

Scale 1 inch = 2500

True Vertical Depth (ft)

0 1000 2000 3000 4000 5000 6000 7000 8000

0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 11000 12000 13000 14000 15000 16000 17000

Vertical Section (ft)

Azimuth 261.54° with reference 0.00 N, 0.00 E

Scale 1 inch = 2000

Scale 1 inch = 2500

Easting (ft)

-10000 -8750 -7500 -6250 -5000 -3750 -2500 -1250 0 1250 2500 3750 5000

1250 0 -1250 -2500 -3750

Northing (ft)

LAST MWD SURVEY (2409'FNL & 518'FWL, SEC.17) : 7021.75ft TVD, 1152.58ft S, 7698.43ft W  
PROJ. TO BIT (2408'FNL & 494'FWL, SEC.17) : 7021.49ft TVD, 1151.73ft S, 7722.42ft W

2.00°/100ft  
9.625in Casing : 0.43° Inc, 1764.00ft MD, 1763.93ft TVD, 1.63ft VS

2.00°/100ft

9.00°/100ft

2.00°/100ft

KAWATA 32N-17B-M BHL REV-2 (2402'FNL & 510'FWL SEC.17)

LANDING (2399' FNL & 2048'FWL, SEC.16) : 89.57° Inc, 7652.00ft MD, 7082.08ft TVD, 991.96ft VS

KAWATA 32N-17B-M TOP OF PROD. REV-2 (2402'FNL & 2094'FWL SEC.16)

SLOT#09 KAWATA 32N-17B-M (1141'FNL & 2346'FEL SEC.16)

16in Conductor : 101.00ft TVD, 0.03ft S, 0.25ft E  
9.625in Casing : 1763.93ft TVD, 1.31ft N, 1.84ft W

7082.08ft TVD, 1258.85ft S, 815.72ft W  
KAWATA 32N-17B-M TOP OF PROD. REV-2 (2402'FNL & 2094'FWL SEC.16)

N TRUE  
MAG

W E

BGGM (1900.0 to 2018.0) Dip: 66.82° Field: 52446.8 nT  
Magnetic North is 8.43 degrees East of True North (at 01/Dec/2016)

To correct azimuth from Magnetic to True add 8.43 degrees

LAST MWD SURVEY (2409'FNL & 518'FWL, SEC.17) : 90.62° Inc, 14538.00ft MD, 7021.75ft TVD, 7784.23ft VS  
KAWATA 32N-17B-M BHL REV-2 (2402'FNL & 510'FWL SEC.17)  
PROJ. TO BIT (2408'FNL & 494'FWL, SEC.17) : 90.62° Inc, 14562.00ft MD, 7021.49ft TVD, 7807.83ft VS

# Actual Wellpath Report

KAWATA 32N-17B-M AWP

Page 1 of 7

## REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#09 KAWATA 32N-17B-M (1141'FNL & 2346'FEL SEC.16)
Area	COLORADO	Well	KAWATA 32N-17B-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	KAWATA 32N-17B-M AWP
Facility	SEC.16-T04N-R66W		

## REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.0
North Reference	True	User	Hutaedr
Scale	0.999957	Report Generated	16/Feb/2017 at 16:05
Convergence at slot	0.47° East	Database/Source file	WA_DEN_Denver_Defn/KAWATA_32N-17B-M_AWP.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-159.89	-1.39	3200314.79	1358693.89	40°18'56.837"N	104°46'53.933"W
Facility Reference Pt			3200314.88	1358853.78	40°18'58.417"N	104°46'53.915"W
Field Reference Pt			3171284.48	1426358.81	40°30'07.643"N	104°53'02.634"W

## WELLPATH DATUM

Calculation method	Minimum curvature	PRECISION 562 (25') (RKB) to Facility Vertical Datum	4757.00ft
Horizontal Reference Pt	Slot	PRECISION 562 (25') (RKB) to Mean Sea Level	4757.00ft
Vertical Reference Pt	PRECISION 562 (25') (RKB)	PRECISION 562 (25') (RKB) to Mud Line at Slot (SLOT#09 KAWATA 32N-17B-M (1141'FNL & 2346'FEL SEC.16))	4757.00ft
MD Reference Pt	PRECISION 562 (25') (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	261.54°

### REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#09 KAWATA 32N-17B-M (1141'FNL & 2346'FEL SEC.16)
Area	COLORADO	Well	KAWATA 32N-17B-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	KAWATA 32N-17B-M AWB
Facility	SEC.16-T04N-R66W		

### WELLPATH DATA (165 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	97.380	0.00	0.00	0.00	0.00	0.00	
25.00	0.000	97.380	25.00	0.00	0.00	0.00	0.00	
196.00	0.850	97.380	195.99	-1.22	-0.16	1.26	0.50	
288.00	0.310	329.960	287.99	-1.79	-0.04	1.81	1.16	
378.00	0.540	309.010	377.99	-1.41	0.44	1.36	0.30	
470.00	0.500	307.400	469.98	-0.84	0.96	0.70	0.05	
559.00	0.570	309.190	558.98	-0.27	1.47	0.05	0.08	
649.00	0.680	300.790	648.98	0.45	2.03	-0.75	0.16	
739.00	0.550	289.060	738.97	1.24	2.45	-1.62	0.20	
829.00	0.500	292.120	828.97	1.97	2.73	-2.39	0.06	
949.00	0.670	282.940	948.96	3.07	3.09	-3.56	0.16	
1009.00	0.520	298.820	1008.96	3.61	3.30	-4.14	0.37	
1099.00	0.280	353.060	1098.95	3.93	3.71	-4.53	0.47	
1189.00	0.380	99.480	1188.95	3.64	3.88	-4.26	0.59	
1279.00	0.650	109.230	1278.95	2.91	3.67	-3.48	0.31	
1369.00	0.470	108.930	1368.95	2.13	3.38	-2.65	0.20	
1459.00	0.350	108.490	1458.94	1.55	3.17	-2.04	0.13	
1549.00	0.440	144.200	1548.94	1.15	2.80	-1.58	0.29	
1639.00	0.390	180.510	1638.94	1.04	2.22	-1.38	0.29	
1717.00	0.560	214.450	1716.94	1.34	1.64	-1.60	0.41	
1838.00	0.250	235.900	1837.93	1.98	1.00	-2.15	0.28	
1928.00	0.170	126.880	1927.93	2.06	0.81	-2.21	0.38	
1973.00	0.130	258.340	1972.93	2.07	0.76	-2.20	0.61	
2062.00	0.140	160.100	2061.93	2.15	0.64	-2.27	0.23	
2152.00	1.790	168.540	2151.92	2.05	-0.84	-1.95	1.84	
2241.00	3.820	169.400	2240.81	1.87	-5.12	-1.13	2.28	
2331.00	5.440	173.510	2330.51	1.90	-12.31	-0.09	1.84	
2421.00	7.120	179.100	2419.97	2.78	-22.12	0.48	1.98	
2510.00	9.390	181.490	2508.04	4.76	-34.90	0.37	2.58	
2600.00	10.850	183.860	2596.64	7.84	-50.69	-0.39	1.69	
2689.00	12.900	187.530	2683.73	12.36	-68.90	-2.25	2.45	
2779.00	14.730	187.880	2771.12	18.34	-90.19	-5.14	2.04	
2868.00	14.250	190.960	2857.29	25.17	-112.16	-8.77	1.02	
2958.00	15.570	189.130	2944.26	32.50	-134.96	-12.79	1.56	
3047.00	15.590	188.450	3029.99	39.59	-158.58	-16.45	0.21	
3137.00	15.660	186.690	3116.66	46.28	-182.61	-19.64	0.53	
3227.00	14.880	187.340	3203.49	52.60	-206.13	-22.53	0.89	
3316.00	15.530	187.430	3289.37	58.97	-229.28	-25.53	0.73	
3406.00	15.660	187.420	3376.06	65.59	-253.27	-28.66	0.14	
3495.00	15.600	188.510	3461.77	72.37	-277.02	-31.98	0.34	
3585.00	15.930	187.630	3548.38	79.32	-301.23	-35.41	0.45	
3674.00	15.840	188.100	3633.98	86.17	-325.36	-38.74	0.18	
3764.00	15.440	185.440	3720.65	92.54	-349.45	-41.61	0.91	
3853.00	15.390	180.470	3806.45	97.22	-373.05	-42.83	1.48	
3943.00	15.410	178.270	3893.22	100.47	-396.95	-42.57	0.65	

### REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#09 KAWATA 32N-17B-M (1141'FNL & 2346'FEL SEC.16)
Area	COLORADO	Well	KAWATA 32N-17B-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	KAWATA 32N-17B-M AWB
Facility	SEC.16-T04N-R66W		

### WELLPATH DATA (165 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4032.00	15.170	174.430	3979.07	102.44	-420.36	-41.08	1.17	
4122.00	15.350	172.430	4065.90	103.22	-443.88	-38.37	0.62	
4213.00	15.070	179.870	4153.72	105.12	-467.66	-36.75	2.17	
4302.00	15.180	185.120	4239.64	109.53	-490.83	-37.77	1.54	
4392.00	15.350	186.870	4326.47	115.45	-514.40	-40.24	0.55	
4481.00	15.560	183.990	4412.25	121.13	-538.00	-42.48	0.89	
4571.00	15.680	183.710	4498.93	126.30	-562.18	-44.11	0.16	
4661.00	15.070	185.790	4585.71	131.74	-585.96	-46.08	0.91	
4751.00	15.380	186.550	4672.55	137.71	-609.45	-48.62	0.41	
4840.00	15.260	192.610	4758.39	144.97	-632.61	-52.52	1.80	
4929.00	15.210	194.310	4844.26	153.70	-655.35	-57.97	0.51	
5019.00	15.370	192.770	4931.08	162.59	-678.42	-63.52	0.48	
5108.00	15.450	190.980	5016.88	170.80	-701.56	-68.39	0.54	
5197.00	15.570	189.290	5102.64	178.39	-724.99	-72.57	0.53	
5287.00	15.540	189.740	5189.34	185.83	-748.79	-76.56	0.14	
5376.00	15.660	190.470	5275.06	193.45	-772.35	-80.76	0.26	
5465.00	15.710	191.880	5360.75	201.54	-795.96	-85.42	0.43	
5555.00	15.660	192.080	5447.40	210.03	-819.76	-90.48	0.08	
5644.00	15.700	191.940	5533.09	218.44	-843.29	-95.48	0.06	
5734.00	15.700	195.420	5619.73	227.61	-866.94	-101.24	1.05	
5823.00	15.770	199.860	5705.40	238.23	-889.92	-108.55	1.35	
5913.00	15.810	197.560	5792.00	249.40	-913.11	-116.40	0.70	
6002.00	15.750	191.270	5877.66	258.80	-936.52	-122.42	1.92	
6092.00	15.730	190.040	5964.28	266.79	-960.51	-126.93	0.37	
6181.00	15.880	187.590	6049.92	273.99	-984.46	-130.65	0.77	
6271.00	14.980	186.690	6136.67	280.43	-1008.22	-133.63	1.03	
6361.00	15.700	186.500	6223.47	286.61	-1031.87	-136.36	0.80	
6450.00	15.570	184.040	6309.17	292.30	-1055.75	-138.57	0.76	
6540.00	15.710	183.240	6395.84	297.38	-1079.97	-140.11	0.29	
6629.00	16.100	180.130	6481.44	301.67	-1104.34	-140.81	1.05	
6719.00	18.630	201.450	6567.41	310.71	-1130.23	-146.11	7.56	
6808.00	23.430	228.530	6650.66	332.70	-1155.25	-164.62	12.04	
6897.00	29.500	242.580	6730.37	368.33	-1177.10	-197.39	9.76	
6987.00	36.320	251.450	6805.93	415.61	-1195.82	-242.41	9.26	
7071.00	44.020	258.210	6870.10	469.34	-1209.72	-294.67	10.52	
7115.00	47.900	259.790	6900.68	500.94	-1215.74	-325.71	9.19	
7205.00	54.740	262.640	6956.90	571.14	-1226.38	-395.10	7.99	
7294.00	62.640	263.800	7003.11	647.08	-1235.32	-470.55	8.95	
7384.00	71.370	265.030	7038.24	729.74	-1243.34	-552.93	9.78	
7473.00	77.770	266.010	7061.91	815.28	-1250.03	-638.41	7.27	
7563.00	83.400	267.030	7076.62	903.70	-1255.41	-727.00	6.35	
7652.00	89.570	268.530	7082.08	991.96	-1258.85	-815.72	7.13	LANDING (2399' FNL & 2048'FWL,SEC.16)
7741.00	90.550	270.050	7081.99	1080.14	-1259.95	-904.71	2.03	
7831.00	90.550	271.900	7081.12	1168.92	-1258.42	-994.69	2.06	
7920.00	90.710	271.450	7080.14	1256.53	-1255.82	-1083.64	0.54	

## REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#09 KAWATA 32N-17B-M (1141'FNL & 2346'FEL SEC.16)
Area	COLORADO	Well	KAWATA 32N-17B-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	KAWATA 32N-17B-M AWB
Facility	SEC.16-T04N-R66W		

## WELLPATH DATA (165 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
8010.00	90.770	270.880	7078.98	1345.25	-1253.99	-1173.62	0.64	
8099.00	90.710	270.180	7077.83	1433.15	-1253.16	-1262.61	0.79	
8189.00	90.800	269.380	7076.65	1522.22	-1253.51	-1352.60	0.89	
8278.00	90.680	269.530	7075.50	1610.36	-1254.36	-1441.59	0.22	
8368.00	90.650	269.460	7074.45	1699.49	-1255.15	-1531.58	0.08	
8457.00	90.620	269.320	7073.47	1787.65	-1256.10	-1620.57	0.16	
8547.00	90.550	269.970	7072.55	1876.75	-1256.65	-1710.56	0.73	
8636.00	90.680	270.580	7071.59	1964.71	-1256.23	-1799.55	0.70	
8725.00	90.620	271.350	7070.58	2052.50	-1254.73	-1888.53	0.87	
8815.00	90.620	271.790	7069.61	2141.12	-1252.26	-1978.49	0.49	
8904.00	90.550	272.530	7068.70	2228.60	-1248.91	-2067.43	0.84	
8994.00	90.590	273.780	7067.80	2316.75	-1243.96	-2157.28	1.39	
9083.00	90.650	275.050	7066.84	2403.51	-1237.10	-2246.01	1.43	
9173.00	90.680	274.010	7065.80	2491.20	-1230.00	-2335.72	1.16	
9262.00	90.650	271.650	7064.76	2578.46	-1225.60	-2424.60	2.65	
9352.00	90.490	270.220	7063.87	2667.25	-1224.13	-2514.58	1.60	
9441.00	90.340	270.360	7063.22	2755.21	-1223.68	-2603.58	0.23	
9530.00	90.340	270.270	7062.69	2843.17	-1223.19	-2692.58	0.10	
9620.00	90.310	270.390	7062.18	2932.11	-1222.68	-2782.57	0.14	
9709.00	90.370	270.340	7061.66	3020.06	-1222.11	-2871.57	0.09	
9799.00	90.680	271.410	7060.83	3108.86	-1220.74	-2961.56	1.24	
9888.00	90.650	269.630	7059.80	3196.77	-1219.93	-3050.54	2.00	
9977.00	90.620	269.650	7058.81	3284.87	-1220.49	-3139.53	0.04	
10067.00	90.590	270.050	7057.86	3373.92	-1220.72	-3229.53	0.45	
10156.00	90.680	270.750	7056.88	3461.86	-1220.10	-3318.52	0.79	
10246.00	90.770	271.550	7055.74	3550.59	-1218.29	-3408.49	0.89	
10335.00	90.650	271.000	7054.63	3638.30	-1216.31	-3497.47	0.63	
10425.00	90.650	270.870	7053.61	3727.09	-1214.85	-3587.45	0.14	
10514.00	90.430	269.280	7052.77	3815.10	-1214.73	-3676.44	1.80	
10604.00	90.520	269.200	7052.03	3904.28	-1215.92	-3766.43	0.13	
10694.00	90.520	269.110	7051.21	3993.49	-1217.25	-3856.42	0.10	
10783.00	90.430	269.450	7050.47	4081.67	-1218.37	-3945.41	0.40	
10873.00	90.520	270.330	7049.73	4170.72	-1218.54	-4035.40	0.98	
10962.00	90.400	269.700	7049.01	4258.74	-1218.52	-4124.40	0.72	
11052.00	90.460	269.610	7048.34	4347.84	-1219.06	-4214.39	0.12	
11141.00	90.370	268.890	7047.69	4436.03	-1220.23	-4303.38	0.82	
11231.00	90.460	269.010	7047.04	4525.28	-1221.87	-4393.37	0.17	
11320.00	90.400	269.920	7046.37	4613.43	-1222.71	-4482.36	1.02	
11410.00	90.430	270.870	7045.72	4702.35	-1222.09	-4572.35	1.06	
11499.00	90.490	271.420	7045.01	4790.10	-1220.31	-4661.33	0.62	
11589.00	90.490	271.920	7044.24	4878.70	-1217.68	-4751.29	0.56	
11678.00	90.430	271.760	7043.52	4966.26	-1214.83	-4840.24	0.19	
11767.00	90.460	271.930	7042.83	5053.82	-1211.96	-4929.19	0.19	
11856.00	90.400	271.770	7042.16	5141.39	-1209.09	-5018.14	0.19	
11946.00	90.520	271.820	7041.44	5229.95	-1206.27	-5108.10	0.14	

### REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#09 KAWATA 32N-17B-M (1141'FNL & 2346'FEL SEC.16)
Area	COLORADO	Well	KAWATA 32N-17B-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	KAWATA 32N-17B-M AWB
Facility	SEC.16-T04N-R66W		

### WELLPATH DATA (165 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
12035.00	90.490	271.760	7040.66	5317.52	-1203.49	-5197.05	0.08	
12124.00	90.340	270.670	7040.01	5405.26	-1201.60	-5286.03	1.24	
12214.00	90.430	270.820	7039.41	5494.10	-1200.43	-5376.02	0.19	
12303.00	90.370	271.370	7038.78	5581.86	-1198.73	-5465.00	0.62	
12392.00	90.580	270.690	7038.05	5669.64	-1197.13	-5553.98	0.80	
12482.00	90.680	270.530	7037.06	5758.51	-1196.17	-5643.97	0.21	
12571.00	90.680	270.130	7036.00	5846.46	-1195.66	-5732.96	0.45	
12661.00	90.550	268.530	7035.03	5935.62	-1196.71	-5822.95	1.78	
12750.00	90.520	268.020	7034.20	6024.00	-1199.39	-5911.90	0.57	
12840.00	90.490	268.420	7033.41	6113.39	-1202.19	-6001.86	0.45	
12929.00	90.310	269.470	7032.79	6201.64	-1203.83	-6090.84	1.20	
13019.00	90.150	271.530	7032.43	6290.54	-1203.04	-6180.83	2.30	
13108.00	90.400	270.980	7032.00	6378.27	-1201.09	-6269.81	0.68	
13198.00	90.460	270.810	7031.33	6467.07	-1199.69	-6359.79	0.20	
13287.00	90.400	270.820	7030.66	6554.90	-1198.42	-6448.78	0.07	
13376.00	90.310	271.070	7030.11	6642.71	-1196.95	-6537.77	0.30	
13466.00	90.340	273.300	7029.60	6731.15	-1193.52	-6627.69	2.48	
13556.00	90.430	273.740	7028.99	6819.19	-1188.00	-6717.52	0.50	
13645.00	90.280	273.620	7028.44	6906.20	-1182.28	-6806.34	0.22	
13734.00	90.400	274.870	7027.91	6993.02	-1175.70	-6895.09	1.41	
13824.00	90.400	274.460	7027.28	7080.67	-1168.38	-6984.79	0.46	
13913.00	90.430	273.190	7026.64	7167.63	-1162.44	-7073.59	1.43	
14003.00	90.460	271.040	7025.94	7256.09	-1159.12	-7163.52	2.39	
14093.00	90.370	269.610	7025.29	7345.03	-1158.61	-7253.51	1.59	
14182.00	90.370	270.390	7024.71	7433.06	-1158.61	-7342.51	0.88	
14271.00	90.520	270.630	7024.02	7520.97	-1157.82	-7431.50	0.32	
14361.00	90.460	270.700	7023.25	7609.83	-1156.77	-7521.49	0.10	
14450.00	90.430	271.350	7022.56	7697.61	-1155.18	-7610.48	0.73	
14538.00	90.620	272.030	7021.75	7784.23	-1152.58	-7698.43	0.80	LAST MWD SURVEY (2409'FNL & 518'FWL, SEC.17)
14562.00	90.620	272.030	7021.49	7807.83	-1151.73	-7722.42	0.00	PROJ. TO BIT (2408'FNL & 494'FWL, SEC.17)

### HOLE & CASING SECTIONS - Ref Wellbore: KAWATA 32N-17B-M AWB Ref Wellpath: KAWATA 32N-17B-M 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]
20in Open Hole	25.00	101.00	76.00	25.00	101.00	0.00	0.00	-0.03	0.25
16in Conductor	25.00	101.00	76.00	25.00	101.00	0.00	0.00	-0.03	0.25
13.5in Open Hole	101.00	1764.00	1663.00	101.00	1763.93	-0.03	0.25	1.31	-1.84
9.625in Casing	25.00	1764.00	1739.00	25.00	1763.93	0.00	0.00	1.31	-1.84
8.5in Open Hole	1764.00	14562.00	12798.00	1763.93	7021.49	1.31	-1.84	-1151.73	-7722.42

## REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#09 KAWATA 32N-17B-M (1141'FNL & 2346'FEL SEC.16)
Area	COLORADO	Well	KAWATA 32N-17B-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	KAWATA 32N-17B-M AWB
Facility	SEC.16-T04N-R66W		

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.16-T04N-R66W	0.00	159.89	1.39	3200314.88	1358853.78	40°18'58.417"N	104°46'53.915"W	polygon
SEC.17-T04N-R66W	0.00	159.89	1.39	3200314.88	1358853.78	40°18'58.417"N	104°46'53.915"W	polygon
KAWATA 32N-17B-M BHL REV-2 (2402'FNL & 510'FWL SEC.17)	7021.17	-1145.66	-7706.58	3192618.08	1357485.89	40°18'45.504"N	104°48'33.415"W	point
KAWATA 32N-17B-M TOP OF PROD. REV-2 (2402'FNL & 2094'FWL SEC.16)	7081.38	-1262.01	-769.41	3199555.66	1357425.75	40°18'44.366"N	104°47'03.865"W	point
KAWATA 32N-17B-M BHL REV-1 (2402'FNL & 510'FWL SEC.17)	7083.00	-1145.66	-7706.58	3192618.08	1357485.89	40°18'45.504"N	104°48'33.415"W	circle
KAWATA 32N-17B-M TOP OF PROD. REV-1 (2402'FNL & 2094'FWL SEC.16)	7083.00	-1262.01	-769.41	3199555.66	1357425.75	40°18'44.366"N	104°47'03.865"W	circle

## WELLPATH COMPOSITION - Ref Wellbore: KAWATA 32N-17B-M AWB Ref Wellpath: KAWATA 32N-17B-M AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	1717.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)	BHI NAVITRAK MWD, APS EM, AXIAL 13 1/2"<196-1717>	KAWATA 32N-17B-M AWB
1717.00	14538.00	Custom BHI AutoTrak Curve (Short) (Rockies 0.03Gt model)	BHI ATC MWD SHORT ROCKIES GT <1838-14538>	KAWATA 32N-17B-M AWB
14538.00	14562.00	Blind Drilling (std)	Projection to bit	KAWATA 32N-17B-M AWB

## REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#09 KAWATA 32N-17B-M (1141'FNL & 2346'FEL SEC.16)
Area	COLORADO	Well	KAWATA 32N-17B-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	KAWATA 32N-17B-M AWB
Facility	SEC.16-T04N-R66W		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
7652.00	89.570	268.530	7082.08	LANDING (2399' FNL & 2048'FWL, SEC.16)
14538.00	90.620	272.030	7021.75	LAST MWD SURVEY (2409'FNL & 518'FWL, SEC.17)
14562.00	90.620	272.030	7021.49	PROJ. TO BIT (2408'FNL & 494'FWL, SEC.17)