

Grande 4-65 20-19 3CH Plan #1 Proposal Geodetic Report

(Def Plan)

Report Date: August 09, 2021 - 10:03 AM
Client: Crestone Peak Resources
Field: CO, Arapahoe County (NAD 83 CZ)
Structure / Slot: Crestone Peak 21-04S-65W (Grande South Pad) / Grande 4-65 20-19 3CH
Well: Grande 4-65 20-19 3CH
Borehole: Original Hole
UWI / API#: Unknown / Unknown
Survey Name: Grande 4-65 20-19 3CH Plan #1
Survey Date: August 06, 2021
Tort / AHD / DDI / ERD Ratio: 101.720 ° / 10910.688 ft / 6.403 / 1.372
Coordinate Reference System: NAD83 Colorado State Plane, Central Zone, US Feet
Location Lat / Long: N 39° 41' 8.26440", W 104° 40' 36.87600"
Location Grid N/E Y/X: N 1675668.687 ftUS, E 3231647.403 ftUS
CRS Grid Convergence Angle: 0.5191 °
Grid Scale Factor: 0.9999879
Version / Patch: 2.10.826.8

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 272.798 ° (True North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: KB 28ft
TVD Reference Elevation: 5647.200 ft above MSL
Seabed / Ground Elevation: 5619.200 ft above MSL
Magnetic Declination: 8.407 °
Total Gravity Field Strength: 998.9166mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 51414.430 nT
Magnetic Dip Angle: 66.305 °
Declination Date: August 06, 2021
Magnetic Declination Model: HDGM 2021
North Reference: True North
Grid Convergence Used: 0.0000 °
Total Corr Mag North->True North: 8.4074 °
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)	
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	1675668.69	3231647.40	39.685629	-104.676910
	100.00	0.00	339.37	100.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	200.00	0.00	339.37	200.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	300.00	0.00	339.37	300.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	400.00	0.00	339.37	400.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	500.00	0.00	339.37	500.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	600.00	0.00	339.37	600.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	700.00	0.00	339.37	700.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	800.00	0.00	339.37	800.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	900.00	0.00	339.37	900.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	1000.00	0.00	339.37	1000.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	1100.00	0.00	339.37	1100.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	1200.00	0.00	339.37	1200.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	1300.00	0.00	339.37	1300.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	1400.00	0.00	339.37	1400.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	1500.00	0.00	339.37	1500.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	1600.00	0.00	339.37	1600.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	1700.00	0.00	339.37	1700.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	1800.00	0.00	339.37	1800.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	1900.00	0.00	339.37	1900.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	2000.00	0.00	339.37	2000.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	2100.00	0.00	339.37	2100.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	2200.00	0.00	339.37	2200.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	2300.00	0.00	339.37	2300.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	2400.00	0.00	339.37	2400.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	2500.00	0.00	339.37	2500.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	2600.00	0.00	339.37	2600.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	2700.00	0.00	339.37	2700.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	2800.00	0.00	339.37	2800.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	2900.00	0.00	339.37	2900.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	3000.00	0.00	339.37	3000.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	3100.00	0.00	339.37	3100.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	3200.00	0.00	339.37	3200.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	3300.00	0.00	339.37	3300.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	3400.00	0.00	339.37	3400.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	3500.00	0.00	339.37	3500.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	3600.00	0.00	339.37	3600.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	3700.00	0.00	339.37	3700.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	3800.00	0.00	339.37	3800.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	3900.00	0.00	339.37	3900.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	4000.00	0.00	339.37	4000.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	4100.00	0.00	339.37	4100.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	4200.00	0.00	339.37	4200.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	4300.00	0.00	339.37	4300.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	4400.00	0.00	339.37	4400.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
	4500.00	0.00	339.37	4500.00	0.00	0.00	0.00	0.00	1675668.69	3231647.40	39.685629	-104.676910	
Build 1 DLS	4600.00	2.00	339.37	4599.98	0.69	1.63	-0.61	2.00	1675670.31	3231646.77	39.685633	-104.676912	
	4700.00	4.00	339.37	4699.84	2.77	6.53	-2.46	2.00	1675675.20	3231644.89	39.685647	-104.676919	
	4800.00	6.00	339.37	4799.45	6.24	14.69	-5.53	2.00	1675683.32	3231641.74	39.685669	-104.676930	
	4900.00	8.00	339.37	4898.70	11.08	26.09	-9.82	2.00	1675694.69	3231637.35	39.685701	-104.676945	
Hold	5000.00	10.00	339.37	4997.47	17.30	40.73	-15.33	2.00	1675709.28	3231631.70	39.685741	-104.676964	
	5036.27	10.73	339.37	5033.15	19.90	46.84	-17.63	2.00	1675715.36	3231629.35	39.685758	-104.676973	
	5100.00	10.73	339.37	5095.76	24.61	57.94	-21.81	0.00	1675726.42	3231625.07	39.685788	-104.676987	
	5200.00	10.73	339.37	5194.01	32.01	75.36	-28.36	0.00	1675743.78	3231618.36	39.685836	-104.677011	
	5300.00	10.73	339.37	5292.27	39.41	92.77	-34.92	0.00	1675761.14	3231611.64	39.685884	-104.677034	
	5400.00	10.73	339.37	5390.52	46.81	110.19	-41.48	0.00	1675778.50	3231604.93	39.685932	-104.677057	
	5500.00	10.73	339.37	5488.77	54.20	127.61	-48.03	0.00	1675795.85	3231598.22	39.685979	-104.677081	
	5600.00	10.73	339.37	5587.03	61.60	145.03	-54.59	0.00	1675813.21	3231591.50	39.686027	-104.677104	
	5700.00	10.73	339.37	5685.28	69.00	162.44	-61.14	0.00	1675830.57	3231584.79	39.686075	-104.677127	
	5800.00	10.73	339.37	5783.53	76.40	179.86	-67.70	0.00	1675847.92	3231578.08	39.686123	-104.677151	
	5900.00	10.73	339.37	5881.78	83.80	197.28	-74.26	0.00	1675865.28	3231571.36	39.686171	-104.677174	
	6000.00	10.73	339.37	5980.04	91.19	214.70	-80.81	0.00	1675882.64	3231564.65	39.686218	-104.677197	
	6100.00	10.73	339.37	6078.29	98.59	232.11	-87.37	0.00	1675900.00	3231557.94	39.686266	-104.677220	
	6200.00	10.73	339.37	6176.54	105.99	249.53	-93.92	0.00	1675917.35	3231551.22	39.686314	-104.677244	
	6300.00	10.73	339.37	6274.80	113.39	266.95	-100.48	0.00	1675934.71	3231544.51	39.686362	-104.677267	
	6400.00	10.73	339.37	6373.05	120.79	284.36	-107.04	0.00	1675952.07	3231537.80	39.686410	-104.677290	
	6500.00	10.73	339.37	6471.30	128.19	301.78	-113.59	0.00	1675969.42	3231531.08	39.686457	-104.677314	
	6600.00	10.73	339.37	6569.56	135.58	319.20	-120.15	0.00	1675986.78	3231524.37	39.686505	-104.677337	
	6700.00	10.73	339.37	6667.81	142.98	336.62	-126.70	0.00	1676004.14	3231517.66	39.686553	-104.677360	
	6800.00	10.73	339.37	6766.06	150.38	353.03	-133.26	0.00	1676021.49	3231510.94	39.686601	-104.677383	
	6900.00	10.73	339.37	6864.31	157.78	371.45	-139.82	0.00	1676038.85	3231504.23	39.686649	-104.677407	
	7000.00	10.73	339.37	6962.57	165.18	388.87	-146.37	0.00	1676056.21	3231497.52	39.686697	-104.677430	
	7100.00	10.73	339.37	7060.82	172.58	406.29	-152.93	0.00	1676073.57	3231490.80	39.686744	-104.677454	
	7200.00	10.73	339.37	7159.07	179.97	423.70	-159.48	0.00	1676090.92	3231484.09	39.686792	-104.677477	
	7300.00	10.73	339.3										

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
	7400.00	13.62	314.51	7355.25	198.55	458.21	-176.39	8.00	1676125.28	3231466.87	39.686887	-104.677537
	7500.00	19.77	296.33	7451.05	222.88	473.99	-199.98	8.00	1676140.84	3231443.13	39.686930	-104.677621
	7600.00	26.88	286.98	7542.85	260.37	488.12	-236.83	8.00	1676154.63	3231406.17	39.686969	-104.677751
	7700.00	34.37	281.39	7628.86	310.28	500.31	-286.20	8.00	1676166.38	3231356.68	39.687002	-104.677927
	7800.00	42.02	277.62	7707.40	371.64	510.34	-347.15	8.00	1676175.86	3231295.65	39.687030	-104.678143
	7900.00	49.77	274.83	7776.95	443.26	518.01	-418.48	8.00	1676182.87	3231224.25	39.687051	-104.678397
	8000.00	57.57	272.62	7836.15	523.75	523.16	-498.81	8.00	1676187.30	3231143.88	39.687065	-104.678682
	8100.00	65.40	270.77	7883.85	611.53	525.70	-586.57	8.00	1676189.05	3231056.10	39.687072	-104.678994
	8200.00	73.26	269.13	7919.12	704.90	525.58	-680.05	8.00	1676188.08	3230962.62	39.687072	-104.679326
	8300.00	81.12	267.62	7941.28	802.04	522.80	-777.44	8.00	1676184.42	3230865.26	39.687064	-104.679672
	8400.00	88.99	266.18	7949.89	901.06	517.42	-876.85	8.00	1676178.13	3230765.92	39.687049	-104.680026
TPZ Point, Turn 2 DLS	8412.81	90.00	266.00	7950.00	913.78	516.55	-889.63	8.00	1676177.14	3230753.14	39.687047	-104.680071
	8500.00	90.00	267.74	7950.00	1000.50	511.79	-976.68	2.00	1676171.60	3230666.14	39.687034	-104.680380
	8600.00	90.00	269.74	7950.00	1100.24	509.60	-1076.65	2.00	1676168.50	3230566.19	39.687028	-104.680736
Hold to TD	8615.13	90.00	270.05	7950.00	1115.36	509.57	-1091.79	2.00	1676168.34	3230551.06	39.687028	-104.680789
	8700.00	90.00	270.05	7950.00	1200.13	509.64	-1176.65	0.00	1676167.64	3230466.20	39.687028	-104.681091
	8800.00	90.00	270.05	7950.00	1300.01	509.72	-1276.65	0.00	1676166.81	3230366.20	39.687028	-104.681446
	8900.00	90.00	270.05	7950.00	1399.90	509.80	-1376.65	0.00	1676165.99	3230266.21	39.687028	-104.681801
	9000.00	90.00	270.05	7950.00	1499.78	509.88	-1476.65	0.00	1676165.16	3230166.21	39.687029	-104.682157
	9100.00	90.00	270.05	7950.00	1599.67	509.96	-1576.65	0.00	1676164.34	3230066.22	39.687029	-104.682512
	9200.00	90.00	270.05	7950.00	1699.55	510.04	-1676.65	0.00	1676163.51	3229966.22	39.687029	-104.682867
	9300.00	90.00	270.05	7950.00	1799.44	510.12	-1776.65	0.00	1676162.69	3229866.23	39.687029	-104.683223
	9400.00	90.00	270.05	7950.00	1899.32	510.21	-1876.65	0.00	1676161.86	3229766.23	39.687029	-104.683578
	9500.00	90.00	270.05	7950.00	1999.20	510.29	-1976.65	0.00	1676161.04	3229666.24	39.687030	-104.683933
	9600.00	90.00	270.05	7950.00	2099.09	510.37	-2076.65	0.00	1676160.21	3229566.24	39.687030	-104.684289
	9700.00	90.00	270.05	7950.00	2198.97	510.45	-2176.65	0.00	1676159.39	3229466.25	39.687030	-104.684644
	9800.00	90.00	270.05	7950.00	2298.86	510.53	-2276.65	0.00	1676158.56	3229366.25	39.687030	-104.684999
	9900.00	90.00	270.05	7950.00	2398.74	510.61	-2376.65	0.00	1676157.74	3229266.25	39.687030	-104.685355
	10000.00	90.00	270.05	7950.00	2498.63	510.69	-2476.65	0.00	1676156.91	3229166.26	39.687031	-104.685710
	10100.00	90.00	270.05	7950.00	2598.51	510.77	-2576.65	0.00	1676156.09	3229066.26	39.687031	-104.686066
	10200.00	90.00	270.05	7950.00	2698.40	510.85	-2676.65	0.00	1676155.26	3228966.27	39.687031	-104.686421
	10300.00	90.00	270.05	7950.00	2798.28	510.93	-2776.65	0.00	1676154.44	3228866.27	39.687031	-104.686776
	10400.00	90.00	270.05	7950.00	2898.17	511.02	-2876.65	0.00	1676153.61	3228766.28	39.687031	-104.687131
	10500.00	90.00	270.05	7950.00	2998.05	511.10	-2976.65	0.00	1676152.79	3228666.28	39.687032	-104.687487
	10600.00	90.00	270.05	7950.00	3097.94	511.18	-3076.65	0.00	1676151.96	3228566.29	39.687032	-104.687842
	10700.00	90.00	270.05	7950.00	3197.82	511.26	-3176.65	0.00	1676151.14	3228466.29	39.687032	-104.688197
	10800.00	90.00	270.05	7950.00	3297.71	511.34	-3276.65	0.00	1676150.31	3228366.30	39.687032	-104.688553
	10900.00	90.00	270.05	7950.00	3397.59	511.42	-3376.65	0.00	1676149.49	3228266.30	39.687032	-104.688908
	11000.00	90.00	270.05	7950.00	3497.48	511.50	-3476.65	0.00	1676148.66	3228166.31	39.687033	-104.689263
	11100.00	90.00	270.05	7950.00	3597.36	511.58	-3576.65	0.00	1676147.84	3228066.31	39.687033	-104.689618
	11200.00	90.00	270.05	7950.00	3697.24	511.66	-3676.65	0.00	1676147.01	3227966.32	39.687033	-104.689974
	11300.00	90.00	270.05	7950.00	3797.13	511.75	-3776.65	0.00	1676146.19	3227866.32	39.687033	-104.690329
	11400.00	90.00	270.05	7950.00	3897.01	511.83	-3876.65	0.00	1676145.36	3227766.33	39.687033	-104.690684
	11500.00	90.00	270.05	7950.00	3996.90	511.91	-3976.65	0.00	1676144.54	3227666.33	39.687033	-104.691040
	11600.00	90.00	270.05	7950.00	4096.78	511.99	-4076.65	0.00	1676143.71	3227566.34	39.687034	-104.691395
	11700.00	90.00	270.05	7950.00	4196.67	512.07	-4176.65	0.00	1676142.89	3227466.34	39.687034	-104.691750
	11800.00	90.00	270.05	7950.00	4296.55	512.15	-4276.65	0.00	1676142.06	3227366.35	39.687034	-104.692106
	11900.00	90.00	270.05	7950.00	4396.44	512.23	-4376.65	0.00	1676141.24	3227266.35	39.687034	-104.692461
	12000.00	90.00	270.05	7950.00	4496.32	512.31	-4476.65	0.00	1676140.41	3227166.36	39.687034	-104.692816
	12100.00	90.00	270.05	7950.00	4596.21	512.39	-4576.65	0.00	1676139.59	3227066.36	39.687035	-104.693172
	12200.00	90.00	270.05	7950.00	4696.09	512.48	-4676.65	0.00	1676138.76	3226966.37	39.687035	-104.693527
	12300.00	90.00	270.05	7950.00	4795.98	512.56	-4776.65	0.00	1676137.94	3226866.37	39.687035	-104.693882
	12400.00	90.00	270.05	7950.00	4895.86	512.64	-4876.65	0.00	1676137.11	3226766.38	39.687035	-104.694238
	12500.00	90.00	270.05	7950.00	4995.75	512.72	-4976.65	0.00	1676136.29	3226666.38	39.687035	-104.694593
	12600.00	90.00	270.05	7950.00	5095.63	512.80	-5076.65	0.00	1676135.46	3226566.38	39.687035	-104.694948
	12700.00	90.00	270.05	7950.00	5195.52	512.88	-5176.65	0.00	1676134.64	3226466.39	39.687036	-104.695304
	12800.00	90.00	270.05	7950.00	5295.40	512.96	-5276.65	0.00	1676133.81	3226366.39	39.687036	-104.695659
	12900.00	90.00	270.05	7950.00	5395.29	513.04	-5376.65	0.00	1676132.99	3226266.40	39.687036	-104.696014
	13000.00	90.00	270.05	7950.00	5495.17	513.12	-5476.65	0.00	1676132.16	3226166.40	39.687036	-104.696369
	13100.00	90.00	270.05	7950.00	5595.05	513.20	-5576.65	0.00	1676131.34	3226066.41	39.687036	-104.696725
	13200.00	90.00	270.05	7950.00	5694.94	513.29	-5676.65	0.00	1676130.51	3225966.41	39.687036	-104.697080
	13300.00	90.00	270.05	7950.00	5794.82	513.37	-5776.65	0.00	1676129.69	3225866.42	39.687037	-104.697435
	13400.00	90.00	270.05	7950.00	5894.71	513.45	-5876.65	0.00	1676128.86	3225766.42	39.687037	-104.697791
	13500.00	90.00	270.05	7950.00	5994.59	513.53	-5976.65	0.00	1676128.04	3225666.43	39.687037	-104.698146
	13600.00	90.00	270.05	7950.00	6094.48	513.61	-6076.65	0.00	1676127.21	3225566.43	39.687037	-104.698501
	13700.00	90.00	270.05	7950.00	6194.36	513.69	-6176.65	0.00	1676126.39	3225466.44	39.687037	-104.698857
	13800.00	90.00	270.05	7950.00	6294.25	513.77	-6276.65	0.00	1676125.56	3225366.44	39.687037	-104.699212
	13900.00	90.00	270.05	7950.00	6394.13	513.85	-6376.65	0.00	1676124.74	3225266.45	39.687037	-104.699567
	14000.00	90.00	270.05	7950.00	6494.02	513.93	-6476.65	0.00	1676123.91	3225166.45	39.687038	-104.699923
	14100.00	90.00	270.05	7950.00	6593.90	514.02	-6576.65	0.00	1676123.09	3225066.46	39.687038	-104.700278
	14200.00	90.00	270.05	7950.00	6693.79	514.10	-6676.65	0.00	1676122.26	3224966.46	39.687038	-104.700633
	14300.00	90.00	270.05	7950.00	6793.67	514.18	-6776.65	0.00	1676121.44	3224866.47	39.687038	-104.700989
	14400.00	90.00	270.05	7950.00	6893.56	514.26	-6876.65	0.00	1676120.61	3224766.47	39.687038	-104.701344
	14500.00	90.00	270.05	7950.00	6993.44	514.34	-6976.65	0.00	1676119.79	3224666.48	39.687038	-104.701699
	14600.00	90.00	270.05	7950.00	7093.33	514.42	-7076.65	0.00	1676118.96	3224566.48	39.687039	-104.702055
	14700.00	90.00	270.05	7950.00	7193.21	514.50	-7176.65	0.00	1676118.14	3224466.49	39.687039	-104.702410
	14800.00	90.00	270.05	7950.00	7293.10	514.58	-7276.65	0.00	1676117.31	3224366.49	39.687039	-104.702765
	14900.00	90.00	270.05	7950.00	73							

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
	18000.00	90.00	270.05	7950.00	10489.41	517.18	-10476.65	0.00	1676090.92	3221166.64	39.687043	-104.714135
Grande 4-65 20-19 3CH BHL	18100.00	90.00	270.05	7950.00	10589.29	517.26	-10576.65	0.00	1676090.09	3221066.65	39.687043	-104.714491
	18107.97	90.00	270.05	7950.00	10597.25	517.26	-10584.62	0.00	1676090.03	3221058.68	39.687043	-104.714519

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	28.000	1/100.000	13.500	9.625		NAL_MWD-NON_SLB-Depth Only	Original Hole / Grande 4-65 20-19 3CH Plan #1
	1	28.000	2200.000	1/100.000	13.500	9.625		NAL_MWD-NON_SLB	Original Hole / Grande 4-65 20-19 3CH Plan #1
	1	2200.000	18107.968	1/100.000	8.500	5.500		NAL_MWD_PLUS_0.5_DEG	Original Hole / Grande 4-65 20-19 3CH Plan #1