



## County Line 3107-12H R1 mdv 27Oct21 Proposal Geodetic Report



(Def Plan)

**Report Date:** November 02, 2021 - 08:47 AM  
**Client:** Verdaz Resources LLC  
**Field:** CO, Weld County (NAD 83 NZ) - 2019  
**Structure / Slot:** Verdaz Resources 31-01N-65W (County Line Pad) / County Line 3107-12H  
**Well:** County Line 3107-12H  
**Borehole:** Original Hole  
**UWI / API#:** Unknown / 05-123-51174  
**Survey Name:** County Line 3107-12H R1 mdv 27Oct21  
**Survey Date:** October 27, 2021  
**Tort / AHD / DDI / ERD Ratio:** 120.697 ° / 11492.723 ft / 6.507 / 1.526  
**Coordinate Reference System:** NAD83 Colorado State Plane, Northern Zone, US Feet  
**Location Lat / Long:** N 40° 0' 5.24340", W 104° 42' 14.92848"  
**Location Grid N/E Y/X:** N 1244377.900 ftUS, E 3222953.376 ftUS  
**CRS Grid Convergence Angle:** 0.5142 °  
**Grid Scale Factor:** 0.99996626  
**Version / Patch:** 2.10.824.0

**Survey / DLS Computation:** Minimum Curvature / Lubinski  
**Vertical Section Azimuth:** 180.440 ° (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:** 51647.282 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:** 7.8887 °  
**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	1244377.90	3222953.38	40.001457	-104.704147
Adjusted KB	17.00	0.00	0.00	17.00	-5041.00	0.00	0.00	0.00	0.00	1244377.90	3222953.38	40.001457	-104.704147
First Surface Survey	222.00	0.58	161.06	222.00	-4836.00	0.98	-0.98	0.34	0.28	1244376.92	3222953.72	40.001454	-104.704146
	252.00	0.62	144.83	251.99	-4806.01	1.25	-1.26	0.48	0.58	1244376.65	3222953.87	40.001453	-104.704145
	283.00	0.92	115.93	282.99	-4775.01	1.50	-1.50	0.80	1.55	1244376.40	3222954.19	40.001452	-104.704144
	313.00	1.10	117.28	312.99	-4745.01	1.73	-1.74	1.27	0.61	1244376.17	3222954.66	40.001452	-104.704142
	343.00	1.39	109.91	342.98	-4715.02	1.98	-2.00	1.87	1.10	1244375.92	3222955.26	40.001451	-104.704140
	373.00	2.15	101.46	372.97	-4685.03	2.21	-2.23	2.76	2.67	1244375.69	3222956.16	40.001450	-104.704137
	403.00	2.57	95.88	402.94	-4655.06	2.38	-2.41	3.98	1.59	1244375.52	3222957.38	40.001450	-104.704133
	433.00	2.86	91.89	432.91	-4625.09	2.47	-2.51	5.40	1.15	1244375.44	3222958.80	40.001450	-104.704128
	463.00	3.35	87.99	462.86	-4595.14	2.45	-2.50	7.03	1.78	1244375.46	3222960.42	40.001450	-104.704122
	493.00	4.35	89.27	492.79	-4565.21	2.39	-2.46	9.04	3.35	1244375.53	3222962.44	40.001450	-104.704115
	523.00	5.23	87.81	522.69	-4535.31	2.30	-2.39	11.54	2.96	1244375.62	3222964.94	40.001450	-104.704106
	553.00	5.98	84.08	552.55	-4505.45	2.06	-2.18	14.46	2.78	1244375.85	3222967.86	40.001451	-104.704095
	583.00	6.40	84.99	582.37	-4475.63	1.73	-1.87	17.68	1.44	1244376.19	3222971.08	40.001451	-104.704084
	613.00	7.12	86.20	612.16	-4445.84	1.44	-1.60	21.21	2.45	1244376.49	3222974.59	40.001452	-104.704071
	643.00	7.56	84.94	641.92	-4416.08	1.11	-1.30	25.03	1.56	1244376.82	3222978.41	40.001453	-104.704057
	673.00	7.99	86.35	671.64	-4386.36	0.77	-0.99	29.07	1.57	1244377.17	3222982.46	40.001454	-104.704043
	703.00	8.50	89.05	701.33	-4356.67	0.57	-0.83	33.37	2.13	1244377.37	3222986.75	40.001454	-104.704028
	733.00	8.90	91.86	730.99	-4327.01	0.57	-0.86	37.91	1.95	1244377.38	3222991.29	40.001454	-104.704011
	763.00	9.61	96.53	760.60	-4297.40	0.90	-1.22	42.71	3.44	1244377.06	3222996.10	40.001453	-104.703994
	793.00	10.06	98.63	790.15	-4267.85	1.53	-1.90	47.79	1.92	1244376.43	3223001.18	40.001451	-104.703976
	823.00	10.61	98.39	819.67	-4238.33	2.29	-2.70	53.12	1.84	1244375.68	3223006.51	40.001449	-104.703957
	853.00	11.09	100.19	849.13	-4208.87	3.16	-3.61	58.69	1.96	1244374.82	3223012.09	40.001447	-104.703937
	883.00	11.49	100.65	878.55	-4179.45	4.18	-4.67	64.46	1.37	1244373.80	3223017.88	40.001444	-104.703917
	913.00	11.95	100.99	907.92	-4150.08	5.28	-5.82	70.45	1.55	1244372.71	3223023.87	40.001441	-104.703895
	943.00	12.15	100.80	937.26	-4120.74	6.41	-7.00	76.60	0.68	1244371.59	3223030.03	40.001437	-104.703873
	973.00	12.32	100.39	966.58	-4091.42	7.53	-8.17	82.85	0.64	1244370.47	3223036.29	40.001434	-104.703851
	1003.00	12.54	100.78	995.88	-4062.12	8.67	-9.36	89.20	0.78	1244369.34	3223042.65	40.001431	-104.703828
	1033.00	13.03	98.85	1025.14	-4032.86	9.75	-10.49	95.74	2.17	1244368.27	3223049.20	40.001428	-104.703805
	1063.00	13.77	96.95	1054.32	-4003.68	10.65	-11.44	102.62	2.87	1244367.38	3223056.09	40.001425	-104.703780
	1093.00	14.50	96.63	1083.41	-3974.59	11.46	-12.30	109.90	2.45	1244366.58	3223063.38	40.001423	-104.703755
	1123.00	14.42	95.15	1112.46	-3945.54	12.17	-13.07	117.35	1.26	1244365.88	3223070.83	40.001421	-104.703728
	1153.00	14.59	94.42	1141.50	-3916.50	12.74	-13.70	124.84	0.83	1244365.32	3223078.33	40.001419	-104.703701
	1183.00	14.35	93.45	1170.55	-3887.45	13.20	-14.22	132.31	1.14	1244364.87	3223086.81	40.001417	-104.703675
	1213.00	13.88	92.32	1199.65	-3858.35	13.51	-14.58	139.62	1.82	1244364.57	3223093.12	40.001416	-104.703648
	1243.00	13.69	90.97	1228.78	-3829.22	13.66	-14.79	146.77	1.25	1244364.43	3223100.26	40.001416	-104.703623
	1273.00	13.35	90.73	1257.95	-3800.05	13.71	-14.89	153.78	1.15	1244364.39	3223107.28	40.001416	-104.703598
	1303.00	12.44	91.58	1287.19	-3770.81	13.80	-15.03	160.47	3.10	1244364.31	3223113.97	40.001415	-104.703574
	1333.00	11.75	90.68	1316.53	-3741.47	13.87	-15.15	166.76	2.38	1244364.24	3223120.26	40.001415	-104.703552
	1363.00	11.45	90.95	1345.92	-3712.08	13.91	-15.24	172.79	1.02	1244364.21	3223126.29	40.001415	-104.703530
	1393.00	11.68	92.15	1375.31	-3682.69	14.03	-15.40	178.80	1.11	1244364.10	3223132.30	40.001414	-104.703509
	1423.00	11.85	92.46	1404.68	-3653.32	14.23	-15.65	184.91	0.60	1244363.91	3223138.41	40.001414	-104.703487
	1453.00	11.94	93.28	1434.03	-3623.97	14.49	-15.96	191.09	0.64	1244363.66	3223144.59	40.001413	-104.703465
	1483.00	11.74	92.18	1463.39	-3594.61	14.74	-16.25	197.24	1.01	1244363.42	3223150.74	40.001412	-104.703443
	1513.00	11.92	92.43	1492.76	-3565.24	14.94	-16.50	203.38	0.62	1244363.23	3223156.89	40.001411	-104.703421
	1543.00	12.23	93.61	1522.09	-3535.91	15.22	-16.83	209.65	1.32	1244362.95	3223163.16	40.001410	-104.703398
	1573.00	12.28	94.86	1551.41	-3506.59	15.64	-17.30	216.00	0.90	1244362.54	3223169.51	40.001409	-104.703376
	1603.00	12.54	93.54	1580.71	-3477.29	16.06	-17.77	222.43	1.28	1244362.13	3223175.95	40.001408	-104.703353
	1633.00	12.62	91.88	1609.99	-3448.01	16.32	-18.08	228.95	1.23	1244361.88	3223182.47	40.001407	-104.703330
	1663.00	12.66	90.82	1639.26	-3418.74	16.43	-18.24	235.52	0.78	1244361.78	3223189.04	40.001406	-104.703306
	1693.00	12.82	90.82	1668.52	-3389.48	16.47	-18.33	242.13	0.53	1244361.74	3223195.65	40.001406	-104.703283
	1723.00	12.65	90.57	1697.78	-3360.22	16.50	-18.41	248.74	0.60	1244361.72	3223202.27	40.001406	-104.703259
Tie-In to latest survey PTB, Drop/Turn 2 DLS	1731.00	12.80	91.08	1705.59	-3352.41	16.51	-18.44	250.51	2.34	1244361.71	3223204.03	40.001406	-104.703253
	1792.00	12.80	91.08	1765.07	-3292.93	16.66	-18.69	264.02	0.00	1244361.58	3223217.54	40.001405	-104.703204
Hold	1800.00	12.67	91.48	1772.88	-3285.12	16.69	-18.73	265.78	2.00	1244361.56	3223219.31	40.001405	-104.703198
	1833.57	12.11	93.26	1805.66	-3252.34	16.93	-19.03	272.98	0.00	1244361.33	3223226.50	40.001404	-104.703172
	1900.00	12.11	93.26	1870.61	-3187.39	17.61	-19.82	286.90	0.00	1244360.66	3223240.43	40.001402	-104.703123
	2000.00	12.11	93.26	1968.39	-3089.61	18.65	-21.01	307.85	0.00	1244359.65	3223261.39	40.001399	-104.703048
	2100.00	12.11	93.26	2066.16	-2991.84	19.68	-22.21	328.80	0.00	1244358.65	3223282.35	40.001396	-104.702973
	2200.00	12.11	93.26	2163.93	-2894.07	20.71	-23.40	349.75	0.00	1244357.64	3223303.31	40.001392	-104.702898
	2300.00	12.11	93.26	2261.71	-2796.29	21.75	-24.59	370.71	0.00	1244356.63	3223324.28	40.001389	-104.702824
	2400.00	12.11	93.26	2359.48	-2698.52	22.78	-25.79	391.66	0.00	1244355.63	3223345.24	40.001386	-104.702749
	2500.00	12.11	93.26	2457.25	-2600.75	23.81	-26.98	412.61	0.00	1244354.62	3223366.20	40.001382	-104.702674
	2600.00	12.11	93.26	2555.03	-2502.97	24.85	-28.18	433.56	0.00	1244353.62	3223387.16	40.001379	-104.702599
	2700.00	12.11	93.26	2652.80	-2405.20	25.88	-29.37	454.52	0.00	1244352.61	3223408.12	40.001376	-104.702524
	2800.00	12.11	93.26	2750.57	-2307.43	26.91	-30.57	475.47	0.00	1244351.60	3223429.08	40.001373	-104.702450
	2900.00	12.11	93.26	2848.34	-2209.66	27.95	-31.76	496.42	0.00	1244350.60	3223450.04	40.001369	-104.702375
	3000.00	12.11	93.26	2946.12	-2111.88	28.98	-32.95	517.37	0.00	1244349			

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
	4600.00	12.11	93.26	4510.49	-547.51	45.51	-52.06	852.61	0.00	1243333.50	3223806.39	40.001314	-104.701103
	4700.00	12.11	93.26	4608.26	-449.74	46.54	-53.25	873.57	0.00	1243332.49	3223827.35	40.001310	-104.701029
	4800.00	12.11	93.26	4706.03	-351.97	47.58	-54.45	894.52	0.00	1243331.49	3223848.32	40.001307	-104.700954
	4900.00	12.11	93.26	4803.81	-254.19	48.61	-55.64	915.47	0.00	1243330.48	3223869.28	40.001304	-104.700879
	5000.00	12.11	93.26	4901.58	-156.42	49.64	-56.83	936.42	0.00	1243329.47	3223890.24	40.001300	-104.700804
	5100.00	12.11	93.26	4999.35	-58.65	50.67	-58.03	957.38	0.00	1243328.47	3223911.20	40.001297	-104.700730
	5200.00	12.11	93.26	5097.12	38.12	51.71	-59.22	978.33	0.00	1243327.46	3223932.16	40.001294	-104.700655
	5300.00	12.11	93.26	5194.90	136.90	52.74	-60.42	999.28	0.00	1243326.46	3223953.12	40.001291	-104.700580
	5400.00	12.11	93.26	5292.67	234.67	53.77	-61.61	1020.23	0.00	1243325.45	3223974.09	40.001287	-104.700505
	5500.00	12.11	93.26	5390.44	332.44	54.81	-62.80	1041.19	0.00	1243324.44	3223995.05	40.001284	-104.700430
	5600.00	12.11	93.26	5488.22	430.22	55.84	-64.00	1062.14	0.00	1243323.44	3224016.01	40.001281	-104.700356
	5700.00	12.11	93.26	5585.99	527.99	56.87	-65.19	1083.09	0.00	1243322.43	3224036.97	40.001277	-104.700281
	5800.00	12.11	93.26	5683.76	625.76	57.91	-66.39	1104.04	0.00	1243321.43	3224057.93	40.001274	-104.700206
	5900.00	12.11	93.26	5781.54	723.54	58.94	-67.58	1125.00	0.00	1243320.42	3224078.89	40.001271	-104.700131
	6000.00	12.11	93.26	5879.31	821.31	59.97	-68.77	1145.95	0.00	1243319.42	3224099.86	40.001268	-104.700056
	6100.00	12.11	93.26	5977.08	919.08	61.01	-69.97	1166.90	0.00	1243318.41	3224120.82	40.001264	-104.699982
	6200.00	12.11	93.26	6074.85	1016.85	62.04	-71.16	1187.85	0.00	1243317.40	3224141.78	40.001261	-104.699907
	6300.00	12.11	93.26	6172.63	1114.63	63.07	-72.36	1208.81	0.00	1243316.40	3224162.74	40.001258	-104.699832
	6400.00	12.11	93.26	6270.40	1212.40	64.10	-73.55	1229.76	0.00	1243315.39	3224183.70	40.001255	-104.699757
	6500.00	12.11	93.26	6368.17	1310.17	65.14	-74.74	1250.71	0.00	1243314.39	3224204.66	40.001251	-104.699683
	6600.00	12.11	93.26	6465.95	1407.95	66.17	-75.94	1271.66	0.00	1243313.38	3224225.63	40.001248	-104.699608
	6700.00	12.11	93.26	6563.72	1505.72	67.20	-77.13	1292.62	0.00	1243312.37	3224246.59	40.001245	-104.699533
	6800.00	12.11	93.26	6661.49	1603.49	68.24	-78.33	1313.57	0.00	1243311.37	3224267.55	40.001241	-104.699458
	6900.00	12.11	93.26	6759.27	1701.27	69.27	-79.52	1334.52	0.00	1244310.36	3224288.51	40.001238	-104.699383
Build/Turn 8 DLS	6953.95	12.11	93.26	6812.02	1754.02	69.83	-80.17	1345.83	0.00	1244309.82	3224299.82	40.001236	-104.699343
	7000.00	12.82	110.07	6856.99	1798.99	71.78	-82.19	1355.45	8.00	1244307.88	3224309.46	40.001231	-104.699309
	7100.00	17.17	136.50	6953.67	1895.67	86.16	-96.73	1376.07	8.00	1244293.52	3224330.22	40.001191	-104.699235
	7200.00	23.49	150.85	7047.45	1989.45	114.17	-124.89	1395.98	8.00	1244265.55	3224350.37	40.001114	-104.699164
	7300.00	30.56	159.13	7136.51	2078.51	155.25	-166.12	1414.77	8.00	1244224.49	3224369.53	40.001000	-104.699097
	7400.00	37.98	164.48	7219.11	2161.11	208.60	-219.61	1432.09	8.00	1244171.16	3224387.33	40.000854	-104.699035
	7500.00	45.57	168.28	7293.64	2235.64	273.20	-284.32	1447.60	8.00	1244106.59	3224403.42	40.000676	-104.698980
	7600.00	53.26	171.21	7358.66	2300.66	347.77	-359.00	1461.00	8.00	1244032.04	3224417.49	40.000471	-104.698932
	7700.00	61.01	173.59	7412.89	2354.89	430.88	-442.19	1472.03	8.00	1243948.95	3224429.26	40.000243	-104.698893
	7800.00	68.79	175.64	7455.29	2397.29	520.89	-532.28	1480.47	8.00	1243858.95	3224438.51	39.999995	-104.698863
	7900.00	76.59	177.48	7485.02	2427.02	616.07	-627.50	1486.16	8.00	1243763.79	3224445.05	39.999734	-104.698842
	8000.00	84.41	179.21	7501.52	2443.52	714.55	-726.01	1488.98	8.00	1243665.31	3224448.76	39.999463	-104.698832
County Line 3107-12H LP	8073.27	90.14	180.44	7505.00	2447.00	787.70	-799.16	1489.20	8.00	1243592.16	3224449.63	39.999263	-104.698831
	8100.00	90.14	180.44	7504.93	2446.93	814.43	-825.89	1488.99	0.00	1243565.43	3224449.67	39.999189	-104.698832
	8200.00	90.14	180.44	7504.89	2446.89	914.43	-848.22	1488.92	0.00	1243466.44	3224448.91	39.998915	-104.698835
	8300.00	90.14	180.44	7504.45	2446.45	1014.43	-1025.88	1487.44	0.00	1243365.44	3224449.91	39.998640	-104.698838
	8400.00	90.14	180.44	7504.20	2446.20	1114.43	-1125.88	1486.67	0.00	1243265.45	3224450.03	39.998366	-104.698841
	8500.00	90.14	180.44	7503.96	2445.96	1214.43	-1225.88	1485.89	0.00	1243165.45	3224450.16	39.998091	-104.698843
	8600.00	90.14	180.44	7503.72	2445.72	1314.43	-1325.87	1485.12	0.00	1243065.45	3224450.28	39.997817	-104.698846
	8700.00	90.14	180.44	7503.47	2445.47	1414.43	-1425.87	1484.34	0.00	1242965.46	3224450.40	39.997542	-104.698849
	8800.00	90.14	180.44	7503.23	2445.23	1514.43	-1525.87	1483.57	0.00	1242865.46	3224450.53	39.997268	-104.698852
	8900.00	90.14	180.44	7502.98	2444.98	1614.43	-1625.86	1482.79	0.00	1242765.47	3224450.65	39.996993	-104.698854
	9000.00	90.14	180.44	7502.74	2444.74	1714.43	-1725.86	1482.02	0.00	1242665.47	3224450.77	39.996719	-104.698857
	9100.00	90.14	180.44	7502.50	2444.50	1814.43	-1825.86	1481.24	0.00	1242565.47	3224450.89	39.996444	-104.698860
	9200.00	90.14	180.44	7502.25	2444.25	1914.43	-1925.85	1480.47	0.00	1242465.48	3224451.02	39.996170	-104.698863
	9300.00	90.14	180.44	7502.01	2444.01	2014.43	-2025.85	1479.70	0.00	1242365.48	3224451.14	39.995895	-104.698866
WP1, Drop 2 DLS Hold	9303.31	90.14	180.44	7502.00	2444.00	2017.74	-2029.16	1479.67	0.00	1242362.17	3224451.14	39.995886	-104.698866
	9383.09	88.54	180.44	7502.92	2444.92	2097.51	-2108.93	1479.05	2.00	1242282.41	3224451.24	39.995667	-104.698868
	9400.00	88.54	180.44	7503.35	2445.35	2114.42	-2125.84	1478.92	0.00	1242265.50	3224451.26	39.995621	-104.698868
	9500.00	88.54	180.44	7505.89	2447.89	2214.38	-2225.80	1478.15	0.00	1242165.54	3224451.39	39.995346	-104.698871
	9600.00	88.54	180.44	7508.43	2450.43	2314.35	-2325.76	1477.37	0.00	1242065.57	3224451.51	39.995072	-104.698874
	9700.00	88.54	180.44	7510.97	2452.97	2414.32	-2426.73	1476.60	0.00	1241965.61	3224451.63	39.994798	-104.698877
	9800.00	88.54	180.44	7513.51	2455.51	2514.29	-2525.69	1475.82	0.00	1241865.64	3224451.75	39.994523	-104.698880
	9900.00	88.54	180.44	7516.05	2458.05	2614.25	-2625.66	1475.05	0.00	1241765.68	3224451.88	39.994249	-104.698882
	10000.00	88.54	180.44	7518.59	2460.59	2714.22	-2725.62	1474.27	0.00	1241665.71	3224452.00	39.993974	-104.698885
	10100.00	88.54	180.44	7521.13	2463.13	2814.19	-2825.59	1473.50	0.00	1241565.75	3224452.12	39.993700	-104.698888
WP2, Build 2 DLS	10173.60	88.54	180.44	7523.00	2465.00	2887.76	-2899.16	1472.93	0.00	1241492.18	3224452.21	39.993498	-104.698890
	10200.00	89.07	180.44	7523.55	2465.55	2914.16	-2925.56	1472.73	2.00	1241465.78	3224452.25	39.993425	-104.698891
	10300.00	91.07	180.44	7523.42	2465.42	3014.15	-3025.55	1471.95	2.00	1241365.79	3224452.37	39.993151	-104.698893
Hold	10301.21	91.10	180.44	7523.40	2465.40	3015.36	-3026.76	1471.94	2.00	1241364.58	3224452.37	39.993148	-104.698893
	10400.00	91.10	180.44	7521.51	2463.51	3114.14	-3125.53	1471.18	0.00	1241265.81	3224452.49	39.992877	-104.698896
	10500.00	91.10	180.44	7519.60	2461.60	3214.12	-3225.50	1470.40	0.00	1241165.84	3224452.61	39.992602	-104.698899
	10600.00	91.10	180.44	7517.68	2459.68	3314.10	-3325.48	1469.63	0.00	1241065.86	3224452.74	39.992328	-104.698902
	10700.00	91.10	180.44	7515.77	2457.77	3414.08	-3425.46	1468.85	0.00	1240965.88	3224452.86	39.992053	-104.698905
	10800.00	91.10	180.44	7513.86	2455.86	3514.06	-3525.44	1468.08	0.00	1240865.90	3224452.98	39.991779	-104.698907
	10900.00	91.10	180.44	7511.94	2453.94	3614.04	-3625.42	1467.30	0.00	1240765.92	3224453.10	39.991504	-104.698910
	11000.00	91.10	180.44	7510.03	2452.03	3714.03	-3725.40	1466.53	0.00	1240665.95	3224453.23	39.991230	-104.698913
WP3, Drop 2 DLS	11053.77	91.10	180.44	7509.00	2451.00	3767.79	-3779.16	1466.11	0.00	1240612.19	3224453.29	39.991082	-104.698914
Hold	11100.00	90.17	180.44	7508.49	2450.49	3814.							

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
WP4, Build 2 DLS  Hold	15200.00	89.73	180.44	7527.72	2469.72	7913.97	-7925.21	1433.99	0.00	1236466.16	3224458.39	39.979701	-104.699030
	15300.00	89.73	180.44	7528.20	2470.20	8013.97	-8025.21	1433.22	0.00	1236366.16	3224458.51	39.979426	-104.699033
	15400.00	89.73	180.44	7528.67	2470.67	8113.97	-8125.21	1432.44	0.00	1236266.17	3224458.63	39.979152	-104.699035
	15500.00	89.73	180.44	7529.14	2471.14	8213.96	-8225.20	1431.67	0.00	1236166.17	3224458.75	39.978877	-104.699038
	15600.00	89.73	180.44	7529.61	2471.61	8313.96	-8325.20	1430.89	0.00	1236066.18	3224458.88	39.978603	-104.699041
	15700.00	89.73	180.44	7530.08	2472.08	8413.96	-8425.19	1430.12	0.00	1235966.18	3224459.00	39.978328	-104.699044
	15800.00	89.73	180.44	7530.55	2472.55	8513.96	-8525.19	1429.35	0.00	1235866.19	3224459.12	39.978054	-104.699047
	15894.97	89.73	180.44	7531.00	2473.00	8608.93	-8620.16	1428.61	0.00	1235771.22	3224459.24	39.977793	-104.699049
	15900.00	89.83	180.44	7531.02	2473.02	8613.96	-8625.19	1428.57	2.00	1235766.19	3224459.25	39.977779	-104.699049
	15934.41	90.52	180.44	7530.91	2472.91	8648.37	-8659.59	1428.30	2.00	1235731.79	3224459.29	39.977685	-104.699050
	16000.00	90.52	180.44	7530.32	2472.32	8713.96	-8725.18	1427.80	0.00	1235666.20	3224459.37	39.977505	-104.699052
	16100.00	90.52	180.44	7529.42	2471.42	8813.95	-8825.17	1427.02	0.00	1235566.21	3224459.49	39.977230	-104.699055
	16200.00	90.52	180.44	7528.51	2470.51	8913.95	-8925.16	1426.25	0.00	1235466.21	3224459.61	39.976956	-104.699058
	16300.00	90.52	180.44	7527.61	2469.61	9013.94	-9025.16	1425.47	0.00	1235366.22	3224459.74	39.976681	-104.699061
	16400.00	90.52	180.44	7526.70	2468.70	9113.94	-9125.15	1424.70	0.00	1235266.23	3224459.86	39.976407	-104.699063
	16500.00	90.52	180.44	7525.80	2467.80	9213.94	-9225.14	1423.92	0.00	1235166.24	3224459.98	39.976133	-104.699066
	16600.00	90.52	180.44	7524.89	2466.89	9313.93	-9325.14	1423.15	0.00	1235066.24	3224460.10	39.975858	-104.699069
	16700.00	90.52	180.44	7523.98	2465.98	9413.93	-9425.13	1422.37	0.00	1234966.25	3224460.23	39.975584	-104.699072
	16800.00	90.52	180.44	7523.08	2465.08	9513.92	-9525.12	1421.60	0.00	1234866.26	3224460.35	39.975309	-104.699074
	16900.00	90.52	180.44	7522.17	2464.17	9613.92	-9625.12	1420.82	0.00	1234766.27	3224460.47	39.975035	-104.699077
	17000.00	90.52	180.44	7521.27	2463.27	9713.92	-9725.11	1420.05	0.00	1234666.28	3224460.59	39.974760	-104.699080
	17100.00	90.52	180.44	7520.36	2462.36	9813.91	-9825.10	1419.27	0.00	1234566.28	3224460.72	39.974486	-104.699083
	17200.00	90.52	180.44	7519.46	2461.46	9913.91	-9925.09	1418.50	0.00	1234466.29	3224460.84	39.974211	-104.699086
	17300.00	90.52	180.44	7518.55	2460.55	10013.90	-10025.09	1417.72	0.00	1234366.30	3224460.96	39.973937	-104.699088
County Line 3107-12H BHL	17361.20	90.52	180.44	7518.00	2460.00	10075.11	-10086.29	1417.25	0.00	1234305.10	3224461.04	39.973769	-104.699090
County Line 3107-12H BHL+100ft	17400.00	90.52	180.44	7517.65	2459.65	10113.90	-10125.08	1416.95	0.00	1234266.31	3224461.08	39.973662	-104.699091
	17461.20	90.52	180.44	7517.09	2459.09	10175.10	-10186.28	1416.47	0.00	1234205.11	3224461.16	39.973494	-104.699093

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- 12H MWD 0' to update
	1	21.000	1731.000	Act Stns	13.500	9.625		NAL_MWD_PLUS_0.5_DEG	Original Hole / County Line 3107- 12H MWD 0' to update
	1	1731.000	2382.123	1/100.000	13.500	9.625		NAL_MWD_PLUS_0.5_DEG	Original Hole / County Line 3107- 12H R1 mdv 27Oct21
	1	2382.123	17461.204	1/100.000	8.500	5.500		NAL_MWD_PLUS_0.5_DEG	Original Hole / County Line 3107- 12H R1 mdv 27Oct21