

REFERENCE WELLPATH IDENTIFICATION			
Operator	BAYSWATER E&P, LLC	Well	RUBY EAST 2
Field	WELD COUNTY (NAD83/TRUE NORTH)	API	0512351740
Facility	SEC.07-T07N-R65W	Wellbore	RUBY EAST 2 AWB
Slot	SLOT#02 RUBY EAST 2 (2423'FNL & 2429'FWL,SEC.07)		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 6.0
North Reference	True	User	Painsetr
Scale	0.999974	Report Generated	1/19/2023 at 11:25:09 AM
Convergence at slot	0.51° East	Database	WellArchitectDB

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-15.30	0.00	3220207.03	1458921.35	40.5904350°	-104.7071020°
Facility Reference Pt			3220206.89	1458936.65	40.5904770°	-104.7071020°
Field Reference Pt			3174587.00	1430859.71	40.5144139°	-104.8720750°

WELLPATH DATUM			
Calculation method	Minimum curvature	Akita 518 (16') (KB) to Facility Vertical Datum	4939.00ft
Horizontal Reference Pt	Slot	Akita 518 (16') (KB) to Mean Sea Level	4939.00ft
Vertical Reference Pt	Akita 518 (16') (KB)	Akita 518 (16') (KB) to Ground Level at Slot (SLOT#02 RUBY EAST 2 (2423'FNL & 2429'FWL,SEC.07))	16.00ft
MD Reference Pt	Akita 518 (16') (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	91.74°

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WELLPATH DATA (209 stations) † = interpolated, ‡ = extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS ["/100ft]	Comments
0.00†	0.000	90.210	0.00	0.00	0.00	0.00	3220207.03	1458921.35	40.5904350	-104.7071020	0.00	
16.00	0.000	90.210	16.00	0.00	0.00	0.00	3220207.03	1458921.35	40.5904350	-104.7071020	0.00	
152.00	0.190	90.210	152.00	0.23	0.00	0.23	3220207.26	1458921.35	40.5904350	-104.7071012	0.14	FIRST BH SURFACE MWD SURVEY
241.00	0.370	203.080	241.00	0.27	-0.27	0.26	3220207.29	1458921.09	40.5904343	-104.7071011	0.54	
331.00	0.090	43.660	331.00	0.21	-0.48	0.20	3220207.23	1458920.87	40.5904337	-104.7071013	0.51	
510.00	1.280	327.240	509.98	-0.83	1.30	-0.79	3220206.23	1458922.65	40.5904386	-104.7071048	0.70	
600.00	2.990	308.330	599.92	-3.28	3.60	-3.18	3220203.82	1458924.93	40.5904449	-104.7071134	2.03	
690.00	4.890	323.410	689.70	-7.55	8.14	-7.30	3220199.66	1458929.43	40.5904573	-104.7071283	2.39	
779.00	6.520	326.410	778.26	-12.82	15.39	-12.36	3220194.53	1458936.64	40.5904773	-104.7071465	1.86	
869.00	8.860	322.900	867.45	-20.13	25.18	-19.37	3220187.44	1458946.36	40.5905041	-104.7071717	2.65	
959.00	10.460	315.260	956.17	-30.40	36.51	-29.30	3220177.40	1458957.60	40.5905352	-104.7072075	2.27	
1048.00	12.510	299.790	1043.40	-44.77	47.04	-43.36	3220163.25	1458968.01	40.5905641	-104.7072581	4.14	
1138.00	13.750	294.710	1131.05	-63.22	56.36	-61.54	3220145.00	1458977.16	40.5905897	-104.7073236	1.88	
1227.00	15.340	295.770	1217.20	-83.71	65.90	-81.75	3220124.70	1458986.52	40.5906159	-104.7073963	1.81	
1317.00	17.440	300.940	1303.54	-106.36	78.01	-104.04	3220102.30	1458998.43	40.5906491	-104.7074766	2.84	
1407.00	18.920	303.400	1389.05	-130.56	92.98	-127.79	3220078.42	1459013.18	40.5906902	-104.7075621	1.85	
1496.00	18.410	302.410	1473.37	-154.93	108.45	-151.70	3220054.37	1459028.44	40.5907327	-104.7076482	0.67	LAST BH SURFACE MWD SURVEY
1603.00	18.090	302.430	1574.98	-183.75	126.42	-179.99	3220025.93	1459046.15	40.5907820	-104.7077501	0.30	FIRST BH MWD SURVEY
1691.00	20.750	302.360	1657.97	-208.92	142.09	-204.69	3220001.08	1459061.60	40.5908250	-104.7078390	3.02	
1779.00	21.880	300.900	1739.95	-236.65	158.86	-231.93	3219973.70	1459078.12	40.5908710	-104.7079371	1.42	
1866.00	23.460	301.130	1820.22	-265.90	176.13	-260.67	3219944.81	1459095.15	40.5909185	-104.7080405	1.82	
1952.00	26.620	302.220	1898.13	-297.43	195.26	-291.63	3219913.68	1459113.99	40.5909710	-104.7081520	3.71	
2041.00	28.430	302.190	1977.05	-332.88	217.18	-326.43	3219878.68	1459135.60	40.5910311	-104.7082773	2.03	
2128.00	28.330	303.320	2053.60	-368.32	239.55	-361.20	3219843.71	1459157.66	40.5910925	-104.7084025	0.63	
2217.00	29.380	304.650	2131.55	-404.64	263.57	-396.81	3219807.89	1459181.35	40.5911584	-104.7085308	1.38	
2304.00	29.800	306.370	2207.20	-440.35	288.52	-431.77	3219772.71	1459205.99	40.5912269	-104.7086566	1.09	
2393.00	29.970	307.540	2284.37	-476.57	315.18	-467.21	3219737.04	1459232.34	40.5913001	-104.7087842	0.68	
2482.00	30.190	307.990	2361.38	-512.65	342.50	-502.47	3219701.53	1459259.34	40.5913751	-104.7089112	0.35	
2570.00	30.520	308.280	2437.32	-548.45	369.96	-537.45	3219666.31	1459286.48	40.5914505	-104.7090371	0.41	
2657.00	29.880	307.830	2512.51	-583.71	396.94	-571.91	3219631.61	1459313.15	40.5915245	-104.7091612	0.78	

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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2746.00	29.780	309.190	2589.72	-619.17	424.50	-606.55	3219596.73	1459340.40	40.5916002	-104.7092859	0.77	
2834.00	30.100	310.140	2665.98	-653.82	452.54	-640.36	3219562.67	1459368.13	40.5916771	-104.7094077	0.65	
2922.00	30.000	311.250	2742.15	-688.09	481.27	-673.77	3219529.01	1459396.56	40.5917560	-104.7095280	0.64	
3010.00	30.080	306.630	2818.34	-723.15	508.94	-708.01	3219494.52	1459423.92	40.5918319	-104.7096513	2.63	
3098.00	30.040	301.640	2894.52	-760.34	533.65	-744.47	3219457.84	1459448.31	40.5918997	-104.7097825	2.84	
3185.00	30.350	297.790	2969.72	-798.97	555.33	-782.45	3219419.66	1459469.64	40.5919592	-104.7099193	2.25	
3272.00	30.210	297.050	3044.85	-838.51	575.53	-821.39	3219380.55	1459489.50	40.5920147	-104.7100595	0.46	
3361.00	30.240	298.000	3121.75	-878.85	596.23	-861.12	3219340.64	1459509.84	40.5920715	-104.7102026	0.54	
3448.00	28.990	302.020	3197.39	-916.71	617.70	-898.35	3219303.22	1459530.98	40.5921304	-104.7103366	2.70	
3536.00	29.800	304.980	3274.07	-953.42	641.54	-934.35	3219267.01	1459554.50	40.5921959	-104.7104662	1.89	
3623.00	29.720	305.300	3349.59	-989.47	666.40	-969.66	3219231.48	1459579.04	40.5922641	-104.7105934	0.20	
3711.00	29.960	306.860	3425.93	-1025.62	692.18	-1005.04	3219195.87	1459604.50	40.5923349	-104.7107208	0.92	
3799.00	29.820	305.870	3502.22	-1061.71	718.19	-1040.36	3219160.32	1459630.19	40.5924062	-104.7108480	0.58	
3887.00	27.990	308.930	3579.26	-1096.27	743.99	-1074.15	3219126.30	1459655.68	40.5924770	-104.7109697	2.67	
3976.00	30.800	309.410	3656.79	-1130.96	771.58	-1108.01	3219092.19	1459682.97	40.5925528	-104.7110916	3.17	
4064.00	29.680	311.300	3732.82	-1165.59	800.27	-1141.79	3219058.16	1459711.36	40.5926315	-104.7112132	1.67	
4153.00	31.120	311.090	3809.58	-1200.36	829.93	-1175.68	3219024.01	1459740.71	40.5927129	-104.7113352	1.62	
4241.00	30.580	309.860	3885.13	-1235.56	859.22	-1210.00	3218989.43	1459769.69	40.5927933	-104.7114588	0.94	
4329.00	31.870	305.680	3960.39	-1272.45	887.12	-1246.06	3218953.12	1459797.27	40.5928699	-104.7115887	2.86	
4417.00	31.370	297.570	4035.36	-1312.36	911.28	-1285.25	3218913.72	1459821.08	40.5929362	-104.7117298	4.86	
4505.00	30.660	293.030	4110.79	-1353.89	930.66	-1326.21	3218872.59	1459840.10	40.5929894	-104.7118773	2.78	
4595.00	30.580	294.820	4188.24	-1396.33	949.25	-1368.11	3218830.53	1459858.31	40.5930404	-104.7120281	1.02	
4683.00	30.350	298.620	4264.10	-1436.76	969.30	-1407.95	3218790.51	1459878.00	40.5930954	-104.7121716	2.20	
4771.00	30.110	305.820	4340.16	-1474.89	992.87	-1445.37	3218752.88	1459901.24	40.5931601	-104.7123063	4.13	
4859.00	30.210	309.080	4416.25	-1510.78	1019.75	-1480.46	3218717.55	1459927.80	40.5932339	-104.7124327	1.86	
4944.00	30.250	306.790	4489.69	-1545.31	1046.06	-1514.21	3218683.57	1459953.80	40.5933061	-104.7125542	1.36	
5033.00	30.110	307.810	4566.63	-1581.71	1073.17	-1549.80	3218647.74	1459980.59	40.5933805	-104.7126824	0.60	
5120.00	29.660	306.740	4642.06	-1616.98	1099.42	-1584.29	3218613.02	1460006.54	40.5934526	-104.7128066	0.80	
5209.00	30.470	305.300	4719.09	-1653.82	1125.63	-1620.35	3218576.72	1460032.42	40.5935245	-104.7129364	1.22	
5297.00	30.660	304.390	4794.86	-1691.31	1151.20	-1657.08	3218539.77	1460057.66	40.5935947	-104.7130687	0.57	

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5386.00	30.280	307.360	4871.57	-1728.66	1177.64	-1693.64	3218502.97	1460083.77	40.5936672	-104.7132003	1.75	
5472.00	30.180	309.690	4945.88	-1763.33	1204.60	-1727.51	3218468.87	1460110.42	40.5937412	-104.7133223	1.37	
5560.00	29.590	310.640	5022.18	-1797.68	1232.88	-1761.02	3218435.11	1460138.40	40.5938188	-104.7134430	0.86	
5647.00	29.940	310.180	5097.70	-1831.41	1260.87	-1793.91	3218401.97	1460166.10	40.5938957	-104.7135614	0.48	
5734.00	30.200	311.720	5172.99	-1865.18	1289.44	-1826.83	3218368.80	1460194.38	40.5939741	-104.7136799	0.94	
5822.00	30.490	309.710	5248.94	-1899.74	1318.44	-1860.52	3218334.85	1460223.07	40.5940537	-104.7138013	1.20	
5909.00	29.600	308.820	5324.25	-1934.28	1346.01	-1894.24	3218300.88	1460250.33	40.5941293	-104.7139227	1.14	
5998.00	29.530	307.880	5401.66	-1969.53	1373.26	-1928.68	3218266.20	1460277.27	40.5942041	-104.7140467	0.53	
6086.00	28.790	306.010	5478.51	-2004.56	1399.03	-1962.94	3218231.71	1460302.74	40.5942749	-104.7141701	1.33	
6174.00	29.290	306.040	5555.44	-2039.86	1424.15	-1997.49	3218196.94	1460327.55	40.5943438	-104.7142945	0.57	
6263.00	29.930	305.270	5632.82	-2076.35	1449.78	-2033.22	3218160.99	1460352.86	40.5944141	-104.7144231	0.84	
6350.00	30.200	301.130	5708.13	-2113.51	1473.63	-2069.67	3218124.32	1460376.38	40.5944796	-104.7145544	2.40	
6439.00	29.980	300.000	5785.13	-2152.61	1496.32	-2108.09	3218085.70	1460398.73	40.5945419	-104.7146927	0.68	
6526.00	31.110	300.350	5860.06	-2191.48	1518.55	-2146.31	3218047.28	1460420.61	40.5946029	-104.7148304	1.31	
6615.00	29.290	301.320	5936.98	-2230.61	1541.48	-2184.76	3218008.64	1460443.20	40.5946658	-104.7149688	2.12	
6703.00	27.330	305.050	6014.45	-2266.22	1564.28	-2219.69	3217973.50	1460465.68	40.5947284	-104.7150946	3.00	
6791.00	28.660	307.410	6092.16	-2300.25	1588.70	-2252.99	3217939.99	1460489.80	40.5947954	-104.7152145	1.97	
6880.00	31.240	308.900	6169.27	-2335.99	1616.17	-2287.91	3217904.82	1460516.95	40.5948708	-104.7153403	3.02	
6968.00	30.750	308.090	6244.70	-2372.29	1644.37	-2323.38	3217869.11	1460544.84	40.5949482	-104.7154680	0.73	
7056.00	31.080	308.130	6320.20	-2408.70	1672.28	-2358.95	3217833.29	1460572.43	40.5950248	-104.7155961	0.38	
7144.00	31.140	305.620	6395.55	-2445.87	1699.56	-2395.32	3217796.68	1460599.38	40.5950996	-104.7157270	1.48	
7232.00	30.800	303.320	6471.00	-2483.96	1725.18	-2432.64	3217759.13	1460624.67	40.5951700	-104.7158615	1.40	
7321.00	30.900	307.300	6547.42	-2521.97	1751.55	-2469.86	3217721.67	1460650.70	40.5952423	-104.7159955	2.30	
7409.00	23.920	326.840	6625.65	-2550.65	1780.27	-2497.69	3217693.59	1460679.17	40.5953212	-104.7160957	12.85	
7497.00	17.440	352.180	6708.10	-2563.09	1808.36	-2509.27	3217681.76	1460707.15	40.5953982	-104.7161374	12.40	
7585.00	16.050	16.820	6792.47	-2562.11	1833.10	-2507.55	3217683.26	1460731.91	40.5954662	-104.7161312	8.16	
7673.00	19.800	49.940	6876.40	-2547.80	1854.40	-2492.58	3217698.04	1460753.34	40.5955246	-104.7160773	12.15	
7761.00	25.950	60.490	6957.47	-2520.19	1873.50	-2464.37	3217726.07	1460772.69	40.5955771	-104.7159758	8.37	
7849.00	32.040	67.440	7034.43	-2482.41	1891.96	-2426.01	3217764.26	1460791.50	40.5956277	-104.7158376	7.90	
7937.00	40.280	73.940	7105.44	-2433.95	1908.82	-2377.02	3217813.11	1460808.79	40.5956740	-104.7156612	10.32	

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8025.00	48.070	75.470	7168.51	-2375.35	1924.93	-2317.90	3217872.08	1460825.43	40.5957183	-104.7154484	8.93	
8112.00	56.130	76.100	7221.91	-2309.39	1941.75	-2251.40	3217938.42	1460842.85	40.5957645	-104.7152089	9.28	
8200.00	63.420	81.230	7266.20	-2235.38	1956.56	-2176.91	3218012.77	1460858.31	40.5958051	-104.7149407	9.69	
8289.00	71.390	87.860	7300.40	-2153.97	1964.22	-2095.23	3218094.38	1460866.71	40.5958262	-104.7146466	11.29	
8376.00	80.480	91.330	7321.52	-2069.74	1964.76	-2010.94	3218178.66	1460868.00	40.5958277	-104.7143431	11.14	
8420.00†	84.730	90.968	7327.19	-2026.12	1963.89	-1967.33	3218222.28	1460867.52	40.5958253	-104.7141860	9.69	CROSS SETBACK HEEL (517'FNL & 460'FWL,SEC.07)
8464.00	88.980	90.610	7329.60	-1982.20	1963.29	-1923.41	3218266.20	1460867.31	40.5958236	-104.7140279	9.69	
8553.00	89.110	91.710	7331.08	-1893.22	1961.48	-1834.44	3218355.18	1460866.30	40.5958187	-104.7137075	1.24	
8640.00	89.660	93.160	7332.02	-1806.23	1957.79	-1747.52	3218442.12	1460863.38	40.5958086	-104.7133945	1.78	
8729.00	89.720	92.370	7332.50	-1717.25	1953.50	-1658.63	3218531.05	1460859.89	40.5957968	-104.7130744	0.89	
8816.00	89.780	91.890	7332.88	-1630.25	1950.26	-1571.69	3218618.01	1460857.43	40.5957880	-104.7127614	0.56	
8904.00	89.970	91.040	7333.07	-1542.25	1948.01	-1483.72	3218705.99	1460855.97	40.5957818	-104.7124446	0.99	
8992.00	89.600	89.150	7333.40	-1454.29	1947.87	-1395.73	3218793.98	1460856.61	40.5957814	-104.7121278	2.19	
9080.00	90.120	88.890	7333.62	-1366.39	1949.37	-1307.74	3218881.95	1460858.90	40.5957856	-104.7118109	0.66	
9168.00	89.720	90.320	7333.74	-1278.46	1949.98	-1219.74	3218969.93	1460860.29	40.5957872	-104.7114941	1.69	
9255.00	89.850	91.250	7334.07	-1191.47	1948.79	-1132.75	3219056.93	1460859.88	40.5957840	-104.7111809	1.08	
9344.00	89.940	93.540	7334.23	-1102.48	1945.07	-1043.84	3219145.87	1460856.96	40.5957738	-104.7108607	2.58	
9431.00	90.250	93.150	7334.08	-1015.52	1939.99	-956.99	3219232.76	1460852.66	40.5957598	-104.7105479	0.57	
9520.00	90.340	93.580	7333.63	-926.55	1934.77	-868.14	3219321.65	1460848.23	40.5957455	-104.7102280	0.49	
9608.00	90.280	93.550	7333.15	-838.60	1929.30	-780.31	3219409.52	1460843.54	40.5957305	-104.7099118	0.08	
9697.00	90.430	93.030	7332.60	-749.63	1924.19	-691.46	3219498.41	1460839.23	40.5957165	-104.7095918	0.61	
9785.00	90.740	90.930	7331.70	-661.65	1921.15	-603.52	3219586.37	1460836.97	40.5957082	-104.7092752	2.41	
9873.00	90.490	88.970	7330.76	-573.70	1921.22	-515.53	3219674.35	1460837.84	40.5957084	-104.7089583	2.25	
9961.00	90.550	88.430	7329.96	-485.83	1923.22	-427.56	3219762.30	1460840.62	40.5957139	-104.7086416	0.62	
10049.00	90.120	90.910	7329.44	-397.89	1923.73	-339.57	3219850.28	1460841.91	40.5957153	-104.7083247	2.86	
10137.00	90.620	93.080	7328.87	-309.90	1920.66	-251.63	3219938.24	1460839.64	40.5957068	-104.7080081	2.53	
10225.00	90.370	93.090	7328.11	-221.93	1915.93	-163.76	3220026.15	1460835.69	40.5956939	-104.7076917	0.28	
10313.00	90.520	91.530	7327.43	-133.94	1912.38	-75.84	3220114.10	1460832.93	40.5956841	-104.7073751	1.78	
10402.00	89.880	90.440	7327.12	-44.95	1910.85	13.15	3220203.09	1460832.19	40.5956799	-104.7070547	1.42	
10489.00	90.280	89.890	7327.00	42.02	1910.60	100.15	3220290.09	1460832.72	40.5956792	-104.7067414	0.78	

REFERENCE WELLPATH IDENTIFICATION			
Operator	BAYSWATER E&P, LLC	Well	RUBY EAST 2
Field	WELD COUNTY (NAD83/TRUE NORTH)	API	0512351740
Facility	SEC.07-T07N-R65W	Wellbore	RUBY EAST 2 AWB
Slot	SLOT#02 RUBY EAST 2 (2423'FNL & 2429'FWL,SEC.07)		

WELLPATH DATA (209 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10577.00	90.180	91.500	7326.64	130.00	1909.53	188.14	3220378.08	1460832.44	40.5956763	-104.7064246	1.83	
10666.00	90.400	92.700	7326.19	219.00	1906.27	277.07	3220467.04	1460829.97	40.5956673	-104.7061043	1.37	
10754.00	90.340	93.330	7325.63	306.97	1901.64	364.95	3220554.95	1460826.13	40.5956546	-104.7057879	0.72	
10842.00	90.220	91.920	7325.20	394.96	1897.61	452.85	3220642.89	1460822.89	40.5956436	-104.7054714	1.61	
10931.00	90.250	92.020	7324.83	483.96	1894.55	541.80	3220731.85	1460820.62	40.5956352	-104.7051511	0.12	
11019.00	90.280	92.500	7324.42	571.95	1891.08	629.73	3220819.81	1460817.94	40.5956256	-104.7048345	0.55	
11108.00	90.340	91.970	7323.94	660.95	1887.61	718.66	3220908.77	1460815.27	40.5956161	-104.7045142	0.60	
11196.00	89.750	92.110	7323.87	748.95	1884.48	806.60	3220996.73	1460812.92	40.5956075	-104.7041976	0.69	
11285.00	90.340	91.980	7323.80	837.94	1881.31	895.55	3221085.70	1460810.54	40.5955988	-104.7038773	0.68	
11374.00	90.150	91.280	7323.42	926.94	1878.77	984.51	3221174.68	1460808.80	40.5955918	-104.7035570	0.81	
11463.00	89.940	91.520	7323.35	1015.94	1876.60	1073.48	3221263.66	1460807.42	40.5955858	-104.7032366	0.36	
11551.00	90.090	91.910	7323.33	1103.94	1873.97	1161.44	3221351.64	1460805.58	40.5955786	-104.7029199	0.47	
11639.00	90.580	92.200	7322.82	1191.94	1870.81	1249.39	3221439.60	1460803.21	40.5955699	-104.7026032	0.65	
11728.00	89.850	91.590	7322.48	1280.94	1867.87	1338.33	3221528.57	1460801.06	40.5955618	-104.7022829	1.07	
11816.00	89.660	91.300	7322.86	1368.93	1865.65	1426.31	3221616.56	1460799.63	40.5955557	-104.7019661	0.39	
11904.00	89.880	91.830	7323.21	1456.93	1863.24	1514.27	3221704.54	1460798.01	40.5955491	-104.7016494	0.65	
11992.00	89.940	91.610	7323.35	1544.93	1860.60	1602.23	3221792.52	1460796.16	40.5955419	-104.7013327	0.26	
12083.00	89.850	91.270	7323.52	1635.93	1858.32	1693.20	3221883.50	1460794.68	40.5955356	-104.7010051	0.39	
12171.00	90.400	91.660	7323.32	1723.93	1856.07	1781.17	3221971.49	1460793.22	40.5955294	-104.7006883	0.77	
12260.00	90.370	91.090	7322.73	1812.92	1853.93	1870.15	3222060.47	1460791.88	40.5955235	-104.7003679	0.64	
12348.00	89.170	91.390	7323.08	1900.92	1852.03	1958.12	3222148.46	1460790.76	40.5955182	-104.7000512	1.41	
12437.00	90.090	91.160	7323.65	1989.91	1850.05	2047.10	3222237.45	1460789.58	40.5955128	-104.6997308	1.07	
12525.00	90.520	91.220	7323.19	2077.91	1848.22	2135.08	3222325.44	1460788.54	40.5955077	-104.6994140	0.49	
12612.00	89.380	91.940	7323.26	2164.90	1845.82	2222.04	3222412.42	1460786.92	40.5955011	-104.6991008	1.55	
12700.00	90.060	91.250	7323.69	2252.90	1843.37	2310.01	3222500.40	1460785.25	40.5954944	-104.6987841	1.10	
12788.00	90.650	91.570	7323.15	2340.90	1841.21	2397.98	3222588.38	1460783.88	40.5954884	-104.6984673	0.76	
12876.00	90.770	90.950	7322.06	2428.89	1839.27	2485.95	3222676.37	1460782.73	40.5954831	-104.6981506	0.72	
12964.00	90.550	90.490	7321.04	2516.87	1838.17	2573.94	3222764.36	1460782.41	40.5954800	-104.6978337	0.58	
13053.00	90.680	90.360	7320.09	2605.84	1837.50	2662.93	3222853.35	1460782.54	40.5954782	-104.6975133	0.21	
13140.00	90.340	92.780	7319.31	2692.83	1835.12	2749.89	3222940.32	1460780.94	40.5954716	-104.6972002	2.81	

REFERENCE WELLPATH IDENTIFICATION			
Operator	BAYSWATER E&P, LLC	Well	RUBY EAST 2
Field	WELD COUNTY (NAD83/TRUE NORTH)	API	0512351740
Facility	SEC.07-T07N-R65W	Wellbore	RUBY EAST 2 AWB
Slot	SLOT#02 RUBY EAST 2 (2423'FNL & 2429'FWL,SEC.07)		

WELLPATH DATA (209 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
13228.00	90.550	92.530	7318.63	2780.81	1831.05	2837.79	3223028.26	1460777.65	40.5954604	-104.6968837	0.37	
13316.00	90.620	91.900	7317.73	2868.81	1827.64	2925.72	3223116.21	1460775.03	40.5954511	-104.6965670	0.72	
13405.00	90.520	89.280	7316.84	2957.78	1826.73	3014.70	3223205.19	1460774.91	40.5954485	-104.6962466	2.95	
13492.00	90.920	89.950	7315.75	3044.71	1827.31	3101.69	3223292.17	1460776.28	40.5954501	-104.6959334	0.90	
13580.00	90.220	90.060	7314.88	3132.66	1827.30	3189.69	3223380.16	1460777.05	40.5954500	-104.6956165	0.81	
13669.00	90.090	93.850	7314.63	3221.65	1824.27	3278.62	3223469.12	1460774.81	40.5954417	-104.6952963	4.26	
13758.00	90.400	93.530	7314.25	3310.59	1818.54	3367.43	3223557.98	1460769.88	40.5954259	-104.6949765	0.50	
13847.00	90.340	94.160	7313.68	3399.53	1812.57	3456.23	3223646.82	1460764.71	40.5954095	-104.6946568	0.71	
13936.00	90.180	93.300	7313.28	3488.48	1806.78	3545.04	3223735.68	1460759.71	40.5953936	-104.6943370	0.98	
14025.00	90.250	91.470	7312.94	3577.47	1803.08	3633.96	3223824.62	1460756.80	40.5953834	-104.6940168	2.06	
14113.00	90.310	92.180	7312.51	3665.46	1800.28	3721.91	3223912.59	1460754.79	40.5953756	-104.6937001	0.81	
14201.00	90.580	91.460	7311.83	3753.46	1797.48	3809.86	3224000.57	1460752.78	40.5953679	-104.6933834	0.87	
14289.00	90.550	91.360	7310.96	3841.46	1795.32	3897.83	3224088.55	1460751.40	40.5953620	-104.6930667	0.12	
14377.00	90.400	91.330	7310.23	3929.45	1793.25	3985.81	3224176.53	1460750.12	40.5953562	-104.6927499	0.17	
14465.00	90.090	91.000	7309.85	4017.45	1791.46	4073.79	3224264.52	1460749.12	40.5953513	-104.6924331	0.51	
14553.00	89.940	92.820	7309.83	4105.44	1788.53	4161.73	3224352.49	1460746.97	40.5953432	-104.6921164	2.08	
14640.00	90.340	93.020	7309.62	4192.42	1784.10	4248.62	3224439.41	1460743.32	40.5953310	-104.6918035	0.51	
14728.00	89.880	92.220	7309.45	4280.41	1780.08	4336.53	3224527.35	1460740.08	40.5953199	-104.6914870	1.05	
14816.00	90.150	92.550	7309.43	4368.40	1776.41	4424.45	3224615.30	1460737.21	40.5953098	-104.6911704	0.48	
14905.00	89.780	93.820	7309.48	4457.37	1771.47	4513.31	3224704.20	1460733.06	40.5952962	-104.6908504	1.49	
14993.00	89.780	91.960	7309.82	4545.35	1767.03	4601.19	3224792.12	1460729.41	40.5952840	-104.6905340	2.11	
15081.00	89.970	90.940	7310.01	4633.35	1764.81	4689.17	3224880.10	1460727.97	40.5952778	-104.6902172	1.18	
15169.00	90.220	90.800	7309.87	4721.34	1763.47	4777.15	3224968.10	1460727.42	40.5952741	-104.6899004	0.33	
15257.00	89.510	90.570	7310.07	4809.32	1762.42	4865.15	3225056.09	1460727.15	40.5952712	-104.6895836	0.85	
15346.00	90.280	90.630	7310.24	4898.31	1761.49	4954.14	3225145.09	1460727.02	40.5952686	-104.6892631	0.87	
15434.00	90.220	90.600	7309.85	4986.29	1760.54	5042.14	3225233.08	1460726.86	40.5952659	-104.6889463	0.08	
15522.00	90.590	90.610	7309.23	5074.27	1759.61	5130.13	3225321.08	1460726.72	40.5952633	-104.6886294	0.42	
15610.00	90.180	90.330	7308.64	5162.24	1758.89	5218.12	3225409.08	1460726.78	40.5952613	-104.6883126	0.56	
15699.00	90.370	91.010	7308.21	5251.23	1757.85	5307.12	3225498.07	1460726.54	40.5952584	-104.6879921	0.79	
15787.00	90.490	92.140	7307.55	5339.22	1755.43	5395.08	3225586.05	1460724.90	40.5952517	-104.6876754	1.29	

REFERENCE WELLPATH IDENTIFICATION				
Operator	BAYSWATER E&P, LLC		Well	RUBY EAST 2
Field	WELD COUNTY (NAD83/TRUE NORTH)		API	0512351740
Facility	SEC.07-T07N-R65W		Wellbore	RUBY EAST 2 AWB
Slot	SLOT#02 RUBY EAST 2 (2423'FNL & 2429'FWL,SEC.07)			

WELLPATH DATA (209 stations) † = interpolated, ‡ = extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS ["/100ft]	Comments
15873.00	90.430	91.460	7306.86	5425.22	1752.73	5481.03	3225672.02	1460722.97	40.5952442	-104.6873659	0.79	
15963.00	90.180	91.970	7306.38	5515.22	1750.04	5570.99	3225762.00	1460721.08	40.5952368	-104.6870420	0.63	
16051.00	90.550	92.220	7305.82	5603.21	1746.82	5658.93	3225849.96	1460718.65	40.5952279	-104.6867253	0.51	
16138.00	90.770	92.050	7304.82	5690.21	1743.58	5745.86	3225936.92	1460716.19	40.5952189	-104.6864123	0.32	
16227.00	90.520	92.310	7303.82	5779.20	1740.19	5834.79	3226025.87	1460713.60	40.5952096	-104.6860921	0.41	
16315.00	89.180	92.140	7303.44	5867.19	1736.78	5922.73	3226113.83	1460710.97	40.5952002	-104.6857754	0.65	
16402.00	90.030	91.760	7303.44	5954.19	1733.82	6009.68	3226200.80	1460708.79	40.5951920	-104.6854624	0.44	
16490.00	89.910	92.290	7303.49	6042.19	1730.71	6097.62	3226288.76	1460706.46	40.5951834	-104.6851457	0.62	
16578.00	90.430	92.200	7303.23	6130.19	1727.26	6185.55	3226376.72	1460703.80	40.5951739	-104.6848291	0.60	
16666.00	89.940	91.750	7302.94	6218.19	1724.23	6273.50	3226464.69	1460701.56	40.5951655	-104.6845124	0.76	
16755.00	89.690	91.820	7303.23	6307.18	1721.45	6362.46	3226553.66	1460699.58	40.5951578	-104.6841921	0.29	
16843.00	89.690	92.220	7303.70	6395.18	1718.35	6450.40	3226641.63	1460697.26	40.5951492	-104.6838754	0.45	
16931.00	89.660	92.460	7304.20	6483.18	1714.76	6538.32	3226729.58	1460694.46	40.5951393	-104.6835588	0.27	
17018.00	89.660	92.290	7304.72	6570.17	1711.15	6625.25	3226816.53	1460691.63	40.5951293	-104.6832458	0.20	
17104.00	89.940	91.890	7305.02	6656.17	1708.02	6711.19	3226902.50	1460689.26	40.5951207	-104.6829364	0.57	
17190.00	89.750	91.680	7305.25	6742.17	1705.34	6797.15	3226988.47	1460687.35	40.5951133	-104.6826269	0.33	
17277.00	89.720	91.830	7305.66	6829.17	1702.67	6884.11	3227075.45	1460685.47	40.5951059	-104.6823137	0.18	
17365.00	89.970	91.910	7305.89	6917.16	1699.80	6972.06	3227163.42	1460683.38	40.5950979	-104.6819970	0.30	
17453.00	89.690	92.150	7306.15	7005.16	1696.69	7060.00	3227251.39	1460681.05	40.5950893	-104.6816804	0.42	
17542.00	89.880	91.710	7306.49	7094.16	1693.69	7148.95	3227340.36	1460678.85	40.5950810	-104.6813601	0.54	
17629.00	90.060	92.820	7306.53	7181.16	1690.25	7235.88	3227427.31	1460676.19	40.5950715	-104.6810471	1.29	
17717.00	89.940	92.470	7306.53	7269.15	1686.19	7323.79	3227515.25	1460672.91	40.5950603	-104.6807306	0.42	
17805.00	90.150	91.420	7306.46	7357.14	1683.20	7411.74	3227603.22	1460670.71	40.5950520	-104.6804139	1.22	
17892.00	90.150	91.560	7306.24	7444.14	1680.94	7498.71	3227690.20	1460669.23	40.5950457	-104.6801007	0.16	
17980.00	90.000	94.320	7306.12	7532.11	1676.43	7586.58	3227778.11	1460665.50	40.5950333	-104.6797843	3.14	
18068.00	90.000	91.430	7306.12	7620.09	1672.01	7674.46	3227866.02	1460661.87	40.5950211	-104.6794679	3.28	
18156.00	89.940	92.540	7306.17	7708.09	1668.97	7762.41	3227953.99	1460659.61	40.5950126	-104.6791512	1.26	
18175.00	89.970	91.660	7306.18	7727.09	1668.27	7781.40	3227972.98	1460659.09	40.5950107	-104.6790828	4.63	LAST BH MWD SURVEY
18200.00	†	89.970	91.660	7306.20	7752.09	1667.55	7806.38	3227997.98	40.5950087	-104.6789929	0.00	PROJECTION TO BIT (516'FNL & 470'FWL,SEC.08)

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.07-T07N-R65W	-2.00	15.30	0.00	3220206.89	1458936.65	40.5904770	-104.7071020	polygon
	2D Polygon: dimensions not calculated							
SEC.07/08-T07N-R65W (SB 460')	-2.00	15.30	0.00	3220206.89	1458936.65	40.5904770	-104.7071020	polygon
	2D Polygon: dimensions not calculated							
SEC.08-T07N-R65W	-2.00	15.30	0.00	3220206.89	1458936.65	40.5904770	-104.7071020	polygon
	2D Polygon: dimensions not calculated							
RUBY EAST 2 BHL REV-2(500'FNL & 470'FWL,SEC.08)	7304.00	1684.42	7806.06	3227997.50	1460675.45	40.5950550	-104.6789940	point
RUBY EAST 2 LP REV-2(500'FNL & 470'FWL,SEC.07)	7329.00	1981.27	-1957.05	3218232.40	1460884.99	40.5958730	-104.7141490	point

WELLPATH COMPOSITION - Ref Wellbore: RUBY EAST 2 AWB Ref Wellpath: RUBY EAST 2 AWP					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
16.00	1496.00	OWSG MWD rev2 + IFR1	OWSG MWD rev2 + IFR1 13-1/2" <152 - 1496>	RUBY EAST 2 AWB	8/4/2022
1496.00	18200.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	OWSG MWD rev2 + IFR1 + MS 8-1/2" <1603 - 18175>	RUBY EAST 2 AWB	9/23/2022

REFERENCE WELLPATH IDENTIFICATION			
Operator	BAYSWATER E&P, LLC	Well	RUBY EAST 2
Field	WELD COUNTY (NAD83/TRUE NORTH)	API	0512351740
Facility	SEC.07-T07N-R65W	Wellbore	RUBY EAST 2 AWB
Slot	SLOT#02 RUBY EAST 2 (2423'FNL & 2429'FWL,SEC.07)		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
152.00	0.190	90.210	152.00	FIRST BH SURFACE MWD SURVEY
1496.00	18.410	302.410	1473.37	LAST BH SURFACE MWD SURVEY
1603.00	18.090	302.430	1574.98	FIRST BH MWD SURVEY
8420.00	84.730	90.968	7327.19	CROSS SETBACK HEEL (517'FNL & 460'FWL,SEC.07)
18175.00	89.970	91.660	7306.18	LAST BH MWD SURVEY
18200.00	89.970	91.660	7306.20	PROJECTION TO BIT (516'FNL & 470'FEL,SEC.08)