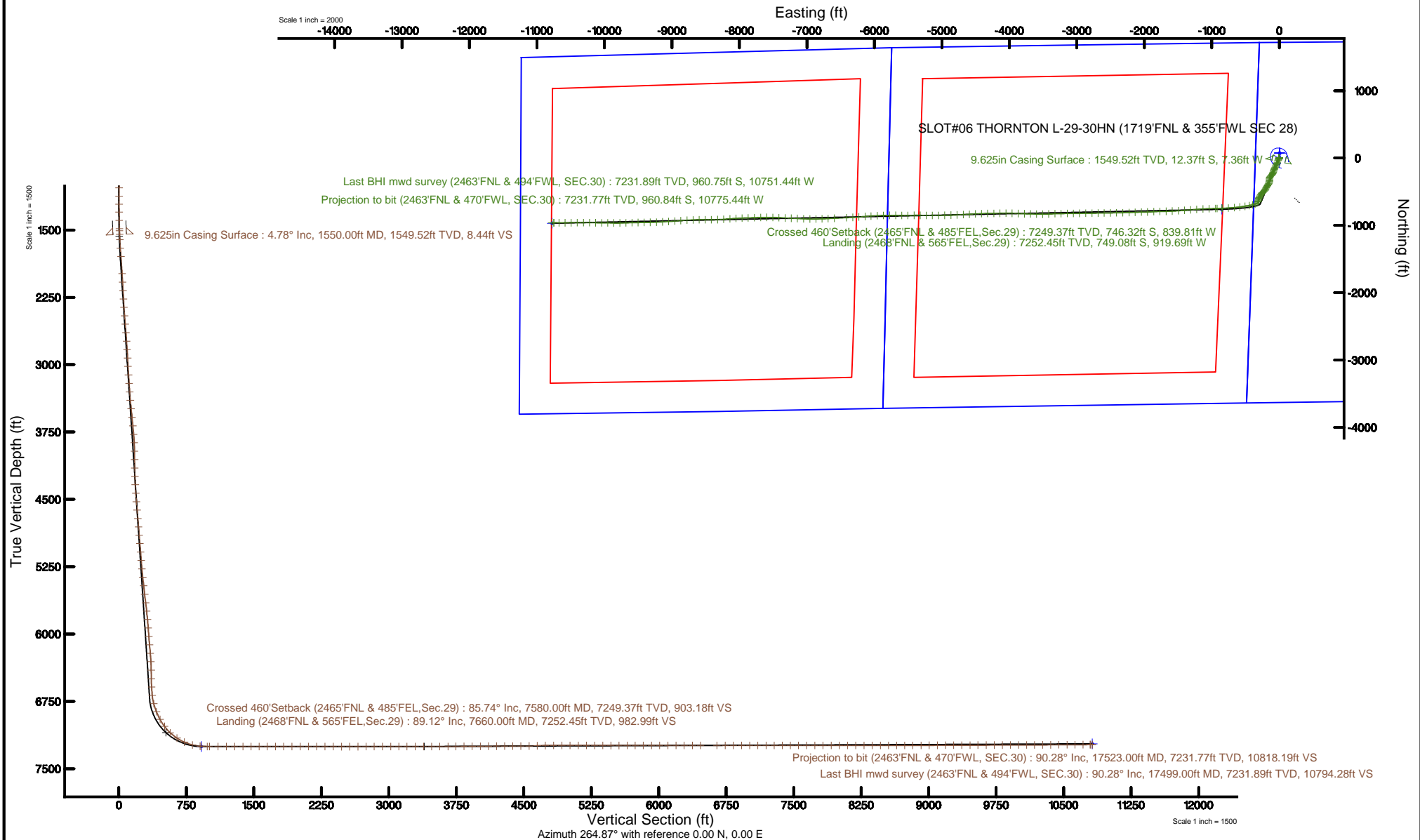


BAYSWATER E & P LLC

Location: COLORADO Slot: SLOT#06 THORNTON L-29-30HN (1719'FNL & 355'FWL SEC 28)
Field: WELD COUNTY (NAD83/TRUE NORTH) Well: THORNTON L-29-30HN
Facility: SEC.28-T07N-R66W Wellbore: THORNTON L-29-30HN PWB



Plot reference wellpath is THORNTON L-29-30HN REV-C.9 PWP	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to XTREME 18 (17) (RKB)	* = Wellpath was transformed from a different geodetic datum
Measured depths are referenced to XTREME 18 (17) (RKB)	North Reference: True north
XTREME 18 (17) (RKB) to Mean Sea Level: 4923 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#06 THORNTON L-29-30HN (1719'FNL & 355'FWL SEC 28)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cookdanni on 2017-01-17
	Database: WA_DEN_Denver_Defn



Actual Wellpath Report

THORNTON L-29-30HN AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BAYSWATER E & P LLC	Slot	SLOT#06 THORNTON L-29-30HN (1719'FNL & 355'FWL SEC 28)
Area	COLORADO	Well	THORNTON L-29-30HN
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	THORNTON L-29-30HN AWB
Facility	SEC.28-T07N-R66W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.0
North Reference	True	User	Cookdanm
Scale	0.999970	Report Generated	1/17/17 at 2:36:09 PM
Convergence at slot	0.46° East	Database/Source file	WA_DEN_Denver_Defn/THORNTON_L-29-30HN_AWP.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-74.99	-2.78	3196879.68	1443416.05	40°32'54.305"N	104°47'29.540"W
Facility Reference Pt			3196881.86	1443491.05	40°32'55.046"N	104°47'29.504"W
Field Reference Pt			3174587.00	1430859.75	40°30'51.890"N	104°52'19.470"W

WELLPATH DATUM

Calculation method	Minimum curvature	XTREME 18 (17') (RKB) to Facility Vertical Datum	4923.00ft
Horizontal Reference Pt	Slot	XTREME 18 (17') (RKB) to Mean Sea Level	4923.00ft
Vertical Reference Pt	XTREME 18 (17') (RKB)	XTREME 18 (17') (RKB) to Mud Line at Slot (SLOT#06 THORNTON L-29-30HN (1719'FNL & 355'FWL SEC 28))	4923.00ft
MD Reference Pt	XTREME 18 (17') (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	264.87°

Actual Wellpath Report

THORNTON L-29-30HN AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BAYSWATER E & P LLC	Slot	SLOT#06 THORNTON L-29-30HN (1719'FNL & 355'FWL SEC 28)
Area	COLORADO	Well	THORNTON L-29-30HN
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	THORNTON L-29-30HN AWP
Facility	SEC.28-T07N-R66W		

WELLPATH DATA (194 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	3.110	0.00	0.00	0.00	0.00	0.00	
17.00	0.000	3.110	17.00	0.00	0.00	0.00	0.00	
146.00	0.890	3.110	145.99	-0.14	1.00	0.05	0.69	
176.00	1.020	1.330	175.99	-0.21	1.50	0.07	0.44	
238.00	0.310	228.230	237.99	-0.13	1.94	-0.04	2.02	
300.00	0.430	228.910	299.99	0.19	1.68	-0.34	0.19	
392.00	0.830	240.810	391.98	1.08	1.12	-1.18	0.46	
484.00	0.370	330.210	483.98	1.81	1.06	-1.91	0.98	
574.00	0.640	316.900	573.97	2.24	1.68	-2.40	0.33	
666.00	0.520	347.460	665.97	2.61	2.46	-2.84	0.36	
758.00	0.530	328.360	757.96	2.85	3.23	-3.15	0.19	
850.00	0.680	339.490	849.96	3.19	4.10	-3.57	0.21	
940.00	0.420	124.110	939.96	3.07	4.42	-3.48	1.17	
1032.00	0.460	136.400	1031.96	2.58	3.96	-2.95	0.11	
1123.00	0.510	179.210	1122.95	2.39	3.29	-2.69	0.39	
1213.00	0.530	184.090	1212.95	2.48	2.48	-2.72	0.05	
1302.00	2.000	185.790	1301.92	2.84	0.52	-2.90	1.65	
1394.00	2.780	196.370	1393.84	3.97	-3.22	-3.69	0.97	
1485.00	3.730	204.750	1484.70	6.25	-8.02	-5.55	1.16	
1508.00	3.900	202.440	1507.65	6.98	-9.43	-6.17	1.00	
1610.00	6.050	201.160	1609.26	10.97	-17.65	-9.43	2.11	
1705.00	7.830	206.480	1703.56	16.58	-28.11	-14.12	1.99	
1799.00	7.730	205.790	1796.69	23.18	-39.53	-19.73	0.15	
1991.00	7.750	201.530	1986.94	35.63	-63.20	-30.10	0.30	
2086.00	7.700	197.570	2081.08	40.96	-75.23	-34.37	0.56	
2181.00	7.850	199.210	2175.21	46.09	-87.42	-38.43	0.28	
2275.00	7.800	199.640	2268.33	51.41	-99.49	-42.68	0.08	
2370.00	7.780	201.260	2362.46	56.97	-111.55	-47.18	0.23	
2465.00	8.000	205.920	2456.56	63.23	-123.49	-52.40	0.71	
2559.00	7.980	212.570	2549.65	70.60	-134.87	-58.77	0.98	

Actual Wellpath Report

THORNTON L-29-30HN AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BAYSWATER E & P LLC	Slot	SLOT#06 THORNTON L-29-30HN (1719'FNL & 355'FWL SEC 28)
Area	COLORADO	Well	THORNTON L-29-30HN
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	THORNTON L-29-30HN AWP
Facility	SEC.28-T07N-R66W		

WELLPATH DATA (194 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
2654.00	7.860	212.130	2643.74	78.56	-145.93	-65.78	0.14	
2749.00	7.880	201.720	2737.85	85.44	-157.48	-71.64	1.50	
2844.00	8.170	204.010	2831.92	91.67	-169.70	-76.80	0.45	
2939.00	8.080	196.790	2925.97	97.45	-182.26	-81.47	1.08	
3034.00	8.160	192.600	3020.02	101.99	-195.23	-84.87	0.63	
3129.00	8.230	202.370	3114.05	107.19	-208.10	-88.93	1.47	
3224.00	8.000	205.030	3208.10	113.65	-220.38	-94.32	0.46	
3320.00	7.490	205.070	3303.23	120.15	-232.10	-99.79	0.53	
3415.00	8.000	213.840	3397.36	127.42	-243.20	-106.10	1.35	
3511.00	7.970	220.600	3492.43	136.39	-253.80	-114.15	0.98	
3607.00	7.970	223.850	3587.51	146.18	-263.65	-123.09	0.47	
3703.00	8.120	218.240	3682.56	155.85	-273.78	-131.90	0.83	
3797.00	8.010	212.350	3775.64	164.40	-284.52	-139.51	0.89	
3892.00	8.040	194.860	3869.72	170.70	-296.54	-144.76	2.56	
3987.00	8.130	180.200	3963.79	173.59	-309.68	-146.49	2.17	
4082.00	7.940	177.940	4057.85	174.57	-322.95	-146.28	0.39	
4176.00	7.990	181.110	4150.95	175.63	-335.97	-146.17	0.47	
4271.00	7.860	190.530	4245.04	178.10	-348.96	-147.48	1.37	
4365.00	8.000	197.970	4338.15	182.40	-361.50	-150.68	1.10	
4460.00	8.290	203.150	4432.19	188.24	-374.09	-155.41	0.83	
4555.00	8.020	207.430	4526.23	195.05	-386.27	-161.15	0.70	
4650.00	7.890	212.640	4620.32	202.61	-397.64	-167.72	0.77	
4745.00	7.910	214.570	4714.42	210.78	-408.51	-174.95	0.28	
4838.00	8.120	208.820	4806.51	218.54	-419.54	-181.75	0.89	
4933.00	8.290	207.570	4900.54	225.98	-431.49	-188.15	0.26	
5027.00	8.510	208.570	4993.53	233.50	-443.60	-194.61	0.28	
5122.00	8.170	208.230	5087.52	241.12	-455.72	-201.17	0.36	
5216.00	8.160	207.420	5180.57	248.38	-467.53	-207.40	0.12	
5311.00	8.310	212.750	5274.59	256.22	-479.29	-214.22	0.82	
5406.00	8.200	221.820	5368.61	265.39	-490.11	-222.45	1.37	

Actual Wellpath Report

THORNTON L-29-30HN AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BAYSWATER E & P LLC	Slot	SLOT#06 THORNTON L-29-30HN (1719'FNL & 355'FWL SEC 28)
Area	COLORADO	Well	THORNTON L-29-30HN
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	THORNTON L-29-30HN AWB
Facility	SEC.28-T07N-R66W		

WELLPATH DATA (194 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5501.00	8.230	225.910	5462.64	275.63	-499.89	-231.85	0.62	
5598.00	8.150	238.400	5558.66	287.18	-508.33	-242.69	1.83	
5692.00	8.570	229.430	5651.66	298.85	-516.37	-253.69	1.46	
5787.00	8.350	213.380	5745.64	308.91	-526.74	-262.86	2.49	
5881.00	8.270	221.630	5838.66	318.09	-537.49	-271.11	1.27	
5976.00	8.170	206.670	5932.69	326.63	-548.63	-278.68	2.25	
6071.00	7.980	202.800	6026.75	333.27	-560.74	-284.27	0.61	
6165.00	8.350	214.400	6119.80	340.67	-572.39	-290.65	1.79	
6261.00	8.270	211.520	6214.80	349.23	-584.03	-298.20	0.44	
6356.00	8.330	198.800	6308.81	356.10	-596.37	-303.99	1.93	
6451.00	8.530	179.090	6402.80	359.41	-609.93	-306.09	3.03	
6546.00	8.010	180.680	6496.82	360.60	-623.59	-306.06	0.60	
6640.00	8.030	198.660	6589.91	363.91	-636.36	-308.24	2.66	
6735.00	9.230	212.260	6683.84	371.22	-649.09	-314.43	2.48	
6830.00	18.280	226.180	6776.05	387.51	-665.89	-329.28	10.08	
6925.00	23.190	247.290	6864.99	417.03	-683.46	-357.34	9.34	
7020.00	28.780	256.790	6950.39	457.55	-695.93	-396.91	7.32	
7114.00	37.040	259.420	7029.24	508.23	-706.31	-446.86	8.92	
7209.00	46.660	260.530	7099.92	571.31	-717.28	-509.21	10.16	
7305.00	56.890	263.540	7159.25	646.52	-727.57	-583.80	10.94	
7399.00	65.680	265.880	7204.37	728.88	-735.10	-665.81	9.60	
7494.00	75.850	265.990	7235.63	818.44	-741.44	-755.16	10.71	
7580.00†	85.740	267.400	7249.37	903.18	-746.32	-839.81	11.61	Crossed 460'Setback (2465'FNL & 485'FEL,Sec.29)
7590.00	86.890	267.560	7250.01	913.15	-746.75	-849.77	11.61	
7660.00†	89.115	268.629	7252.45	982.99	-749.08	-919.69	3.53	Landing (2468'FNL & 565'FEL,Sec.29)
7685.00	89.910	269.010	7252.67	1007.93	-749.60	-944.68	3.53	
7780.00	89.940	268.030	7252.79	1102.74	-752.05	-1039.65	1.03	
7872.00	90.120	266.810	7252.74	1194.64	-756.19	-1131.55	1.34	
7964.00	90.090	266.130	7252.57	1286.61	-761.85	-1223.38	0.74	
8056.00	89.970	264.890	7252.53	1378.60	-769.06	-1315.09	1.35	

Actual Wellpath Report

THORNTON L-29-30HN AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BAYSWATER E & P LLC	Slot	SLOT#06 THORNTON L-29-30HN (1719'FNL & 355'FWL SEC 28)
Area	COLORADO	Well	THORNTON L-29-30HN
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	THORNTON L-29-30HN AWB
Facility	SEC.28-T07N-R66W		

WELLPATH DATA (194 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
8146.00	90.000	265.540	7252.55	1468.60	-776.56	-1404.78	0.72	
8236.00	89.780	266.860	7252.72	1558.57	-782.53	-1494.58	1.49	
8327.00	90.030	266.800	7252.87	1649.52	-787.56	-1585.44	0.28	
8419.00	89.910	269.090	7252.92	1741.38	-790.86	-1677.38	2.49	
8510.00	90.000	268.340	7252.99	1832.17	-792.90	-1768.35	0.83	
8602.00	89.970	266.990	7253.02	1924.06	-796.65	-1860.27	1.47	
8694.00	89.970	267.640	7253.07	2015.98	-800.96	-1952.17	0.71	
8786.00	89.910	269.260	7253.16	2107.79	-803.45	-2044.13	1.76	
8877.00	90.000	268.770	7253.23	2198.56	-805.01	-2135.12	0.55	
8969.00	89.910	267.500	7253.31	2290.40	-808.01	-2227.07	1.38	
9061.00	89.480	268.480	7253.80	2382.26	-811.23	-2319.01	1.16	
9153.00	89.970	268.940	7254.24	2474.06	-813.30	-2410.99	0.73	
9245.00	90.000	269.820	7254.26	2565.77	-814.30	-2502.98	0.96	
9336.00	89.970	268.690	7254.28	2656.50	-815.48	-2593.97	1.24	
9426.00	90.120	269.290	7254.21	2746.27	-817.07	-2683.96	0.69	
9518.00	90.090	269.060	7254.05	2838.01	-818.39	-2775.95	0.25	
9610.00	90.030	269.350	7253.95	2929.75	-819.67	-2867.94	0.32	
9702.00	90.090	269.380	7253.85	3021.46	-820.69	-2959.93	0.07	
9792.00	89.970	269.350	7253.81	3111.19	-821.69	-3049.93	0.14	
9883.00	90.030	268.850	7253.81	3201.94	-823.12	-3140.91	0.55	
9975.00	90.220	269.270	7253.60	3293.69	-824.62	-3232.90	0.50	
10067.00	90.030	268.030	7253.40	3385.49	-826.79	-3324.87	1.36	
10159.00	90.000	266.700	7253.38	3477.40	-831.02	-3416.77	1.45	
10249.00	90.220	269.940	7253.21	3567.22	-833.66	-3506.72	3.61	
10340.00	90.460	272.300	7252.67	3657.68	-831.88	-3597.70	2.61	
10430.00	90.150	271.080	7252.19	3747.04	-829.23	-3687.66	1.40	
10520.00	90.590	271.710	7251.61	3836.45	-827.04	-3777.63	0.85	
10611.00	90.340	272.640	7250.87	3926.71	-823.58	-3868.56	1.06	
10703.00	90.400	271.240	7250.27	4018.00	-820.47	-3960.50	1.52	
10792.00	90.250	269.690	7249.77	4106.58	-819.75	-4049.49	1.75	

Actual Wellpath Report

THORNTON L-29-30HN AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BAYSWATER E & P LLC	Slot	SLOT#06 THORNTON L-29-30HN (1719'FNL & 355'FWL SEC 28)
Area	COLORADO	Well	THORNTON L-29-30HN
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	THORNTON L-29-30HN AWB
Facility	SEC.28-T07N-R66W		

WELLPATH DATA (194 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
10883.00	90.180	269.230	7249.43	4197.28	-820.60	-4140.49	0.51	
10973.00	90.150	269.710	7249.17	4286.99	-821.44	-4230.48	0.53	
11064.00	90.370	268.750	7248.76	4377.73	-822.66	-4321.47	1.08	
11154.00	90.250	267.510	7248.27	4467.58	-825.60	-4411.42	1.38	
11246.00	90.920	267.020	7247.33	4559.49	-829.99	-4503.31	0.90	
11337.00	92.590	266.860	7244.54	4650.39	-834.84	-4594.14	1.84	
11426.00	90.920	267.140	7241.82	4739.28	-839.50	-4682.97	1.90	
11518.00	89.780	267.280	7241.25	4831.20	-843.97	-4774.86	1.25	
11610.00	89.970	268.080	7241.46	4923.09	-847.70	-4866.78	0.89	
11702.00	89.970	268.720	7241.50	5014.91	-850.27	-4958.74	0.70	
11793.00	90.250	269.140	7241.33	5105.68	-851.97	-5049.73	0.55	
11884.00	90.370	270.240	7240.84	5196.36	-852.46	-5140.72	1.22	
11976.00	89.720	270.830	7240.76	5287.91	-851.60	-5232.72	0.95	
12066.00	89.540	270.750	7241.35	5377.43	-850.36	-5322.71	0.22	
12156.00	89.820	268.740	7241.85	5467.10	-850.76	-5412.70	2.25	
12248.00	90.250	269.880	7241.79	5558.82	-851.87	-5504.69	1.32	
12339.00	90.280	270.180	7241.37	5649.45	-851.82	-5595.69	0.33	
12429.00	90.150	270.700	7241.03	5739.02	-851.13	-5685.69	0.60	
12518.00	90.030	269.380	7240.89	5827.66	-851.07	-5774.69	1.49	
12610.00	89.910	268.270	7240.94	5919.44	-852.95	-5866.67	1.21	
12701.00	90.030	267.190	7240.99	6010.32	-856.56	-5957.59	1.19	
12793.00	90.150	266.600	7240.85	6102.26	-861.54	-6049.46	0.65	
12882.00	90.150	265.870	7240.61	6191.24	-867.38	-6138.26	0.82	
12974.00	89.750	265.390	7240.69	6283.23	-874.39	-6230.00	0.68	
13064.00	90.120	266.940	7240.79	6373.20	-880.41	-6319.79	1.77	
13156.00	89.910	267.280	7240.77	6465.13	-885.05	-6411.67	0.43	
13337.00	89.970	267.240	7240.96	6645.98	-893.71	-6592.47	0.04	
13430.00	89.780	266.970	7241.16	6738.90	-898.40	-6685.35	0.36	
13520.00	89.940	267.760	7241.38	6828.82	-902.54	-6775.25	0.90	
13612.00	90.030	268.540	7241.41	6920.67	-905.51	-6867.20	0.85	

Actual Wellpath Report

THORNTON L-29-30HN AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BAYSWATER E & P LLC	Slot	SLOT#06 THORNTON L-29-30HN (1719'FNL & 355'FWL SEC 28)
Area	COLORADO	Well	THORNTON L-29-30HN
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	THORNTON L-29-30HN AWB
Facility	SEC.28-T07N-R66W		

WELLPATH DATA (194 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
13702.00	90.090	271.430	7241.31	7010.30	-905.53	-6957.19	3.21	
13794.00	90.090	273.280	7241.17	7101.51	-901.75	-7049.11	2.01	
13886.00	90.150	272.070	7240.98	7192.66	-897.46	-7141.01	1.32	
13977.00	90.120	271.660	7240.76	7282.98	-894.50	-7231.96	0.45	
14067.00	90.090	273.500	7240.60	7372.16	-890.45	-7321.87	2.04	
14159.00	89.820	273.110	7240.67	7463.16	-885.14	-7413.71	0.52	
14249.00	90.180	271.120	7240.67	7552.44	-881.82	-7503.65	2.25	
14339.00	89.910	270.200	7240.60	7641.98	-880.79	-7593.64	1.07	
14431.00	90.000	268.020	7240.67	7733.72	-882.21	-7685.62	2.37	
14523.00	90.000	267.680	7240.67	7825.60	-885.67	-7777.56	0.37	
14615.00	90.090	268.600	7240.60	7917.45	-888.65	-7869.51	1.00	
14705.00	90.030	267.750	7240.50	8007.30	-891.52	-7959.46	0.95	
14796.00	89.940	266.050	7240.53	8098.24	-896.44	-8050.33	1.87	
14888.00	89.780	265.300	7240.75	8190.23	-903.38	-8142.06	0.83	
14980.00	89.880	266.350	7241.02	8282.21	-910.07	-8233.82	1.15	
15070.00	89.880	268.590	7241.21	8372.11	-914.05	-8323.72	2.49	
15162.00	89.910	269.390	7241.38	8463.88	-915.67	-8415.71	0.87	
15252.00	89.910	269.860	7241.52	8553.56	-916.26	-8505.71	0.52	
15342.00	90.060	269.450	7241.55	8643.25	-916.80	-8595.70	0.49	
15433.00	90.280	267.780	7241.28	8734.05	-919.00	-8686.67	1.85	
15523.00	90.370	266.590	7240.77	8823.98	-923.42	-8776.56	1.33	
15615.00	90.250	266.190	7240.27	8915.94	-929.21	-8868.38	0.45	
15704.00	90.250	265.950	7239.88	9004.92	-935.31	-8957.17	0.27	
15796.00	90.490	266.450	7239.29	9096.89	-941.41	-9048.96	0.60	
15886.00	90.340	266.520	7238.63	9186.86	-946.93	-9138.79	0.18	
15976.00	90.250	267.670	7238.17	9276.79	-951.49	-9228.67	1.28	
16068.00	90.180	268.860	7237.83	9368.62	-954.27	-9320.63	1.30	
16160.00	90.120	268.830	7237.58	9460.40	-956.13	-9412.61	0.07	
16248.00	90.180	268.930	7237.35	9548.18	-957.85	-9500.59	0.13	
16339.00	90.150	268.630	7237.09	9638.97	-959.78	-9591.57	0.33	

Actual Wellpath Report

THORNTON L-29-30HN AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BAYSWATER E & P LLC	Slot	SLOT#06 THORNTON L-29-30HN (1719'FNL & 355'FWL SEC 28)
Area	COLORADO	Well	THORNTON L-29-30HN
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	THORNTON L-29-30HN AWB
Facility	SEC.28-T07N-R66W		

WELLPATH DATA (194 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
16430.00	90.090	268.400	7236.90	9729.79	-962.14	-9682.54	0.26	
16519.00	90.150	269.120	7236.72	9818.58	-964.07	-9771.52	0.81	
16609.00	90.220	270.760	7236.42	9908.23	-964.16	-9861.52	1.82	
16700.00	90.250	270.610	7236.05	9998.76	-963.08	-9952.51	0.17	
16790.00	90.220	270.870	7235.68	10088.28	-961.91	-10042.50	0.29	
16879.00	90.310	271.010	7235.27	10176.78	-960.45	-10131.49	0.19	
16969.00	90.220	270.770	7234.85	10266.29	-959.05	-10221.48	0.28	
17059.00	90.370	270.260	7234.39	10355.85	-958.25	-10311.47	0.59	
17150.00	90.370	269.000	7233.80	10446.53	-958.83	-10402.46	1.38	
17242.00	90.310	268.980	7233.26	10538.29	-960.46	-10494.45	0.07	
17330.00	90.310	270.060	7232.78	10626.00	-961.19	-10582.44	1.23	
17420.00	90.310	270.360	7232.29	10715.61	-960.86	-10672.44	0.33	
17499.00	90.280	269.800	7231.89	10794.28	-960.75	-10751.44	0.71	Last BHI mwd survey (2463'FNL & 494'FWL, SEC.30)
17523.00	90.280	269.800	7231.77	10818.19	-960.84	-10775.44	0.00	Projection to bit (2463'FNL & 470'FWL, SEC.30)

HOLE & CASING SECTIONS - Ref Wellbore: THORNTON L-29-30HN AWB Ref Wellpath: THORNTON L-29-30HN 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	15.00	1560.00	1545.00	15.00	1559.49	0.00	0.00	-13.17	-7.68
9.625in Casing Surface	17.00	1550.00	1533.00	17.00	1549.52	0.00	0.00	-12.37	-7.36
8.5in Open Hole	1560.00	17523.00	15963.00	1559.49	7231.77	-13.17	-7.68	-960.84	-10775.44

Actual Wellpath Report

THORNTON L-29-30HN AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BAYSWATER E & P LLC	Slot	SLOT#06 THORNTON L-29-30HN (1719'FNL & 355'FWL SEC 28)
Area	COLORADO	Well	THORNTON L-29-30HN
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	THORNTON L-29-30HN AWB
Facility	SEC.28-T07N-R66W		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.28-T07N-R66W	-7.00	74.99	2.78	3196881.86	1443491.05	40°32'55.046"N	104°47'29.504"W	polygon
SEC.29-T07N-R66W	-7.00	74.99	2.78	3196881.86	1443491.05	40°32'55.046"N	104°47'29.504"W	polygon
SEC.30-T07N-R66W	-7.00	74.99	2.78	3196881.86	1443491.05	40°32'55.046"N	104°47'29.504"W	polygon
THORNTON L-29-30HN BHL REV-1 ON PLAT (2470'FNL & 470'FWL SEC.30)	7223.00	-967.49	-10775.56	3186112.54	1442362.53	40°32'44.722"N	104°49'49.120"W	point
THORNTON L-29-30HN LP REV-1 (2470'FNL & 470'FWL SEC.29)	7253.00	-761.07	-852.68	3196033.13	1442648.21	40°32'46.784"N	104°47'40.585"W	point
SEC.29-T07N-R66W 460' SETBACKS	7338.00	74.99	2.78	3196881.86	1443491.05	40°32'55.046"N	104°47'29.504"W	polygon
SEC.30-T07N-R66W 460' SETBACKS	7338.00	74.99	2.78	3196881.86	1443491.05	40°32'55.046"N	104°47'29.504"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: THORNTON L-29-30HN AWB					Ref Wellpath: THORNTON L-29-30HN AWP	
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment		Wellbore	
17.00	1508.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)	BHI MWD/NAVITRAK (STD) 13.5" HOLE <146-1508>		THORNTON L-29-30HN AWB	
1508.00	17499.00	Custom BHI AutoTrak Curve (Short) (Rockies 0.03Gt model)	BHI ATC MWD SHORT, ROCKIES GT <1610-17499>		THORNTON L-29-30HN AWB	
17499.00	17523.00	Blind Drilling (std)	Projection to bit		THORNTON L-29-30HN AWB	

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THORNTON L-29-30HN AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BAYSWATER E & P LLC	Slot	SLOT#06 THORNTON L-29-30HN (1719'FNL & 355'FWL SEC 28)
Area	COLORADO	Well	THORNTON L-29-30HN
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	THORNTON L-29-30HN AWB
Facility	SEC.28-T07N-R66W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
7580.00	85.740	267.400	7249.37	Crossed 460'Setback (2465'FNL & 485'FEL,Sec.29)
7660.00	89.115	268.629	7252.45	Landing (2468'FNL & 565'FEL,Sec.29)
17499.00	90.280	269.800	7231.89	Last BHI mwd survey (2463'FNL & 494'FWL, SEC.30)
17523.00	90.280	269.800	7231.77	Projection to bit (2463'FNL & 470'FWL, SEC.30)