

Location:	COLORADO	Slot:	SLOT#02 TROUDT #2 (537'FSL & 979'FEL, SEC.32)
Field:	WELD COUNTY (NAD83/TRUE NORTH)	Well:	TROUDT #2
Facility:	SEC.32-T02N-R67W	Wellbore:	TROUDT #2 PWB

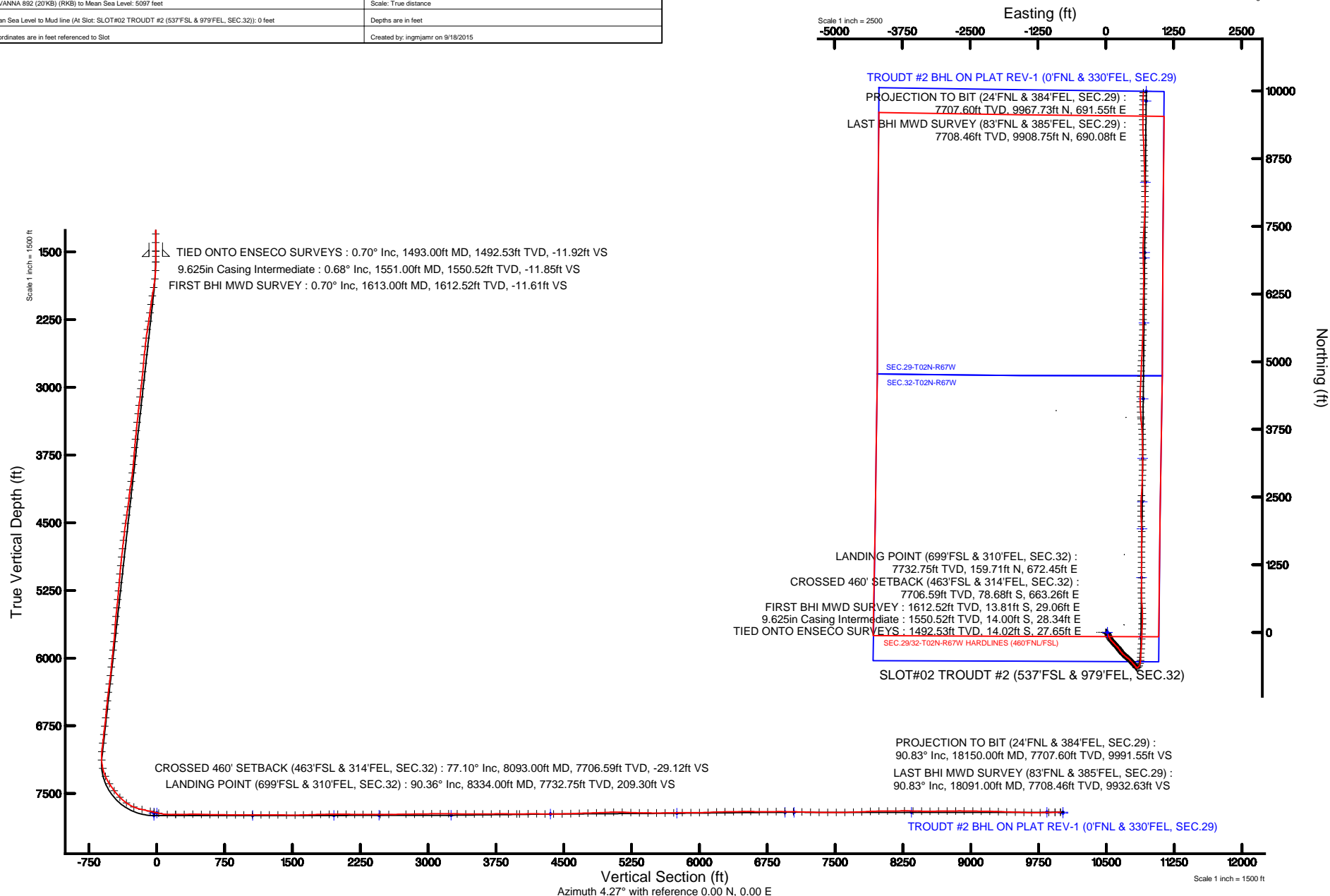
Location:	COLORADO	Slot:	SLOT#02 TROUDT #2 (537'FSL & 979'FEL, SEC.32)
Field:	WELD COUNTY (NAD83/TRUE NORTH)	Well:	TROUDT #2
Facility:	SEC.32-T02N-R67W	Wellbore:	TROUDT #2 PWB

True vertical depths are referenced to SAVANNA 892 (20'KB) (RKB)	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
Measured depths are referenced to SAVANNA 892 (20'KB) (RKB)	North Reference: True north
SAVANNA 892 (20'KB) (RKB) to Mean Sea Level: 5097 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#02 TROUDT #2 (53'FSL & 97'FEL, SEC 32)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: ingmjamr on 9/18/2015



BGGM (1945.0 to 2017.0) Dip: 66.69° Field: 52422.5 nT
Magnetic North is 8.60 degrees East of True North (at 9/3/2015)

To correct azimuth from Magnetic to True add 8.60 degrees





Actual Wellpath Report

TROUDT #2 AWP

Page 1 of 12



REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#02 TROUDT #2 (537'FSL & 979'FEL, SEC.32)
Area	COLORADO	Well	TROUDT #2
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	TROUDT #2 AWB
Facility	SEC.32-T02N-R67W		

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	0.999961	Report Generated	9/18/2015 at 7:57:05 AM
Convergence at slot	0.38° East	Database/Source file	WA_DEN_Denver_Defn/TROUDT_#2_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.40	-27.98	3165405.07	1275842.41	40°05'20.634"N	104°54'31.734"W
Facility Reference Pt			3165433.05	1275842.19	40°05'20.630"N	104°54'31.374"W
Field Reference Pt			3185481.27	1419166.81	40°28'55.560"N	104°49'59.556"W

WELLPATH DATUM

Calculation method	Minimum curvature	SAVANNA 892 (20'KB) (RKB) to Facility Vertical Datum	5097.00ft
Horizontal Reference Pt	Slot	SAVANNA 892 (20'KB) (RKB) to Mean Sea Level	5097.00ft
Vertical Reference Pt	SAVANNA 892 (20'KB) (RKB)	SAVANNA 892 (20'KB) (RKB) to Mud Line at Slot (SLOT#02 TROUDT #2 (537'FSL & 979'FEL, SEC.32))	5097.00ft
MD Reference Pt	SAVANNA 892 (20'KB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	4.27°



Actual Wellpath Report

TROUDT #2 AWP

Page 2 of 12



REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#02 TROUDT #2 (537'FSL & 979'FEL, SEC.32)
Area	COLORADO	Well	TROUDT #2
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	TROUDT #2 AWB
Facility	SEC.32-T02N-R67W		

WELLPATH DATA (178 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
1493.00	0.700	94.500	1492.53	-11.92	-14.02	27.65	0.13	TIED ONTO ENSECO SURVEYS
1613.00	0.700	68.750	1612.52	-11.61	-13.81	29.06	0.26	FIRST BHI MWD SURVEY
1707.00	3.330	145.320	1706.46	-13.48	-15.85	31.15	3.45	
1801.00	6.880	152.490	1800.07	-20.40	-23.09	35.30	3.83	
1896.00	10.920	157.410	1893.91	-33.27	-36.45	41.39	4.32	
1991.00	9.970	157.750	1987.34	-48.65	-52.37	47.96	1.00	
2086.00	8.920	159.950	2081.05	-62.72	-66.90	53.60	1.17	
2180.00	7.730	158.740	2174.06	-75.07	-79.64	58.39	1.28	
2274.00	11.050	152.930	2266.79	-88.47	-93.55	64.79	3.67	
2369.00	9.820	151.050	2360.21	-103.03	-108.75	72.85	1.34	
2464.00	8.710	151.170	2453.97	-115.83	-122.14	80.24	1.17	
2558.00	7.720	149.590	2547.01	-126.99	-133.82	86.87	1.08	
2653.00	9.380	134.190	2640.96	-137.20	-144.72	95.65	2.96	
2748.00	8.090	133.210	2734.86	-146.38	-154.69	106.08	1.37	
2842.00	7.010	136.560	2828.04	-154.39	-163.39	114.84	1.24	
2937.00	10.190	137.950	2921.96	-164.10	-173.84	124.46	3.35	
3031.00	8.840	139.100	3014.66	-174.94	-185.47	134.76	1.45	
3125.00	7.510	141.120	3107.71	-184.51	-195.72	143.34	1.45	
3219.00	11.200	136.320	3200.44	-195.11	-207.10	153.51	4.01	
3313.00	9.400	137.470	3292.92	-206.48	-219.36	165.00	1.93	
3408.00	8.230	140.670	3386.80	-216.72	-230.34	174.55	1.33	
3502.00	6.850	142.450	3479.99	-225.77	-239.99	182.24	1.49	
3597.00	9.860	130.510	3573.97	-234.80	-249.77	191.88	3.64	
3692.00	8.330	130.980	3667.78	-243.73	-259.57	203.26	1.61	
3786.00	6.190	126.540	3761.02	-250.50	-267.05	212.47	2.35	
3880.00	9.200	140.320	3854.17	-258.62	-275.85	221.34	3.73	
3975.00	7.780	145.870	3948.13	-269.13	-287.02	229.80	1.72	
4070.00	11.550	147.140	4041.76	-281.76	-300.34	238.57	3.97	
4164.00	9.640	143.190	4134.16	-295.20	-314.55	248.39	2.17	
4260.00	8.210	148.750	4228.99	-306.83	-326.84	256.76	1.74	



Actual Wellpath Report

TROUDT #2 AWP

Page 3 of 12



REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#02 TROUDT #2 (537'FSL & 979'FEL, SEC.32)
Area	COLORADO	Well	TROUDT #2
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	TROUDT #2 AWB
Facility	SEC.32-T02N-R67W		

WELLPATH DATA (178 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4354.00	10.360	141.420	4321.76	-318.50	-339.19	265.52	2.61	
4449.00	10.100	147.560	4415.25	-331.44	-352.90	275.31	1.18	
4544.00	12.110	135.180	4508.48	-344.65	-367.00	286.81	3.27	
4639.00	9.520	139.540	4601.79	-356.76	-380.05	298.93	2.86	
4733.00	8.120	143.860	4694.68	-367.33	-391.32	307.89	1.65	
4828.00	11.240	130.570	4788.32	-377.93	-402.77	318.89	4.02	
4922.00	10.460	129.730	4880.64	-388.30	-414.18	332.41	0.85	
5018.00	9.160	131.720	4975.24	-398.01	-424.84	344.82	1.40	
5113.00	7.400	133.510	5069.24	-406.48	-434.08	354.90	1.87	
5208.00	9.250	127.840	5163.24	-414.57	-442.98	365.36	2.13	
5303.00	9.910	126.410	5256.91	-423.14	-452.51	377.97	0.74	
5398.00	8.280	129.420	5350.72	-431.43	-461.71	389.84	1.79	
5493.00	12.020	128.870	5444.21	-440.99	-472.26	402.83	3.94	
5588.00	9.200	128.960	5537.58	-450.93	-483.25	416.44	2.97	
5682.00	6.970	133.310	5630.64	-458.80	-491.89	426.43	2.46	
5777.00	5.280	133.510	5725.09	-465.20	-498.85	433.80	1.78	
5872.00	9.370	140.350	5819.30	-473.54	-507.82	441.91	4.39	
5966.00	7.270	138.460	5912.31	-483.20	-518.16	450.73	2.25	
6061.00	10.520	132.760	6006.15	-492.79	-528.55	461.09	3.54	
6155.00	7.850	131.550	6098.94	-502.02	-538.64	472.20	2.85	
6250.00	10.930	139.980	6192.66	-512.40	-549.84	482.85	3.54	
6345.00	8.390	142.280	6286.31	-524.00	-562.23	492.88	2.70	
6439.00	11.100	141.380	6378.94	-535.73	-574.72	502.73	2.89	
6534.00	7.140	130.140	6472.73	-545.90	-585.68	512.95	4.55	
6629.00	10.040	141.460	6566.66	-555.43	-595.96	522.63	3.52	
6724.00	7.020	133.780	6660.60	-565.21	-606.46	531.98	3.39	
6818.00	9.660	146.060	6753.61	-575.06	-616.98	540.53	3.37	
6913.00	7.910	139.610	6847.49	-585.98	-628.57	549.22	2.11	
7007.00	9.230	148.150	6940.44	-596.67	-639.90	557.39	1.95	
7103.00	7.060	139.440	7035.47	-607.07	-650.93	565.29	2.59	



Actual Wellpath Report

TROUDT #2 AWP

Page 4 of 12



REFERENCE WELLPATH IDENTIFICATION

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Area	COLORADO	Well	TROUDT #2
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	TROUDT #2 AWB
Facility	SEC.32-T02N-R67W		

WELLPATH DATA (178 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
7197.00	9.330	79.380	7128.66	-609.22	-653.92	576.56	8.95	
7292.00	17.940	48.510	7221.01	-596.72	-642.77	595.14	11.57	
7387.00	25.550	29.990	7309.28	-567.70	-615.26	616.40	10.70	
7482.00	33.110	12.390	7392.20	-523.42	-572.03	632.26	12.00	
7576.00	37.030	3.770	7469.17	-469.64	-518.66	639.63	6.71	
7671.00	43.900	2.010	7541.40	-408.05	-457.12	642.67	7.33	
7766.00	54.370	3.800	7603.47	-336.33	-385.48	646.40	11.11	
7861.00	67.240	4.700	7649.72	-253.57	-302.96	652.57	13.57	
7955.00	78.430	2.210	7677.42	-163.92	-213.45	657.92	12.17	
8050.00	77.580	2.370	7697.16	-71.05	-120.60	661.63	0.91	
8093.00†	77.095	2.076	7706.59	-29.12	-78.68	663.26	1.31	CROSSED 460' SETBACK (463'FSL & 314'FEL, SEC.32)
8145.00	76.510	1.720	7718.46	21.46	-28.08	664.93	1.31	
8240.00	87.900	2.780	7731.32	115.37	65.81	668.64	12.04	
8334.00	90.360	1.870	7732.75	209.30	159.71	672.45	2.79	LANDING POINT (699'FSL & 310'FEL, SEC.32)
8429.00	91.170	1.150	7731.48	304.18	254.67	674.95	1.14	
8524.00	90.430	359.260	7730.16	398.92	349.66	675.29	2.14	
8619.00	88.520	356.010	7731.03	493.27	444.55	671.37	3.97	
8714.00	88.790	355.420	7733.26	587.18	539.26	664.28	0.68	
8808.00	89.160	358.520	7734.94	680.40	633.10	659.31	3.32	
8903.00	89.960	358.390	7735.67	774.90	728.07	656.75	0.85	
8998.00	89.720	0.940	7735.93	869.59	823.06	656.19	2.70	
9091.00	90.000	0.980	7736.16	962.43	916.04	657.75	0.30	
9185.00	89.810	0.640	7736.32	1056.26	1010.03	659.08	0.41	
9280.00	90.030	0.340	7736.45	1151.06	1105.03	659.89	0.39	
9375.00	89.840	359.460	7736.56	1245.78	1200.03	659.73	0.95	
9469.00	89.560	359.240	7737.05	1339.43	1294.02	658.66	0.38	
9564.00	88.580	358.700	7738.59	1434.01	1388.99	656.95	1.18	
9659.00	90.860	0.950	7739.06	1528.71	1483.98	656.66	3.37	
9753.00	91.560	1.360	7737.07	1622.55	1577.94	658.56	0.86	
9848.00	91.750	1.380	7734.33	1717.39	1672.87	660.83	0.20	



Actual Wellpath Report

TROUDT #2 AWP

Page 5 of 12



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Area	COLORADO	Well	TROUDT #2
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	TROUDT #2 AWP
Facility	SEC.32-T02N-R67W		

WELLPATH DATA (178 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
9943.00	91.200	0.210	7731.88	1812.19	1767.83	662.14	1.36	
10038.00	90.360	358.680	7730.59	1906.84	1862.81	661.22	1.84	
10132.00	90.240	358.170	7730.10	2000.35	1956.77	658.64	0.56	
10226.00	89.560	357.580	7730.26	2093.76	2050.71	655.15	0.96	
10321.00	89.350	357.090	7731.16	2188.06	2145.60	650.74	0.56	
10415.00	89.530	0.220	7732.08	2281.60	2239.56	648.53	3.34	
10510.00	89.470	0.400	7732.91	2376.37	2334.55	649.05	0.20	
10605.00	90.610	3.180	7732.84	2471.27	2429.50	652.01	3.16	
10700.00	90.760	3.090	7731.71	2566.24	2524.35	657.21	0.18	
10889.00	90.730	2.950	7729.25	2755.18	2713.07	667.16	0.08	
10984.00	90.800	2.130	7727.98	2850.13	2807.97	671.37	0.87	
11078.00	90.860	1.490	7726.62	2944.03	2901.91	674.34	0.68	
11173.00	90.770	1.360	7725.27	3038.91	2996.87	676.71	0.17	
11268.00	90.950	1.500	7723.84	3133.78	3091.83	679.08	0.24	
11362.00	88.920	359.850	7723.95	3227.59	3185.81	680.18	2.78	
11457.00	89.220	359.360	7725.49	3322.26	3280.80	679.53	0.60	
11551.00	89.230	358.970	7726.76	3415.88	3374.78	678.16	0.41	
11646.00	89.840	358.470	7727.54	3510.43	3469.75	676.04	0.83	
11741.00	90.430	358.570	7727.31	3604.95	3564.72	673.58	0.63	
11836.00	91.040	357.470	7726.09	3699.38	3659.65	670.30	1.32	
11930.00	90.760	356.900	7724.62	3792.65	3753.53	665.68	0.68	
12026.00	87.930	354.130	7725.71	3887.51	3849.21	658.18	4.12	
12121.00	89.780	355.570	7727.61	3981.20	3943.80	649.66	2.47	
12152.00	91.260	356.620	7727.33	4011.88	3974.73	647.54	5.85	
12247.00	91.200	357.070	7725.29	4106.07	4069.56	642.32	0.48	
12341.00	88.920	356.060	7725.19	4199.21	4163.38	636.69	2.65	
12436.00	89.750	359.010	7726.30	4293.54	4258.28	632.60	3.23	
12531.00	89.930	1.370	7726.56	4388.29	4353.27	632.92	2.49	
12626.00	91.010	2.490	7725.78	4483.21	4448.21	636.11	1.64	
12721.00	91.810	2.480	7723.44	4578.13	4543.09	640.23	0.84	



Actual Wellpath Report

TROUDT #2 AWP

Page 6 of 12



REFERENCE WELLPATH IDENTIFICATION

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Area	COLORADO	Well	TROUDT #2
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	TROUDT #2 AWP
Facility	SEC.32-T02N-R67W		

WELLPATH DATA (178 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
12815.00	92.640	2.460	7719.80	4672.01	4636.93	644.28	0.88	
12911.00	91.170	2.610	7716.60	4767.91	4732.78	648.52	1.54	
13006.00	91.780	2.270	7714.16	4862.83	4827.66	652.57	0.74	
13101.00	92.700	1.920	7710.45	4957.69	4922.53	656.04	1.04	
13196.00	91.350	3.210	7707.09	5052.59	5017.37	660.29	1.96	
13291.00	87.900	2.870	7707.71	5147.55	5112.22	665.32	3.65	
13385.00	88.120	1.950	7710.97	5241.44	5206.08	669.27	1.01	
13480.00	88.360	2.660	7713.89	5336.34	5300.96	673.09	0.79	
13575.00	89.720	2.880	7715.48	5431.29	5395.83	677.68	1.45	
13670.00	89.900	1.640	7715.80	5526.23	5490.75	681.43	1.32	
13765.00	90.360	0.300	7715.58	5621.07	5585.74	683.04	1.49	
13860.00	91.690	0.450	7713.88	5715.83	5680.72	683.66	1.41	
13955.00	89.810	1.460	7712.64	5810.66	5775.69	685.24	2.25	
14050.00	90.180	0.780	7712.65	5905.52	5870.67	687.10	0.81	
14144.00	90.890	1.190	7711.77	5999.36	5964.65	688.72	0.87	
14239.00	91.910	1.430	7709.45	6094.20	6059.60	690.89	1.10	
14334.00	92.890	1.190	7705.47	6188.99	6154.49	693.06	1.06	
14428.00	90.210	0.990	7702.93	6282.80	6248.43	694.84	2.86	
14523.00	90.610	0.490	7702.25	6377.62	6343.42	696.07	0.67	
14618.00	91.470	1.120	7700.53	6472.43	6438.39	697.41	1.12	
14713.00	89.010	359.850	7700.13	6567.21	6533.38	698.21	2.91	
14807.00	89.560	359.260	7701.30	6660.89	6627.37	697.48	0.86	
14902.00	90.300	358.040	7701.42	6755.43	6722.34	695.24	1.50	
14997.00	90.670	358.100	7700.61	6849.87	6817.28	692.04	0.39	
15092.00	88.920	359.250	7700.95	6944.41	6912.25	689.85	2.20	
15186.00	89.440	359.020	7702.30	7038.03	7006.23	688.43	0.60	
15281.00	87.620	0.980	7704.73	7132.72	7101.19	688.43	2.81	
15376.00	89.230	1.190	7707.35	7227.54	7196.13	690.22	1.71	
15471.00	89.100	3.650	7708.73	7322.47	7291.03	694.23	2.59	
15566.00	89.440	3.580	7709.94	7417.46	7385.83	700.22	0.37	



Actual Wellpath Report

TROUDT #2 AWP

Page 7 of 12



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Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	TROUDT #2 AWP
Facility	SEC.32-T02N-R67W		

WELLPATH DATA (178 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
15661.00	90.330	3.560	7710.13	7512.45	7480.65	706.14	0.94	
15756.00	91.260	2.920	7708.81	7607.42	7575.49	711.51	1.19	
15851.00	91.750	2.310	7706.32	7702.35	7670.35	715.84	0.82	
15944.00	92.520	1.810	7702.85	7795.22	7763.23	719.18	0.99	
16039.00	93.200	1.080	7698.11	7889.98	7858.08	721.57	1.05	
16134.00	90.490	0.800	7695.06	7984.76	7953.01	723.13	2.87	
16229.00	90.090	358.950	7694.57	8079.48	8048.00	722.92	1.99	
16323.00	90.920	359.130	7693.75	8173.08	8141.98	721.35	0.90	
16418.00	90.360	358.990	7692.68	8267.69	8236.96	719.79	0.61	
16513.00	88.460	359.430	7693.66	8362.31	8331.95	718.48	2.05	
16608.00	89.100	358.720	7695.69	8456.89	8426.91	716.95	1.01	
16702.00	90.180	358.240	7696.28	8550.41	8520.87	714.45	1.26	
16797.00	91.070	358.060	7695.24	8644.87	8615.82	711.39	0.96	
16891.00	89.930	358.270	7694.42	8738.33	8709.76	708.38	1.23	
16986.00	91.200	358.190	7693.48	8832.79	8804.71	705.44	1.34	
17081.00	88.860	358.760	7693.43	8927.30	8899.67	702.92	2.54	
17177.00	89.350	357.960	7694.93	9022.78	8995.62	700.17	0.98	
17271.00	89.380	356.360	7695.97	9116.05	9089.50	695.51	1.70	
17366.00	88.890	356.920	7697.41	9210.20	9184.32	689.94	0.78	
17461.00	87.350	357.250	7700.53	9304.40	9279.14	685.12	1.66	
17555.00	88.390	359.040	7704.02	9397.79	9373.02	682.08	2.20	
17650.00	88.610	0.290	7706.51	9492.45	9467.99	681.52	1.34	
17745.00	87.410	359.950	7709.80	9587.14	9562.93	681.72	1.31	
17830.00	89.870	0.950	7711.82	9671.93	9647.89	682.39	3.12	
17925.00	90.980	2.310	7711.12	9766.82	9742.85	685.09	1.85	
18020.00	90.920	1.520	7709.54	9861.72	9837.78	688.26	0.83	
18091.00	90.830	1.420	7708.46	9932.63	9908.75	690.08	0.19	LAST BHI MWD SURVEY (83'FNL & 385'FEL, SEC.29)
18150.00	90.830	1.420	7707.60	9991.55	9967.73	691.55	0.00	PROJECTION TO BIT (24'FNL & 384'FEL, SEC.29)



Actual Wellpath Report

TROUDT #2 AWP

Page 8 of 12



REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#02 TROUDT #2 (537'FSL & 979'FEL, SEC.32)
Area	COLORADO	Well	TROUDT #2
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	TROUDT #2 AWB
Facility	SEC.32-T02N-R67W		

HOLE & CASING SECTIONS - Ref Wellbore: TROUDT #2 AWB Ref Wellpath: TROUDT #2 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]
9.625in Casing Intermediate	20.00	1551.00	1531.00	20.00	1550.52	0.00	0.00	-14.00	28.34
7.875in Open Hole	1551.00	18155.00	16604.00	1550.52	N/A	-14.00	28.34	N/A	N/A
5.5in Casing Production	20.00	18155.00	18135.00	20.00	N/A	0.00	0.00	N/A	N/A



Actual Wellpath Report

TROUDT #2 AWP

Page 9 of 12



REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#02 TROUDT #2 (537'FSL & 979'FEL, SEC.32)
Area	COLORADO	Well	TROUDT #2
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	TROUDT #2 AWP
Facility	SEC.32-T02N-R67W		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.29-T02N-R67W	6.00	-0.40	27.98	3165433.05	1275842.19	40°05'20.630"N	104°54'31.374"W	polygon
SEC.32-T02N-R67W	6.00	-0.40	27.98	3165433.05	1275842.19	40°05'20.630"N	104°54'31.374"W	polygon
TROUDT #2 BHL ON PLAT REV-1 (0'FNL & 330'FEL, SEC.29)	7708.00	9991.84	745.36	3166083.77	1285838.58	40°06'59.375"N	104°54'22.140"W	point
TROUDT #2 TARGET 10	7708.00	8313.52	729.10	3166078.70	1284160.26	40°06'42.789"N	104°54'22.350"W	point
TROUDT #2 TARGET 11	7708.00	9813.45	743.64	3166083.24	1285660.19	40°06'57.612"N	104°54'22.162"W	point
TROUDT #2 TARGET 8	7708.00	6913.58	715.53	3166074.47	1282760.32	40°06'28.955"N	104°54'22.525"W	point
TROUDT #2 TARGET 9	7708.00	7013.58	716.49	3166074.76	1282860.32	40°06'29.943"N	104°54'22.513"W	point
SEC.29/32-T02N-R67W HARDLINES (460'FNL/FSL)	7716.00	-0.40	27.98	3165433.05	1275842.19	40°05'20.630"N	104°54'31.374"W	polygon
TROUDT #2 BHL ON PLAT (0'FNL & 330'FEL, SEC.29)	7716.00	9991.84	745.36	3166083.78	1285838.58	40°06'59.375"N	104°54'22.140"W	point
TROUDT #2 EP ON PLAT (460'FSL & 330'FEL, SEC.32)	7716.00	-79.41	647.74	3166053.30	1275767.32	40°05'19.849"N	104°54'23.400"W	point
TROUDT #2 TARGET 7	7719.00	5713.64	703.89	3166070.83	1281560.38	40°06'17.097"N	104°54'22.675"W	point
TROUDT #2 TARGET 6	7728.00	4313.71	690.32	3166066.59	1280160.44	40°06'03.263"N	104°54'22.851"W	point



Actual Wellpath Report

TROUDT #2 AWP

Page 10 of 12



REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#02 TROUDT #2 (537'FSL & 979'FEL, SEC.32)
Area	COLORADO	Well	TROUDT #2
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	TROUDT #2 AWB
Facility	SEC.32-T02N-R67W		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
TROUDT #2 TARGET 4	7741.00	2413.79	671.91	3166060.85	1278260.52	40°05'44.487"N	104°54'23.088"W	point
TROUDT #2 TARGET 5	7741.00	3213.76	679.66	3166063.27	1279060.49	40°05'52.393"N	104°54'22.988"W	point
TROUDT #2 EP ON PLAT REV-1/ TARGET 1 (460'FSL & 330'FEL, SEC.32)	7744.00	-79.41	647.74	3166053.30	1275767.32	40°05'19.849"N	104°54'23.400"W	point
TROUDT #2 TARGET 2	7744.00	1013.86	658.34	3166056.61	1276860.59	40°05'30.653"N	104°54'23.263"W	point
TROUDT #2 TARGET 3	7744.00	1913.82	667.06	3166059.33	1277760.55	40°05'39.547"N	104°54'23.151"W	point
EMERSON #2-29 J TARGET (500'RADIUS)	8207.00	8433.38	-290.04	3165058.83	1284273.32	40°06'43.974"N	104°54'35.467"W	circle
GUMESON #1 TARGET (500'RADIUS)	8231.00	3759.91	-54.24	3165325.77	1279601.71	40°05'57.790"N	104°54'32.432"W	circle
EMERSON #3-29 J TARGET (500'RADIUS)	8254.00	6075.70	-291.23	3165073.36	1281915.78	40°06'20.675"N	104°54'35.482"W	circle
HELLEN RUSSELL PERRIN G.U. TRUE#1 TARGET (500'RADIUS)	8262.00	8730.45	-2927.07	3162419.99	1284552.79	40°06'46.908"N	104°55'09.408"W	circle
HELEN RUSSEL PERRIN GU #1 TARGET (500'RADIUS)	8269.00	5648.50	-2591.75	3162775.83	1281473.27	40°06'16.452"N	104°55'05.088"W	circle
HALEY-GUMESON #2 TARGET (500'RADIUS)	8353.00	758.84	-276.45	3165123.58	1276599.36	40°05'28.133"N	104°54'35.291"W	circle



Actual Wellpath Report

TROUDT #2 AWP

Page 11 of 12



REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#02 TROUDT #2 (537'FSL & 979'FEL, SEC.32)
Area	COLORADO	Well	TROUDT #2
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	TROUDT #2 AWB
Facility	SEC.32-T02N-R67W		

WELLPATH COMPOSITION - Ref Wellbore: TROUDT #2 AWB Ref Wellpath: TROUDT #2 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	1493.00	ISCWSA MWD, Rev. 3 (Standard)	ENSECO MWD SURVEYS <158-1493>	TROUDT #2 AWB
1493.00	18091.00	NaviTrak (MagCorr)	BHI MWD/NAVITRAK (MAGCORR) 7.78" HOLE <1613-18091>	TROUDT #2 AWB
18091.00	18150.00	Blind Drilling (std)	Projection to bit	TROUDT #2 AWB



Actual Wellpath Report

TROUDT #2 AWP

Page 12 of 12



REFERENCE WELLPATH IDENTIFICATION

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Area	COLORADO	Well	TROUDT #2
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	TROUDT #2 AWB
Facility	SEC.32-T02N-R67W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
1493.00	0.700	94.500	1492.53	TIED ONTO ENSECO SURVEYS
1613.00	0.700	68.750	1612.52	FIRST BHI MWD SURVEY
8093.00	77.095	2.076	7706.59	CROSSED 460' SETBACK (463'FSL & 314'FEL, SEC.32)
8334.00	90.360	1.870	7732.75	LANDING POINT (699'FSL & 310'FEL, SEC.32)
18091.00	90.830	1.420	7708.46	LAST BHI MWD SURVEY (83'FNL & 385'FEL, SEC.29)
18150.00	90.830	1.420	7707.60	PROJECTION TO BIT (24'FNL & 384'FEL, SEC.29)