

Actual Wellpath Report

ALBRIGHTON J-10HN AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BAYSWATER E & P LLC	Slot	SLOT#04 ALBRIGHTON J-10HN (1170'FSL & 1212'FWL, SEC.10)
Area	COLORADO	Well	ALBRIGHTON J-10HN
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	ALBRIGHTON J-10HN AWB
Facility	SEC.10-T06N-R64W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.0
North Reference	True	User	Ingmjmr
Scale	0.999966	Report Generated	2/17/2016 at 11:49:51 AM
Convergence at slot	0.62° East	Database/Source file	WA_DEN_Denver_Defn/ALBRIGHTON_J-10HN_AWP.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.40	45.04	3266603.55	1425197.71	40°29'47.807"N	104°32'28.921"W
Facility Reference Pt			3266558.51	1425196.82	40°29'47.803"N	104°32'29.504"W
Field Reference Pt			3174587.00	1430859.75	40°30'51.890"N	104°52'19.470"W

WELLPATH DATUM

Calculation method	Minimum curvature	FRONTIER 8 (RKB) to Facility Vertical Datum	4830.00ft
Horizontal Reference Pt	Slot	FRONTIER 8 (RKB) to Mean Sea Level	4830.00ft
Vertical Reference Pt	FRONTIER 8 (RKB)	FRONTIER 8 (RKB) to Mud Line at Slot (SLOT#04 ALBRIGHTON J-10HN (1170'FSL & 1212'FWL, SEC.10))	4830.00ft
MD Reference Pt	FRONTIER 8 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	15.73°

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Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	ALBRIGHTON J-10HN AWB
Facility	SEC.10-T06N-R64W		

WELLPATH DATA (128 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	150.760	0.00	0.00	0.00	0.00	0.00	
23.00	0.000	150.760	23.00	0.00	0.00	0.00	0.00	
125.00	0.750	150.760	125.00	-0.47	-0.58	0.33	0.74	FIRST BHI MWD SURVEY
219.00	1.070	148.070	218.99	-1.50	-1.86	1.09	0.34	
315.00	1.700	153.990	314.96	-3.16	-3.90	2.19	0.67	
409.00	2.890	150.250	408.88	-5.87	-7.22	3.98	1.28	
504.00	3.940	143.910	503.71	-9.56	-11.93	7.09	1.17	
597.00	4.870	139.580	596.43	-13.74	-17.52	11.53	1.06	
692.00	5.900	136.810	691.01	-18.50	-24.15	17.49	1.12	
786.00	6.970	135.280	784.42	-23.81	-31.72	24.81	1.15	
878.00	7.590	127.980	875.68	-28.87	-39.43	33.52	1.21	
973.00	8.410	128.360	969.76	-33.92	-47.60	43.92	0.86	
1066.00	8.880	130.990	1061.70	-39.60	-56.53	54.67	0.66	
1161.00	10.180	137.780	1155.39	-47.18	-67.56	65.84	1.81	
1256.00	11.620	141.210	1248.67	-57.19	-81.23	77.48	1.66	
1350.00	12.880	144.820	1340.53	-69.29	-97.18	89.45	1.57	
1445.00	14.390	146.580	1432.85	-83.69	-115.69	102.05	1.65	
1507.00	14.850	145.210	1492.85	-93.78	-128.64	110.83	0.93	
1609.00	13.220	145.040	1591.80	-109.48	-148.94	124.97	1.60	
1704.00	16.500	153.950	1683.62	-126.43	-169.97	137.12	4.20	
1799.00	17.130	157.680	1774.56	-147.51	-195.03	148.36	1.31	
1894.00	17.950	162.080	1865.15	-170.71	-221.90	158.18	1.64	
1990.00	22.070	154.550	1955.35	-196.62	-252.28	170.49	5.05	
2085.00	19.740	137.670	2044.17	-218.56	-280.29	188.98	6.77	
2180.00	17.600	137.230	2134.16	-234.55	-302.69	209.54	2.26	
2275.00	18.730	138.370	2224.43	-250.29	-324.64	229.43	1.25	
2370.00	18.680	129.620	2314.43	-264.68	-345.75	251.28	2.95	
2465.00	18.580	127.740	2404.45	-276.51	-364.71	274.97	0.64	
2561.00	17.330	131.400	2495.78	-288.44	-383.53	297.79	1.75	
2656.00	18.110	141.630	2586.29	-303.23	-404.47	317.57	3.37	
2751.00	18.690	141.490	2676.43	-320.78	-427.95	336.22	0.61	
2846.00	18.620	137.620	2766.45	-337.69	-451.07	355.92	1.30	
2941.00	18.760	134.160	2856.44	-352.98	-472.91	377.10	1.18	
3037.00	18.870	129.680	2947.31	-366.63	-493.58	400.12	1.51	
3132.00	18.360	124.630	3037.35	-377.71	-511.90	424.26	1.78	
3227.00	18.530	126.220	3127.47	-387.84	-529.32	448.75	0.56	
3322.00	18.560	128.650	3217.54	-399.02	-547.68	472.74	0.81	
3417.00	18.220	134.500	3307.69	-412.05	-567.53	495.14	1.97	
3512.00	18.360	145.170	3397.92	-428.71	-590.23	514.28	3.52	
3607.00	18.210	152.090	3488.14	-448.96	-615.63	529.78	2.29	
3702.00	18.450	154.400	3578.32	-470.99	-642.31	543.22	0.81	
3798.00	18.680	149.910	3669.33	-493.12	-669.31	557.49	1.51	
3893.00	18.660	143.500	3759.34	-513.03	-694.69	574.16	2.16	
3988.00	18.500	139.350	3849.39	-530.68	-718.35	593.02	1.40	
4084.00	18.760	139.340	3940.36	-547.66	-741.61	613.00	0.27	

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Area	COLORADO	Well	ALBRIGHTON J-10HN
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	ALBRIGHTON J-10HN AWB
Facility	SEC.10-T06N-R64W		

WELLPATH DATA (128 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS ["/100ft]	Comments
4179.00	18.780	139.460	4030.31	-564.61	-764.82	632.90	0.05	
4274.00	18.250	139.650	4120.39	-581.40	-787.78	652.47	0.56	
4369.00	18.770	142.600	4210.48	-598.87	-811.26	671.38	1.13	
4464.00	18.690	142.860	4300.44	-617.23	-835.54	689.85	0.12	
4559.00	17.840	144.740	4390.66	-635.58	-859.55	707.45	1.09	
4655.00	18.160	139.440	4481.97	-653.14	-882.93	725.66	1.74	
4750.00	18.030	135.540	4572.27	-668.67	-904.67	745.59	1.28	
4845.00	18.010	139.220	4662.61	-684.08	-926.28	765.48	1.20	
4942.00	18.180	140.210	4754.82	-700.92	-949.27	784.96	0.36	
5036.00	17.970	137.260	4844.18	-716.81	-971.18	804.18	1.00	
5131.00	18.280	140.840	4934.47	-733.04	-993.50	823.54	1.22	
5226.00	18.250	138.900	5024.68	-749.75	-1016.26	842.73	0.64	
5320.00	17.990	133.640	5114.03	-764.60	-1037.37	862.91	1.76	
5414.00	16.820	131.740	5203.72	-777.36	-1056.45	883.56	1.38	
5509.00	13.870	132.950	5295.33	-788.60	-1073.36	902.16	3.12	
5601.00	13.510	136.800	5384.71	-799.19	-1088.71	917.59	1.06	
5695.00	11.580	137.600	5476.47	-809.84	-1103.68	931.46	2.06	
5789.00	9.650	137.740	5568.85	-819.00	-1116.48	943.13	2.05	
5883.00	8.050	142.110	5661.73	-827.08	-1127.50	952.47	1.85	
5978.00	6.680	149.750	5755.95	-834.86	-1137.53	959.34	1.77	
6072.00	4.360	146.500	5849.51	-841.00	-1145.23	964.06	2.49	
6167.00	2.570	145.950	5944.33	-844.73	-1150.01	967.25	1.88	
6262.00	0.470	74.520	6039.29	-845.90	-1151.67	968.82	2.59	
6357.00	0.110	9.610	6134.29	-845.61	-1151.47	969.21	0.46	
6451.00	0.230	330.560	6228.29	-845.39	-1151.22	969.13	0.17	
6545.00	0.220	96.400	6322.29	-845.23	-1151.08	969.22	0.43	
6639.00	8.990	1.350	6415.91	-838.07	-1143.74	969.57	9.59	
6733.00	18.200	358.490	6507.18	-816.89	-1121.67	969.36	9.82	
6827.00	25.430	4.590	6594.40	-783.02	-1086.83	970.59	8.05	
6921.00	34.850	8.540	6675.60	-736.46	-1040.04	976.20	10.24	
7013.00	45.570	357.470	6745.85	-678.94	-980.99	978.67	13.97	
7107.00	57.800	358.170	6804.02	-608.88	-907.42	975.90	13.02	
7200.00	65.450	358.670	6848.18	-530.82	-825.69	973.66	8.24	
7296.00	71.410	359.640	6883.46	-445.29	-736.46	972.36	6.28	
7339.00†	73.929	359.487	6896.27	-405.86	-695.42	972.05	5.87	Planned TPZ @ 7334', 470' FSL, 2184' FWL
7387.00	76.740	359.320	6908.42	-361.31	-648.99	971.56	5.87	
7482.00	89.600	1.050	6919.70	-270.62	-554.87	971.89	13.66	LANDING POINT (615'FSL & 2184'FWL, SEC.10)
7576.00	90.490	2.530	6919.62	-179.39	-460.92	974.82	1.84	
7669.00	90.680	2.450	6918.67	-88.87	-368.01	978.86	0.22	
7762.00	90.710	1.060	6917.55	1.37	-275.06	981.71	1.49	
7856.00	90.090	1.710	6916.89	92.44	-181.09	983.98	0.96	
7950.00	90.220	3.080	6916.63	183.90	-87.18	987.91	1.46	
8043.00	90.060	1.040	6916.41	274.26	5.76	991.25	2.20	
8137.00	90.000	0.240	6916.36	365.02	99.75	992.30	0.85	
8231.00	90.090	0.650	6916.28	455.70	193.75	993.03	0.45	

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Operator	BAYSWATER E & P LLC	Slot	SLOT#04 ALBRIGHTON J-10HN (1170'FSL & 1212'FWL, SEC.10)
Area	COLORADO	Well	ALBRIGHTON J-10HN
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	ALBRIGHTON J-10HN AWB
Facility	SEC.10-T06N-R64W		

WELLPATH DATA (128 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS ["/100ft]	Comments
8324.00	90.090	0.450	6916.14	545.45	286.74	993.93	0.22	
8418.00	90.000	359.460	6916.06	635.91	380.74	993.85	1.06	
8514.00	90.030	0.480	6916.04	728.30	476.74	993.80	1.06	
8609.00	89.940	359.820	6916.06	819.81	571.74	994.05	0.70	
8704.00	89.820	359.020	6916.26	910.99	666.73	993.09	0.85	
8799.00	90.090	359.150	6916.34	1002.00	761.72	991.57	0.32	
8893.00	89.750	358.270	6916.47	1091.89	855.70	989.46	1.00	
8987.00	89.820	358.890	6916.82	1181.71	949.67	987.13	0.66	
9081.00	89.910	359.590	6917.04	1271.84	1043.66	985.88	0.75	
9175.00	90.090	359.740	6917.04	1362.17	1137.65	985.33	0.25	
9270.00	90.030	0.500	6916.94	1453.66	1232.65	985.53	0.80	
9363.00	90.060	1.120	6916.87	1543.53	1325.64	986.85	0.67	
9458.00	90.150	1.740	6916.70	1635.59	1420.61	989.22	0.66	
9553.00	90.000	4.060	6916.57	1728.21	1515.49	994.02	2.45	
9647.00	89.940	4.260	6916.62	1820.30	1609.24	1000.84	0.22	
9740.00	90.030	0.930	6916.65	1910.85	1702.13	1005.05	3.58	
9834.00	90.120	0.850	6916.52	2001.72	1796.12	1006.51	0.13	
9928.00	90.060	1.840	6916.37	2092.77	1890.09	1008.72	1.06	
10020.00	90.030	2.210	6916.30	2182.15	1982.03	1011.97	0.40	
10113.00	89.940	1.260	6916.33	2272.39	2074.99	1014.78	1.03	
10207.00	89.880	0.120	6916.47	2363.17	2168.98	1015.92	1.21	
10300.00	89.850	359.880	6916.69	2452.68	2261.98	1015.92	0.26	
10395.00	90.120	358.220	6916.72	2543.68	2356.96	1014.34	1.77	
10490.00	89.910	357.730	6916.69	2634.16	2451.90	1010.98	0.56	
10582.00	89.780	358.010	6916.94	2721.73	2543.84	1007.56	0.34	
10677.00	90.000	358.240	6917.13	2812.28	2638.79	1004.46	0.34	
10772.00	89.880	359.810	6917.22	2903.26	2733.77	1002.84	1.66	
10866.00	89.850	2.200	6917.45	2994.17	2827.75	1004.49	2.54	
10958.00	89.880	4.380	6917.66	3084.00	2919.59	1009.77	2.37	
11052.00	89.940	3.300	6917.81	3175.99	3013.38	1016.06	1.15	
11147.00	89.880	2.170	6917.96	3268.55	3108.27	1020.60	1.19	
11240.00	90.280	1.850	6917.83	3358.90	3201.21	1023.86	0.55	
11334.00	90.180	2.290	6917.45	3450.24	3295.15	1027.25	0.48	
11428.00	90.180	3.280	6917.16	3541.85	3389.04	1031.82	1.05	
11522.00	90.150	359.710	6916.89	3632.95	3482.99	1034.27	3.80	
11615.00	90.180	359.110	6916.62	3722.20	3575.99	1033.31	0.65	
11680.00	90.060	359.790	6916.48	3784.59	3640.98	1032.69	1.06	LAST BHI MWD SURVEY (494'FNL & 2200'FWL, SEC.10)
11704.00	90.060	359.790	6916.46	3807.67	3664.98	1032.60	0.00	PROJECTION TO BIT (470'FNL & 2200'FWL, SEC.10)

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HOLE & CASING SECTIONS - Ref Wellbore: ALBRIGHTON J-10HN AWB Ref Wellpath: ALBRIGHTON J-10HN AWP

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]
13.5in Open Hole	23.00	1560.00	1537.00	23.00	1544.17	0.00	0.00	-139.48	118.37
9.625in Casing Surface	23.00	1547.00	1524.00	23.00	1531.57	0.00	0.00	-136.88	116.56
8.75in Open Hole	1560.00	11704.00	10144.00	1544.17	6916.46	-139.48	118.37	3664.98	1032.60
5.5in Casing Production	23.00	11704.00	11681.00	23.00	6916.46	0.00	0.00	3664.98	1032.60

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.10-T06N-R64W	1.00	-0.40	-45.04	3266558.51	1425196.82	40°29'47.803"N	104°32'29.504"W	polygon
ALBRIGHTON J-10HN BHL REV-1 (470'FNL & 2200'FWL, SEC.10)	6907.00	3665.05	1032.23	3267596.05	1428873.57	40°30'24.023"N	104°32'15.558"W	point
ALBRIGHTON J-10HN BHL REV-2 (470'FNL & 2200'FWL, SEC.10)	6915.00	3665.07	1032.23	3267596.05	1428873.59	40°30'24.023"N	104°32'15.558"W	point
SEC.10-T06N-R64W HARDLINES (460' SETBACKS)	7001.00	-0.40	-45.04	3266558.51	1425196.82	40°29'47.803"N	104°32'29.504"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: ALBRIGHTON J-10HN AWB Ref Wellpath: ALBRIGHTON J-10HN AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
23.00	1507.00	Custom NaviTrak (Standard) (Rockies 0.03Gt model)	BHI MWD/NAVITRAK (STD) 13.5" HOLE <125-1507>	ALBRIGHTON J-10HN AWB
1507.00	11680.00	Custom NaviTrak (Short spacing) (AT Curve sf 0.01) (Rockies 0.03Gt model)	BHI MWD/NAVITRAK (AT-CURVE; SHORT SPACING) 8.75" <1609-11680>	ALBRIGHTON J-10HN AWB
11680.00	11704.00	Blind Drilling (std)	Projection to bit	ALBRIGHTON J-10HN AWB

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Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	ALBRIGHTON J-10HN AWB
Facility	SEC.10-T06N-R64W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
125.00	0.750	150.760	125.00	FIRST BHI MWD SURVEY
7339.00	73.929	359.487	6896.27	CROSSED 460' SETBACK (473'FSL & 2184'FWL, SEC.10)
7482.00	89.600	1.050	6919.70	LANDING POINT (615'FSL & 2184'FWL, SEC.10)
11680.00	90.060	359.790	6916.48	LAST BHI MWD SURVEY (494'FNL & 2200'FWL, SEC.10)
11704.00	90.060	359.790	6916.46	PROJECTION TO BIT (470'FNL & 2200'FWL, SEC.10)