





# Actual Wellpath Report

WAAG 7 AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#02 WAAG 7 (2339'FNL & 2470'FWL, SEC.19)
Area	COLORADO	Well	WAAG 7
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	WAAG 7 AWB
Facility	SEC.19-T07N-R65W		

## REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 4.1.1
North Reference	True	User	Ingmjamr
Scale	0.999972	Report Generated	3/5/2015 at 6:13:32 PM
Convergence at slot	0.51° East	Database/Source file	Denver/WAAG_7_AWB.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-29.15	0.00	3220340.41	1448417.17	40°33'41.760"N	104°42'25.056"W
Facility Reference Pt			3220340.15	1448446.32	40°33'42.048"N	104°42'25.056"W
Field Reference Pt			3185481.27	1419166.81	40°28'55.560"N	104°49'59.556"W

## WELLPATH DATUM

Calculation method	Minimum curvature	H&P 319 (24'KB) (RKB) to Facility Vertical Datum	4911.00ft
Horizontal Reference Pt	Slot	H&P 319 (24'KB) (RKB) to Mean Sea Level	4911.00ft
Vertical Reference Pt	H&P 319 (24'KB) (RKB)	H&P 319 (24'KB) (RKB) to Mud Line at Slot (SLOT#02 WAAG 7 (2339'FNL & 2470'FWL, SEC.19))	4911.00ft
MD Reference Pt	H&P 319 (24'KB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	282.98°



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Operator	EXTRACTION OIL & GAS	Slot	SLOT#02 WAAG 7 (2339'FNL & 2470'FWL, SEC.19)
Area	COLORADO	Well	WAAG 7
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	WAAG 7 AWB
Facility	SEC.19-T07N-R65W		

## WELLPATH DATA (95 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	0.000	0.00	0.00	0.00	0.00	0.00	
24.00	0.000	0.000	24.00	0.00	0.00	0.00	0.00	
383.00	2.040	0.000	382.92	1.44	6.39	0.00	0.57	FIRST BHI MWD SURVEY
472.00	1.560	0.000	471.88	2.06	9.19	0.00	0.54	
651.00	0.680	0.000	650.84	2.85	12.68	0.00	0.49	
845.00	1.490	0.000	844.81	3.67	16.36	0.00	0.42	
1010.00	1.560	105.880	1009.77	1.91	17.89	2.16	1.48	
1100.00	3.940	53.080	1099.67	-1.30	19.41	5.81	3.60	
1189.00	6.880	55.590	1188.27	-6.88	24.26	12.66	3.31	
1279.00	8.980	48.110	1277.41	-14.58	32.00	22.33	2.60	
1373.00	9.620	38.850	1370.17	-22.22	43.02	32.72	1.73	
1465.00	11.320	31.200	1460.64	-28.40	56.73	42.22	2.38	
1557.00	11.010	24.260	1550.91	-32.94	72.46	50.51	1.50	
1649.00	11.240	24.110	1641.18	-36.39	88.65	57.78	0.25	
1741.00	11.380	25.430	1731.39	-40.08	105.03	65.34	0.32	
1833.00	11.440	28.560	1821.57	-44.49	121.25	73.60	0.68	
2108.00	12.890	25.180	2090.40	-58.30	172.96	99.69	0.59	
2384.00	13.280	16.880	2359.25	-66.96	231.16	122.00	0.69	
2659.00	12.740	16.190	2627.19	-70.81	290.51	139.62	0.20	
2935.00	12.840	16.840	2896.34	-74.58	349.08	156.99	0.06	
3118.00	13.250	17.420	3074.62	-77.57	388.56	169.16	0.24	
3302.00	11.260	21.830	3254.42	-81.97	425.36	182.16	1.19	
3485.00	11.160	24.070	3433.93	-88.12	458.11	196.02	0.24	
3669.00	9.900	25.790	3614.83	-95.05	488.61	210.17	0.71	
3763.00	11.590	19.640	3707.18	-97.94	504.78	216.86	2.17	
4046.00	10.760	19.880	3984.81	-104.41	556.40	235.40	0.29	
4234.00	13.630	22.180	4168.55	-110.06	593.43	249.73	1.55	
4328.00	14.550	18.620	4259.73	-113.00	614.87	257.68	1.34	
4423.00	13.100	22.490	4351.97	-115.95	636.13	265.61	1.81	
4706.00	10.440	24.170	4629.00	-126.22	689.16	288.38	0.95	



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Area	COLORADO	Well	WAAG 7
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	WAAG 7 AWB
Facility	SEC.19-T07N-R65W		

## WELLPATH DATA (95 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4800.00	9.930	26.410	4721.52	-129.76	704.19	295.47	0.69	
4895.00	8.800	28.720	4815.25	-133.63	717.90	302.61	1.25	
4989.00	8.640	18.620	4908.17	-136.28	730.90	308.32	1.64	
5178.00	7.750	15.890	5095.24	-138.32	756.61	316.34	0.51	
5272.00	7.640	17.270	5188.39	-139.11	768.67	319.93	0.23	
5366.00	6.880	18.020	5281.64	-140.07	779.99	323.53	0.81	
5461.00	6.220	10.870	5376.02	-140.38	790.46	326.26	1.10	
5555.00	6.790	12.590	5469.41	-140.16	800.88	328.43	0.64	
5649.00	6.150	27.370	5562.82	-141.37	810.78	331.96	1.89	
5744.00	6.730	24.050	5657.22	-143.70	820.38	336.56	0.73	
5838.00	8.520	15.240	5750.39	-145.04	832.13	340.64	2.27	
5933.00	9.320	6.220	5844.25	-144.41	846.57	343.32	1.69	
6122.00	7.220	2.130	6031.27	-140.37	873.66	345.42	1.15	
6216.00	8.160	6.740	6124.43	-138.53	886.18	346.43	1.20	
6311.00	8.310	10.780	6218.45	-137.54	899.62	348.50	0.63	
6405.00	7.010	9.980	6311.61	-136.98	911.95	350.77	1.39	
6688.00	4.630	7.300	6593.13	-134.94	940.29	355.21	0.85	
6782.00	5.910	331.060	6686.75	-131.33	948.29	353.35	3.72	
6876.00	19.400	300.280	6778.33	-113.10	960.46	337.44	15.56	
6970.00	26.520	283.150	6864.93	-77.12	973.14	303.44	10.32	
7065.00	27.210	275.410	6949.70	-34.37	980.01	261.15	3.75	
7159.00	31.480	273.700	7031.62	11.18	983.62	215.24	4.63	
7254.00	42.050	274.940	7107.62	67.32	987.98	158.63	11.15	
7348.00	55.290	277.060	7169.56	137.24	995.47	88.61	14.19	
7442.00	57.940	277.790	7221.28	215.35	1005.62	10.79	2.89	
7537.00	66.940	274.710	7265.20	298.88	1014.68	-72.84	9.90	
7568.00	70.760	274.070	7276.38	327.46	1016.90	-101.66	12.47	
7662.00	71.700	274.370	7306.63	415.43	1023.45	-190.42	1.04	
7718.00†	72.109	273.356	7324.02	467.98	1027.03	-243.53	1.87	CROSSED 460' SETBACK
7725.00	72.160	273.230	7326.17	474.55	1027.41	-250.18	1.87	



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Area	COLORADO	Well	WAAG 7
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	WAAG 7 AWB
Facility	SEC.19-T07N-R65W		

## WELLPATH DATA (95 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
7819.00	82.600	271.530	7346.68	564.58	1031.19	-341.70	11.25	
7971.00	90.430	268.140	7355.91	712.18	1030.73	-493.28	5.61	
8066.00	89.520	267.120	7355.96	803.79	1026.81	-588.20	1.44	
8160.00	89.130	266.860	7357.06	894.15	1021.87	-682.06	0.50	
8255.00	90.400	270.180	7357.45	986.12	1019.42	-777.01	3.74	
8349.00	89.260	270.180	7357.73	1077.79	1019.71	-871.01	1.21	
8444.00	87.040	271.730	7360.80	1170.65	1021.29	-965.94	2.85	
8538.00	86.700	272.020	7365.93	1262.75	1024.37	-1059.75	0.48	
8632.00	87.530	272.030	7370.66	1354.92	1027.68	-1153.57	0.88	
8726.00	90.890	272.600	7371.96	1447.27	1031.48	-1247.47	3.63	
8820.00	90.950	272.760	7370.45	1539.74	1035.87	-1341.35	0.18	
8914.00	90.270	273.110	7369.45	1632.30	1040.69	-1435.22	0.81	
9009.00	88.070	272.330	7370.82	1725.76	1045.19	-1530.10	2.46	
9103.00	88.040	274.040	7374.01	1818.34	1050.41	-1623.90	1.82	
9197.00	90.700	272.250	7375.05	1910.94	1055.57	-1717.74	3.41	
9292.00	86.200	270.100	7377.62	2003.86	1057.52	-1812.65	5.25	
9386.00	87.440	272.850	7382.83	2095.82	1059.93	-1906.47	3.21	
9480.00	90.090	273.090	7384.86	2188.36	1064.80	-2000.31	2.83	
9574.00	89.840	273.160	7384.92	2280.98	1069.93	-2094.17	0.28	
9669.00	89.440	274.210	7385.51	2374.72	1076.03	-2188.97	1.18	
9763.00	90.360	273.410	7385.68	2467.52	1082.28	-2282.76	1.30	
9857.00	90.800	271.680	7384.73	2559.96	1086.45	-2376.66	1.90	
9952.00	92.740	271.050	7381.79	2652.96	1088.72	-2471.58	2.15	
10046.00	91.750	270.480	7378.11	2744.76	1089.97	-2565.50	1.22	
10141.00	87.600	270.300	7378.65	2837.46	1090.62	-2660.48	4.37	
10235.00	86.180	269.160	7383.75	2928.82	1090.17	-2754.33	1.94	
10329.00	85.440	270.280	7390.62	3020.06	1089.72	-2848.08	1.43	
10423.00	87.880	271.590	7396.09	3111.83	1091.25	-2941.90	2.95	
10518.00	88.890	271.940	7398.77	3204.98	1094.17	-3036.81	1.13	
10612.00	91.630	272.740	7398.34	3297.35	1098.01	-3130.72	3.04	



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## REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#02 WAAG 7 (2339'FNL & 2470'FWL, SEC.19)
Area	COLORADO	Well	WAAG 7
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	WAAG 7 AWB
Facility	SEC.19-T07N-R65W		

## WELLPATH DATA (95 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
10707.00	92.740	270.860	7394.72	3390.48	1100.99	-3225.60	2.30	
10801.00	91.880	270.550	7390.93	3482.25	1102.15	-3319.52	0.97	
10895.00	88.900	270.000	7390.29	3573.94	1102.60	-3413.50	3.22	
10927.00	91.070	269.820	7390.30	3605.11	1102.55	-3445.50	6.80	LAST BHI MWD SURVEY OWB
10997.00	90.900	269.800	7389.10	3673.26	1102.32	-3515.49	0.24	PROJECTION TO BIT OWB

## HOLE & CASING SECTIONS - Ref Wellbore: WAAG 7 AWB Ref Wellpath: WAAG 7 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	24.00	905.00	881.00	24.00	904.79	0.00	0.00	17.55	0.29
9.625in Casing Surface	24.00	905.00	881.00	24.00	904.79	0.00	0.00	17.55	0.29
8.75in Open Hole	905.00	7894.00	6989.00	904.79	7353.83	17.55	0.29	1032.09	-416.34
7in Casing Intermediate	24.00	7877.00	7853.00	24.00	7352.65	0.00	0.00	1032.07	-399.38
6.125in Open Hole	7894.00	12125.00	4231.00	7353.83	N/A	1032.09	-416.34	N/A	N/A

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.19-T7N-R65W	0.00	-112.94	0.00	3220341.42	1448304.24	40°33'40.644"N	104°42'25.056"W	polygon
SEC.24-T7N-R66W	0.00	-112.94	0.00	3220341.42	1448304.24	40°33'40.644"N	104°42'25.056"W	polygon
WAAG PAD (460' SETBACK)	7168.00	-112.94	0.00	3220341.42	1448304.24	40°33'40.644"N	104°42'25.056"W	polygon
WAAG 7 BHL ON PLAT REV-1 (1320'FNL & 2244'FEL, SEC.24)	7335.00	1086.13	-4712.21	3215618.82	1449461.09	40°33'52.488"N	104°43'26.112"W	point
WAAG 7 LANDING POINT	7335.00	1023.75	-236.17	3220095.11	1449438.73	40°33'51.876"N	104°42'28.116"W	point
WAAG 7 TARGET 4	7357.99	1058.25	-2421.75	3217909.37	1449453.69	40°33'52.216"N	104°42'56.435"W	point
WAAG 7 TARGET 2	7358.00	1040.00	-921.93	3219409.25	1449448.85	40°33'52.036"N	104°42'37.001"W	point
WAAG 7 TARGET 3	7358.00	1047.30	-1521.88	3218809.28	1449450.79	40°33'52.108"N	104°42'44.775"W	point
WAAG 7 BHL ON PLAT REV-2 (1320'FNL & 2244'FEL, SEC.24)	7365.00	1086.13	-4712.21	3215618.82	1449461.09	40°33'52.488"N	104°43'26.112"W	point
WAAG 7 DRILLING CORRIDOR (60')	7365.00	0.00	0.00	3220340.41	1448417.17	40°33'41.760"N	104°42'25.056"W	polygon
WAAG 7 LANDING POINT REV-2	7365.00	1023.75	-236.17	3220095.11	1449438.73	40°33'51.876"N	104°42'28.116"W	point
WAAG 7 TARGET 5	7377.00	1070.42	-3421.72	3216909.36	1449456.92	40°33'52.335"N	104°43'09.391"W	point

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
WAAG 7 TARGET 6	7379.00	1077.73	-4021.67	3216309.39	1449458.86	40°33'52.406"N	104°43'17.165"W	point
WAAG 7 BHL ON PLAT REV-3 (1320'FNL & 2244'FEL, SEC.24)	7381.00	1086.13	-4712.21	3215618.82	1449461.09	40°33'52.488"N	104°43'26.112"W	point



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## REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#02 WAAG 7 (2339'FNL & 2470'FWL, SEC.19)
Area	COLORADO	Well	WAAG 7
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	WAAG 7 AWB
Facility	SEC.19-T07N-R65W		

## WELLPATH COMPOSITION - Ref Wellbore: WAAG 7 AWB Ref Wellpath: WAAG 7 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
24.00	845.00	NaviTrak (Standard)	BHI MWD/NAVITRAK (STD) 13.5" HOLE <383-845>	WAAG 7 AWB
845.00	7819.00	NaviTrak (Standard)	BHI MWD/NAVITRAK (STD) 8.75" HOLE <1010-7819>	WAAG 7 AWB
7819.00	10927.00	OnTrak (Standard)	BHI MWD/ONTRAK (STD) 6.125" HOLE <7971-10927>	WAAG 7 AWB
10927.00	10997.00	Blind Drilling (std)	Projection to bit	WAAG 7 AWB





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Area	COLORADO	Well	WAAG 7
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	WAAG 7 AWB
Facility	SEC.19-T07N-R65W		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
383.00	2.040	0.000	382.92	FIRST BHI MWD SURVEY
7718.00	72.109	273.356	7324.02	CROSSED 460' SETBACK
10927.00	91.070	269.820	7390.30	LAST BHI MWD SURVEY OWB
10997.00	90.900	269.800	7389.10	PROJECTION TO BIT OWB



# Actual Wellpath Report

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#02 WAAG 7 (2339'FNL & 2470'FWL, SEC.19)
Area	COLORADO	Well	WAAG 7 ST01
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	WAAG 7 ST01 AWB
Facility	SEC.19-T07N-R65W	Sidetrack from	WAAG 7 AWB at 10518.00 MD

## REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 4.1.1
North Reference	True	User	Ingmjmr
Scale	0.999972	Report Generated	3/5/2015 at 6:14:46 PM
Convergence at slot	0.51° East	Database/Source file	Denver/WAAG_7_ST01_AWB.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-29.15	0.00	3220340.41	1448417.17	40°33'41.760"N	104°42'25.056"W
Facility Reference Pt			3220340.15	1448446.32	40°33'42.048"N	104°42'25.056"W
Field Reference Pt			3185481.27	1419166.81	40°28'55.560"N	104°49'59.556"W

## WELLPATH DATUM

Calculation method	Minimum curvature	H&P 319 (24'KB) (RKB) to Facility Vertical Datum	4911.00ft
Horizontal Reference Pt	Slot	H&P 319 (24'KB) (RKB) to Mean Sea Level	4911.00ft
Vertical Reference Pt	H&P 319 (24'KB) (RKB)	H&P 319 (24'KB) (RKB) to Mud Line at Slot (SLOT#02 WAAG 7 (2339'FNL & 2470'FWL, SEC.19))	4911.00ft
MD Reference Pt	H&P 319 (24'KB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	282.98°



# Actual Wellpath Report

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#02 WAAG 7 (2339'FNL & 2470'FWL, SEC.19)
Area	COLORADO	Well	WAAG 7 ST01
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	WAAG 7 ST01 AWB
Facility	SEC.19-T07N-R65W	Sidetrack from	WAAG 7 AWB at 10518.00 MD

## WELLPATH DATA (19 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
10518.00	88.890	271.940	7398.77	3204.98	1094.17	-3036.81	1.13	TIED ONTO OWB
10582.00	84.380	272.500	7402.53	3267.73	1096.65	-3100.64	7.10	FIRST BHI MWD SURVEY ST01
10644.00	86.840	271.720	7407.27	3328.43	1098.92	-3162.41	4.16	
10706.00	89.510	270.800	7409.25	3389.10	1100.28	-3224.36	4.55	
10801.00	88.640	270.240	7410.78	3481.85	1101.15	-3319.34	1.09	
10895.00	89.540	270.400	7412.27	3573.55	1101.67	-3413.32	0.97	
10990.00	90.090	270.390	7412.58	3666.27	1102.33	-3508.32	0.58	
11084.00	90.370	270.600	7412.20	3758.05	1103.14	-3602.32	0.37	
11178.00	91.420	269.570	7410.73	3849.66	1103.28	-3696.30	1.56	
11272.00	92.300	269.000	7407.68	3940.94	1102.11	-3790.24	1.12	
11367.00	91.380	268.130	7404.63	4032.90	1099.73	-3885.16	1.33	
11461.00	90.430	268.160	7403.15	4123.76	1096.68	-3979.10	1.01	
11555.00	90.000	268.030	7402.79	4214.60	1093.56	-4073.05	0.48	
11650.00	90.180	270.130	7402.65	4306.81	1092.03	-4168.03	2.22	
11744.00	89.850	270.390	7402.62	4398.51	1092.46	-4262.03	0.45	
11838.00	89.570	270.640	7403.10	4490.29	1093.31	-4356.02	0.40	
11964.00	91.330	271.840	7402.11	4613.64	1096.03	-4481.98	1.69	
12055.00	88.670	270.270	7402.11	4702.67	1097.71	-4572.96	3.39	LAST BHI MWD SURVEY ST01
12125.00	88.670	270.270	7403.73	4770.94	1098.04	-4642.94	0.00	PROJECTION TO BIT ST01



# Actual Wellpath Report

WAAG 7 ST01 AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#02 WAAG 7 (2339'FNL & 2470'FWL, SEC.19)
Area	COLORADO	Well	WAAG 7 ST01
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	WAAG 7 ST01 AWB
Facility	SEC.19-T07N-R65W	Sidetrack from	WAAG 7 AWB at 10518.00 MD

## HOLE & CASING SECTIONS - Ref Wellbore: WAAG 7 ST01 AWB Ref Wellpath: WAAG 7 ST01 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	24.00	905.00	881.00	24.00	904.79	0.00	0.00	17.55	0.29
9.625in Casing Surface	24.00	905.00	881.00	24.00	904.79	0.00	0.00	17.55	0.29
8.75in Open Hole	905.00	7894.00	6989.00	904.79	7353.83	17.55	0.29	1032.09	-416.34
7in Casing Intermediate	24.00	7877.00	7853.00	24.00	7352.65	0.00	0.00	1032.07	-399.38
6.125in Open Hole	7894.00	10518.00	2624.00	7353.83	7398.77	1032.09	-416.34	1094.17	-3036.81
6.125in Open Hole	10518.00	12125.00	1607.00	7398.77	7403.73	1094.17	-3036.81	1098.04	-4642.94

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.19-T7N-R65W	0.00	-112.94	0.00	3220341.42	1448304.24	40°33'40.644"N	104°42'25.056"W	polygon
SEC.24-T7N-R66W	0.00	-112.94	0.00	3220341.42	1448304.24	40°33'40.644"N	104°42'25.056"W	polygon
WAAG PAD (460' SETBACK)	7168.00	-112.94	0.00	3220341.42	1448304.24	40°33'40.644"N	104°42'25.056"W	polygon
WAAG 7 BHL ON PLAT REV-1 (1320'FNL & 2244'FEL, SEC.24)	7335.00	1086.13	-4712.21	3215618.82	1449461.09	40°33'52.488"N	104°43'26.112"W	point
WAAG 7 LANDING POINT	7335.00	1023.75	-236.17	3220095.11	1449438.73	40°33'51.876"N	104°42'28.116"W	point
WAAG 7 TARGET 4	7357.99	1058.25	-2421.75	3217909.37	1449453.69	40°33'52.216"N	104°42'56.435"W	point
WAAG 7 TARGET 2	7358.00	1040.00	-921.93	3219409.25	1449448.85	40°33'52.036"N	104°42'37.001"W	point
WAAG 7 TARGET 3	7358.00	1047.30	-1521.88	3218809.28	1449450.79	40°33'52.108"N	104°42'44.775"W	point
WAAG 7 BHL ON PLAT REV-2 (1320'FNL & 2244'FEL, SEC.24)	7365.00	1086.13	-4712.21	3215618.82	1449461.09	40°33'52.488"N	104°43'26.112"W	point
WAAG 7 DRILLING CORRIDOR (60')	7365.00	0.00	0.00	3220340.41	1448417.17	40°33'41.760"N	104°42'25.056"W	polygon
WAAG 7 LANDING POINT REV-2	7365.00	1023.75	-236.17	3220095.11	1449438.73	40°33'51.876"N	104°42'28.116"W	point
WAAG 7 TARGET 5	7377.00	1070.42	-3421.72	3216909.36	1449456.92	40°33'52.335"N	104°43'09.391"W	point

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
WAAG 7 TARGET 6	7379.00	1077.73	-4021.67	3216309.39	1449458.86	40°33'52.406"N	104°43'17.165"W	point

WAAG 7 BHL ON PLAT REV-3 (1320'FNL & 2244'FEL, SEC.24)	7381.00	1086.13	-4712.21	3215618.82	1449461.09	40°33'52.488"N	104°43'26.112"W	point

WELLPATH COMPOSITION - Ref Wellbore: WAAG 7 ST01 AWB    Ref Wellpath: WAAG 7 ST01 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
24.00	845.00	NaviTrak (Standard)	BHI MWD/NAVITRAK (STD) 13.5" HOLE <383-845>	WAAG 7 AWB
845.00	7819.00	NaviTrak (Standard)	BHI MWD/NAVITRAK (STD) 8.75" HOLE <1010-7819>	WAAG 7 AWB
7819.00	10518.00	OnTrak (Standard)	BHI MWD/ONTRAK (STD) 6.125" HOLE <7971-10927>	WAAG 7 AWB
10518.00	12055.00	NaviTrak (Standard)	BHI MWD/NAVITRAK (STD) 6.125" HOLE <10582-12055>	WAAG 7 ST01 AWB
12055.00	12125.00	Blind Drilling (std)	Projection to bit	WAAG 7 ST01 AWB



# Actual Wellpath Report

WAAG 7 ST01 AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#02 WAAG 7 (2339'FNL & 2470'FWL, SEC.19)
Area	COLORADO	Well	WAAG 7 ST01
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	WAAG 7 ST01 AWB
Facility	SEC.19-T07N-R65W	Sidetrack from	WAAG 7 AWB at 10518.00 MD

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
383.00	2.040	0.000	382.92	FIRST BHI MWD SURVEY
7718.00	72.109	273.356	7324.02	CROSSED 460' SETBACK
10518.00	88.890	271.940	7398.77	TIED ONTO OWB
10582.00	84.380	272.500	7402.53	FIRST BHI MWD SURVEY ST01
12055.00	88.670	270.270	7402.11	LAST BHI MWD SURVEY ST01
12125.00	88.670	270.270	7403.73	PROJECTION TO BIT ST01