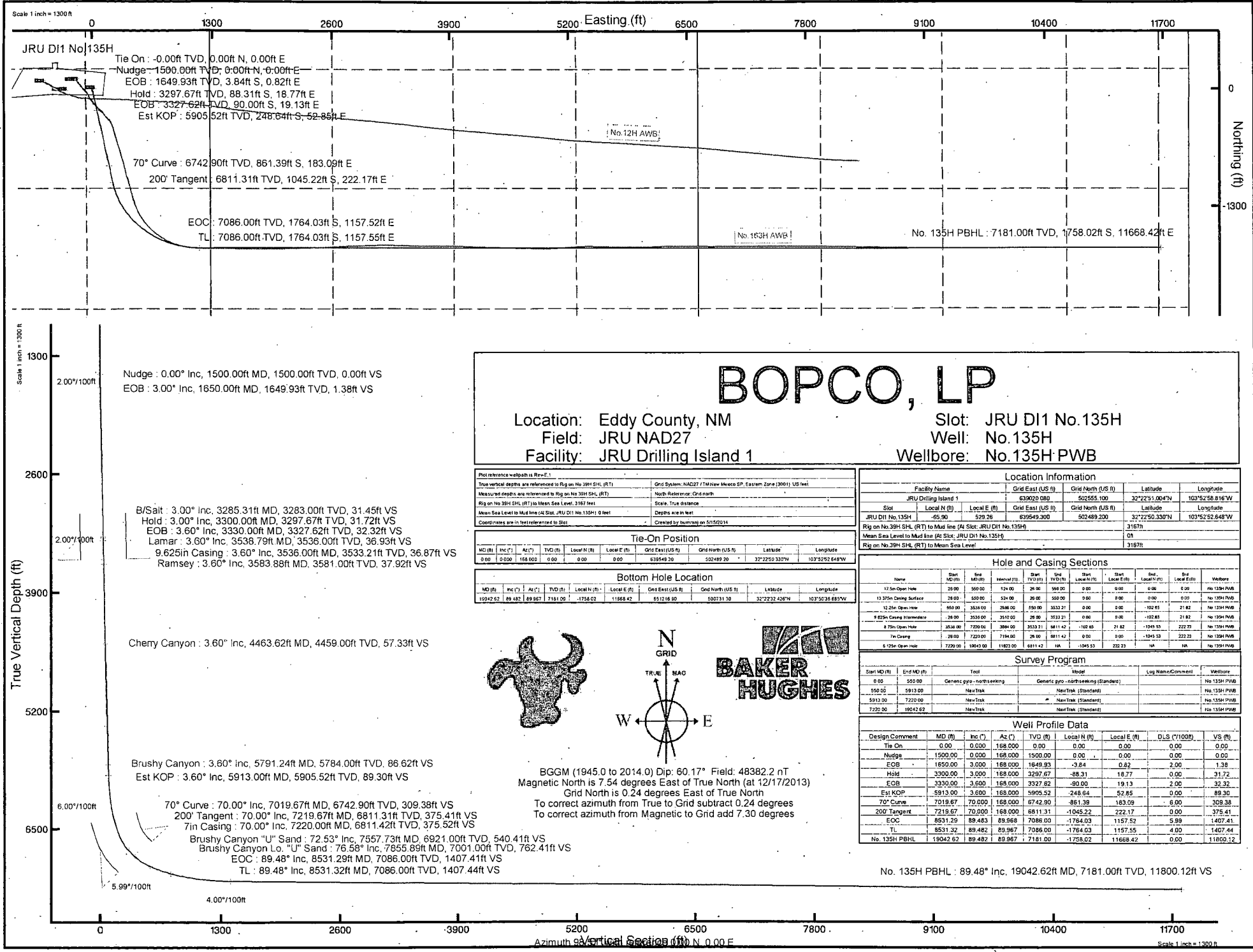
**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By /s/ STEPHEN J. CAFFEY Title FIELD MANAGER Date JUN - 4 2014

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 FIELD OFFICE

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.



# BOPCO, LP

Location: Eddy County, NM      Slot: JRU D11 No.135H  
 Field: JRU NAD27                      Well: No.135H  
 Facility: JRU Drilling Island 1        Wellbore: No.135H PWB

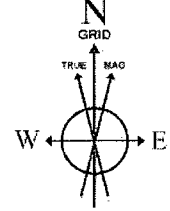
True vertical depths are referenced to Rig on No. 39H SHL (RT)		Grid System: NAD27 / TM view Mexico SP, Eastern Zone (2011) US feet							
Measured depths are referenced to Rig on No. 39H SHL (RT)		North Reference: Grid north							
Rig on No. 39H SHL (RT) to Mean Sea Level: 3167 feet		Scale: True distance							
Mean Sea Level to Mud line (At Slot: JRU D11 No.135H) 0 feet		Depth scale feet							
Coordinates are in feet referenced to Slot									
Tie-On Position									
MD (ft)	Inc (")	As (")	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
0.00	0.000	168.000	0.00	0.00	0.00	639549.20	502489.20	32°22'50.3307"N	103°52'52.6487"W
Bottom Hole Location									
MD (ft)	Inc (")	As (")	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
11800.12	89.482	89.967	7181.00	-1758.02	11668.42	651216.80	500731.10	32°22'22.4267"N	103°52'36.6857"W

Location Information						
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude		
JRU Drilling Island 1	639020.080	502555.100	32°22'51.0047"N	103°52'58.8167"W		
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
JRU D11 No.135H	-65.90	529.26	639549.300	502489.200	32°22'50.3307"N	103°52'52.6487"W
Rig on No. 39H SHL (RT) to Mud line (At Slot: JRU D11 No.135H)						
Mean Sea Level to Mud line (At Slot: JRU D11 No.135H)						
Rig on No. 39H SHL (RT) to Mean Sea Level						

Hole and Casing Sections										
Name	Start MD (ft)	End MD (ft)	Interval (ft)	Start TVD (ft)	End TVD (ft)	Start Local N (ft)	Start Local E (ft)	End Local N (ft)	End Local E (ft)	Wellbore
17.5m Open Hole	28.00	550.00	524.00	28.00	550.00	0.00	0.00	0.00	0.00	No. 135H PWB
13.375m Casing Surface	28.00	550.00	524.00	28.00	550.00	0.00	0.00	0.00	0.00	No. 135H PWB
12.25m Open Hole	550.00	3538.00	2988.00	550.00	3533.21	0.00	0.00	-192.83	21.82	No. 135H PWB
8.875m Casing Intermediate	28.00	3538.00	3510.00	28.00	3533.21	0.00	0.00	-192.83	21.82	No. 135H PWB
8.75m Open Hole	3538.00	7220.00	3684.00	3533.21	6811.42	-102.85	21.82	-1043.53	222.23	No. 135H PWB
7m Casing	28.00	7220.00	7194.00	28.00	6811.42	0.00	0.00	-1043.53	222.23	No. 135H PWB
6.125m Open Hole	7220.00	11800.12	4580.12	7220.00	11668.42	1943.53	222.23	NA	NA	No. 135H PWB

Survey Program					
Start MD (ft)	End MD (ft)	Tool	Model	Log Name/Comment	Wellbore
0.00	550.00	Geosync gyro - north-seeking	Generic gyro - north-seeking (Standard)		No. 135H PWB
550.00	5913.00	NewTrak	NewTrak (Standard)		No. 135H PWB
5913.00	7220.00	NewTrak	NewTrak (Standard)		No. 135H PWB
7220.00	11800.12	NewTrak	NewTrak (Standard)		No. 135H PWB

Well Profile Data									
Design Comment	MD (ft)	Inc (")	As (")	TVD (ft)	Local N (ft)	Local E (ft)	DLS (71000)	VS (ft)	
Tie On	0.00	0.000	168.000	0.00	0.00	0.00	0.00	0.00	
Nudge	1500.00	0.000	168.000	1500.00	0.00	0.00	0.00	0.00	
EOB	1650.00	3.000	168.000	1649.93	-3.84	0.82	3.00	1.38	
Hold	3300.00	3.000	168.000	3297.67	-88.31	18.77	0.00	31.72	
EOB	3330.00	3.600	168.000	3327.62	-90.00	19.13	2.00	32.32	
Est KOP	5913.00	3.600	168.000	5905.52	-248.64	52.85	0.00	89.30	
70° Curve	7019.67	70.000	168.000	6742.90	309.38	-183.09	-6.00	-309.38	
200' Tangent	7219.67	70.000	168.000	6811.31	-1045.22	222.17	0.00	-375.41	
EOC	8531.29	89.483	89.968	7086.00	-1764.03	1157.52	5.89	1407.41	
TL	8531.32	89.482	89.967	7086.00	-1764.03	1157.55	4.00	1407.44	
No. 135H PBHL	11800.12	89.482	89.967	7181.00	-1758.02	11668.42	0.00	11800.12	



BGM (1945.0 to 2014.0) Dip: 60.17° Field: 48382.2 nT  
 Magnetic North is 7.54 degrees East of True North (at 12/17/2013)  
 Grid North is 0.24 degrees East of True North  
 To correct azimuth from True to Grid subtract 0.24 degrees  
 To correct azimuth from Magnetic to Grid add 7.30 degrees

Nudge : 0.00° Inc, 1500.00ft MD, 1500.00ft TVD, 0.00ft VS  
 EOB : 3.00° Inc, 1650.00ft MD, 1649.93ft TVD, 1.38ft VS

B/Sait : 3.00° Inc, 3285.31ft MD, 3283.00ft TVD, 31.45ft VS  
 Hold : 3.00° Inc, 3300.00ft MD, 3297.67ft TVD, 31.72ft VS  
 EOB : 3.60° Inc, 3330.00ft MD, 3327.62ft TVD, 32.32ft VS  
 Lamar : 3.60° Inc, 3538.79ft MD, 3536.00ft TVD, 36.93ft VS  
 9.625in Casing : 3.60° Inc, 3536.00ft MD, 3533.21ft TVD, 36.87ft VS  
 Ramsey : 3.60° Inc, 3583.88ft MD, 3581.00ft TVD, 37.92ft VS

Chery Canyon : 3.60° Inc, 4463.62ft MD, 4459.00ft TVD, 57.33ft VS

Brushy Canyon : 3.60° Inc, 5791.24ft MD, 5784.00ft TVD, 86.62ft VS  
 Est KOP : 3.60° Inc, 5913.00ft MD, 5905.52ft TVD, 89.30ft VS

70° Curve : 70.00° Inc, 7019.67ft MD, 6742.90ft TVD, 309.38ft VS  
 200' Tangent : 70.00° Inc, 7219.67ft MD, 6811.31ft TVD, 375.41ft VS  
 7in Casing : 70.00° Inc, 7220.00ft MD, 6811.42ft TVD, 375.52ft VS  
 Brushy Canyon "U" Sand : 72.53° Inc, 7557.73ft MD, 6921.00ft TVD, 540.41ft VS  
 Brushy Canyon Lo. "U" Sand : 76.58° Inc, 7855.89ft MD, 7001.00ft TVD, 762.41ft VS  
 EOC : 89.48° Inc, 8531.29ft MD, 7086.00ft TVD, 1407.41ft VS  
 TL : 89.48° Inc, 8531.32ft MD, 7086.00ft TVD, 1407.44ft VS

No. 135H PBHL : 89.48° Inc, 11800.12ft MD, 7181.00ft TVD, 11800.12ft VS

Azimuthal Vertical Section (ft) N 0.00 E

Scale 1 inch = 1300 ft



# Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, LP	Slot	JRU D11 No.135H
Area	Eddy County, NM	Well	No.135H
Field	JRU NAD27	Wellbore	No.135H PWB
Facility	JRU Drilling Island 1		

REPORT SETUP INFORMATION			
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 4.0.0
North Reference	Grid	User	Burnranj
Scale	0.999931	Report Generated	5/15/2014 at 10:46:11 AM
Convergence at slot	0.24° East	Database/Source file	WA_MIDLAND/C:\Users\burnranj\AppData\Roaming\Well Explorer\temp\BOPCO, LP JRU D11 No.135H (Rev-E.1).xml

WELLPATH LOCATION	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-65.90	529.26	639549.30	502489.20	32°22'50.330"N	103°52'52.648"W
Facility Reference Pt			639020.08	502555.10	32°22'51.004"N	103°52'58.816"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.39H SHL (RT) to Facility Vertical Datum	3167.00ft
Horizontal Reference Pt	Slot	Rig on No.39H SHL (RT) to Mean Sea Level	3167.00ft
Vertical Reference Pt	Rig on No.39H SHL (RT)	Rig on No.39H SHL (RT) to Mud Line at Slot (JRU D11 No.135H)	3167.00ft
MD Reference Pt	Rig on No.39H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	98.57°



# Planned Wellpath Report

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## REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, LP	Slot	JRU DII No.135H
Area	Eddy County, NM	Well	No.135H
Field	JRU NAD27	Wellbore	No.135H PWB
Facility	JRU Drilling Island 1		

## WELLPATH DATA (195 stations) - interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00	0.000	168.000	0.00	0.00	0.00	0.00	0.00	Tie On
131.00	0.000	168.000	131.00	0.00	0.00	0.00	0.00	Fresh Water
191.00	0.000	168.000	191.00	0.00	0.00	0.00	0.00	T/Rustler
556.00	0.000	168.000	556.00	0.00	0.00	0.00	0.00	Salado
1500.00	0.000	168.000	1500.00	0.00	0.00	0.00	0.00	Nudge
1600.00	2.000	168.000	1599.98	0.61	-1.71	0.36	2.00	
1650.00	3.000	168.000	1649.93	1.38	-3.84	0.82	2.00	EOB
1700.00	3.000	168.000	1699.86	2.30	-6.40	1.36	0.00	
1800.00	3.000	168.000	1799.73	4.14	-11.52	2.45	0.00	
1900.00	3.000	168.000	1899.59	5.98	-16.64	3.54	0.00	
2000.00	3.000	168.000	1999.45	7.81	-21.76	4.62	0.00	
2100.00	3.000	168.000	2099.31	9.65	-26.88	5.71	0.00	
2200.00	3.000	168.000	2199.18	11.49	-32.00	6.80	0.00	
2300.00	3.000	168.000	2299.04	13.33	-37.12	7.89	0.00	
2400.00	3.000	168.000	2398.90	15.17	-42.23	8.98	0.00	
2500.00	3.000	168.000	2498.77	17.01	-47.35	10.07	0.00	
2600.00	3.000	168.000	2598.63	18.85	-52.47	11.15	0.00	
2700.00	3.000	168.000	2698.49	20.69	-57.59	12.24	0.00	
2800.00	3.000	168.000	2798.36	22.52	-62.71	13.33	0.00	
2900.00	3.000	168.000	2898.22	24.36	-67.83	14.42	0.00	
3000.00	3.000	168.000	2998.08	26.20	-72.95	15.51	0.00	
3100.00	3.000	168.000	3097.94	28.04	-78.07	16.59	0.00	
3200.00	3.000	168.000	3197.81	29.88	-83.19	17.68	0.00	
3285.31	3.000	168.000	3283.00	31.45	-87.56	18.61	0.00	B/Salt
3300.00	3.000	168.000	3297.67	31.72	-88.31	18.77	0.00	Hold
3330.00	3.600	168.000	3327.62	32.32	-90.00	19.13	2.00	EOB
3400.00	3.600	168.000	3397.48	33.87	-94.30	20.04	0.00	
3500.00	3.600	168.000	3497.28	36.07	-100.44	21.35	0.00	
3538.79	3.600	168.000	3536.00	36.93	-102.82	21.86	0.00	Lamar
3583.88	3.600	168.000	3581.00	37.92	-105.59	22.44	0.00	Ramsey
3600.00	3.600	168.000	3597.09	38.28	-106.58	22.65	0.00	
3700.00	3.600	168.000	3696.89	40.49	-112.72	23.96	0.00	
3800.00	3.600	168.000	3796.69	42.69	-118.86	25.27	0.00	
3900.00	3.600	168.000	3896.50	44.90	-125.01	26.57	0.00	
4000.00	3.600	168.000	3996.30	47.10	-131.15	27.88	0.00	
4100.00	3.600	168.000	4096.10	49.31	-137.29	29.18	0.00	
4200.00	3.600	168.000	4195.90	51.52	-143.43	30.49	0.00	
4300.00	3.600	168.000	4295.71	53.72	-149.57	31.79	0.00	
4400.00	3.600	168.000	4395.51	55.93	-155.71	33.10	0.00	
4463.62	3.600	168.000	4459.00	57.13	-159.62	33.93	0.00	Cherry Canyon
4500.00	3.600	168.000	4495.31	58.13	-161.86	34.40	0.00	
4600.00	3.600	168.000	4595.11	60.34	-168.00	35.71	0.00	
4700.00	3.600	168.000	4694.92	62.55	-174.14	37.01	0.00	
4800.00	3.600	168.000	4794.72	64.75	-180.28	38.32	0.00	
4900.00	3.600	168.000	4894.52	66.96	-186.42	39.63	0.00	



# Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, LP	Slot	JRU D11 No.135H
Area	Eddy County, NM	Well	No.135H
Field	JRU NAD27	Wellbore	No.135H PWB
Facility	JRU Drilling Island 1		

WELLPATH DATA (195 stations) <small>† = interpolated/extrapolated station</small>								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5000.00†	3.600	168.000	4994.32	69.16	-192.57	40.93	0.00	
5100.00†	3.600	168.000	5094.13	71.37	-198.71	42.24	0.00	
5200.00†	3.600	168.000	5193.93	73.58	-204.85	43.54	0.00	
5300.00†	3.600	168.000	5293.73	75.78	-210.99	44.85	0.00	
5400.00†	3.600	168.000	5393.54	77.99	-217.13	46.15	0.00	
5500.00†	3.600	168.000	5493.34	80.19	-223.27	47.46	0.00	
5600.00†	3.600	168.000	5593.14	82.40	-229.42	48.76	0.00	
5700.00†	3.600	168.000	5692.94	84.61	-235.56	50.07	0.00	
5791.24†	3.600	168.000	5784.00	86.62	-241.16	51.26	0.00	Brushy Canyon
5800.00†	3.600	168.000	5792.75	86.81	-241.70	51.37	0.00	
5900.00†	3.600	168.000	5892.55	89.02	-247.84	52.68	0.00	
5913.00	3.600	168.000	5905.52	89.30	-248.64	52.85	0.00	Est KOP
6000.00†	8.820	168.000	5991.98	92.61	-257.84	54.81	6.00	
6100.00†	14.820	168.000	6089.82	99.80	-277.87	59.06	6.00	
6200.00†	20.820	168.000	6184.98	110.55	-307.79	65.42	6.00	
6300.00†	26.820	168.000	6276.42	124.73	-347.28	73.82	6.00	
6400.00†	32.820	168.000	6363.14	142.19	-395.89	84.15	6.00	
6500.00†	38.820	168.000	6444.19	162.74	-453.11	96.31	6.00	
6600.00†	44.820	168.000	6518.68	186.16	-518.31	110.17	6.00	
6700.00†	50.820	168.000	6585.79	212.18	-590.76	125.57	6.00	
6800.00†	56.820	168.000	6644.80	240.53	-669.67	142.34	6.00	
6900.00†	62.820	168.000	6695.05	270.88	-754.19	160.31	6.00	
7000.00†	68.820	168.000	6735.99	302.92	-843.38	179.27	6.00	
7019.67	70.000	168.000	6742.90	309.38	-861.39	183.09	6.00	70° Curve
7100.00†	70.000	168.000	6770.38	335.90	-935.23	198.79	0.00	
7200.00†	70.000	168.000	6804.58	368.92	-1027.15	218.33	0.00	
7219.67	70.000	168.000	6811.31	375.41	-1045.22	222.17	0.00	200' Tangent
7300.00†	70.379	162.900	6838.55	405.08	-1118.35	241.15	5.99	
7400.00†	71.050	156.592	6871.61	450.56	-1206.84	273.82	5.99	
7500.00†	71.933	150.342	6903.38	505.07	-1291.62	316.16	5.99	
7557.73†	72.534	146.765	6921.00	540.41	-1338.52	344.85	5.99	Brushy Canyon "U" Sand
7600.00†	73.014	144.162	6933.52	568.00	-1371.77	367.73	5.99	
7700.00†	74.279	138.058	6961.70	638.67	-1446.40	427.95	5.99	
7800.00†	75.711	132.035	6987.61	716.30	-1514.71	496.17	5.99	
7855.89†	76.578	128.704	7001.00	762.41	-1549.85	537.51	5.99	Brushy Canyon Lo. "U" Sand
7900.00†	77.292	126.092	7010.97	800.05	-1575.94	571.64	5.99	
8000.00†	79.004	120.225	7031.53	889.00	-1629.43	653.54	5.99	
8100.00†	80.827	114.428	7049.05	982.19	-1674.59	740.97	5.99	
8200.00†	82.742	108.691	7063.35	1078.58	-1710.93	832.98	5.99	
8300.00†	84.727	103.004	7074.27	1177.14	-1738.06	928.56	5.99	
8400.00†	86.764	97.354	7081.70	1276.78	-1755.67	1026.67	5.99	
8500.00†	88.833	91.726	7085.54	1376.41	-1763.57	1126.24	5.99	
8531.29	89.483	89.968	7086.00	1407.41	-1764.03	1157.52	5.99	EOC
8531.32	89.482	89.967	7086.00	1407.44	-1764.03	1157.55	4.00	TL
8600.00†	89.482	89.967	7086.62	1475.35	-1763.99	1226.23	0.00	



# Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, LP	Slot	JRU DII No.135H
Area	Eddy County, NM	Well	No.135H
Field	JRU NAD27	Wellbore	No.135H PWB
Facility	JRU Drilling Island 1		

WELLPATH DATA (195 stations) <small>† = interpolated/extrapolated station</small>								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
8700.00†	89.482	89.967	7087.52	1574.22	-1763.93	1326.22	0.00	
8800.00†	89.482	89.967	7088.43	1673.09	-1763.88	1426.22	0.00	
8900.00†	89.482	89.967	7089.33	1771.96	-1763.82	1526.22	0.00	
9000.00†	89.482	89.967	7090.24	1870.84	-1763.76	1626.21	0.00	
9100.00†	89.482	89.967	7091.14	1969.71	-1763.71	1726.21	0.00	
9200.00†	89.482	89.967	7092.04	2068.58	-1763.65	1826.20	0.00	
9300.00†	89.482	89.967	7092.95	2167.45	-1763.59	1926.20	0.00	
9400.00†	89.482	89.967	7093.85	2266.32	-1763.53	2026.20	0.00	
9500.00†	89.482	89.967	7094.76	2365.19	-1763.48	2126.19	0.00	
9600.00†	89.482	89.967	7095.66	2464.06	-1763.42	2226.19	0.00	
9700.00†	89.482	89.967	7096.56	2562.93	-1763.36	2326.18	0.00	
9800.00†	89.482	89.967	7097.47	2661.81	-1763.31	2426.18	0.00	
9900.00†	89.482	89.967	7098.37	2760.68	-1763.25	2526.18	0.00	
10000.00†	89.482	89.967	7099.27	2859.55	-1763.19	2626.17	0.00	
10100.00†	89.482	89.967	7100.18	2958.42	-1763.13	2726.17	0.00	
10200.00†	89.482	89.967	7101.08	3057.29	-1763.08	2826.16	0.00	
10300.00†	89.482	89.967	7101.99	3156.16	-1763.02	2926.16	0.00	
10400.00†	89.482	89.967	7102.89	3255.03	-1762.96	3026.16	0.00	
10500.00†	89.482	89.967	7103.79	3353.91	-1762.91	3126.15	0.00	
10600.00†	89.482	89.967	7104.70	3452.78	-1762.85	3226.15	0.00	
10700.00†	89.482	89.967	7105.60	3551.65	-1762.79	3326.14	0.00	
10800.00†	89.482	89.967	7106.50	3650.52	-1762.73	3426.14	0.00	
10900.00†	89.482	89.967	7107.41	3749.39	-1762.68	3526.13	0.00	
11000.00†	89.482	89.967	7108.31	3848.26	-1762.62	3626.13	0.00	
11100.00†	89.482	89.967	7109.22	3947.13	-1762.56	3726.13	0.00	
11200.00†	89.482	89.967	7110.12	4046.01	-1762.51	3826.12	0.00	
11300.00†	89.482	89.967	7111.02	4144.88	-1762.45	3926.12	0.00	
11400.00†	89.482	89.967	7111.93	4243.75	-1762.39	4026.11	0.00	
11500.00†	89.482	89.967	7112.83	4342.62	-1762.33	4126.11	0.00	
11600.00†	89.482	89.967	7113.73	4441.49	-1762.28	4226.11	0.00	
11700.00†	89.482	89.967	7114.64	4540.36	-1762.22	4326.10	0.00	
11800.00†	89.482	89.967	7115.54	4639.23	-1762.16	4426.10	0.00	
11900.00†	89.482	89.967	7116.45	4738.11	-1762.11	4526.09	0.00	
12000.00†	89.482	89.967	7117.35	4836.98	-1762.05	4626.09	0.00	
12100.00†	89.482	89.967	7118.25	4935.85	-1761.99	4726.09	0.00	
12200.00†	89.482	89.967	7119.16	5034.72	-1761.93	4826.08	0.00	
12300.00†	89.482	89.967	7120.06	5133.59	-1761.88	4926.08	0.00	
12400.00†	89.482	89.967	7120.96	5232.46	-1761.82	5026.07	0.00	
12500.00†	89.482	89.967	7121.87	5331.33	-1761.76	5126.07	0.00	
12600.00†	89.482	89.967	7122.77	5430.21	-1761.71	5226.06	0.00	
12700.00†	89.482	89.967	7123.68	5529.08	-1761.65	5326.06	0.00	
12800.00†	89.482	89.967	7124.58	5627.95	-1761.59	5426.06	0.00	
12900.00†	89.482	89.967	7125.48	5726.82	-1761.53	5526.05	0.00	
13000.00†	89.482	89.967	7126.39	5825.69	-1761.48	5626.05	0.00	
13100.00†	89.482	89.967	7127.29	5924.56	-1761.42	5726.04	0.00	



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## REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, LP	Slot	JRU DII No.135H
Area	Eddy County, NM	Well	No.135H
Field	JRU NAD27	Wellbore	No.135H PWB
Facility	JRU Drilling Island 1		

## WELLPATH DATA (195 stations) = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
13200.00	89.482	89.967	7128.20	6023.43	-1761.36	5826.04	0.00	
13300.00	89.482	89.967	7129.10	6122.31	-1761.31	5926.04	0.00	
13400.00	89.482	89.967	7130.00	6221.18	-1761.25	6026.03	0.00	
13500.00	89.482	89.967	7130.91	6320.05	-1761.19	6126.03	0.00	
13600.00	89.482	89.967	7131.81	6418.92	-1761.13	6226.02	0.00	
13700.00	89.482	89.967	7132.71	6517.79	-1761.08	6326.02	0.00	
13800.00	89.482	89.967	7133.62	6616.66	-1761.02	6426.02	0.00	
13900.00	89.482	89.967	7134.52	6715.53	-1760.96	6526.01	0.00	
14000.00	89.482	89.967	7135.43	6814.41	-1760.91	6626.01	0.00	
14100.00	89.482	89.967	7136.33	6913.28	-1760.85	6726.00	0.00	
14200.00	89.482	89.967	7137.23	7012.15	-1760.79	6826.00	0.00	
14300.00	89.482	89.967	7138.14	7111.02	-1760.73	6926.00	0.00	
14400.00	89.482	89.967	7139.04	7209.89	-1760.68	7025.99	0.00	
14500.00	89.482	89.967	7139.94	7308.76	-1760.62	7125.99	0.00	
14600.00	89.482	89.967	7140.85	7407.63	-1760.56	7225.98	0.00	
14700.00	89.482	89.967	7141.75	7506.50	-1760.51	7325.98	0.00	
14800.00	89.482	89.967	7142.66	7605.38	-1760.45	7425.97	0.00	
14900.00	89.482	89.967	7143.56	7704.25	-1760.39	7525.97	0.00	
15000.00	89.482	89.967	7144.46	7803.12	-1760.33	7625.97	0.00	
15100.00	89.482	89.967	7145.37	7901.99	-1760.28	7725.96	0.00	
15200.00	89.482	89.967	7146.27	8000.86	-1760.22	7825.96	0.00	
15300.00	89.482	89.967	7147.17	8099.73	-1760.16	7925.95	0.00	
15400.00	89.482	89.967	7148.08	8198.60	-1760.11	8025.95	0.00	
15500.00	89.482	89.967	7148.98	8297.48	-1760.05	8125.95	0.00	
15600.00	89.482	89.967	7149.89	8396.35	-1759.99	8225.94	0.00	
15700.00	89.482	89.967	7150.79	8495.22	-1759.93	8325.94	0.00	
15800.00	89.482	89.967	7151.69	8594.09	-1759.88	8425.93	0.00	
15900.00	89.482	89.967	7152.60	8692.96	-1759.82	8525.93	0.00	
16000.00	89.482	89.967	7153.50	8791.83	-1759.76	8625.93	0.00	
16100.00	89.482	89.967	7154.40	8890.70	-1759.71	8725.92	0.00	
16200.00	89.482	89.967	7155.31	8989.58	-1759.65	8825.92	0.00	
16300.00	89.482	89.967	7156.21	9088.45	-1759.59	8925.91	0.00	
16400.00	89.482	89.967	7157.12	9187.32	-1759.53	9025.91	0.00	
16500.00	89.482	89.967	7158.02	9286.19	-1759.48	9125.90	0.00	
16600.00	89.482	89.967	7158.92	9385.06	-1759.42	9225.90	0.00	
16700.00	89.482	89.967	7159.83	9483.93	-1759.36	9325.90	0.00	
16800.00	89.482	89.967	7160.73	9582.80	-1759.31	9425.89	0.00	
16900.00	89.482	89.967	7161.64	9681.68	-1759.25	9525.89	0.00	
17000.00	89.482	89.967	7162.54	9780.55	-1759.19	9625.88	0.00	
17100.00	89.482	89.967	7163.44	9879.42	-1759.13	9725.88	0.00	
17200.00	89.482	89.967	7164.35	9978.29	-1759.08	9825.88	0.00	
17300.00	89.482	89.967	7165.25	10077.16	-1759.02	9925.87	0.00	
17400.00	89.482	89.967	7166.15	10176.03	-1758.96	10025.87	0.00	
17500.00	89.482	89.967	7167.06	10274.90	-1758.91	10125.86	0.00	
17600.00	89.482	89.967	7167.96	10373.78	-1758.85	10225.86	0.00	



# Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, LP	Slot	JRU D11 No.135H
Area	Eddy County, NM	Well	No.135H
Field	JRU NAD27	Wellbore	No.135H PWB
Facility	JRU Drilling Island 1		

WELLPATH DATA (195 stations) <small>Interpolated/extrapolated station</small>								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
17700.00	89.482	89.967	7168.87	10472.65	-1758.79	10325.86	0.00	
17800.00	89.482	89.967	7169.77	10571.52	-1758.73	10425.85	0.00	
17900.00	89.482	89.967	7170.67	10670.39	-1758.68	10525.85	0.00	
18000.00	89.482	89.967	7171.58	10769.26	-1758.62	10625.84	0.00	
18100.00	89.482	89.967	7172.48	10868.13	-1758.56	10725.84	0.00	
18200.00	89.482	89.967	7173.38	10967.00	-1758.51	10825.84	0.00	
18300.00	89.482	89.967	7174.29	11065.88	-1758.45	10925.83	0.00	
18400.00	89.482	89.967	7175.19	11164.75	-1758.39	11025.83	0.00	
18500.00	89.482	89.967	7176.10	11263.62	-1758.33	11125.82	0.00	
18600.00	89.482	89.967	7177.00	11362.49	-1758.28	11225.82	0.00	
18700.00	89.482	89.967	7177.90	11461.36	-1758.22	11325.81	0.00	
18800.00	89.482	89.967	7178.81	11560.23	-1758.16	11425.81	0.00	
18900.00	89.482	89.967	7179.71	11659.10	-1758.11	11525.81	0.00	
19000.00	89.482	89.967	7180.61	11757.97	-1758.05	11625.80	0.00	
19042.62	89.482	89.967	7181.00	11800.12	-1758.02	11668.42	0.00	No.135H-PBHL

HOE & CASING SECTIONS <small>Ref Wellbore: No.135H-PWB Ref Wellpath: Rev-E.1</small>									
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]
17.5in Open Hole	26.00	550.00	524.00	26.00	550.00	0.00	0.00	0.00	0.00
13.375in Casing Surface	26.00	550.00	524.00	26.00	550.00	0.00	0.00	0.00	0.00
12.25in Open Hole	550.00	3536.00	2986.00	550.00	3533.21	0.00	0.00	-102.65	21.82
9.625in Casing Intermediate	26.00	3536.00	3510.00	26.00	3533.21	0.00	0.00	-102.65	21.82
8.75in Open Hole	3536.00	7220.00	3684.00	3533.21	6811.42	-102.65	21.82	-1045.53	222.23
7in Casing	26.00	7220.00	7194.00	26.00	6811.42	0.00	0.00	-1045.53	222.23
6.125in Open Hole	7220.00	19043.00	11823.00	6811.42	NA	-1045.53	222.23	NA	NA





# Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, LP	Slot	JRU D11 No.135H
Area	Eddy County, NM	Well	No.135H
Field	JRU NAD27	Wellbore	No.135H PWB
Facility	JRU Drilling Island 1		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) No.135H PBHL	19042.62	7181.00	-1758.02	11668.42	651216.90	500731.30	32°22'32.426"N	103°50'36.685"W	point

SURVEY PROGRAM - Ref Wellbore: No.135H.PWB - Ref Wellpath: Rev-E.1				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	550.00	Generic gyro - northseeking (Standard)		No.135H PWB
550.00	5913.00	NaviTrak (Standard)		No.135H PWB
5913.00	7220.00	NaviTrak (Standard)		No.135H PWB
7220.00	19042.62	NaviTrak (Standard)		No.135H PWB