

Provide Certification/
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Actual Wellpath Report

AWP - Final

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, LP	Slot	Poker Lake Unit CVX JV RR #010H (Unknown Rig)
Area	Eddy County, NM	Well	SL 290 FSL, 675 FEL
Field	Eddy County, NM (NAD 27 / Grid)	Wellbore	PLU CVX JV RR #010H Actual
Facility	PLU CVX JV (RR #010H and PC #021H {Pad}) Sec. 17-25S-30E		

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	0.99993	Report Generated	10/14/2014 at 10:03:01 AM
Convergence at slot	0.23° East	Database/Source file	WA_MIDLAND/C:\Users\burnranj\AppData\Roaming\Well Explorer\temp\BOPCO, LP Poker Lake Unit CVX JV RR #010H (Unknown Rig)_ Final Surveys.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	635242.80	408976.50	32°07'25.101"N	103°53'47.304"W
Facility Reference Pt			635242.80	408976.50	32°07'25.101"N	103°53'47.304"W
Field Reference Pt			510280.10	534700.83	32°28'12.000"N	104°18'00.000"W

WELLPATH DATUM			
Calculation method	Minimum curvature	(Unknown Rig) (RKB) to Facility Vertical Datum.	22.00ft
Horizontal Reference Pt	Slot	(Unknown Rig) (RKB) to Mean Sea Level	3254.71ft
Vertical Reference Pt	(Unknown Rig) (RKB)	(Unknown Rig) (RKB) to Mud Line at Slot (Poker Lake Unit CVX JV RR #010H (Unknown Rig))	22.00ft
MD Reference Pt	(Unknown Rig) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	177.41°



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WELLPATH DATA (167 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	198.500	0.00	0.00	0.00	0.00	635242.80	408976.50	0.00	
22.00	0.000	198.500	22.00	0.00	0.00	0.00	635242.80	408976.50	0.00	
210.00	1.000	198.500	209.99	1.53	-1.56	-0.52	635242.28	408974.94	0.53	
363.00	1.000	212.300	362.97	3.87	-3.95	-1.66	635241.14	408972.55	0.16	
545.00	0.800	196.000	544.95	6.38	-6.51	-2.86	635239.94	408969.99	0.18	
703.00	1.300	175.000	702.92	9.21	-9.36	-3.00	635239.80	408967.14	0.39	
893.00	2.300	180.400	892.82	15.18	-15.32	-2.84	635239.96	408961.18	0.53	
1083.00	0.800	161.600	1082.75	20.26	-20.39	-2.45	635240.35	408956.11	0.82	
1113.00	0.700	166.400	1112.75	20.64	-20.77	-2.34	635240.46	408955.73	0.39	
1230.00	0.500	118.400	1229.74	21.61	-21.71	-1.72	635241.08	408954.80	0.45	
1420.00	0.800	208.500	1419.73	23.17	-23.27	-1.63	635241.17	408953.24	0.50	
1610.00	1.000	228.400	1609.71	25.35	-25.53	-3.50	635239.30	408950.97	0.19	
1801.00	1.300	250.400	1800.67	27.03	-27.37	-6.79	635236.01	408949.14	0.28	
1991.00	1.000	249.300	1990.63	28.18	-28.67	-10.37	635232.43	408947.83	0.16	
2181.00	0.800	180.100	2180.62	28.86	-29.43	-11.92	635230.88	408947.08	0.51	
2371.00	1.100	47.200	2370.61	27.84	-28.35	-10.58	635232.22	408948.15	0.62	
2562.00	0.900	20.200	2561.58	25.28	-25.70	-8.72	635234.08	408950.80	0.26	
2752.00	1.000	15.400	2751.56	22.33	-22.70	-7.76	635235.04	408953.80	0.07	
2943.00	0.600	31.100	2942.54	19.91	-20.24	-6.81	635236.00	408956.26	0.24	
3133.00	3.400	92.000	3132.41	19.53	-19.58	-0.66	635242.14	408956.92	1.66	
3228.00	3.400	95.200	3227.25	20.14	-19.94	4.96	635247.76	408956.57	0.20	
3323.00	3.700	112.900	3322.07	21.84	-21.38	10.59	635253.39	408955.12	1.19	
3418.00	3.000	114.900	3416.90	24.31	-23.62	15.67	635258.47	408952.88	0.75	
3513.00	3.200	127.800	3511.77	27.17	-26.29	20.02	635262.82	408950.21	0.76	
3609.00	2.800	128.800	3607.63	30.46	-29.41	23.96	635266.76	408947.10	0.42	
3677.00	2.100	129.400	3675.57	32.39	-31.24	26.22	635269.02	408945.26	1.03	
3749.00	1.800	130.100	3747.53	34.04	-32.80	28.11	635270.90	408943.70	0.42	
3844.00	1.200	144.200	3842.50	35.89	-34.57	29.83	635272.63	408941.93	0.74	
3939.00	0.600	260.900	3937.49	36.77	-35.46	29.92	635272.72	408941.05	1.65	
4034.00	1.200	291.700	4032.48	36.42	-35.17	28.50	635271.30	408941.33	0.79	
4129.00	1.400	303.700	4127.45	35.33	-34.16	26.61	635269.41	408942.35	0.35	
4224.00	1.500	298.200	4222.42	34.00	-32.92	24.55	635267.35	408943.58	0.18	
4319.00	1.100	295.700	4317.40	32.93	-31.94	22.64	635265.43	408944.56	0.43	
4414.00	1.500	287.600	4412.37	32.07	-31.17	20.63	635263.43	408945.33	0.46	
4510.00	1.700	301.000	4508.34	30.85	-30.06	18.21	635261.01	408946.45	0.44	
4604.00	1.400	314.000	4602.30	29.24	-28.54	16.19	635258.99	408947.96	0.49	
4699.00	1.600	308.300	4697.27	27.53	-26.91	14.31	635257.11	408949.59	0.26	
4794.00	1.700	310.300	4792.23	25.71	-25.18	12.20	635255.00	408951.32	0.12	
4889.00	1.800	312.900	4887.19	23.68	-23.25	10.03	635252.83	408953.25	0.13	
4985.00	1.700	307.700	4983.14	21.69	-21.36	7.80	635250.60	408955.15	0.20	
5080.00	1.900	311.300	5078.10	19.68	-19.45	5.50	635248.30	408957.05	0.24	
5175.00	1.900	317.000	5173.04	17.39	-17.26	3.24	635246.04	408959.24	0.20	
5269.00	1.200	339.700	5267.01	15.27	-15.20	1.84	635244.64	408961.30	0.98	

322.300	5361.99	13.67	-13.63	1.10	635243.90	408962.87	0.38
5456.98	12.40	-12.40	0.26	635243.06	408964.10	0.10	



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Facility	PLU CVX JV (RR #010H and PC #021H {Pad}) Sec. 17-25S-30E		

WELLPATH DATA (167 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
5555.00	0.800	323.900	5552.97	11.23	-11.27	-0.60	635242.20	408965.23	0.11	
5649.00	0.800	310.100	5646.96	10.24	-10.31	-1.49	635241.31	408966.19	0.20	
5744.00	0.700	306.700	5741.95	9.42	-9.54	-2.46	635240.34	408966.96	0.12	
5840.00	0.400	306.100	5837.95	8.84	-8.99	-3.20	635239.60	408967.51	0.31	
5935.00	0.500	268.200	5932.95	8.63	-8.81	-3.88	635238.92	408967.69	0.32	
6030.00	0.700	259.000	6027.94	8.71	-8.93	-4.87	635237.93	408967.57	0.23	
6125.00	1.000	270.500	6122.93	8.75	-9.04	-6.27	635236.53	408967.46	0.36	
6220.00	0.500	299.700	6217.92	8.48	-8.83	-7.46	635235.34	408967.68	0.65	
6315.00	0.500	299.400	6312.92	8.04	-8.42	-8.18	635234.62	408968.08	0.00	
6410.00	0.400	283.500	6407.92	7.73	-8.14	-8.86	635233.94	408968.37	0.17	
6505.00	0.500	279.200	6502.91	7.55	-7.99	-9.59	635233.21	408968.51	0.11	
6600.00	0.400	259.100	6597.91	7.51	-7.99	-10.33	635232.47	408968.51	0.20	
6695.00	0.300	282.000	6692.91	7.50	-8.00	-10.90	635231.91	408968.50	0.18	
6790.00	0.100	217.300	6787.91	7.50	-8.01	-11.19	635231.61	408968.49	0.29	
6885.00	0.400	165.000	6882.91	7.89	-8.40	-11.15	635231.65	408968.10	0.37	
6980.00	0.600	175.500	6977.90	8.71	-9.22	-11.03	635231.77	408967.28	0.23	
7075.00	0.700	168.300	7072.90	9.78	-10.28	-10.87	635231.93	408966.22	0.14	
7170.00	0.800	158.100	7167.89	10.98	-11.46	-10.51	635232.29	408965.04	0.18	
7265.00	0.900	166.200	7262.88	12.33	-12.80	-10.08	635232.72	408963.70	0.16	
7360.00	1.200	190.400	7357.86	14.04	-14.51	-10.08	635232.72	408961.99	0.56	
7455.00	0.900	176.600	7452.85	15.75	-16.23	-10.22	635232.58	408960.27	0.41	
7550.00	0.900	115.000	7547.84	16.84	-17.29	-9.50	635233.30	408959.21	0.97	
7645.00	0.300	49.100	7642.83	17.03	-17.44	-8.63	635234.17	408959.06	0.87	
7740.00	0.700	4.200	7737.83	16.30	-16.70	-8.40	635234.40	408959.80	0.56	
7835.00	0.700	0.400	7832.82	15.15	-15.54	-8.36	635234.44	408960.96	0.05	
7930.00	0.400	271.000	7927.82	14.55	-14.96	-8.68	635234.12	408961.55	0.84	
8026.00	0.600	282.000	8023.82	14.40	-14.85	-9.51	635233.29	408961.66	0.23	
8120.00	1.800	264.300	8117.79	14.36	-14.89	-11.46	635231.34	408961.61	1.32	
8216.00	2.100	279.000	8213.74	14.08	-14.76	-14.70	635228.10	408961.74	0.61	
8299.00	2.800	246.700	8296.67	14.50	-15.33	-18.06	635224.74	408961.17	1.83	
8406.00	3.300	237.000	8403.51	16.98	-18.04	-23.05	635219.76	408958.46	0.67	
8501.00	2.500	239.100	8498.39	19.34	-20.59	-27.12	635215.68	408955.91	0.85	
8596.00	1.900	248.100	8593.32	20.85	-22.24	-30.36	635212.45	408954.26	0.73	
8691.00	2.100	249.900	8688.26	21.89	-23.43	-33.45	635209.35	408953.07	0.22	
8786.00	2.100	268.400	8783.20	22.39	-24.08	-36.83	635205.98	408952.43	0.71	
8881.00	2.600	301.900	8878.13	21.14	-22.99	-40.40	635202.41	408953.52	1.51	
8976.00	2.100	331.500	8973.05	18.35	-20.32	-43.06	635199.75	408956.18	1.36	
9071.00	1.600	356.800	9068.00	15.46	-17.46	-43.96	635198.84	408959.04	1.00	
9167.00	1.500	67.200	9163.97	13.68	-15.64	-42.88	635199.93	408960.86	1.86	
9261.00	0.900	81.200	9257.95	13.18	-15.05	-41.01	635201.79	408961.45	0.71	
9356.00	1.500	126.200	9352.93	13.88	-15.67	-39.27	635203.53	408960.83	1.13	
9451.00	1.500	138.500	9447.90	15.62	-17.33	-37.45	635205.36	408959.17	0.34	
9546.00	0.900	171.200	9542.88	17.33	-19.00	-36.51	635206.30	408957.50	0.93	

9595.00	1.000	177.500	9591.87	18.14	-19.81	-36.43	635206.37	408956.69	0.29
9629.00	1.100	190.500	9625.87	18.76	-20.43	-36.48	635206.33	408956.07	0.76



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WELLPATH DATA (167 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
9661.00	1.600	200.900	9657.86	19.47	-21.15	-36.69	635206.11	408955.35	1.73	
9693.00	4.900	180.500	9689.80	21.24	-22.93	-36.86	635205.94	408953.57	10.77	
9724.00	8.500	173.300	9720.59	24.85	-26.53	-36.61	635206.20	408949.97	11.90	
9756.00	10.900	169.500	9752.13	30.21	-31.86	-35.78	635207.02	408944.65	7.76	
9788.00	14.000	165.300	9783.37	36.99	-38.58	-34.25	635208.56	408937.92	10.09	
9819.00	16.900	164.200	9813.25	45.04	-46.54	-32.07	635210.74	408929.96	9.40	
9851.00	20.300	164.000	9843.57	54.97	-56.36	-29.27	635213.53	408920.15	10.63	
9883.00	23.400	168.700	9873.27	66.66	-67.93	-26.49	635216.31	408908.58	11.12	
9914.00	27.000	171.300	9901.32	79.75	-80.92	-24.22	635218.58	408895.58	12.15	
9946.00	30.800	172.200	9929.33	95.13	-96.23	-22.01	635220.79	408880.28	11.95	
9978.00	34.600	172.400	9956.25	112.35	-113.36	-19.70	635223.10	408863.15	11.88	
10009.00	38.100	173.800	9981.22	130.67	-131.59	-17.50	635225.30	408844.91	11.60	
10040.00	41.700	176.500	10005.00	150.53	-151.40	-15.84	635226.97	408825.11	12.88	
10072.00	45.000	179.100	10028.26	172.49	-173.35	-15.01	635227.79	408803.17	11.72	
10104.00	47.800	181.100	10050.33	195.63	-196.52	-15.06	635227.74	408780.00	9.85	
10136.00	49.300	182.500	10071.51	219.55	-220.49	-15.81	635226.99	408756.03	5.72	
10167.00	52.400	182.400	10091.08	243.49	-244.50	-16.84	635225.96	408732.02	10.00	
10199.00	55.500	183.800	10109.91	269.23	-270.33	-18.25	635224.55	408706.19	10.31	
10231.00	58.900	184.000	10127.25	295.95	-297.16	-20.08	635222.72	408679.36	10.64	
10262.00	62.800	184.200	10142.34	322.83	-324.16	-22.01	635220.79	408652.36	12.59	
10294.00	66.700	184.200	10155.99	351.57	-353.02	-24.13	635218.67	408623.50	12.19	
10326.00	70.600	183.000	10167.64	381.19	-382.76	-26.00	635216.80	408593.77	12.68	
10358.00	74.700	182.000	10177.18	411.61	-413.27	-27.33	635215.47	408563.26	13.15	
10389.00	79.300	180.500	10184.15	441.74	-443.46	-27.98	635214.82	408533.07	15.57	
10421.00	83.000	179.200	10189.07	473.32	-475.07	-27.90	635214.90	408501.46	12.24	
10453.00	87.600	178.200	10191.70	505.20	-506.95	-27.17	635215.63	408469.59	14.71	
10484.00	91.000	176.600	10192.07	536.19	-537.91	-25.77	635217.03	408438.63	12.12	
10516.00	92.100	176.600	10191.21	568.17	-569.84	-23.87	635218.93	408406.70	3.44	
10611.00	93.500	176.900	10186.57	663.05	-664.57	-18.49	635224.31	408311.98	1.51	
10706.00	92.900	176.900	10181.27	757.90	-759.28	-13.36	635229.44	408217.27	0.63	
10801.00	92.900	178.600	10176.46	852.77	-854.08	-9.64	635233.16	408122.48	1.79	
10919.00	89.800	177.500	10173.68	970.72	-971.97	-5.62	635237.18	408004.60	2.79	
11014.00	88.700	177.600	10174.92	1065.71	-1066.87	-1.56	635241.24	407909.71	1.16	
11108.00	88.400	175.700	10177.30	1159.66	-1160.68	3.93	635246.73	407815.91	2.05	
11203.00	90.100	176.000	10178.54	1254.62	-1255.41	10.80	635253.60	407721.18	1.82	
11298.00	90.000	176.100	10178.46	1349.59	-1350.19	17.35	635260.14	407626.41	0.15	
11393.00	89.300	175.700	10179.04	1444.56	-1444.94	24.14	635266.94	407531.66	0.85	
11489.00	89.300	175.000	10180.21	1540.49	-1540.62	31.92	635274.72	407435.99	0.73	
11584.00	90.300	174.600	10180.55	1635.39	-1635.23	40.53	635283.33	407341.39	1.13	
11679.00	90.600	174.300	10179.80	1730.26	-1729.78	49.72	635292.51	407246.85	0.45	
11774.00	90.900	176.300	10178.56	1825.18	-1824.45	57.50	635300.30	407152.19	2.13	
11869.00	90.700	175.300	10177.23	1920.13	-1919.18	64.46	635307.25	407057.46	1.07	
11964.00	90.900	175.800	10175.90	2015.07	-2013.88	71.83	635314.62	406962.76	0.57	

12059.00	88.900	173.500	10176.07	2109.95	-2108.46	80.68	635323.48	406868.19	3.21
12154.00	90.400	173.000	10176.65	2204.70	2202.80	91.85	635334.64	406773.86	1.66



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Field	Eddy County, NM (NAD 27 / Grid)	Wellbore	PLU CVX JV RR #010H Actual
Facility	PLU CVX JV (RR #010H and PC #021H {Pad}) Sec. 17-25S-30E		

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12344.00	89.500	173.800	10176.82	2394.23	-2391.53	113.69	635356.48	406585.14	0.63	
12534.00	91.700	175.600	10174.83	2583.99	-2580.69	131.24	635374.03	406396.00	1.50	
12724.00	91.900	175.700	10168.86	2773.80	-2770.05	145.64	635388.43	406206.65	0.12	
12914.00	91.200	177.900	10163.72	2963.71	-2959.67	156.24	635399.03	406017.04	1.21	
13104.00	90.900	178.000	10160.24	3153.67	-3149.52	163.04	635405.82	405827.21	0.17	
13294.00	91.000	177.600	10157.09	3343.64	-3339.35	170.33	635413.12	405637.39	0.22	
13485.00	90.700	177.800	10154.25	3534.61	-3530.18	177.99	635420.78	405446.58	0.19	
13675.00	89.600	177.600	10153.76	3724.61	-3720.02	185.62	635428.40	405256.75	0.59	
13865.00	89.700	178.200	10154.92	3914.60	-3909.89	192.58	635435.37	405066.89	0.32	
14055.00	89.400	178.100	10156.41	4104.57	-4099.78	198.71	635441.50	404877.01	0.17	
14245.00	89.000	178.000	10159.06	4294.54	-4289.65	205.18	635447.96	404687.16	0.22	
14435.00	91.400	179.000	10158.40	4484.49	-4479.57	210.15	635452.94	404497.25	1.37	
14524.00	91.300	179.400	10156.30	4573.42	-4568.54	211.39	635454.18	404408.29	0.46	
14714.00	90.400	177.700	10153.48	4763.36	-4758.45	216.20	635458.99	404218.40	1.01	
14904.00	91.000	178.800	10151.16	4953.32	-4948.34	222.00	635464.79	404028.52	0.66	
15095.00	91.200	178.500	10147.49	5144.24	-5139.25	226.50	635469.29	403837.62	0.19	
15285.00	90.300	178.800	10145.01	5334.17	-5329.18	230.98	635473.76	403647.70	0.50	
15475.00	90.800	177.100	10143.18	5524.15	-5519.04	237.77	635480.56	403457.86	0.93	
15665.00	91.300	177.100	10139.70	5714.11	-5708.77	247.39	635490.17	403268.14	0.26	
15855.00	90.700	177.300	10136.39	5904.08	-5898.51	256.67	635499.45	403078.42	0.33	
16045.00	89.700	177.000	10135.72	6094.08	-6088.27	266.11	635508.89	402888.67	0.55	
16235.00	89.800	176.900	10136.55	6284.07	-6278.00	276.22	635519.00	402698.95	0.07	
16425.00	90.400	176.600	10136.22	6474.05	-6467.69	286.99	635529.77	402509.27	0.35	
16615.00	89.500	177.000	10136.39	6664.04	-6657.39	297.60	635540.38	402319.59	0.52	
16805.00	90.300	177.300	10136.72	6854.04	-6847.16	307.05	635549.82	402129.84	0.45	
16994.00	89.100	176.000	10137.71	7043.01	-7035.82	318.09	635560.87	401941.18	0.94	
17185.00	90.500	176.000	10138.37	7233.95	-7226.35	331.41	635574.19	401750.67	0.73	
17375.00	90.100	177.200	10137.38	7423.92	-7416.01	342.68	635585.46	401561.02	0.67	
17564.00	87.900	177.900	10140.68	7612.88	-7604.80	350.76	635593.53	401372.25	1.22	
17754.00	88.600	178.400	10146.48	7802.77	-7794.61	356.89	635599.66	401182.45	0.45	
17943.00	88.600	178.300	10151.10	7991.69	-7983.47	362.33	635605.10	400993.60	0.05	
17992.00	88.600	178.300	10152.29	8040.67	-8032.44	363.78	635606.56	400944.64	0.00	

WELLPATH COMPOSITION - Ref Wellbore: PLU CVX JV RR #010H Actual - Ref Wellpath: AWP - Final				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
22.00	17943.00	NaviTrak (Standard)	BHI NaviTrak <210-17943>	PLU CVX JV RR #010H Actual
17943.00	17992.00	Blind Drilling (std)	Projection to bit	PLU CVX JV RR #010H Actual