



Vertical Section (ft) Azim = 179.85° Scale = 1:2000.00(ft) Origin = 0N/-S, 0E/-W

County Line 3112-03H R2 mdv 25Nov21 Proposal Geodetic Report



(Def Plan)

Report Date: November 29, 2021 - 03:44 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 3112-03H
Well: County Line 3112-03H
Borehole: Original Hole
UWI / API#: Unknown / 05-123-51168
Survey Name: County Line 3112-03H R2 mdv 25Nov21
Survey Date: November 29, 2021
Tort / AHD / DDI / ERD Ratio: 128.162 ° / 13604.339 ft / 6.632 / 1.842
Coordinate Reference System: NAD83 Colorado State Plane, Northern Zone, US Feet
Location Lat / Long: N 40° 0' 5.24268", W 104° 42' 16.66332"
Location Grid N/E/Y/X: N 1244376.616 ftUS, E 3222818.379 ftUS
CRS Grid Convergence Angle: 0.5139 °
Grid Scale Factor: 0.99996626
Version / Patch: 2.10.824.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 179.850 ° (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: 7.880 °
Total Gravity Field Strength: 998.9824mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 51638.244 nT
Magnetic Dip Angle: 66.234 °
Declination Date: November 29, 2021
Magnetic Declination Model: HDGM 2021
North Reference: True North
Grid Convergence Used: 0.0000 °
Total Corr Mag North->True North: 7.8803 °
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	1244376.62	3222818.38	40.001456	-104.704629
Adjusted KB	17.00	0.00	0.00	17.00	-5041.00	0.00	0.00	0.00	0.00	1244376.62	3222818.38	40.001456	-104.704629
First Surface Survey	192.00	0.30	73.06	192.00	-4866.00	-0.13	0.13	0.44	0.17	1244376.75	3222818.82	40.001457	-104.704627
	222.00	0.68	63.97	222.00	-4836.00	-0.23	0.23	0.67	1.29	1244376.86	3222819.05	40.001457	-104.704626
	252.00	0.38	90.08	252.00	-4806.00	-0.31	0.31	0.93	1.26	1244376.94	3222819.31	40.001457	-104.704625
	283.00	0.51	73.83	283.00	-4775.00	-0.35	0.35	1.17	0.58	1244376.98	3222819.54	40.001457	-104.704625
	311.00	0.27	74.72	311.00	-4747.00	-0.40	0.40	1.35	0.86	1244377.03	3222819.73	40.001457	-104.704624
	343.00	0.10	316.71	343.00	-4715.00	-0.44	0.44	1.41	1.03	1244377.07	3222819.78	40.001458	-104.704624
	373.00	0.55	284.93	372.99	-4685.01	-0.50	0.50	1.25	1.56	1244377.13	3222819.62	40.001458	-104.704624
	403.00	0.92	261.14	402.99	-4655.01	-0.50	0.50	0.87	1.57	1244377.12	3222819.25	40.001458	-104.704626
	433.00	1.28	263.08	432.99	-4625.01	-0.42	0.42	0.30	1.21	1244377.04	3222818.68	40.001457	-104.704628
	463.00	1.84	273.69	462.98	-4595.02	-0.41	0.41	-0.51	2.09	1244377.02	3222817.86	40.001457	-104.704631
	493.00	2.27	271.96	492.96	-4565.04	-0.47	0.46	-1.59	1.45	1244377.07	3222816.79	40.001458	-104.704634
	523.00	2.78	269.44	522.93	-4535.07	-0.48	0.48	-2.91	1.74	1244377.07	3222815.47	40.001458	-104.704639
	553.00	3.44	273.51	552.88	-4505.12	-0.54	0.52	-4.53	2.32	1244377.10	3222813.84	40.001458	-104.704645
	583.00	4.08	276.54	582.82	-4475.18	-0.72	0.70	-6.49	2.23	1244377.26	3222811.88	40.001458	-104.704652
	613.00	4.99	280.43	612.72	-4445.28	-1.08	1.06	-8.84	3.20	1244377.60	3222809.53	40.001459	-104.704660
	643.00	5.71	280.73	642.59	-4415.41	-1.60	1.57	-11.59	2.40	1244378.09	3222806.78	40.001461	-104.704670
	673.00	6.75	282.31	672.42	-4385.58	-2.27	2.23	-14.78	3.51	1244378.71	3222803.59	40.001462	-104.704681
	703.00	7.43	283.87	702.19	-4355.81	-3.12	3.07	-18.38	2.36	1244379.52	3222799.97	40.001465	-104.704694
	733.00	8.23	282.44	731.91	-4326.09	-4.05	4.00	-22.36	2.74	1244380.41	3222795.98	40.001467	-104.704709
	763.00	9.02	280.38	761.57	-4296.43	-4.95	4.88	-26.77	2.83	1244381.26	3222791.57	40.001470	-104.704724
	793.00	9.67	277.77	791.17	-4266.83	-5.73	5.65	-31.58	2.59	1244381.98	3222786.75	40.001472	-104.704741
	823.00	10.27	276.77	820.71	-4237.29	-6.40	6.30	-36.73	2.08	1244382.59	3222781.59	40.001474	-104.704760
	853.00	10.77	276.16	850.21	-4207.79	-7.03	6.92	-42.18	1.71	1244383.16	3222776.15	40.001475	-104.704779
	883.00	11.29	273.58	879.66	-4178.34	-7.53	7.40	-47.89	2.39	1244383.59	3222770.42	40.001477	-104.704800
	913.00	11.71	271.48	909.05	-4148.95	-7.81	7.66	-53.87	1.98	1244383.80	3222764.45	40.001477	-104.704821
	943.00	12.29	269.80	938.40	-4119.60	-7.89	7.73	-60.10	2.26	1244383.81	3222758.21	40.001478	-104.704843
	973.00	13.37	269.56	967.65	-4090.35	-7.87	7.69	-66.77	3.60	1244383.71	3222751.55	40.001477	-104.704867
	1003.00	14.46	269.44	996.77	-4061.23	-7.82	7.63	-73.98	3.63	1244383.58	3222744.34	40.001477	-104.704893
	1033.00	15.70	270.40	1025.73	-4032.27	-7.84	7.62	-81.78	4.22	1244383.50	3222736.53	40.001477	-104.704921
	1063.00	16.77	270.98	1054.54	-4003.46	-7.96	7.72	-90.17	3.61	1244383.53	3222728.15	40.001478	-104.704951
	1093.00	17.97	270.53	1083.17	-3974.83	-8.10	7.84	-99.13	4.02	1244383.57	3222719.19	40.001478	-104.704983
	1123.00	18.83	269.36	1111.64	-3946.36	-8.11	7.83	-108.59	3.12	1244383.47	3222709.72	40.001478	-104.705016
	1153.00	19.46	268.11	1139.98	-3918.02	-7.92	7.61	-118.43	2.51	1244383.16	3222699.89	40.001477	-104.705051
	1183.00	19.88	268.59	1168.23	-3889.77	-7.66	7.32	-128.52	1.50	1244382.78	3222689.80	40.001476	-104.705087
	1213.00	20.53	268.39	1196.38	-3861.62	-7.41	7.05	-138.88	2.18	1244382.42	3222679.44	40.001476	-104.705124
	1243.00	21.35	268.09	1224.40	-3833.60	-7.11	6.72	-149.60	2.76	1244381.99	3222668.73	40.001475	-104.705163
	1273.00	21.76	268.65	1252.30	-3805.70	-6.83	6.41	-160.62	1.53	1244381.58	3222657.72	40.001474	-104.705202
	1303.00	21.53	267.88	1280.18	-3777.82	-6.52	6.07	-171.68	1.22	1244381.15	3222646.66	40.001473	-104.705241
	1333.00	21.11	267.01	1308.13	-3749.87	-6.06	5.58	-182.57	1.75	1244380.56	3222635.77	40.001472	-104.705280
	1363.00	20.64	266.88	1336.16	-3721.84	-5.52	5.02	-193.25	1.57	1244379.90	3222625.10	40.001470	-104.705318
	1393.00	20.20	266.49	1364.28	-3693.72	-4.94	4.41	-203.70	1.54	1244379.20	3222614.66	40.001468	-104.705356
	1423.00	20.23	266.97	1392.43	-3665.57	-4.29	3.73	-214.04	0.61	1244378.42	3222604.32	40.001467	-104.705393
	1453.00	20.39	266.23	1420.56	-3637.44	-3.61	3.02	-224.43	0.61	1244377.62	3222593.94	40.001465	-104.705430
	1483.00	20.53	266.75	1448.67	-3609.33	-2.99	2.38	-234.90	0.76	1244376.89	3222583.48	40.001463	-104.705467
	1513.00	20.63	267.70	1476.76	-3581.24	-2.51	1.87	-245.43	1.16	1244376.28	3222572.95	40.001461	-104.705505
	1543.00	21.17	267.76	1504.78	-3553.22	-2.12	1.44	-256.12	1.80	1244375.76	3222562.26	40.001460	-104.705543
	1573.00	21.79	267.26	1532.70	-3525.30	-1.67	0.97	-267.10	2.15	1244375.19	3222551.29	40.001459	-104.705582
	1603.00	22.43	266.90	1560.49	-3497.51	-1.12	0.39	-278.37	2.18	1244374.51	3222540.12	40.001457	-104.705622
	1633.00	23.29	267.08	1588.14	-3469.86	-0.54	-0.22	-290.01	2.88	1244373.79	3222528.39	40.001456	-104.705664
	1663.00	24.12	267.56	1615.60	-3442.40	-0.01	-0.78	-302.66	2.84	1244373.12	3222516.35	40.001454	-104.705707
	1693.00	24.77	268.24	1642.92	-3415.08	0.41	-1.24	-314.47	2.36	1244372.56	3222503.95	40.001453	-104.705751
	1723.00	25.47	268.66	1670.08	-3387.92	0.72	-1.58	-327.20	2.41	1244372.10	3222491.22	40.001452	-104.705797
	1753.00	26.41	269.49	1697.06	-3360.94	0.90	-1.79	-340.32	3.36	1244371.77	3222478.10	40.001451	-104.705843
Tie-in to latest survey	1779.00	27.33	269.37	1720.25	-3337.75	0.99	-1.91	-352.07	3.54	1244371.55	3222466.36	40.001451	-104.705885
	1800.00	27.33	269.37	1738.90	-3319.10	1.07	-2.01	-361.71	0.00	1244371.36	3222456.72	40.001451	-104.705920
PTB, Build/Turn 2 DLS	1841.00	27.33	269.37	1775.33	-3282.67	1.23	-2.22	-380.53	0.00	1244370.98	3222437.90	40.001450	-104.705987
	1900.00	28.50	268.97	1827.46	-3230.54	1.56	-2.62	-408.15	2.00	1244370.33	3222410.29	40.001449	-104.706086
	2000.00	30.47	268.36	1914.51	-3143.49	2.58	-3.78	-457.35	2.00	1244368.73	3222361.10	40.001446	-104.706261
	2003.30	30.54	268.34	1917.35	-3140.65	2.63	-3.83	-459.02	2.00	1244368.67	3222359.43	40.001446	-104.706267
	2100.00	30.54	268.34	2000.64	-3057.36	3.92	-5.25	-508.13	0.00	1244366.80	3222310.33	40.001442	-104.706442
	2200.00	30.54	268.34	2086.77	-2971.23	5.27	-6.73	-558.92	0.00	1244364.87	3222259.56	40.001438	-104.706624
	2300.00	30.54	268.34	2172.90	-2885.10	6.61	-8.20	-609.71	0.00	1244362.94	3222208.79	40.001434	-104.706805
	2400.00	30.54	268.34	2259.03	-2798.97	7.95	-9.68	-660.50	0.00	1244361.01	3222158.02	40.001430	-104.706986
	2500.00	30.54	268.34	2345.16	-2712.84	9.29	-11.15	-711.29	0.00	1244359.08	3222107.25	40.001426	-104.707168
	2600.00	30.54	268.34	2431.29	-2626.71	10.63	-12.63	-762.08	0.00	1244357.15	3222056.47	40.001422	-104.707349
	2700.00	30.54	268.34	2517.42	-2540.58	11.98	-14.10	-812.87	0.00	1244355.22	3222005.70	40.001418	-104.707530
	2800.00	30.54	268.34	2603.55	-2454.45	13.32	-15.58	-863.65	0.00	1244353.29	3221954.93	40.001413	-104.707711
	2900.2												

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	30.54	268.34	3981.63	-1076.37	34.79	-39.18	-1676.27	0.00	1244322.41	3221142.59	40.001349	-104.710612
	4500.00	30.54	268.34	4067.76	-990.24	36.13	-40.65	-1727.06	0.00	1244320.48	3221091.82	40.001345	-104.710793
	4600.00	30.54	268.34	4153.89	-904.11	37.47	-42.13	-1777.85	0.00	1244318.55	3221041.05	40.001340	-104.710975
	4700.00	30.54	268.34	4240.02	-817.98	38.81	-43.60	-1828.64	0.00	1244316.62	3220990.27	40.001336	-104.711156
	4800.00	30.54	268.34	4326.15	-731.85	40.16	-45.08	-1879.42	0.00	1244314.69	3220939.50	40.001332	-104.711337
	4900.00	30.54	268.34	4412.27	-645.73	41.50	-46.55	-1930.21	0.00	1244312.76	3220888.73	40.001328	-104.711518
	5000.00	30.54	268.34	4498.40	-559.60	42.84	-48.03	-1981.00	0.00	1244310.84	3220837.96	40.001324	-104.711700
	5100.00	30.54	268.34	4584.53	-473.47	44.18	-49.50	-2031.79	0.00	1244308.90	3220787.19	40.001320	-104.711881
	5200.00	30.54	268.34	4670.66	-387.34	45.52	-50.98	-2082.58	0.00	1244306.96	3220736.42	40.001316	-104.712062
	5300.00	30.54	268.34	4756.79	-301.21	46.87	-52.45	-2133.37	0.00	1244305.03	3220685.65	40.001312	-104.712244
	5400.00	30.54	268.34	4842.92	-215.08	48.21	-53.93	-2184.16	0.00	1244303.10	3220634.87	40.001308	-104.712425
	5500.00	30.54	268.34	4929.05	-128.95	49.55	-55.40	-2234.94	0.00	1244301.17	3220584.10	40.001304	-104.712606
	5600.00	30.54	268.34	5015.18	-42.82	50.89	-56.88	-2285.73	0.00	1244299.24	3220533.33	40.001300	-104.712787
	5700.00	30.54	268.34	5101.31	43.31	52.23	-58.35	-2336.52	0.00	1244297.31	3220482.56	40.001296	-104.712969
	5800.00	30.54	268.34	5187.44	129.44	53.58	-59.83	-2387.31	0.00	1244295.38	3220431.79	40.001292	-104.713150
	5900.00	30.54	268.34	5273.57	215.57	54.92	-61.30	-2438.10	0.00	1244293.45	3220381.02	40.001288	-104.713331
	6000.00	30.54	268.34	5359.70	301.70	56.26	-62.78	-2488.89	0.00	1244291.52	3220330.25	40.001284	-104.713513
	6100.00	30.54	268.34	5445.83	387.83	57.60	-64.25	-2539.67	0.00	1244289.59	3220279.47	40.001280	-104.713694
	6200.00	30.54	268.34	5531.96	473.96	58.94	-65.73	-2590.46	0.00	1244287.66	3220228.70	40.001276	-104.713875
	6300.00	30.54	268.34	5618.09	560.09	60.28	-67.20	-2641.25	0.00	1244285.73	3220177.93	40.001271	-104.714056
	6400.00	30.54	268.34	5704.22	646.22	61.63	-68.67	-2692.04	0.00	1244283.80	3220127.16	40.001267	-104.714238
	6500.00	30.54	268.34	5790.35	732.35	62.97	-70.15	-2742.83	0.00	1244281.87	3220076.39	40.001263	-104.714419
	6600.00	30.54	268.34	5876.48	818.48	64.31	-71.62	-2793.62	0.00	1244279.94	3220025.62	40.001259	-104.714600
	6700.00	30.54	268.34	5962.61	904.61	65.65	-73.10	-2844.41	0.00	1244278.01	3219974.85	40.001255	-104.714782
	6800.00	30.54	268.34	6048.74	990.74	66.99	-74.57	-2895.19	0.00	1244276.08	3219924.07	40.001251	-104.714963
	6900.00	30.54	268.34	6134.87	1076.87	68.34	-76.05	-2945.98	0.00	1244274.15	3219873.30	40.001247	-104.715144
	7000.00	30.54	268.34	6221.00	1163.00	69.68	-77.52	-2996.77	0.00	1244272.22	3219822.53	40.001243	-104.715325
	7100.00	30.54	268.34	6307.13	1249.13	71.02	-79.00	-3047.56	0.00	1244270.29	3219771.76	40.001239	-104.715507
	7200.00	30.54	268.34	6393.26	1335.26	72.36	-80.47	-3098.35	0.00	1244268.36	3219720.99	40.001235	-104.715688
	7300.00	30.54	268.34	6479.39	1421.39	73.70	-81.95	-3149.14	0.00	1244266.43	3219670.22	40.001231	-104.715869
	7400.00	30.54	268.34	6565.52	1507.52	75.05	-83.42	-3199.93	0.00	1244264.50	3219619.45	40.001227	-104.716051
	7500.00	30.54	268.34	6651.65	1593.65	76.39	-84.90	-3250.71	0.00	1244262.57	3219568.67	40.001223	-104.716232
	7600.00	30.54	268.34	6737.78	1679.78	77.73	-86.37	-3301.50	0.00	1244260.64	3219517.90	40.001219	-104.716413
KOP, Build/Turn 8 DLS	7614.17	30.54	268.34	6749.98	1691.98	77.92	-86.58	-3308.70	0.00	1244260.36	3219510.71	40.001218	-104.716439
	7700.00	31.39	255.07	6823.67	1765.67	84.21	-92.98	-3352.15	8.00	1244253.58	3219467.32	40.001200	-104.716594
	7800.00	33.98	241.02	6907.95	1849.95	104.36	-113.26	-3401.83	8.00	1244232.85	3219417.82	40.001145	-104.716771
	7900.00	37.93	229.14	6988.99	1930.99	137.93	-146.97	-3449.60	8.00	1244198.72	3219370.36	40.001052	-104.716942
	8000.00	42.87	219.41	7069.20	2012.20	184.28	-194.43	-3494.51	8.00	1244151.86	3219325.87	40.000965	-104.717102
	8100.00	48.48	211.43	7135.10	2077.10	242.50	-251.75	-3535.69	8.00	1244071.17	3219285.22	40.000765	-104.717249
	8200.00	54.56	204.77	7197.33	2139.33	311.45	-320.80	-3572.34	8.00	1244023.80	3219249.19	40.000575	-104.717380
	8300.00	60.95	199.08	7250.68	2192.68	389.79	-399.23	-3603.75	8.00	1243945.10	3219218.48	40.000360	-104.717492
	8400.00	67.56	194.06	7294.11	2236.11	476.00	-485.51	-3629.31	8.00	1243858.59	3219193.70	40.000123	-104.717583
	8500.00	74.30	189.50	7326.78	2268.78	568.41	-577.96	-3648.51	8.00	1243765.97	3219175.33	39.999869	-104.717651
	8600.00	81.13	185.24	7348.05	2290.05	665.20	-674.79	-3660.99	8.00	1243669.04	3219163.72	39.999603	-104.717696
	8700.00	88.01	181.14	7357.51	2299.51	764.51	-774.11	-3666.51	8.00	1243569.68	3219159.10	39.999331	-104.717716
County Line 3112-03H LP	8725.37	89.76	180.10	7358.00	2300.00	789.87	-799.47	-3666.78	8.00	1243544.32	3219159.05	39.999261	-104.717717
	8800.00	89.76	180.10	7358.31	2300.31	864.50	-874.10	-3666.92	0.00	1243469.70	3219159.58	39.999056	-104.717717
	8900.00	89.76	180.10	7358.73	2300.73	964.49	-974.10	-3667.10	0.00	1243369.70	3219160.30	39.998872	-104.717718
	9000.00	89.76	180.10	7359.14	2301.14	1064.49	-1074.10	-3667.28	0.00	1243269.71	3219161.01	39.998507	-104.717718
	9100.00	89.76	180.10	7359.56	2301.56	1164.49	-1174.10	-3667.46	0.00	1243169.72	3219161.73	39.998233	-104.717719
	9200.00	89.76	180.10	7359.98	2301.98	1264.49	-1274.09	-3667.64	0.00	1243069.72	3219162.44	39.997958	-104.717719
	9300.00	89.76	180.10	7360.39	2302.39	1364.49	-1374.09	-3667.82	0.00	1242969.73	3219163.16	39.997684	-104.717720
	9400.00	89.76	180.10	7360.81	2302.81	1464.48	-1474.09	-3668.01	0.00	1242869.74	3219163.87	39.997409	-104.717721
	9500.00	89.76	180.10	7361.23	2303.23	1564.48	-1574.09	-3668.19	0.00	1242769.74	3219164.58	39.997135	-104.717721
	9600.00	89.76	180.10	7361.64	2303.64	1664.48	-1674.09	-3668.37	0.00	1242669.75	3219165.30	39.996860	-104.717722
	9700.00	89.76	180.10	7362.06	2304.06	1764.48	-1774.09	-3668.55	0.00	1242569.76	3219166.02	39.996586	-104.717722
	9800.00	89.76	180.10	7362.48	2304.48	1864.48	-1874.09	-3668.73	0.00	1242469.77	3219166.73	39.996311	-104.717723
	9900.00	89.76	180.10	7362.89	2304.89	1964.48	-1974.09	-3668.91	0.00	1242369.77	3219167.45	39.996037	-104.717724
	10000.00	89.76	180.10	7363.31	2305.31	2064.47	-2074.09	-3669.10	0.00	1242269.78	3219168.16	39.995762	-104.717724
	10100.00	89.76	180.10	7363.73	2305.73	2164.47	-2174.09	-3669.28	0.00	1242169.79	3219168.88	39.995487	-104.717725
	10200.00	89.76	180.10	7364.14	2306.14	2264.47	-2274.08	-3669.46	0.00	1242069.79	3219169.59	39.995213	-104.717725
	10300.00	89.76	180.10	7364.56	2306.56	2364.47	-2374.08	-3669.64	0.00	1241969.80	3219170.31	39.994938	-104.717726
	10400.00	89.76	180.10	7364.98	2306.98	2464.47	-2474.08	-3669.82	0.00	1241869.81	3219171.03	39.994664	-104.717727
	10500.00	89.76	180.10	7365.39	2307.39	2564.46	-2574.08	-3670.01	0.00	1241769.81	3219171.74	39.994389	-104.717727
	10600.00	89.76	180.10	7365.81	2307.81	2664.46	-2674.08	-3670.19	0.00	1241669.82	3219172.46	39.994115	-104.717728
	10700.00	89.76	180.10	7366.23	2308.23	2764.46	-2774.08	-3670.37	0.00	1241569.83	3219173.17	39.993840	-104.717728
	10800.00	89.76	180.10	7366.64	2308.64	2864.46	-2874.08	-3670.55	0.00	1241469.84	3219173.89	39.993566	-104.717729
	10900.00	89.76	180.10	7367.06	2309.06	2964.46	-2974.08	-3670.73	0.00	1241369.84	3219174.60	39.993291	-104.717730
	11000.00	89.76	180.10	7367.48	2309.48	3064.45	-3074.08	-3670.91	0.00	1241269.85	3219175.32	39.993017	-104.717730
	11100.00	89.76	180.10	7367.89	2309.89	3164.45	-3174.07	-3671.10	0.00	1241169.86	3219176.03	39.992742	-104.717731
	11200.00	89.76	180.10	7368.31	2310.31	3264.45	-3274.07	-3671.28	0.00	1241069.86	3219176.75	39.992468	-104.717731
	11300.00	89.76	180.10	7368.73	2310.73	3364.45	-3374.07	-3671.46	0.00	1240969.87	3219177.46	39.992193	-104.717732
	11400.00	89.76	180.10	7369.14	2311.14	3464.45	-3474.07	-3671.64	0.00	124086			

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
	15400.00	90.08	181.52	7383.61	2325.61	7464.21	-7473.90	-3688.78	0.00	1236870.20	3219196.91	39.980939	-104.717792
	15500.00	90.08	181.52	7383.47	2325.47	7564.17	-7573.86	-3691.44	0.00	1236770.22	3219195.15	39.980665	-104.717801
	15600.00	90.08	181.52	7383.34	2325.34	7664.13	-7673.83	-3694.10	0.00	1236670.24	3219193.38	39.980390	-104.717810
	15700.00	90.08	181.52	7383.20	2325.20	7764.09	-7773.79	-3696.76	0.00	1236570.26	3219191.62	39.980116	-104.717820
	15800.00	90.08	181.52	7383.07	2325.07	7864.04	-7873.76	-3699.43	0.00	1236470.28	3219189.86	39.979841	-104.717829
	15900.00	90.08	181.52	7382.93	2324.93	7964.00	-7973.72	-3702.09	0.00	1236370.30	3219188.09	39.979567	-104.717839
	16000.00	90.08	181.52	7382.79	2324.79	8063.96	-8073.68	-3704.75	0.00	1236270.32	3219186.33	39.979293	-104.717848
	16100.00	90.08	181.52	7382.66	2324.66	8163.91	-8173.65	-3707.41	0.00	1236170.34	3219184.56	39.979018	-104.717858
	16200.00	90.08	181.52	7382.52	2324.52	8263.87	-8273.61	-3710.07	0.00	1236070.36	3219182.80	39.978744	-104.717867
	16300.00	90.08	181.52	7382.39	2324.39	8363.83	-8373.58	-3712.73	0.00	1235970.37	3219181.04	39.978469	-104.717877
	16400.00	90.08	181.52	7382.25	2324.25	8463.79	-8473.54	-3715.39	0.00	1235870.39	3219179.27	39.978195	-104.717886
	16500.00	90.08	181.52	7382.11	2324.11	8563.74	-8573.51	-3718.05	0.00	1235770.41	3219177.51	39.977920	-104.717895
	16600.00	90.08	181.52	7381.98	2323.98	8663.70	-8673.47	-3720.71	0.00	1235670.43	3219175.74	39.977646	-104.717905
	16700.00	90.08	181.52	7381.84	2323.84	8763.66	-8773.44	-3723.37	0.00	1235570.45	3219173.98	39.977372	-104.717914
	16800.00	90.08	181.52	7381.71	2323.71	8863.61	-8873.40	-3726.03	0.00	1235470.47	3219172.21	39.977097	-104.717924
	16900.00	90.08	181.52	7381.57	2323.57	8963.57	-8973.36	-3728.70	0.00	1235370.49	3219170.45	39.976823	-104.717933
	17000.00	90.08	181.52	7381.43	2323.43	9063.53	-9073.33	-3731.36	0.00	1235270.51	3219168.69	39.976548	-104.717943
	17100.00	90.08	181.52	7381.30	2323.30	9163.49	-9173.29	-3734.02	0.00	1235170.53	3219166.92	39.976274	-104.717952
	17200.00	90.08	181.52	7381.16	2323.16	9263.44	-9273.26	-3736.68	0.00	1235070.55	3219165.16	39.976000	-104.717961
	17300.00	90.08	181.52	7381.03	2323.03	9363.40	-9373.22	-3739.34	0.00	1234970.57	3219163.39	39.975725	-104.717971
	17400.00	90.08	181.52	7380.89	2322.89	9463.36	-9473.19	-3742.00	0.00	1234870.59	3219161.63	39.975451	-104.717980
	17500.00	90.08	181.52	7380.75	2322.75	9563.32	-9573.15	-3744.66	0.00	1234770.61	3219159.87	39.975176	-104.717990
	17600.00	90.08	181.52	7380.62	2322.62	9663.27	-9673.12	-3747.32	0.00	1234670.62	3219158.10	39.974902	-104.717999
	17700.00	90.08	181.52	7380.48	2322.48	9763.23	-9773.08	-3749.98	0.00	1234570.64	3219156.34	39.974628	-104.718009
	17800.00	90.08	181.52	7380.35	2322.35	9863.19	-9873.05	-3752.64	0.00	1234470.66	3219154.57	39.974353	-104.718018
	17900.00	90.08	181.52	7380.21	2322.21	9963.14	-9973.01	-3755.30	0.00	1234370.68	3219152.81	39.974079	-104.718028
	18000.00	90.08	181.52	7380.07	2322.07	10063.10	-10072.97	-3757.97	0.00	1234270.70	3219151.05	39.973804	-104.718037
County Line 3112-03H BHL	18053.85	90.08	181.52	7380.00	2322.00	10116.93	-10126.81	-3759.40	0.00	1234216.86	3219150.10	39.973657	-104.718042
	18100.00	90.08	181.52	7379.94	2321.94	10163.06	-10172.94	-3760.63	0.00	1234170.72	3219149.28	39.973530	-104.718046
County Line 3112-03H BHL+100ft	18153.85	90.08	181.52	7379.86	2321.86	10216.89	-10226.77	-3762.06	0.00	1234116.88	3219148.33	39.973382	-104.718052

Survey Type: Def Plan

Survey Error Model: ISCWSA Rev 3 *** 3-D 97.071% Confidence 3.0000 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		B001Mb_MWD+HRGM-Depth Only	Original Hole / County Line 3112- 03H MWD 0' to update
	1	21.000	1779.000	Act Stns	13.500	9.625		B001Mb_MWD+HRGM	Original Hole / County Line 3112- 03H MWD 0' to update
	1	1779.000	2495.910	1/100.000	13.500	9.625		B001Mb_MWD+HRGM	Original Hole / County Line 3112- 03H R2 mdv 25Nov21
	1	2495.910	18153.852	1/100.000	8.500	5.500		B001Mb_MWD+HRGM	Original Hole / County Line 3112- 03H R2 mdv 25Nov21