

Vertical Section (ft) Azim = 180.23° Scale = 1:2000.00(ft) Origin = 0N/-S, 0E/-W

County Line 3107-08H R1 mdv 27Oct21 Proposal Geodetic Report



(Def Plan)

Report Date: November 01, 2021 - 01:06 PM
Client: Verdaz Resources LLC
Field: CO, Weld County (NAD 83 NZ) - 2019
Structure / Slot: Verdaz Resources 31-01N-65W (County Line Pad) / County Line 3107-08H
Well: County Line 3107-08H
Borehole: Original Hole
UWI / API#: Unknown / 05-123-51173
Survey Name: County Line 3107-08H R1 mdv 27Oct21
Survey Date: October 27, 2021
Tort / AHD / DDI / ERD Ratio: 117.778 ° / 10880.798 ft / 6.471 / 1.443
Coordinate Reference System: NAD83 Colorado State Plane, Northern Zone, US Feet
Location Lat / Long: N 40° 0' 5.24304", W 104° 42' 15.69960"
Location Grid N/E Y/X: N 1244377.325 ftUS, E 3222893.372 ftUS
CRS Grid Convergence Angle: 0.5141 °
Grid Scale Factor: 0.99996626
Version / Patch: 2.10.824.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 180.230 ° (True North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: KB 21ft
TVD Reference Elevation: 5058.000 ft above MSL
Seabed / Ground Elevation: 5037.000 ft above MSL
Magnetic Declination: 7.889 °
Total Gravity Field Strength: 998.9824mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 51647.324 nT
Magnetic Dip Angle: 66.238 °
Declination Date: October 27, 2021
Magnetic Declination Model: HDGM 2021
North Reference: True North
Grid Convergence Used: 0.0000 °
Total Corr Mag North->True North: 7.8885 °
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
Surface	0.00	0.00	0.00	0.00	-5058.00	0.00	0.00	0.00	N/A	1244377.33	3222893.37	40.001456	-104.704361
Adjusted KB	17.00	0.00	0.00	17.00	-5041.00	0.00	0.00	0.00	0.00	1244377.33	3222893.37	40.001456	-104.704361
First Surface Survey	222.00	0.23	253.55	222.00	-4836.00	0.12	-0.12	-0.39	0.11	1244377.21	3222892.98	40.001456	-104.704362
	252.00	0.18	25.99	252.00	-4806.00	0.09	-0.09	-0.43	1.25	1244377.23	3222892.94	40.001456	-104.704363
	283.00	0.31	338.48	283.00	-4775.00	-0.03	0.03	-0.44	0.74	1244377.35	3222892.93	40.001456	-104.704363
	311.00	0.35	306.04	311.00	-4747.00	-0.15	0.15	-0.54	0.67	1244377.47	3222892.83	40.001457	-104.704363
	343.00	0.31	30.97	343.00	-4715.00	-0.28	0.28	-0.57	1.40	1244377.60	3222892.80	40.001457	-104.704363
	373.00	0.23	47.09	373.00	-4685.00	-0.39	0.39	-0.49	0.37	1244377.71	3222892.88	40.001457	-104.704363
	403.00	0.18	307.27	403.00	-4655.00	-0.46	0.46	-0.48	1.05	1244377.78	3222892.89	40.001458	-104.704363
	433.00	0.19	338.50	433.00	-4625.00	-0.54	0.54	-0.54	0.33	1244377.86	3222892.83	40.001458	-104.704363
	463.00	0.51	294.29	463.00	-4595.00	-0.64	0.64	-0.68	1.32	1244377.96	3222892.69	40.001458	-104.704363
	493.00	1.21	263.69	492.99	-4565.01	-0.65	0.66	-1.11	2.71	1244377.97	3222892.25	40.001458	-104.704365
	523.00	1.97	251.74	522.98	-4535.02	-0.46	0.46	-1.92	2.75	1244377.77	3222891.45	40.001458	-104.704368
	553.00	2.37	253.22	552.96	-4505.04	-0.11	0.12	-3.00	1.35	1244377.42	3222890.37	40.001457	-104.704372
	583.00	2.63	252.26	582.93	-4475.07	0.28	-0.27	-4.25	0.88	1244377.02	3222889.12	40.001456	-104.704376
	613.00	2.71	248.22	612.90	-4445.10	0.76	-0.74	-5.56	0.68	1244376.54	3222887.81	40.001454	-104.704381
	643.00	2.71	247.41	642.87	-4415.13	1.30	-1.27	-6.88	0.13	1244375.99	3222886.51	40.001453	-104.704386
	673.00	2.47	249.35	672.84	-4385.16	1.81	-1.78	-8.14	0.85	1244375.48	3222885.25	40.001452	-104.704390
	703.00	2.52	246.52	702.81	-4355.19	2.30	-2.27	-9.35	0.44	1244374.98	3222884.05	40.001450	-104.704394
	733.00	2.52	249.03	732.78	-4325.22	2.81	-2.76	-10.57	0.37	1244374.47	3222882.83	40.001449	-104.704399
	763.00	2.61	247.80	762.75	-4295.25	3.31	-3.26	-11.82	0.35	1244373.96	3222881.59	40.001447	-104.704403
	793.00	2.50	245.03	792.72	-4265.28	3.85	-3.79	-13.04	0.55	1244373.42	3222880.37	40.001446	-104.704408
	823.00	2.61	247.83	822.69	-4235.31	4.38	-4.33	-14.27	0.55	1244372.87	3222879.14	40.001445	-104.704412
	853.00	2.49	245.04	852.66	-4205.34	4.92	-4.86	-15.49	0.58	1244372.33	3222877.93	40.001443	-104.704416
	883.00	1.98	245.94	882.64	-4175.36	5.41	-5.35	-16.55	1.70	1244371.83	3222876.87	40.001442	-104.704420
	913.00	2.13	244.94	912.62	-4145.38	5.86	-5.79	-17.53	0.51	1244371.37	3222875.89	40.001440	-104.704424
	943.00	2.00	242.44	942.60	-4115.40	6.35	-6.27	-18.50	0.53	1244370.89	3222874.93	40.001439	-104.704427
	973.00	2.08	248.41	972.58	-4085.42	6.79	-6.71	-19.47	0.76	1244370.44	3222873.96	40.001438	-104.704431
	1003.00	1.98	244.52	1002.56	-4055.44	7.22	-7.14	-20.45	0.57	1244370.00	3222872.99	40.001437	-104.704434
	1033.00	2.16	253.62	1032.54	-4025.46	7.61	-7.52	-21.46	1.25	1244369.61	3222871.98	40.001436	-104.704438
	1063.00	1.99	248.14	1062.52	-3995.48	7.96	-7.87	-22.48	0.87	1244369.25	3222870.96	40.001435	-104.704441
	1093.00	1.90	254.05	1092.50	-3965.50	8.30	-8.20	-23.44	0.73	1244368.91	3222870.00	40.001434	-104.704445
	1123.00	2.20	252.39	1122.48	-3935.52	8.61	-8.52	-24.47	1.02	1244368.59	3222869.98	40.001433	-104.704448
	1153.00	2.11	253.66	1152.46	-3905.54	8.90	-8.80	-25.56	0.81	1244368.30	3222869.89	40.001432	-104.704452
	1183.00	2.23	254.74	1182.44	-3875.56	9.17	-9.07	-26.66	0.61	1244368.02	3222868.79	40.001432	-104.704456
	1213.00	2.21	246.01	1212.42	-3845.58	9.57	-9.45	-27.76	1.13	1244367.62	3222868.70	40.001430	-104.704460
	1243.00	2.21	241.23	1242.40	-3815.60	10.08	-9.97	-28.79	0.61	1244367.10	3222868.67	40.001429	-104.704464
	1273.00	2.19	240.19	1272.37	-3785.63	10.65	-10.53	-29.80	0.15	1244366.53	3222868.67	40.001427	-104.704467
	1303.00	2.21	238.55	1302.35	-3755.65	11.24	-11.12	-30.79	0.22	1244365.93	3222868.69	40.001426	-104.704471
	1333.00	2.44	240.43	1332.33	-3725.67	11.86	-11.74	-31.84	0.81	1244365.31	3222868.64	40.001424	-104.704475
	1363.00	2.44	239.11	1362.30	-3695.70	12.51	-12.38	-32.94	0.19	1244364.65	3222868.55	40.001422	-104.704479
	1393.00	2.02	235.41	1392.28	-3665.72	13.14	-13.01	-33.92	1.48	1244364.02	3222868.57	40.001421	-104.704482
	1423.00	1.71	241.28	1422.26	-3635.74	13.66	-13.52	-34.75	1.21	1244363.49	3222868.75	40.001419	-104.704485
	1453.00	1.73	253.59	1452.25	-3605.75	14.01	-13.86	-35.58	1.23	1244363.14	3222868.72	40.001418	-104.704488
	1483.00	1.24	271.78	1482.24	-3575.76	14.13	-13.98	-36.34	2.25	1244363.02	3222868.71	40.001418	-104.704491
	1513.00	0.97	281.93	1512.23	-3545.77	14.07	-13.92	-36.91	1.11	1244363.08	3222868.59	40.001418	-104.704493
	1543.00	0.87	308.97	1542.23	-3515.77	13.87	-13.72	-37.33	1.47	1244363.27	3222868.16	40.001419	-104.704494
	1573.00	0.64	331.73	1572.23	-3485.77	13.58	-13.43	-37.59	1.25	1244363.56	3222868.90	40.001420	-104.704495
	1603.00	0.85	23.39	1602.22	-3455.78	13.23	-13.08	-37.58	2.25	1244363.91	3222868.91	40.001420	-104.704495
	1633.00	1.04	38.44	1632.22	-3425.78	12.81	-12.66	-37.32	1.04	1244364.33	3222868.16	40.001422	-104.704494
	1663.00	1.13	47.96	1662.21	-3395.79	12.40	-12.25	-36.94	0.67	1244364.74	3222868.55	40.001423	-104.704493
	1693.00	1.09	37.10	1692.21	-3365.79	11.97	-11.83	-36.54	0.71	1244365.17	3222868.94	40.001424	-104.704491
	1723.00	1.38	33.82	1722.20	-3335.80	11.44	-11.30	-36.17	0.99	1244365.70	3222867.31	40.001425	-104.704490
Tie-In to latest survey	1742.00	1.21	44.57	1741.20	-3316.80	11.11	-10.97	-35.90	1.56	1244366.04	3222867.57	40.001426	-104.704489
	1800.00	1.21	44.57	1799.18	-3286.82	10.23	-10.09	-35.04	0.00	1244366.92	3222858.42	40.001429	-104.704486
PTB, Drop 1 DLS	1803.00	1.21	44.57	1802.18	-3256.82	10.19	-10.05	-35.00	0.00	1244366.96	3222858.47	40.001429	-104.704486
	1900.00	0.24	44.57	1899.17	-3158.83	9.31	-9.17	-34.14	1.00	1244367.85	3222859.32	40.001431	-104.704483
	1924.00	0.00	44.57	1923.17	-3134.83	9.28	-9.14	-34.10	1.00	1244367.88	3222859.35	40.001431	-104.704483
	2000.00	0.00	44.57	1999.17	-3058.83	9.28	-9.14	-34.10	0.00	1244367.88	3222859.35	40.001431	-104.704483
	2100.00	0.00	44.57	2099.17	-2958.83	9.28	-9.14	-34.10	0.00	1244367.88	3222859.35	40.001431	-104.704483
	2200.00	0.00	44.57	2199.17	-2858.83	9.28	-9.14	-34.10	0.00	1244367.88	3222859.35	40.001431	-104.704483
	2300.00	0.00	44.57	2299.17	-2758.83	9.28	-9.14	-34.10	0.00	1244367.88	3222859.35	40.001431	-104.704483
	2400.00	0.00	44.57	2399.17	-2658.83	9.28	-9.14	-34.10	0.00	1244367.88	3222859.35	40.001431	-104.704483
	2500.00	0.00	44.57	2499.17	-2558.83	9.28	-9.14	-34.10	0.00	1244367.88	3222859.35	40.001431	-104.704483
	2600.00	0.00	44.57	2599.17	-2458.83	9.28	-9.14	-34.10	0.00	1244367.88	3222859.35	40.001431	-104.704483
	2700.00	0.00	44.57	2699.17	-2358.83	9.28	-9.14	-34.10	0.00	1244367.88	3222859.35	40.001431	-104.704483
	2800.00	0.00	44.57	2799.17	-2258.83	9.28	-9.14	-34.10	0.00	1244367.88	3222859.35	40.001431	-104.704483
	2900.00	0.00	44.57	2899.17	-2158.83	9.28	-9.14	-34.10	0.00	1244367.88	3222859.35	40.001431	-104.704483
	2900.83	0.00	44.57	2900.00	-2158.00	9.28	-9.14	-34.10	0.00	1244367.88	3222859.35	40.001431	-104.704483
	3000.00	1.98	263.65	2999.15	-2058.85	9.47	-9.33	-35.81	2.00	1			

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
	4400.00	10.62	263.65	4379.56	-678.44	35.36	-34.31	-260.19	0.00	124340.68	3222633.51	40.001362	-104.705290
	4500.00	10.62	263.65	4477.84	-580.16	37.47	-36.35	-278.51	0.00	124338.48	3222615.21	40.001357	-104.705355
	4600.00	10.62	263.65	4576.13	-481.87	39.58	-38.39	-296.82	0.00	124336.27	3222596.92	40.001351	-104.705420
	4700.00	10.62	263.65	4674.42	-383.58	41.70	-40.43	-315.13	0.00	124334.07	3222578.62	40.001345	-104.705486
	4800.00	10.62	263.65	4772.71	-285.29	43.81	-42.47	-333.45	0.00	124331.87	3222560.33	40.001340	-104.705551
	4900.00	10.62	263.65	4870.99	-187.01	45.92	-44.51	-351.76	0.00	124329.66	3222542.03	40.001334	-104.705617
	5000.00	10.62	263.65	4969.28	-88.72	48.04	-46.55	-370.08	0.00	124327.46	3222523.74	40.001329	-104.705682
	5100.00	10.62	263.65	5067.57	9.57	50.15	-48.59	-389.39	0.00	124325.25	3222505.44	40.001323	-104.705747
	5200.00	10.62	263.65	5165.86	107.86	52.26	-50.63	-406.71	0.00	124323.05	3222487.15	40.001317	-104.705813
	5300.00	10.62	263.65	5264.14	206.14	54.37	-52.67	-425.02	0.00	124320.85	3222468.85	40.001312	-104.705878
	5400.00	10.62	263.65	5362.43	304.43	56.49	-54.71	-443.34	0.00	124318.64	3222450.56	40.001306	-104.705943
	5500.00	10.62	263.65	5460.72	402.72	58.60	-56.75	-461.65	0.00	124316.44	3222432.26	40.001301	-104.706009
	5600.00	10.62	263.65	5559.01	501.01	60.71	-58.79	-479.97	0.00	124314.24	3222413.97	40.001295	-104.706074
	5700.00	10.62	263.65	5657.29	599.29	62.83	-60.83	-498.28	0.00	124312.03	3222395.67	40.001289	-104.706140
	5800.00	10.62	263.65	5755.58	697.58	64.94	-62.87	-516.60	0.00	124309.83	3222377.38	40.001284	-104.706205
	5900.00	10.62	263.65	5853.87	795.87	67.05	-64.90	-534.91	0.00	124307.63	3222359.08	40.001278	-104.706270
	6000.00	10.62	263.65	5952.16	894.16	69.16	-66.94	-553.23	0.00	124305.42	3222340.79	40.001273	-104.706336
	6100.00	10.62	263.65	6050.44	992.44	71.28	-68.98	-571.54	0.00	124303.22	3222322.49	40.001267	-104.706401
	6200.00	10.62	263.65	6148.73	1090.73	73.39	-71.02	-589.86	0.00	124301.02	3222304.20	40.001261	-104.706466
	6300.00	10.62	263.65	6247.02	1189.02	75.50	-73.06	-608.17	0.00	124298.81	3222285.90	40.001256	-104.706532
	6400.00	10.62	263.65	6345.31	1287.31	77.62	-75.10	-626.49	0.00	124296.61	3222267.61	40.001250	-104.706597
	6500.00	10.62	263.65	6443.59	1385.59	79.73	-77.14	-644.80	0.00	124294.40	3222249.31	40.001245	-104.706663
	6600.00	10.62	263.65	6541.88	1483.88	81.84	-79.18	-663.12	0.00	124292.20	3222231.02	40.001239	-104.706728
	6700.00	10.62	263.65	6640.17	1582.17	83.95	-81.22	-681.43	0.00	124290.00	3222212.72	40.001233	-104.706793
	6800.00	10.62	263.65	6738.45	1680.45	86.07	-83.26	-699.75	0.00	124287.79	3222194.43	40.001228	-104.706859
Build/Turn 8 DLS	6886.80	10.62	263.65	6823.77	1765.77	87.90	-85.03	-715.64	0.00	124285.88	3222178.55	40.001223	-104.706915
	6900.00	10.79	258.03	6836.74	1778.74	88.30	-85.42	-718.06	8.00	124285.47	3222176.13	40.001222	-104.706924
	7000.00	14.68	225.54	6934.38	1876.38	99.21	-96.25	-736.29	8.00	124274.77	3222158.00	40.001192	-104.706899
	7100.00	21.00	209.24	7029.58	1971.58	123.83	-120.81	-754.12	8.00	124249.76	3222140.40	40.001125	-104.707053
	7200.00	28.16	200.58	7120.49	2062.49	161.69	-158.60	-771.20	8.00	124211.82	3222123.66	40.001021	-104.707114
	7300.00	35.66	195.27	7205.33	2147.33	212.05	-208.89	-787.19	8.00	124161.38	3222108.11	40.000883	-104.707171
	7400.00	43.32	191.61	7282.45	2224.45	273.93	-270.72	-801.80	8.00	124099.43	3222094.06	40.000713	-104.707223
	7500.00	51.07	188.88	7350.36	2292.36	346.13	-342.86	-814.73	8.00	124027.18	3222081.78	40.000515	-104.707269
	7600.00	58.86	186.68	7407.73	2349.73	427.24	-423.93	-825.73	8.00	124394.62	3222071.51	40.000293	-104.707308
	7700.00	66.69	184.83	7453.45	2395.45	515.68	-512.33	-834.59	8.00	1243857.54	3222063.44	40.000050	-104.707340
	7800.00	74.54	183.18	7486.62	2428.62	609.73	-606.36	-841.13	8.00	1243763.47	3222057.74	39.999792	-104.707363
	7900.00	82.40	181.65	7506.59	2448.59	707.56	-704.17	-845.24	8.00	1243665.62	3222054.52	39.999523	-104.707378
County Line 3107-08H LP	7996.49	89.98	180.23	7513.00	2455.00	803.75	-800.36	-846.80	8.00	1243569.43	3222053.81	39.999259	-104.707384
	8000.00	89.98	180.23	7513.00	2455.00	807.27	-803.88	-846.82	0.00	1243565.91	3222053.83	39.999250	-104.707384
	8100.00	89.98	180.23	7513.03	2455.03	807.27	-803.87	-847.21	0.00	1243465.92	3222054.33	39.998975	-104.707385
	8200.00	89.98	180.23	7513.06	2455.06	1007.27	-1003.87	-847.61	0.00	1243365.92	3222054.84	39.998701	-104.707386
	8300.00	89.98	180.23	7513.08	2455.08	1107.27	-1103.87	-848.00	0.00	1243265.93	3222055.34	39.998426	-104.707388
	8400.00	89.98	180.23	7513.11	2455.11	1207.27	-1203.87	-848.40	0.00	1243165.93	3222055.84	39.998152	-104.707389
	8500.00	89.98	180.23	7513.14	2455.14	1307.27	-1303.87	-848.79	0.00	1243065.94	3222056.34	39.997877	-104.707391
	8600.00	89.98	180.23	7513.17	2455.17	1407.27	-1403.87	-849.18	0.00	1242965.94	3222056.85	39.997603	-104.707392
	8700.00	89.98	180.23	7513.19	2455.19	1507.27	-1503.87	-849.58	0.00	1242865.95	3222057.35	39.997328	-104.707393
	8800.00	89.98	180.23	7513.22	2455.22	1607.27	-1603.87	-849.97	0.00	1242765.95	3222057.85	39.997054	-104.707395
	8900.00	89.98	180.23	7513.25	2455.25	1707.27	-1703.87	-850.37	0.00	1242665.96	3222058.35	39.996779	-104.707396
	9000.00	89.98	180.23	7513.28	2455.28	1807.27	-1803.87	-850.76	0.00	1242565.96	3222058.86	39.996505	-104.707398
	9100.00	89.98	180.23	7513.31	2455.31	1907.27	-1903.87	-851.16	0.00	1242465.97	3222059.36	39.996230	-104.707399
	9200.00	89.98	180.23	7513.33	2455.33	2007.27	-2003.87	-851.55	0.00	1242365.97	3222059.86	39.995956	-104.707400
	9300.00	89.98	180.23	7513.36	2455.36	2107.27	-2103.87	-851.95	0.00	1242265.98	3222060.37	39.995681	-104.707402
	9400.00	89.98	180.23	7513.39	2455.39	2207.27	-2203.86	-852.34	0.00	1242165.98	3222060.87	39.995407	-104.707403
	9500.00	89.98	180.23	7513.42	2455.42	2307.27	-2303.86	-852.74	0.00	1242065.98	3222061.37	39.995132	-104.707404
	9600.00	89.98	180.23	7513.44	2455.44	2407.27	-2403.86	-853.13	0.00	1241965.99	3222061.87	39.994858	-104.707406
	9700.00	89.98	180.23	7513.47	2455.47	2507.27	-2503.86	-853.53	0.00	1241866.00	3222062.38	39.994583	-104.707407
	9800.00	89.98	180.23	7513.50	2455.50	2607.27	-2603.86	-853.92	0.00	1241766.00	3222062.88	39.994309	-104.707409
	9900.00	89.98	180.23	7513.53	2455.53	2707.27	-2703.86	-854.31	0.00	1241666.01	3222063.38	39.994034	-104.707410
	10000.00	89.98	180.23	7513.56	2455.56	2807.27	-2803.86	-854.71	0.00	1241566.01	3222063.88	39.993760	-104.707411
	10100.00	89.98	180.23	7513.58	2455.58	2907.27	-2903.86	-855.10	0.00	1241466.02	3222064.39	39.993485	-104.707413
	10200.00	89.98	180.23	7513.61	2455.61	3007.27	-3003.86	-855.50	0.00	1241366.02	3222064.89	39.993210	-104.707414
	10300.00	89.98	180.23	7513.64	2455.64	3107.27	-3103.86	-855.89	0.00	1241266.02	3222065.39	39.992936	-104.707416
	10400.00	89.98	180.23	7513.67	2455.67	3207.27	-3203.86	-856.29	0.00	1241166.03	3222065.89	39.992661	-104.707417
	10500.00	89.98	180.23	7513.69	2455.69	3307.27	-3303.86	-856.68	0.00	1241066.03	3222066.40	39.992387	-104.707418
	10600.00	89.98	180.23	7513.72	2455.72	3407.27	-3403.85	-857.08	0.00	1240966.04	3222066.90	39.992112	-104.707420
	10700.00	89.98	180.23	7513.75	2455.75	3507.27	-3503.85	-857.47	0.00	1240866.04	3222067.40	39.991838	-104.707421
	10800.00	89.98	180.23	7513.78	2455.78	3607.27	-3603.85	-857.87	0.00	1240766.05	3222067.91	39.991563	-104.707423
	10900.00	89.98	180.23	7513.80	2455.80	3707.27	-3703.85	-858.26	0.00	1240666.05	3222068.41	39.991289	-104.707424
	11000.00	89.98	180.23	7513.83	2455.83	3807.27	-3803.85	-858.65	0.00	1240566.06	3222068.91	39.991014	-104.707425
	11100.00	89.98	180.23	7513.86	2455.86	3907.27	-3903.85	-859.05	0.00	1240466.06	3222069.41	39.990740	-104.707427
	11200.00	89.98	180.23	7513.89	2455.89	4007.27	-4003.85	-859.44	0.00	1240366.07	3222069.92	39.990465	-104.707428
	11300.00	89.98	180.23	7513.92	2455.92	4107.27	-4103.85	-859.84	0.00	1240266.07	3222070.42	39.990191	-104.707430
	11400.00	89.98	180.23	7513.94	2455.94	4207.27	-4203.85	-860.23	0.00	1240166.08	3222070.92	39.989916	-104.707431
	11500.00												

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
WP3. Drop 2 DLS	15300.00	90.27	180.23	7519.13	2461.13	8107.21	-8103.76	-875.61	0.00	1236266.33	3222090.54	39.979211	-104.707485
	15400.00	90.27	180.23	7518.66	2460.66	8207.21	-8203.75	-876.00	0.00	1236166.33	3222091.04	39.978936	-104.707487
	15500.00	90.27	180.23	7518.20	2460.20	8307.20	-8303.75	-876.40	0.00	1236066.34	3222091.54	39.978662	-104.707488
	15600.00	90.27	180.23	7517.73	2459.73	8407.20	-8403.75	-876.79	0.00	1235966.35	3222092.04	39.978387	-104.707490
	15700.00	90.27	180.23	7517.27	2459.27	8507.20	-8503.75	-877.19	0.00	1235866.35	3222092.55	39.978113	-104.707491
	15800.00	90.27	180.23	7516.80	2458.80	8607.20	-8603.75	-877.58	0.00	1235766.36	3222093.05	39.977838	-104.707492
	15900.00	90.27	180.23	7516.33	2458.33	8707.20	-8703.75	-877.98	0.00	1235666.36	3222093.55	39.977564	-104.707494
	15971.62	90.27	180.23	7516.00	2458.00	8778.81	-8775.36	-878.26	0.00	1235594.75	3222093.91	39.977367	-104.707495
	16000.00	89.70	180.23	7516.01	2458.01	8807.20	-8803.74	-878.37	2.00	1235566.37	3222094.05	39.977289	-104.707495
	16040.68	88.89	180.23	7516.51	2458.51	8847.87	-8844.42	-878.53	2.00	1235525.70	3222094.26	39.977178	-104.707496
Hold	16100.00	88.89	180.23	7517.66	2459.66	8907.18	-8903.73	-878.77	0.00	1235466.39	3222094.56	39.977015	-104.707497
	16200.00	88.89	180.23	7519.61	2461.61	9007.17	-9003.71	-879.16	0.00	1235366.41	3222095.06	39.976740	-104.707498
	16300.00	88.89	180.23	7521.55	2463.55	9107.15	-9103.69	-879.56	0.00	1235266.44	3222095.56	39.976466	-104.707499
	16400.00	88.89	180.23	7523.50	2465.50	9207.13	-9203.67	-879.95	0.00	1235166.46	3222096.06	39.976191	-104.707501
	16500.00	88.89	180.23	7525.44	2467.44	9307.11	-9303.65	-880.34	0.00	1235066.48	3222096.57	39.975917	-104.707502
	16600.00	88.89	180.23	7527.39	2469.39	9407.09	-9403.63	-880.74	0.00	1234966.51	3222097.07	39.975643	-104.707504
	16700.00	88.89	180.23	7529.33	2471.33	9507.07	-9503.61	-881.13	0.00	1234866.53	3222097.57	39.975368	-104.707505
	16800.00	88.89	180.23	7531.28	2473.28	9607.05	-9603.59	-881.53	0.00	1234766.56	3222098.08	39.975094	-104.707506
	16900.00	88.89	180.23	7533.22	2475.22	9707.03	-9703.57	-881.92	0.00	1234666.58	3222098.58	39.974819	-104.707508
	17000.00	88.89	180.23	7535.17	2477.17	9807.01	-9803.55	-882.32	0.00	1234566.60	3222099.08	39.974545	-104.707509
County Line 3107-08H BHL	17100.00	88.89	180.23	7537.11	2479.11	9907.00	-9903.53	-882.71	0.00	1234466.63	3222099.58	39.974270	-104.707511
	17200.00	88.89	180.23	7539.05	2481.05	10006.98	-10003.51	-883.11	0.00	1234366.65	3222100.09	39.973996	-104.707512
	17300.00	88.89	180.23	7541.00	2483.00	10106.96	-10103.49	-883.50	0.00	1234266.67	3222100.59	39.973721	-104.707513
	17300.05	88.89	180.23	7541.00	2483.00	10107.01	-10103.54	-883.50	0.00	1234266.62	3222100.59	39.973721	-104.707513
	17400.00	88.89	180.23	7542.94	2484.94	10206.94	-10203.47	-883.89	0.00	1234166.70	3222101.09	39.973447	-104.707515
	17400.05	88.89	180.23	7542.94	2484.94	10206.99	-10203.52	-883.89	0.00	1234166.65	3222101.09	39.973447	-104.707515

Survey Type: Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	21.000	Act Stns	13.500	9.625		NAL_MWD_PLUS_0.5_DEG- Depth Only	Original Hole / County Line 3107- 08H MWD 0' to update
	1	21.000	1742.000	Act Stns	13.500	9.625		NAL_MWD_PLUS_0.5_DEG	Original Hole / County Line 3107- 08H MWD 0' to update
	1	1742.000	2342.826	1/100.000	13.500	9.625		NAL_MWD_PLUS_0.5_DEG	Original Hole / County Line 3107- 08H R1 mdv 27Oct21
	1	2342.826	17400.050	1/100.000	8.500	5.500		NAL_MWD_PLUS_0.5_DEG	Original Hole / County Line 3107- 08H R1 mdv 27Oct21