

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 October 15, 2009

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 30-015-38120	Pool Code 50443	Pool Name Quahada Ridge SE (Delaware)
Property Code 306407	Property Name JAMES RANCH UNIT	Well Number 111H
OCRID No. 260737	Operator Name BOPCO, L.P.	Elevation 3329'

Surface Location

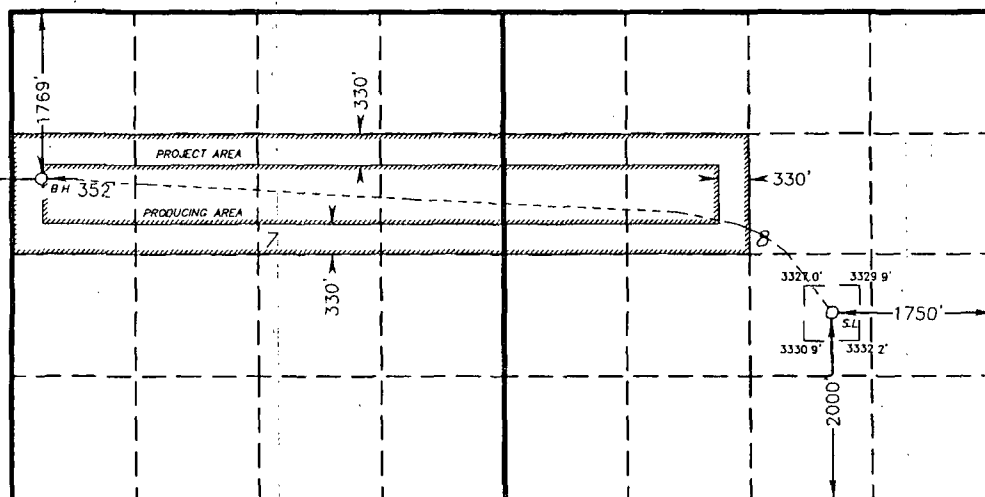
UL or lot No. J	Section 8	Township 23 S	Range 31 E	Lot Idn	Feet from the 2000	North/South line SOUTH	Feet from the 1750	East/West line EAST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot No. E	Section 7	Township 23 S	Range 31 E	Lot Idn	Feet from the 1769	North/South line NORTH	Feet from the 352	East/West line WEST	County EDDY
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Dedicated Acres 240	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



PROPOSED BOTTOM
HOLE LOCATION
Lat - N 32°19'16.55"
Long - W 103°49'26.42"
NAD-27
NADSPCE- N 480965.93
E 657336.50
(NAD-27)

SURFACE LOCATION
Lat - N 32°19'01.61"
Long - W 103°47'47.46"
NADSPCE- N 479498.069
E 665836.362
(NAD-27)

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.

Sandra J. Belt 12-28-11
Signature Date

Sandra J. Belt
Printed Name

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.

DATE SURVEYED
FEBRUARY 2010
Date Surveyed
Signature of Professional Surveyor
7977
Certificate No. Gary L. Jones 7977
BASIN SURVEYS



BOPCO, L.P.

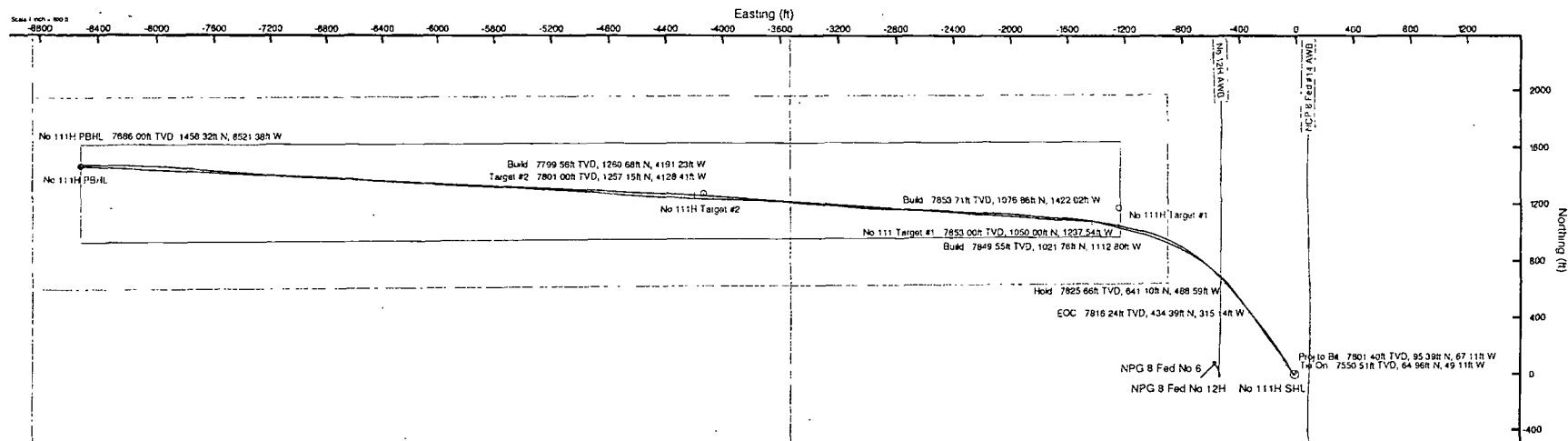
Location Eddy County, NM
Field JRU NAD27
Facility JRU No.111H

Slot No.111H SHL
Well No.111H
Wellbore No.111H PWB

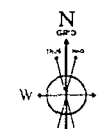


Well Profile Data

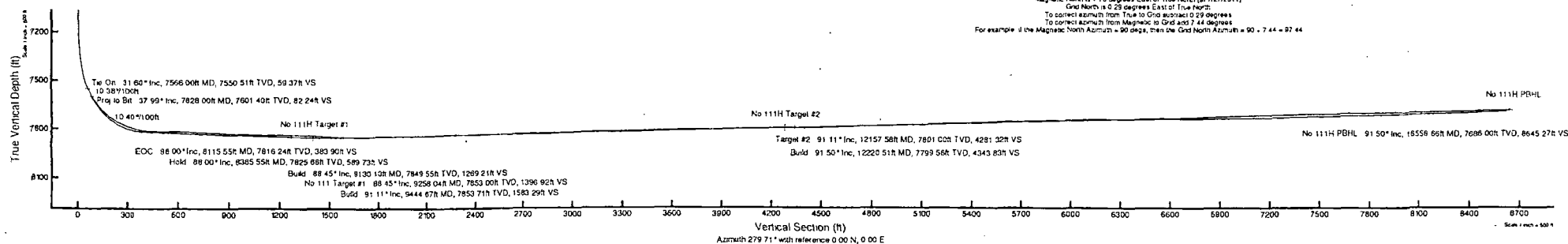
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	7566.00	31.600	328.700	7550.51	64.96	-49.11	0.00	59.37
Proj to Bit	7628.00	37.990	330.000	7601.40	95.39	-67.11	10.38	82.24
EOC	8115.55	88.000	320.000	7816.24	434.99	-315.14	10.40	383.90
Hold	8385.55	88.000	320.000	7825.66	641.10	-468.59	0.00	589.73
Build	9130.10	88.454	282.757	7849.55	1021.76	-1112.80	5.00	1269.21
No.111 Target #1	9258.04	88.454	282.757	7853.00	1050.00	-1237.54	0.00	1396.92
Build	9444.67	91.113	273.811	7853.71	1076.66	-1422.02	5.00	1583.29
Target #2	12157.58	91.113	273.811	7801.00	1257.15	-4128.41	0.00	4281.32
Build	12220.51	91.501	272.613	7799.56	1260.68	-4191.23	2.00	4343.83
No.111H PSHL	16556.66	91.501	272.613	7686.00	1458.32	-8521.98	0.00	8645.27



Plot reference wellpaths & Plan #3	
True vertical depths are referenced to Rig on No.111H SHL (KB)	Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No.111H SHL (KB)	North Reference: Grid north
Rig on No.111H SHL (KB) to Mean Sea Level: 3351 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot No.111H SHL): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: genfry on 9/27/2011



BGGM (1945.0 to 2012.0) Dip: 80.24° Field: 48691.2 nT
Magnetic North is 7.73 degrees East of True North (at 7/27/2011)
Grid North is 0.23 degrees East of True North
To correct azimuth from True to Grid subtract 0.29 degrees
To correct azimuth from Magnetic to Grid add 7.44 degrees
For example if the Magnetic North Azimuth = 90 degrees, then the Grid North Azimuth = 90 - 7.44 = 82.56





Actual Wellpath Report

No.111H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.111H SHL
Area	Eddy County, NM	Well	No.111H
Field	JRU NAD27	Wellbore	No.111H AWB
Facility	JRU No.111H		

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	0.999941	Report Generated	10/21/2011 at 1:54:26 PM
Convergence at slot	0.29° East	Database/Source file	WA Midland/No.111H_AWB.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	665836.36	479498.07	32°19'01.613"N	103°47'47.457"W
Facility Reference Pt			665836.36	479498.07	32°19'01.613"N	103°47'47.457"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.111H SHL (KB) to Facility Vertical Datum	3351.00ft
Horizontal Reference Pt	Slot	Rig on No.111H SHL (KB) to Mean Sea Level	3351.00ft
Vertical Reference Pt	Rig on No.111H SHL (KB)	Rig on No.111H SHL (KB) to Mud Line at Slot (No.111H SHL)	3351.00ft
MD Reference Pt	Rig on No.111H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	279.71°



Actual Wellpath Report

No.111H AWP

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REFERENCE WELL PATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.111H SHL
Area	Eddy County, NM	Well	No.111H
Field	JRU NAD27	Wellbore	No.111H AWB
Facility	JRU No.111H		

WELLPATH DATA (173 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]	DLS [°/100ft]	Comments
0.00†	0.000	320.000	0.00	0.00	0.00	0.00	665836.36	479498.07	0.00	
22.00	0.000	320.000	22.00	0.00	0.00	0.00	665836.36	479498.07	0.00	
248.00	0.000	320.000	248.00	0.00	0.00	0.00	665836.36	479498.07	0.00	
495.00	0.560	320.000	495.00	0.92	0.92	-0.78	665835.58	479498.99	0.23	
734.00	0.340	320.000	733.99	2.35	-2.36	-1.98	665834.38	479500.43	0.09	
867.00	1.000	264.800	866.98	3.78	2.56	-3.39	665832.97	479500.63	0.64	
1144.00	0.700	268.200	1143.95	7.77	2.29	-7.49	665828.87	479500.36	0.11	
1428.00	0.370	236.070	1427.94	10.13	1.72	-9.99	665826.38	479499.79	0.15	
1711.00	0.070	177.030	1710.93	10.76	1.04	-10.73	665825.63	479499.11	0.12	
1993.00	0.060	57.210	1992.93	10.59	0.91	-10.59	665825.77	479498.98	0.04	
2278.00	0.060	57.610	2277.93	10.35	1.04	-10.32	665826.04	479499.11	0.00	
2560.00	0.070	217.300	2559.93	10.32	0.98	-10.30	665826.06	479499.05	0.05	
2844.00	0.690	190.540	2843.93	10.42	-0.84	-10.72	665825.64	479497.23	0.22	
3127.00	0.580	20.200	3126.92	10.19	-1.17	-10.53	665825.83	479496.90	0.45	
3409.00	1.300	171.100	3408.90	8.90	-2.99	-9.55	665826.82	479495.08	0.65	
3690.00	0.680	72.280	3689.87	6.41	-5.63	-7.46	665828.90	479492.44	0.55	
3973.00	0.440	133.630	3972.86	4.01	-5.87	-5.08	665831.28	479492.20	0.21	
4019.00	0.330	121.150	4018.86	3.75	-6.06	-4.84	665831.52	479492.01	0.30	
4300.00	0.400	63.600	4299.85	2.20	-6.04	-3.27	665833.10	479492.03	0.13	
4583.00	0.300	49.600	4582.85	0.93	-5.12	-1.82	665834.54	479492.95	0.05	
4866.00	0.400	76.200	4865.84	-0.45	-4.41	-0.29	665836.07	479493.66	0.07	
5148.00	0.300	56.100	5147.84	-1.89	-3.76	1.28	665837.64	479494.31	0.06	
5432.00	0.030	329.600	5431.84	-2.38	-3.28	1.86	665838.22	479494.79	0.11	
5713.00	0.230	54.800	5712.84	-2.73	-2.89	2.28	665838.64	479495.18	0.08	
5997.00	0.170	121.900	5996.84	-3.53	-2.79	3.10	665839.46	479495.28	0.08	
6280.00	0.060	288.700	6279.84	-3.77	-2.96	3.32	665839.68	479495.11	0.08	
6563.00	0.400	243.300	6562.83	-2.83	-3.36	2.30	665838.66	479494.71	0.13	
6848.00	0.690	234.400	6847.82	-0.82	-4.80	0.01	665836.37	479493.27	0.11	
7130.00	0.600	243.300	7129.80	1.56	-6.45	-2.69	665833.67	479491.62	0.05	
7168.00	0.770	229.900	7167.80	1.89	-6.71	-3.06	665833.30	479491.36	0.61	
7191.00	0.790	221.100	7190.80	2.07	-6.93	-3.28	665833.08	479491.14	0.53	
7223.00	1.000	257.700	7222.79	2.44	-7.15	-3.70	665832.66	479490.92	1.86	
7254.00	2.700	303.700	7253.78	3.36	-6.81	-4.57	665831.79	479491.27	6.87	
7285.00	4.900	315.900	7284.71	5.10	-5.45	-6.10	665830.26	479492.62	7.52	
7316.00	6.900	319.400	7315.54	7.60	-3.08	-8.24	665828.13	479494.99	6.55	
7347.00	9.500	324.000	7346.22	10.86	0.40	-10.95	665825.41	479498.47	8.64	
7378.00	12.300	326.800	7376.66	14.94	5.23	-14.26	665822.10	479503.30	9.19	
7410.00	15.400	328.500	7407.73	20.06	11.71	-18.35	665818.01	479509.78	9.77	
7441.00	18.400	330.000	7437.38	25.90	19.46	-22.95	665813.41	479517.53	9.78	
7472.00	21.400	331.000	7466.53	32.57	28.64	-28.14	665808.22	479526.71	9.74	
7503.00	24.700	330.600	7495.05	40.19	39.24	-34.06	665802.30	479537.30	10.66	
7534.00	28.300	329.800	7522.79	49.00	51.23	-40.94	665795.42	479549.30	11.67	
7566.00	31.600	328.700	7550.51	59.37	64.96	-49.11	665787.25	479563.02	10.45	
7598.00	34.900	327.500	7577.27	71.02	79.85	-58.39	665777.97	479577.91	10.52	
7629.00	38.300	325.400	7602.16	83.70	95.24	-68.61	665767.75	479593.30	11.69	



Actual Wellpath Report

No.111H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.111H SHL
Area	Eddy County, NM	Well	No.111H
Field	JRU NAD27	Wellbore	No.111H AWP
Facility	JRU No.111H		

WELLPATH DATA (173 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Comments
7660.00	41.600	324.200	7625.92	97.75	111.50	-80.09	665756.27	479609.56	10.93	
7692.00	45.500	323.400	7649.11	113.59	129.28	-93.11	665743.25	479627.34	12.31	
7722.00	48.800	322.800	7669.51	129.57	146.87	-106.32	665730.05	479644.93	11.10	
7754.00	52.500	323.100	7689.79	147.59	166.61	-121.23	665715.14	479664.67	11.59	
7785.00	56.000	322.600	7707.90	165.95	186.66	-136.42	665699.95	479684.72	11.37	
7817.00	59.600	322.800	7724.95	185.75	208.20	-152.82	665683.54	479706.26	11.26	
7848.00	63.500	322.500	7739.72	205.71	229.86	-169.36	665667.01	479727.92	12.61	
7879.00	66.900	323.000	7752.72	226.27	252.26	-186.39	665649.98	479750.31	11.06	
7911.00	70.500	324.000	7764.34	247.79	276.22	-204.12	665632.26	479774.27	11.62	
7942.00	73.200	325.000	7774.00	268.69	300.20	-221.22	665615.15	479798.25	9.23	
7974.00	74.700	325.600	7782.84	290.21	325.48	-238.73	665597.65	479823.53	5.02	
8005.00	76.500	325.300	7790.55	311.16	350.21	-255.75	665580.62	479848.26	5.88	
8037.00	78.600	324.400	7797.45	333.20	375.76	-273.74	665562.63	479873.81	7.11	
8068.00	80.600	324.400	7803.05	354.88	400.55	-291.49	665544.89	479898.60	6.45	
8099.00	82.900	324.600	7807.49	376.65	425.53	-309.31	665527.07	479923.57	7.45	
8130.00	85.700	323.100	7810.57	398.79	450.43	-327.50	665508.88	479948.47	10.24	
8162.00	87.300	322.700	7812.53	422.07	475.91	-346.77	665489.62	479973.95	5.15	
8192.00	87.900	322.100	7813.78	444.11	499.65	-365.05	665471.33	479997.69	2.83	
8223.00	88.500	322.200	7814.76	466.97	524.12	-384.07	665452.32	480022.16	1.96	
8255.00	88.600	322.000	7815.57	490.60	549.36	-403.72	665432.67	480047.40	0.70	
8285.00	89.000	322.100	7816.19	512.77	573.01	-422.16	665414.22	480071.05	1.37	
8317.00	89.500	322.300	7816.61	536.37	598.30	-441.77	665394.61	480096.33	1.68	
8348.00	89.400	320.600	7816.91	559.50	622.54	-461.09	665375.30	480120.57	5.49	
8380.00	89.300	318.500	7817.27	584.06	646.89	-481.85	665354.54	480144.92	6.57	
8411.00	89.300	316.400	7817.65	608.58	669.72	-502.81	665333.58	480167.75	6.97	
8442.00	88.900	313.900	7818.14	633.83	691.69	-524.67	665311.72	480189.72	8.17	
8473.00	88.000	312.400	7818.98	659.69	712.89	-547.28	665289.12	480210.91	5.64	
8504.00	87.800	309.600	7820.11	686.16	733.21	-570.65	665265.74	480231.23	9.05	
8536.00	87.900	308.400	7821.31	714.05	753.33	-595.50	665240.89	480251.36	3.76	
8568.00	87.700	306.300	7822.54	742.37	772.73	-620.92	665215.48	480270.75	6.59	
8600.00	87.500	305.400	7823.88	771.07	791.45	-646.84	665189.56	480289.48	2.88	
8630.00	87.300	303.200	7825.24	798.32	808.34	-671.59	665164.81	480306.36	7.36	
8662.00	87.300	302.100	7826.75	827.76	825.59	-698.51	665137.90	480323.61	3.43	
8693.00	87.000	299.700	7828.29	856.63	841.49	-725.07	665111.33	480339.50	7.79	
8724.00	86.900	297.600	7829.94	885.91	856.33	-752.24	665084.17	480354.34	6.77	
8756.00	86.800	296.600	7831.70	916.40	870.88	-780.68	665055.73	480368.90	3.14	
8787.00	87.100	296.200	7833.35	946.05	884.65	-808.41	665028.00	480382.66	1.61	
8818.00	87.500	295.900	7834.81	975.76	898.25	-836.23	665000.18	480396.26	1.61	
8849.00	87.600	294.400	7836.14	1005.62	911.41	-864.26	664972.15	480409.42	4.85	
8880.00	88.100	293.400	7837.30	1035.65	923.96	-892.58	664943.83	480421.97	3.60	
8911.00	88.300	292.400	7838.27	1065.82	936.01	-921.12	664915.29	480434.03	3.29	
8942.00	89.300	291.000	7838.92	1096.13	947.47	-949.92	664886.50	480445.49	5.55	
8973.00	89.700	290.600	7839.19	1126.55	958.48	-978.90	664857.52	480456.49	1.82	
9004.00	89.900	289.300	7839.30	1157.06	969.06	-1008.04	664828.38	480467.07	4.24	
9036.00	90.100	289.300	7839.30	1188.61	979.63	-1038.24	664798.18	480477.64	0.62	



Actual Wellpath Report

No.111H AWP

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REFERENCE WELLPATH IDENTIFICATION

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Area	Eddy County, NM	Well	No.111H
Field	JRU NAD27	Wellbore	No.111H AWP
Facility	JRU No.111H		

WELLPATH DATA (173 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Comments
9067.00	90.700	286.200	7839.08	1219.30	989.08	-1067.76	664768.67	480487.09	10.19	
9099.00	90.500	287.000	7838.75	1251.07	998.23	-1098.42	664738.00	480496.23	2.58	
9130.00	89.100	285.000	7838.86	1281.88	1006.77	-1128.22	664708.21	480504.78	7.88	
9162.00	87.900	284.300	7839.70	1313.75	1014.86	-1159.17	664677.26	480512.87	4.34	
9196.00	87.500	283.600	7841.06	1347.63	1023.05	-1192.14	664644.29	480521.06	2.37	
9296.00	86.300	284.100	7846.47	1447.22	1046.95	-1289.09	664547.35	480544.96	1.30	
9391.00	88.400	283.300	7850.86	1541.88	1069.43	-1381.28	664455.16	480567.43	2.37	
9486.00	89.500	277.800	7852.60	1636.82	1086.81	-1474.62	664361.83	480584.81	5.90	
9581.00	91.000	274.200	7852.19	1731.60	1096.74	-1569.08	664267.37	480594.74	4.11	
9676.00	91.400	274.200	7850.20	1826.14	1103.69	-1663.81	664172.66	480601.70	0.42	
9772.00	91.300	274.100	7847.94	1921.66	1110.64	-1759.53	664076.94	480608.64	0.15	
9867.00	91.300	274.100	7845.78	2016.18	1117.43	-1854.26	663982.21	480615.43	0.00	
9962.00	91.300	274.500	7843.63	2110.73	1124.55	-1948.97	663887.51	480622.55	0.42	
10057.00	91.400	273.200	7841.39	2205.21	1130.93	-2043.73	663792.76	480628.93	1.37	
10152.00	91.400	272.800	7839.07	2299.53	1135.90	-2138.57	663697.92	480633.90	0.42	
10248.00	91.300	272.700	7836.80	2394.79	1140.50	-2234.43	663602.07	480638.50	0.15	
10343.00	91.300	272.900	7834.65	2489.08	1145.14	-2329.29	663507.21	480643.14	0.21	
10438.00	91.300	273.100	7832.49	2583.40	1150.11	-2424.14	663412.37	480648.11	0.21	
10533.00	91.300	272.400	7830.34	2677.68	1154.67	-2519.00	663317.51	480652.67	0.74	
10629.00	91.300	270.600	7828.16	2772.67	1157.18	-2614.94	663221.58	480655.18	1.87	
10724.00	91.400	271.400	7825.92	2866.54	1158.84	-2709.90	663126.63	480656.84	0.85	
10819.00	91.300	271.100	7823.68	2960.48	1160.91	-2804.85	663031.68	480658.91	0.33	
10914.00	91.400	272.200	7821.45	3054.52	1163.65	-2899.78	662936.76	480661.64	1.16	
11009.00	91.400	274.000	7819.12	3148.85	1168.78	-2994.61	662841.93	480666.78	1.89	
11105.00	90.800	274.100	7817.28	3244.37	1175.56	-3090.35	662746.20	480673.56	0.63	
11200.00	90.800	274.200	7815.95	3338.91	1182.43	-3185.10	662651.46	480680.43	0.11	
11295.00	90.700	274.700	7814.71	3433.50	1189.80	-3279.80	662556.76	480687.80	0.54	
11391.00	90.900	274.100	7813.37	3529.08	1197.17	-3375.51	662461.06	480695.17	0.66	
11486.00	90.800	275.500	7811.96	3623.72	1205.12	-3470.16	662366.41	480703.11	1.48	
11581.00	90.900	276.300	7810.55	3718.50	1214.88	-3564.65	662271.93	480712.88	0.85	
11676.00	90.800	271.400	7809.14	3812.96	1221.26	-3659.39	662177.19	480719.25	5.16	
11771.00	90.900	271.600	7807.73	3906.98	1223.74	-3754.35	662082.24	480721.74	0.24	
11867.00	90.800	271.000	7806.31	4001.93	1225.92	-3850.32	661986.28	480723.92	0.63	
11962.00	90.800	271.700	7804.98	4095.91	1228.16	-3945.28	661891.32	480726.15	0.74	
12057.00	90.800	270.900	7803.66	4189.88	1230.31	-4040.24	661796.36	480728.31	0.84	
12152.00	90.800	271.400	7802.33	4283.81	1232.22	-4135.22	661701.40	480730.22	0.53	
12248.00	90.800	273.700	7800.99	4379.05	1236.49	-4231.10	661605.52	480734.49	2.40	
12343.00	91.800	272.400	7798.83	4473.38	1241.55	-4325.94	661510.68	480739.54	1.73	
12438.00	91.900	271.500	7795.77	4567.46	1244.78	-4420.84	661415.79	480742.77	0.95	
12533.00	91.900	274.100	7792.62	4661.71	1249.41	-4515.66	661320.97	480747.41	2.74	
12628.00	91.700	273.900	7789.63	4756.19	1256.04	-4610.39	661226.26	480754.03	0.30	
12723.00	91.800	274.400	7786.73	4850.70	1262.91	-4705.09	661131.56	480760.90	0.54	
12818.00	91.800	273.800	7783.75	4945.20	1269.70	-4799.80	661036.85	480767.69	0.63	
12913.00	91.800	274.700	7780.76	5039.72	1276.73	-4894.49	660942.17	480774.73	0.95	
13009.00	91.800	274.200	7777.75	5135.27	1284.18	-4990.16	660846.51	480782.17	0.52	



Actual Wellpath Report

No.111H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.111H SHL
Area	Eddy County, NM	Well	No.111H
Field	JRU NAD27	Wellbore	No.111H AWP
Facility	JRU No.111H		

WELLPATH DATA (173 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Comments
13104.00	91.900	273.500	7774.68	5229.72	1290.55	-5084.89	660751.78	480788.55	0.74	
13199.00	91.700	273.300	7771.70	5324.10	1296.19	-5179.68	660657.00	480794.18	0.30	
13295.00	91.600	273.000	7768.93	5419.43	1301.46	-5275.49	660561.19	480799.45	0.33	
13390.00	91.700	272.700	7766.20	5513.71	1306.18	-5370.33	660466.35	480804.17	0.33	
13485.00	91.500	272.700	7763.54	5607.96	1310.65	-5465.19	660371.50	480808.64	0.21	
13580.00	91.500	272.600	7761.06	5702.21	1315.04	-5560.06	660276.64	480813.03	0.11	
13676.00	91.600	272.900	7758.46	5797.47	1319.65	-5655.91	660180.79	480817.64	0.33	
13771.00	91.700	272.700	7755.73	5891.74	1324.29	-5750.76	660085.95	480822.28	0.24	
13866.00	91.300	272.500	7753.24	5985.98	1328.60	-5845.63	659991.09	480826.58	0.47	
13961.00	91.900	273.100	7750.59	6080.25	1333.23	-5940.48	659896.25	480831.22	0.89	
14057.00	89.900	273.300	7749.08	6175.61	1338.59	-6036.31	659800.42	480836.58	2.09	
14152.00	90.300	273.100	7748.91	6270.00	1343.90	-6131.16	659705.57	480841.88	0.47	
14247.00	90.300	273.200	7748.41	6364.37	1349.12	-6226.02	659610.72	480847.10	0.11	
14342.00	90.300	272.900	7747.92	6458.73	1354.17	-6320.88	659515.87	480852.16	0.32	
14438.00	90.200	273.000	7747.50	6554.06	1359.11	-6416.75	659420.00	480857.10	0.15	
14533.00	90.300	274.900	7747.08	6648.58	1365.65	-6511.52	659325.24	480863.64	2.00	
14628.00	90.300	275.500	7746.59	6743.28	1374.26	-6606.13	659230.64	480872.25	0.63	
14723.00	90.200	271.900	7746.17	6837.74	1380.39	-6700.92	659135.86	480878.38	3.79	
14818.00	90.300	272.300	7745.76	6931.91	1383.88	-6795.85	659040.93	480881.86	0.43	
14913.00	90.300	272.000	7745.26	7026.08	1387.44	-6890.78	658946.00	480885.42	0.32	
15008.00	90.900	272.500	7744.27	7120.27	1391.17	-6985.70	658851.09	480889.15	0.82	
15103.00	91.700	272.400	7742.11	7214.48	1395.23	-7080.59	658756.20	480893.21	0.85	
15198.00	91.800	272.900	7739.21	7308.72	1399.62	-7175.45	658661.36	480897.60	0.54	
15293.00	91.700	273.700	7736.31	7403.08	1405.08	-7270.24	658566.56	480903.07	0.85	
15389.00	91.800	274.400	7733.38	7498.56	1411.86	-7365.96	658470.85	480909.85	0.74	
15484.00	91.800	274.500	7730.39	7593.12	1419.23	-7460.62	658376.19	480917.21	0.11	
15580.00	91.700	273.300	7727.46	7688.58	1425.76	-7556.36	658280.47	480923.74	1.25	
15675.00	91.700	274.700	7724.64	7783.06	1432.38	-7651.08	658185.75	480930.36	1.47	
15770.00	91.800	276.200	7721.74	7877.75	1441.40	-7745.60	658091.23	480939.38	1.58	
15864.00	92.000	274.500	7718.62	7971.42	1450.16	-7839.14	657997.70	480948.14	1.82	
15960.00	92.100	273.900	7715.19	8066.92	1457.18	-7934.82	657902.03	480955.16	0.63	
16055.00	91.800	270.800	7711.96	8161.07	1461.08	-8029.67	657807.18	480959.06	3.28	
16150.00	91.800	271.000	7708.97	8254.90	1462.57	-8124.61	657712.24	480960.55	0.21	
16245.00	91.800	271.000	7705.99	8348.76	1464.22	-8219.55	657617.31	480962.20	0.00	
16340.00	91.900	270.500	7702.92	8442.55	1465.47	-8314.50	657522.38	480963.45	0.54	
16436.00	91.900	270.800	7699.74	8537.30	1466.56	-8410.44	657426.44	480964.54	0.31	
16452.00	91.800	270.900	7699.22	8553.10	1466.79	-8426.43	657410.45	480964.77	0.88	
16526.00	91.800	270.900	7696.90	8626.19	1467.95	-8500.38	657336.50	480965.93	0.00	Proj to Bit



Actual Wellpath Report

No.111H AWP

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REFERENCE WELDPATH IDENTIFICATION (CAUTION)

Operator	BOPCO, L.P.	Slot	No.111H SHL
Area	Eddy County, NM	Well	No.111H
Field	JRU NAD27	Wellbore	No.111H AWB
Facility	JRU No.111H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
No.111H PBHL		7686.00	1458.32	-8521.38	657315.50	480956.30	32°19'16.455"N	103°49'26.669"W	point
#2 VS		7801.00	1265.70	-4128.41	661708.20	480763.69	32°19'14.339"N	103°48'35.490"W	point
No.111H Target #2		7801.00	1257.15	-4128.41	661708.20	480755.14	32°19'14.255"N	103°48'35.490"W	point
No.111H Target #1		7853.00	1050.00	-1237.54	664598.90	480548.01	32°19'12.064"N	103°48'01.816"W	point
Corner		7858.00	1020.00	-1222.54	664613.90	480518.01	32°19'11.766"N	103°48'01.643"W	point

WELLPATH COMPOSITION - Ref Wellbore: No.111H AWB Ref Wellpath: No.111H AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
22.00	734.00	Drift Indicator (Standard)	Rig <22-734>	No.111H AWB
734.00	16526.00	NaviTrak (Standard)	MWD NaviTrak <867-XXXX>	No.111H AWB