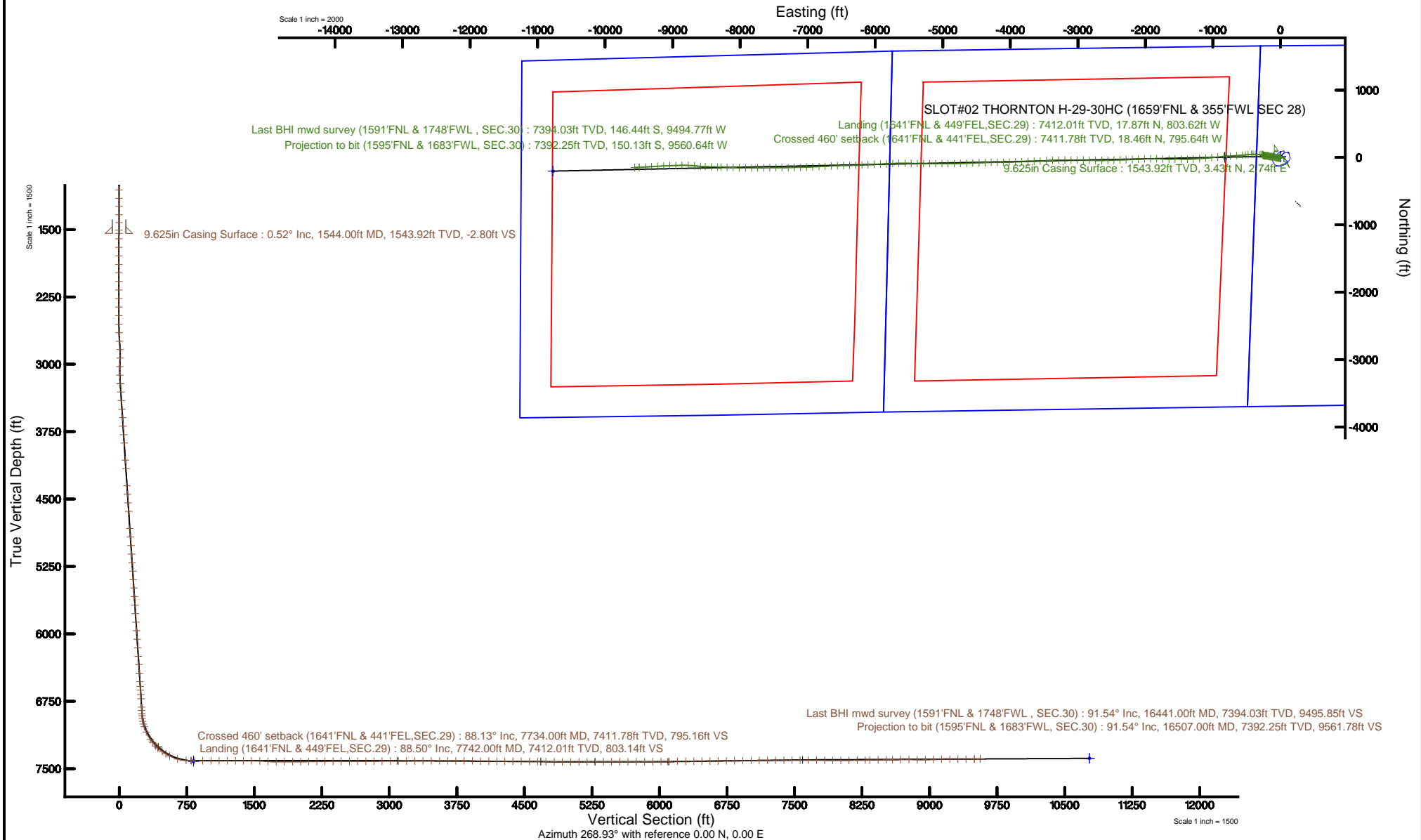


BAYSWATER E & P LLC

Location: COLORADO Slot: SLOT#02 THORNTON H-29-30HC (1659'FNL & 355'FWL SEC 28)
Field: WELD COUNTY (NAD83/TRUE NORTH) Well: THORNTON H-29-30HC
Facility: SEC.28-T07N-R66W Wellbore: THORNTON H-29-30HC PWB



Plot reference wellpath is THORNTON H-29-30HC REV-E.0 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#02 THORNTON H-29-30HC (1659'FNL & 355'FWL SEC 28)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cookdann on 2017-01-17
	Database: WA_DEN_Denver_Defn



Actual Wellpath Report

THORNTON H-29-30HC AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BAYSWATER E & P LLC	Slot	SLOT#02 THORNTON H-29-30HC (1659'FNL & 355'FWL SEC 28)
Area	COLORADO	Well	THORNTON H-29-30HC
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	THORNTON H-29-30HC 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 2:31:20 PM
Convergence at slot	0.46° East	Database/Source file	WA_DEN_Denver_Defn/THORNTON_H-29-30HC_AWP.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-14.88	-0.62	3196881.36	1443476.17	40°32'54.899"N	104°47'29.512"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#02 THORNTON H-29-30HC (1659'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	268.93°

Actual Wellpath Report

THORNTON H-29-30HC AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BAYSWATER E & P LLC	Slot	SLOT#02 THORNTON H-29-30HC (1659'FNL & 355'FWL SEC 28)
Area	COLORADO	Well	THORNTON H-29-30HC
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	THORNTON H-29-30HC AWB
Facility	SEC.28-T07N-R66W		

WELLPATH DATA (190 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	96.160	0.00	0.00	0.00	0.00	0.00	
17.00	0.000	96.160	17.00	0.00	0.00	0.00	0.00	
145.00	0.370	96.160	145.00	-0.41	-0.04	0.41	0.29	
236.00	0.290	63.300	236.00	-0.91	0.03	0.91	0.22	
329.00	0.680	95.960	328.99	-1.67	0.08	1.67	0.50	
421.00	1.100	77.170	420.98	-3.08	0.22	3.07	0.55	
513.00	0.400	37.510	512.98	-4.14	0.67	4.13	0.90	
605.00	0.450	35.170	604.97	-4.55	1.22	4.53	0.06	
696.00	0.090	64.890	695.97	-4.83	1.54	4.80	0.41	
788.00	0.480	229.780	787.97	-4.60	1.32	4.57	0.62	
879.00	0.630	221.430	878.97	-3.96	0.70	3.95	0.19	
971.00	0.820	244.230	970.96	-3.02	0.03	3.02	0.37	
1062.00	0.970	276.510	1061.95	-1.67	-0.16	1.67	0.57	
1154.00	0.550	342.370	1153.94	-0.77	0.35	0.77	0.98	
1244.00	0.880	6.490	1243.93	-0.74	1.45	0.71	0.49	
1335.00	0.480	56.480	1334.93	-1.15	2.35	1.11	0.75	
1424.00	0.520	63.610	1423.93	-1.83	2.74	1.78	0.08	
1508.00	0.620	49.360	1507.92	-2.53	3.20	2.47	0.21	
1604.00	0.360	50.680	1603.92	-3.16	3.73	3.10	0.27	
1699.00	0.000	98.460	1698.92	-3.40	3.92	3.33	0.38	
1793.00	0.090	66.460	1792.92	-3.47	3.95	3.39	0.10	
1889.00	0.040	6.340	1888.92	-3.54	4.01	3.47	0.08	
1984.00	0.190	47.010	1983.92	-3.66	4.15	3.59	0.17	
2079.00	0.110	148.570	2078.92	-3.83	4.18	3.75	0.25	
2174.00	0.230	318.800	2173.92	-3.75	4.25	3.67	0.36	
2270.00	0.430	62.100	2269.92	-3.95	4.56	3.86	0.55	
2365.00	0.170	331.210	2364.91	-4.20	4.85	4.11	0.49	
2459.00	0.160	234.380	2458.91	-4.03	4.90	3.94	0.26	
2554.00	1.420	333.970	2553.90	-3.42	5.88	3.31	1.53	
2648.00	3.430	328.960	2647.82	-1.52	9.33	1.35	2.15	

Actual Wellpath Report

THORNTON H-29-30HC AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BAYSWATER E & P LLC	Slot	SLOT#02 THORNTON H-29-30HC (1659'FNL & 355'FWL SEC 28)
Area	COLORADO	Well	THORNTON H-29-30HC
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	THORNTON H-29-30HC AWB
Facility	SEC.28-T07N-R66W		

WELLPATH DATA (190 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
2744.00	4.610	288.720	2743.60	3.54	13.03	-3.79	3.10	
2838.00	4.450	241.920	2837.33	10.35	12.53	-10.58	3.83	
2932.00	5.240	134.820	2931.14	10.61	7.78	-10.76	8.30	
3028.00	3.340	146.460	3026.87	6.06	2.36	-6.10	2.17	
3122.00	3.450	227.490	3120.75	6.71	-1.84	-6.67	4.69	
3218.00	3.820	255.020	3216.56	11.98	-4.62	-11.89	1.84	
3312.00	3.900	253.440	3310.35	18.10	-6.34	-17.98	0.14	
3407.00	4.040	265.370	3405.12	24.55	-7.53	-24.41	0.88	
3501.00	3.940	274.060	3498.90	31.07	-7.57	-30.94	0.65	
3596.00	3.930	271.170	3593.67	37.58	-7.27	-37.45	0.21	
3691.00	4.020	285.310	3688.45	44.02	-6.32	-43.91	1.03	
3786.00	3.320	289.990	3783.25	49.79	-4.50	-49.71	0.80	
3881.00	3.630	288.730	3878.08	55.18	-2.60	-55.14	0.34	
4071.00	4.240	282.910	4067.63	67.66	0.90	-67.69	0.38	
4166.00	3.880	273.390	4162.39	74.27	1.88	-74.32	0.80	
4356.00	4.230	306.680	4351.94	86.22	6.45	-86.36	1.23	
4452.00	4.070	297.160	4447.69	92.02	10.12	-92.23	0.74	
4547.00	4.010	279.970	4542.46	98.25	12.23	-98.50	1.27	
4642.00	4.010	270.960	4637.23	104.83	12.86	-105.09	0.66	
4833.00	3.890	263.620	4827.77	117.96	12.25	-118.21	0.27	
4928.00	3.860	263.870	4922.56	124.35	11.55	-124.59	0.04	
5022.00	3.880	271.440	5016.34	130.68	11.30	-130.91	0.54	
5118.00	4.020	280.770	5112.12	137.22	12.01	-137.47	0.68	
5213.00	3.830	278.900	5206.89	143.60	13.12	-143.87	0.24	
5308.00	3.950	277.670	5301.67	149.96	14.05	-150.25	0.15	
5403.00	3.960	274.340	5396.45	156.46	14.73	-156.76	0.24	
5498.00	3.650	272.440	5491.24	162.74	15.11	-163.06	0.35	
5592.00	3.680	291.760	5585.05	168.51	16.35	-168.85	1.31	
5688.00	3.560	292.180	5680.86	174.09	18.62	-174.47	0.13	
5783.00	3.640	291.360	5775.67	179.59	20.83	-180.01	0.10	

Actual Wellpath Report

THORNTON H-29-30HC AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BAYSWATER E & P LLC	Slot	SLOT#02 THORNTON H-29-30HC (1659'FNL & 355'FWL SEC 28)
Area	COLORADO	Well	THORNTON H-29-30HC
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	THORNTON H-29-30HC AWP
Facility	SEC.28-T07N-R66W		

WELLPATH DATA (190 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5878.00	3.970	281.950	5870.46	185.58	22.61	-186.03	0.74	
5973.00	3.870	278.770	5965.24	191.94	23.78	-192.42	0.25	
6068.00	3.950	274.680	6060.02	198.36	24.54	-198.85	0.31	
6163.00	3.940	268.430	6154.79	204.87	24.72	-205.37	0.45	
6258.00	3.790	274.780	6249.58	211.26	24.89	-211.77	0.48	
6352.00	3.770	272.070	6343.37	217.44	25.26	-217.95	0.19	
6447.00	3.730	268.110	6438.17	223.65	25.27	-224.16	0.28	
6542.00	3.820	276.860	6532.97	229.87	25.55	-230.39	0.61	
6594.00	3.650	281.260	6584.86	233.20	26.08	-233.73	0.64	
6636.00	3.770	285.280	6626.77	235.83	26.70	-236.38	0.68	
6686.00	3.780	281.430	6676.66	239.02	27.46	-239.58	0.51	
6732.00	3.810	274.920	6722.56	242.02	27.89	-242.59	0.94	
6826.00	3.270	278.490	6816.38	247.77	28.56	-248.35	0.62	
6862.00	3.010	303.860	6852.33	249.56	29.23	-250.15	3.89	
6899.00	5.050	331.570	6889.24	251.10	31.21	-251.73	7.47	
6921.00	7.180	330.810	6911.11	252.20	33.26	-252.86	9.69	
6952.00	10.430	315.900	6941.74	255.02	36.97	-255.76	12.73	
6984.00	13.580	300.170	6973.05	260.21	40.94	-261.03	14.11	
7016.00	16.240	286.170	7003.98	267.70	44.07	-268.58	13.94	
7047.00	19.140	273.230	7033.52	276.92	45.57	-277.82	15.71	
7111.00	24.650	263.430	7092.90	300.69	44.63	-301.58	10.30	
7205.00	33.620	273.580	7174.97	346.26	44.01	-347.15	10.86	
7245.00	38.350	276.020	7207.33	369.63	46.01	-370.56	12.35	
7299.00	44.450	271.120	7247.83	405.19	48.13	-406.16	12.78	
7331.00	48.090	266.060	7269.96	428.29	47.53	-429.26	16.12	
7394.00	54.870	263.000	7309.17	477.39	42.78	-478.28	11.41	
7441.00	59.820	264.700	7334.53	516.80	38.56	-517.61	10.96	
7490.00	63.230	266.170	7357.89	559.78	35.14	-560.54	7.44	
7585.00	74.230	265.710	7392.30	648.05	28.87	-648.71	11.59	
7680.00	85.660	266.140	7408.86	741.31	22.24	-741.86	12.04	

Actual Wellpath Report

THORNTON H-29-30HC AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BAYSWATER E & P LLC	Slot	SLOT#02 THORNTON H-29-30HC (1659'FNL & 355'FWL SEC 28)
Area	COLORADO	Well	THORNTON H-29-30HC
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	THORNTON H-29-30HC AWB
Facility	SEC.28-T07N-R66W		

WELLPATH DATA (190 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
7734.00†	88.135	265.825	7411.78	795.16	18.46	-795.64	4.62	Crossed 460' setback (1641'FNL & 441'FEL, SEC.29)
7742.00†	88.502	265.778	7412.01	803.14	17.87	-803.62	4.62	Landing (1641'FNL & 449'FEL, SEC.29)
7776.00	90.060	265.580	7412.44	837.08	15.31	-837.52	4.62	
7867.00	90.000	263.700	7412.39	927.83	6.81	-928.12	2.07	
7958.00	89.880	264.890	7412.49	1018.53	-2.23	-1018.66	1.31	
8048.00	90.030	265.680	7412.56	1108.34	-9.63	-1108.36	0.89	
8139.00	90.060	265.430	7412.49	1199.19	-16.69	-1199.08	0.28	
8231.00	89.970	266.910	7412.46	1291.08	-22.83	-1290.88	1.61	
8319.00	89.940	269.900	7412.53	1379.06	-25.28	-1378.83	3.40	
8408.00	89.750	271.650	7412.77	1468.01	-24.08	-1467.82	1.98	
8500.00	87.600	269.110	7414.90	1559.95	-23.46	-1559.78	3.62	
8591.00	85.900	269.080	7420.06	1650.80	-24.90	-1650.62	1.87	
8683.00	90.060	273.660	7423.30	1742.61	-22.70	-1742.49	6.72	
8775.00	90.090	271.870	7423.18	1834.40	-18.26	-1834.38	1.95	
8865.00	90.220	268.720	7422.94	1924.36	-17.80	-1924.37	3.50	
8955.00	90.250	267.140	7422.57	2014.35	-21.05	-2014.31	1.76	
9045.00	90.550	266.930	7421.94	2104.29	-25.70	-2104.18	0.41	
9135.00	90.680	267.740	7420.98	2194.25	-29.89	-2194.08	0.91	
9226.00	90.740	267.770	7419.85	2285.23	-33.45	-2285.00	0.07	
9316.00	89.850	268.370	7419.38	2375.22	-36.48	-2374.95	1.19	
9406.00	90.090	267.840	7419.43	2465.21	-39.46	-2464.90	0.65	
9497.00	90.340	268.370	7419.09	2556.20	-42.47	-2555.85	0.64	
9587.00	90.220	269.500	7418.65	2646.19	-44.14	-2645.83	1.26	
9679.00	90.280	270.860	7418.25	2738.17	-43.85	-2737.83	1.48	
9771.00	90.490	271.390	7417.63	2830.10	-42.05	-2829.81	0.62	
9861.00	90.520	270.890	7416.84	2920.03	-40.25	-2919.79	0.56	
9952.00	90.580	270.810	7415.96	3010.97	-38.90	-3010.77	0.11	
10043.00	90.460	270.600	7415.14	3101.92	-37.79	-3101.76	0.27	
10133.00	90.120	270.240	7414.68	3191.89	-37.13	-3191.76	0.55	
10225.00	90.180	268.940	7414.44	3283.88	-37.78	-3283.75	1.41	

Actual Wellpath Report

THORNTON H-29-30HC AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BAYSWATER E & P LLC	Slot	SLOT#02 THORNTON H-29-30HC (1659'FNL & 355'FWL SEC 28)
Area	COLORADO	Well	THORNTON H-29-30HC
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	THORNTON H-29-30HC AWB
Facility	SEC.28-T07N-R66W		

WELLPATH DATA (190 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
10315.00	90.250	267.000	7414.10	3373.87	-40.97	-3373.69	2.16	
10407.00	90.180	265.880	7413.76	3465.78	-46.68	-3465.51	1.22	
10499.00	89.940	266.580	7413.66	3557.67	-52.73	-3557.31	0.80	
10589.00	89.970	267.700	7413.73	3647.63	-57.22	-3647.20	1.24	
10680.00	90.000	268.620	7413.76	3738.62	-60.15	-3738.15	1.01	
10772.00	90.060	268.020	7413.71	3830.61	-62.84	-3830.11	0.66	
10864.00	89.290	267.820	7414.23	3922.60	-66.18	-3922.05	0.86	
10955.00	89.050	267.760	7415.55	4013.57	-69.69	-4012.97	0.27	
11047.00	89.290	270.210	7416.88	4105.55	-71.32	-4104.94	2.68	
11136.00	89.320	269.860	7417.96	4194.53	-71.27	-4193.93	0.39	
11224.00	89.420	267.670	7418.93	4282.52	-73.16	-4281.90	2.49	
11314.00	90.220	267.890	7419.21	4372.50	-76.65	-4371.83	0.92	
11406.00	89.690	268.730	7419.28	4464.49	-79.36	-4463.79	1.08	
11498.00	89.080	267.240	7420.27	4556.47	-82.60	-4555.73	1.75	
11589.00	89.140	267.790	7421.69	4647.43	-86.54	-4646.63	0.61	
11680.00	89.140	268.310	7423.05	4738.41	-89.64	-4737.56	0.57	
11772.00	89.200	269.060	7424.38	4830.40	-91.75	-4829.53	0.82	
11864.00	89.690	270.010	7425.27	4922.39	-92.49	-4921.52	1.16	
11955.00	90.280	270.360	7425.30	5013.37	-92.20	-5012.52	0.75	
12047.00	90.220	270.220	7424.90	5105.34	-91.74	-5104.52	0.17	
12138.00	90.430	270.380	7424.38	5196.31	-91.26	-5195.52	0.29	
12229.00	89.970	271.060	7424.06	5287.27	-90.12	-5286.51	0.90	
12321.00	90.060	270.940	7424.04	5379.21	-88.51	-5378.49	0.16	
12411.00	90.000	271.170	7423.99	5469.14	-86.85	-5468.48	0.26	
12501.00	90.090	271.120	7423.92	5559.08	-85.05	-5558.46	0.11	
12593.00	90.030	268.430	7423.83	5651.06	-85.42	-5650.45	2.92	
12685.00	90.150	267.550	7423.68	5743.05	-88.64	-5742.39	0.97	
12777.00	90.310	266.510	7423.31	5834.99	-93.41	-5834.27	1.14	
12867.00	90.650	267.290	7422.56	5924.93	-98.28	-5924.13	0.95	
12959.00	90.860	267.340	7421.34	6016.89	-102.59	-6016.02	0.23	

Actual Wellpath Report

THORNTON H-29-30HC AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BAYSWATER E & P LLC	Slot	SLOT#02 THORNTON H-29-30HC (1659'FNL & 355'FWL SEC 28)
Area	COLORADO	Well	THORNTON H-29-30HC
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	THORNTON H-29-30HC AWB
Facility	SEC.28-T07N-R66W		

WELLPATH DATA (190 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
13049.00	90.680	267.150	7420.14	6106.84	-106.91	-6105.91	0.29	
13141.00	90.650	267.390	7419.07	6198.80	-111.29	-6197.80	0.26	
13234.00	90.550	267.750	7418.09	6291.77	-115.24	-6290.71	0.40	
13324.00	90.620	268.950	7417.17	6381.75	-117.83	-6380.67	1.34	
13413.00	90.650	269.360	7416.19	6470.75	-119.14	-6469.65	0.46	
13504.00	90.550	268.010	7415.24	6561.74	-121.23	-6560.62	1.49	
13593.00	90.520	266.480	7414.40	6650.70	-125.50	-6649.51	1.72	
13685.00	90.650	266.740	7413.47	6742.62	-130.94	-6741.35	0.32	
13777.00	90.580	267.230	7412.48	6834.56	-135.78	-6833.21	0.54	
13869.00	90.650	267.590	7411.49	6926.52	-139.94	-6925.11	0.40	
13961.00	90.680	268.900	7410.42	7018.51	-142.76	-7017.06	1.42	
14050.00	90.340	268.780	7409.63	7107.50	-144.56	-7106.04	0.41	
14142.00	90.310	267.570	7409.11	7199.49	-147.49	-7197.99	1.32	
14234.00	90.310	268.950	7408.61	7291.48	-150.28	-7289.94	1.50	
14326.00	91.540	269.490	7407.13	7383.47	-151.53	-7381.92	1.46	
14416.00	90.770	269.580	7405.31	7473.44	-152.26	-7471.90	0.86	
14506.00	89.940	269.350	7404.75	7563.43	-153.11	-7561.89	0.96	
14596.00	89.720	269.560	7405.02	7653.43	-153.96	-7651.89	0.34	
14687.00	89.170	269.920	7405.90	7744.42	-154.37	-7742.88	0.72	
14777.00	88.890	269.690	7407.43	7834.39	-154.68	-7832.87	0.40	
14867.00	89.600	269.680	7408.61	7924.38	-155.18	-7922.86	0.79	
14958.00	90.310	272.020	7408.68	8015.32	-153.83	-8013.84	2.69	
15048.00	91.170	272.960	7407.52	8105.13	-149.92	-8103.75	1.42	
15139.00	90.580	272.450	7406.13	8195.93	-145.62	-8194.64	0.86	
15229.00	90.220	271.150	7405.50	8285.81	-142.79	-8284.59	1.50	
15280.00	92.220	272.820	7404.42	8336.72	-141.03	-8335.54	5.11	
15371.00	90.520	271.290	7402.24	8427.55	-137.77	-8426.45	2.51	
15463.00	90.460	271.380	7401.45	8519.47	-135.62	-8518.42	0.12	
15532.00	90.580	274.880	7400.83	8588.27	-131.86	-8587.30	5.08	
15622.00	91.170	275.880	7399.45	8677.69	-123.42	-8676.90	1.29	

Actual Wellpath Report

THORNTON H-29-30HC AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BAYSWATER E & P LLC	Slot	SLOT#02 THORNTON H-29-30HC (1659'FNL & 355'FWL SEC 28)
Area	COLORADO	Well	THORNTON H-29-30HC
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	THORNTON H-29-30HC AWB
Facility	SEC.28-T07N-R66W		

WELLPATH DATA (190 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
15715.00	89.600	271.820	7398.83	8770.32	-117.18	-8769.66	4.68	
15807.00	88.550	269.310	7400.31	8862.26	-116.27	-8861.64	2.96	
15897.00	90.890	268.130	7400.75	8952.25	-118.28	-8951.61	2.91	
15988.00	92.190	267.870	7398.31	9043.20	-121.46	-9042.52	1.46	
16078.00	90.120	266.880	7396.49	9133.15	-125.58	-9132.40	2.55	
16170.00	91.170	267.180	7395.46	9225.09	-130.34	-9224.27	1.19	
16260.00	89.880	266.470	7394.63	9315.02	-135.33	-9314.12	1.64	
16349.00	89.660	266.330	7394.99	9403.93	-140.92	-9402.95	0.29	
16441.00	91.540	266.790	7394.03	9495.85	-146.44	-9494.77	2.10	Last BHI mwd survey (1591'FNL & 1748'FWL , SEC.30)
16507.00	91.540	266.790	7392.25	9561.78	-150.13	-9560.64	0.00	Projection to bit (1595'FNL & 1683'FWL, SEC.30)

HOLE & CASING SECTIONS - Ref Wellbore: THORNTON H-29-30HC AWB Ref Wellpath: THORNTON H-29-30HC 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	17.00	1560.00	1543.00	17.00	1559.92	0.00	0.00	3.52	2.85
9.625in Casing Surface	17.00	1544.00	1527.00	17.00	1543.92	0.00	0.00	3.43	2.74
8.5in Open Hole	1544.00	16507.00	14963.00	1543.92	7392.25	3.43	2.74	-150.13	-9560.64

Actual Wellpath Report

THORNTON H-29-30HC AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BAYSWATER E & P LLC	Slot	SLOT#02 THORNTON H-29-30HC (1659'FNL & 355'FWL SEC 28)
Area	COLORADO	Well	THORNTON H-29-30HC
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	THORNTON H-29-30HC 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	14.88	0.62	3196881.86	1443491.05	40°32'55.046"N	104°47'29.504"W	polygon
SEC.29-T07N-R66W	-7.00	14.88	0.62	3196881.86	1443491.05	40°32'55.046"N	104°47'29.504"W	polygon
SEC.30-T07N-R66W	-7.00	14.88	0.62	3196881.86	1443491.05	40°32'55.046"N	104°47'29.504"W	polygon
SEC.29-T07N-R66W 460' SETBACKS	7338.00	14.88	0.62	3196881.86	1443491.05	40°32'55.046"N	104°47'29.504"W	polygon
SEC.30-T07N-R66W 460' SETBACKS	7338.00	14.88	0.62	3196881.86	1443491.05	40°32'55.046"N	104°47'29.504"W	polygon
THORNTON H-29-30HC BHL REV-1 ON PLAT (1645'FNL & 470'FWL SEC.30)	7385.00	-202.07	-10773.22	3186110.44	1443188.05	40°32'52.879"N	104°49'49.066"W	point
THORNTON H-29-30HC BHL REV-2 ON PLAT (1645'FNL & 470'FWL SEC.30)	7386.00	-202.07	-10773.22	3186110.44	1443188.05	40°32'52.879"N	104°49'49.066"W	point
THORNTON H-29-30HC LP REV-2 ON PLAT (1645'FNL & 470'FEL SEC.29)	7412.00	4.37	-825.39	3196055.99	1443473.94	40°32'54.942"N	104°47'40.204"W	point
THORNTON H-29-30HC LP REV-1 ON PLAT (1645'FNL & 470'FEL SEC.29)	7420.00	4.37	-825.39	3196055.99	1443473.94	40°32'54.942"N	104°47'40.204"W	point

WELLPATH COMPOSITION - Ref Wellbore: THORNTON H-29-30HC AWB Ref Wellpath: THORNTON H-29-30HC 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 NAVITRAK MWD STD ROTATING AXIAL ROCKIES GT <145-1508>	THORNTON H-29-30HC AWB
1508.00	16441.00	Custom BHI AutoTrak Curve (Short) (Rockies 0.03Gt model)	BHI ATC MWD SHORT, ROCKIES GT <1604-16441>	THORNTON H-29-30HC AWB
16441.00	16507.00	Blind Drilling (std)	Projection to bit	THORNTON H-29-30HC AWB

Actual Wellpath Report

THORNTON H-29-30HC AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BAYSWATER E & P LLC	Slot	SLOT#02 THORNTON H-29-30HC (1659'FNL & 355'FWL SEC 28)
Area	COLORADO	Well	THORNTON H-29-30HC
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	THORNTON H-29-30HC AWB
Facility	SEC.28-T07N-R66W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
7734.00	88.135	265.825	7411.78	Crossed 460' setback (1641'FNL & 441'FEL, SEC.29)
7742.00	88.502	265.778	7412.01	Landing (1641'FNL & 449'FEL, SEC.29)
16441.00	91.540	266.790	7394.03	Last BHI mwd survey (1591'FNL & 1748'FWL , SEC.30)
16507.00	91.540	266.790	7392.25	Projection to bit (1595'FNL & 1683'FWL, SEC.30)