



Crestone Peak Resources

Schlumberger

Plan 0

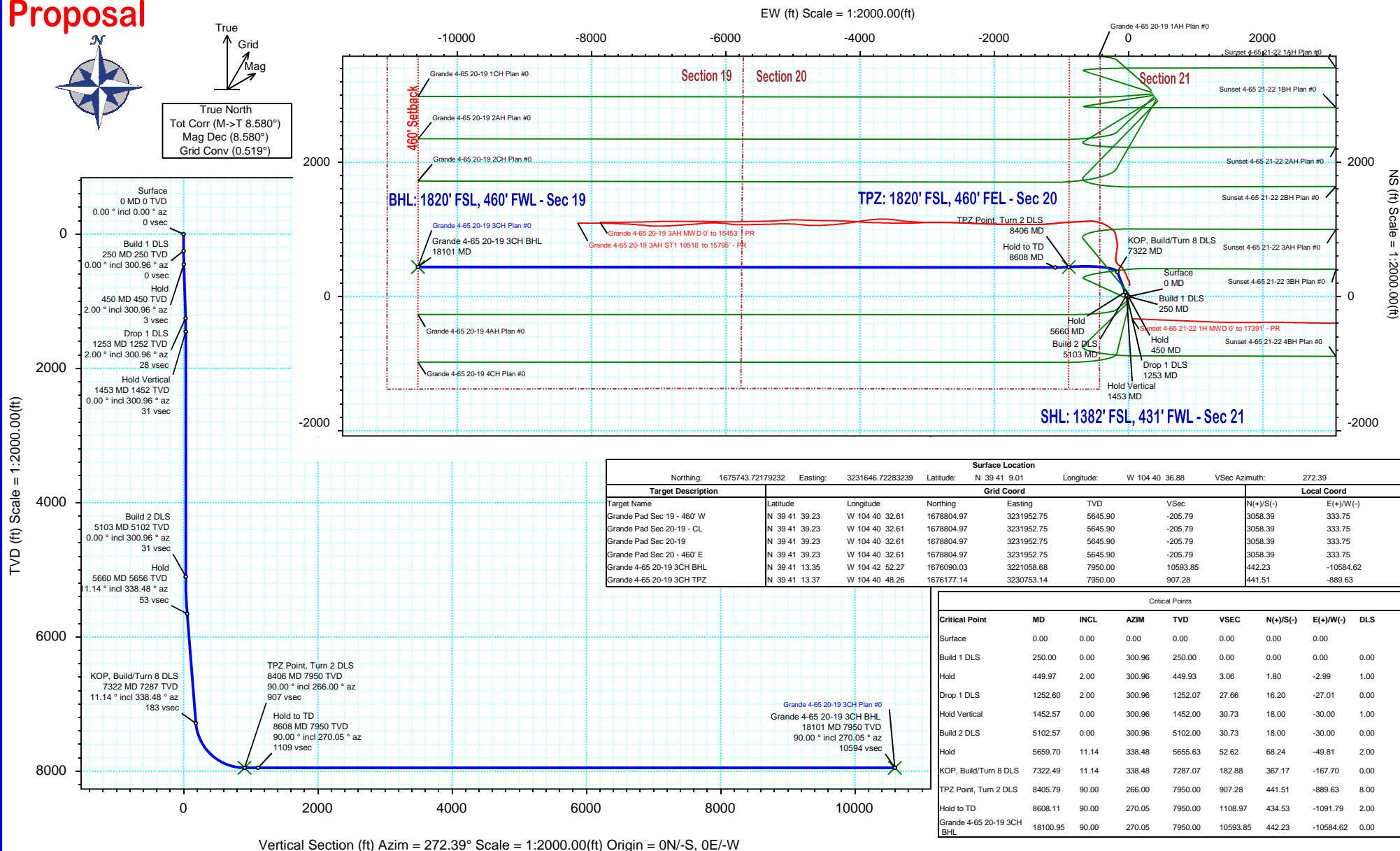
Borehole:	Well:	Field:	Structure:
Original Hole	Grande 4-65 20-19 3CH	CO, Arapahoe County (NAD 83 CZ)	Crestone Peak 21-04S-65W (Grande South Pad)

Gravity & Magnetic Parameters				Surface Location				Miscellaneous			
Model:	HDGM 2020	Dip:	66.341°	Date:	20-May-2020	Lat:	N 39 41 9.01	Northings:	1675743.72ftUS	Grid Conv:	0.5191°
MagDec:	8.58°	FS:	51552.751nT	Gravity FS:	998.917mgn (9.80665 Based)	Lon:	W 104 40 36.88	Easting:	3231646.72ftUS	Scale Fact:	0.99998794
								Slot:	Grande 4-65 20-19 3CH	TVD Ref:	KB 28ft(5645.9ft above MSL)
								Plan:	Grande 4-65 20-19 3CH Plan #0		

Proposal



True North
Tot Corr (M->T 8.580°)
Mag Dec (8.580°)
Grid Conv (0.519°)



Grande 4-65 20-19 3CH Plan #0 Proposal Geodetic Report

(Def Plan)

Report Date: May 22, 2020 - 01:25 PM
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 #0
Survey Date: March 19, 2020
Tort / AHD / DDI / ERD Ratio: 105.853 ° / 10845.611 ft / 6.417 / 1.364
Coordinate Reference System: NAD83 Colorado State Plane, Central Zone, US Feet
Location Lat / Long: N 39° 41' 9.00600", W 104° 40' 36.87600"
Location Grid N/E Y/X: N 1675743.722 ftUS, E 3231646.723 ftUS
CRS Grid Convergence Angle: 0.5191 °
Grid Scale Factor: 0.99998794
Version / Patch: 2.10.810.1

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 272.392 ° (True North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: KB 28ft
TVD Reference Elevation: 5645.900 ft above MSL
Seabed / Ground Elevation: 5617.900 ft above MSL
Magnetic Declination: 8.580 °
Total Gravity Field Strength: 998.9166mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 51552.751 nT
Magnetic Dip Angle: 66.341 °
Declination Date: May 20, 2020
Magnetic Declination Model: HDGM 2020
North Reference: True North
Grid Convergence Used: 0.0000 °
Total Corr Mag North→True North: 8.5796 °
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	1675743.72	3231646.72	39.685835	-104.676910
Build 1 DLS	100.00	0.00	300.96	100.00	0.00	0.00	0.00	0.00	1675743.72	3231646.72	39.685835	-104.676910	
	200.00	0.00	300.96	200.00	0.00	0.00	0.00	0.00	1675743.72	3231646.72	39.685835	-104.676910	
	250.00	0.00	300.96	250.00	0.00	0.00	0.00	0.00	1675743.72	3231646.72	39.685835	-104.676910	
	300.00	0.50	300.96	300.00	0.19	0.11	-0.19	1.00	1675743.83	3231646.53	39.685835	-104.676911	
	400.00	1.50	300.96	399.98	1.72	1.01	-1.68	1.00	1675744.72	3231645.03	39.685838	-104.676916	
Hold	449.97	2.00	300.96	449.93	3.06	1.80	-2.99	1.00	1675745.49	3231643.71	39.685840	-104.676921	
	500.00	2.00	300.96	499.93	4.60	2.69	-4.49	0.00	1675746.37	3231642.21	39.685842	-104.676926	
	600.00	2.00	300.96	599.87	7.66	4.49	-7.48	0.00	1675748.14	3231639.20	39.685847	-104.676937	
	700.00	2.00	300.96	699.81	10.73	6.28	-10.47	0.00	1675749.91	3231636.19	39.685852	-104.676947	
	800.00	2.00	300.96	799.75	13.79	8.08	-13.47	0.00	1675751.68	3231633.18	39.685857	-104.676958	
Drop 1 DLS	900.00	2.00	300.96	899.69	16.86	9.87	-16.46	0.00	1675753.45	3231630.18	39.685862	-104.676968	
	1000.00	2.00	300.96	999.62	19.92	11.67	-19.45	0.00	1675755.21	3231627.17	39.685867	-104.676979	
	1100.00	2.00	300.96	1099.56	22.98	13.47	-22.44	0.00	1675756.98	3231624.16	39.685872	-104.676990	
	1200.00	2.00	300.96	1199.50	26.05	15.26	-25.43	0.00	1675758.75	3231621.15	39.685877	-104.677000	
	1252.60	2.00	300.96	1252.07	27.66	16.20	-27.01	0.00	1675759.68	3231619.57	39.685879	-104.677006	
	1300.00	1.53	300.96	1299.45	28.94	16.95	-28.26	1.00	1675760.42	3231618.31	39.685882	-104.677010	
	1400.00	0.53	300.96	1399.43	30.51	17.88	-29.79	1.00	1675761.33	3231616.77	39.685884	-104.677016	
	1452.57	0.00	300.96	1452.00	30.73	18.00	-30.00	1.00	1675761.45	3231616.56	39.685884	-104.677017	
	1500.00	0.00	300.96	1499.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	1600.00	0.00	300.96	1599.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
Hold Vertical	1700.00	0.00	300.96	1699.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	1800.00	0.00	300.96	1799.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	1900.00	0.00	300.96	1899.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	2000.00	0.00	300.96	1999.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	2100.00	0.00	300.96	2099.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	2200.00	0.00	300.96	2199.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	2300.00	0.00	300.96	2299.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	2400.00	0.00	300.96	2399.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	2500.00	0.00	300.96	2499.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	2600.00	0.00	300.96	2599.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	2700.00	0.00	300.96	2699.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	2800.00	0.00	300.96	2799.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	2900.00	0.00	300.96	2899.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	3000.00	0.00	300.96	2999.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	3100.00	0.00	300.96	3099.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	3200.00	0.00	300.96	3199.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	3300.00	0.00	300.96	3299.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	3400.00	0.00	300.96	3399.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	3500.00	0.00	300.96	3499.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	3600.00	0.00	300.96	3599.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	3700.00	0.00	300.96	3699.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	3800.00	0.00	300.96	3799.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	3900.00	0.00	300.96	3899.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	4000.00	0.00	300.96	3999.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	4100.00	0.00	300.96	4099.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	4200.00	0.00	300.96	4199.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	4300.00	0.00	300.96	4299.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	4400.00	0.00	300.96	4399.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	4500.00	0.00	300.96	4499.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	4600.00	0.00	300.96	4599.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	4700.00	0.00	300.96	4699.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	4800.00	0.00	300.96	4799.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	4900.00	0.00	300.96	4899.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	5000.00	0.00	300.96	4999.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	5100.00	0.00	300.96	5099.43	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017	
	Build 2 DLS	5102.57	0.00	300.96	5102.00	30.73	18.00	-30.00	0.00	1675761.45	3231616.56	39.685884	-104.677017
		5200.00	1.95	338.48	5199.41	31.40	19.54	-30.61	2.00	1675762.98	3231615.94	39.685889	-104.677019
		5300.00	3.95	338.48	5299.27	33.48	24.33	-32.49	2.00	1675767.75	3231614.01	39.685902	-104.677025
		5400.00	5.95	338.48	5398.90	36.98	32.35	-35.66	2.00	1675775.75	3231610.77	39.685924	-104.677037
		5500.00	7.95	338.48	5498.16	41.88	43.60	-40.10	2.00	1675786.96	3231606.23	39.685955	-104.677052
5600.00		9.95	338.48	5596.93	48.19	58.07	-45.80	2.00	1675801.38	3231600.40	39.685994	-104.677073	
5659.70		11.14	338.48	5655.63	52.62	68.24	-49.81	2.00	1675811.50	3231596.30	39.686022	-104.677087	
5700.00		11.14	338.48	5695.17	55.77	75.48	-52.67	0.00	1675818.72	3231593.37	39.686042	-104.677097	
5800.00		11.14	338.48	5793.28	63.61	93.46	-59.76	0.00	1675836.64	3231586.12	39.686092	-104.677122	
5900.00		11.14	338.48	5891.39	71.44	111.44	-66.85	0.00	1675854.55	3231578.87	39.686141	-104.677148	
Hold	6000.00	11.14	338.48	5989.51	79.28	129.42	-73.94	0.00	1675872.46	3231571.62	39.686190	-104.677173	
	6100.00	11.14	338.48	6087.62	87.11	147.39	-81.03	0.00	1675890.37	3231564.36	39.686240	-104.677198	
	6200.00	11.14	338.48	6185.74	94.94	165.37	-88.12	0.00	1675908.29	3231557.11	39.686289	-104.677223	
	6300.00	11.14	338.48	6283.85	102.78	183.35	-95.21	0.00	1675926.20	3231549.86	39.686338	-104.677248	
	6400.00	11.14	338.48	6381.97	110.61	201.33	-102.30	0.00	1675944.11	3231542.61	39.686388	-104.677273	
	6500.00	11.14	338.48	6480.08	118.45	219.30	-109.39	0.00	1675962.02	3231535.36	39.686437	-104.677299	
	6600.00	11.14	338.48	6578.20	126.28	237.28	-116.48	0.00	1675979.94	3231528.10	39.686486	-104.677324	
	6700.00	11.14	338.48	6676.31	134.11	255.26	-123.57	0.00	1675997.85	3231520.85	39.686536	-104.677349	
	6800.00	11.14	338.48	6774.43	141.95	273.24	-130.66	0.00	1676015.76	3231513.60	39.686585	-104.677374	
	6900.00	11.14	338.48	6872.54	149.78	291.22	-137.75	0.00	1676033.67	3231506.35	39.686634	-104.677399	
	7000.00	11.14	338.48	6970.66	157.62	309.19	-144.84	0.00	1676051.59	3231499.09	39.68668		

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
KOP, Build/Turn 8 DLS	7200.00	11.14	338.48	7166.89	173.28	345.15	-159.01	0.00	1676087.41	3231484.59	39.686783	-104.677475
	7300.00	11.14	338.48	7265.00	181.12	363.13	-166.10	0.00	1676105.32	3231477.34	39.686832	-104.677500
	7322.49	11.14	338.48	7287.07	182.88	367.17	-167.70	0.00	1676109.35	3231475.71	39.686843	-104.677506
	7400.00	14.25	313.69	7362.73	193.09	380.74	-177.35	8.00	1676122.83	3231465.93	39.686880	-104.677540
	7500.00	20.42	296.29	7458.20	218.33	397.00	-201.94	8.00	1676138.87	3231441.20	39.686925	-104.677628
	7600.00	27.53	287.13	7549.55	256.69	411.55	-239.72	8.00	1676153.08	3231403.28	39.686965	-104.677762
	7700.00	34.99	281.56	7634.99	307.43	424.13	-289.98	8.00	1676165.20	3231352.92	39.686999	-104.677940
	7800.00	42.64	277.77	7712.86	369.56	434.47	-351.73	8.00	1676174.98	3231291.08	39.687028	-104.678160
	7900.00	50.37	274.95	7781.64	441.87	442.38	-423.77	8.00	1676182.24	3231218.97	39.687049	-104.678416
	8000.00	58.16	272.70	7840.01	522.95	447.71	-504.70	8.00	1676186.84	3231138.00	39.687064	-104.678703
TPZ Point, Turn 2 DLS	8100.00	65.98	270.80	7886.81	611.22	450.36	-592.94	8.00	1676188.68	3231049.74	39.687071	-104.679017
	8200.00	73.83	269.12	7921.14	704.97	450.26	-686.77	8.00	1676187.73	3230955.91	39.687071	-104.679350
	8300.00	81.68	267.57	7942.33	802.37	447.42	-784.38	8.00	1676184.01	3230858.34	39.687063	-104.679697
	8400.00	89.54	266.09	7949.98	901.53	441.91	-883.85	8.00	1676177.60	3230758.92	39.687048	-104.680050
	8405.79	90.00	266.00	7950.00	907.28	441.51	-889.63	8.00	1676177.14	3230753.14	39.687047	-104.680071
	8500.00	90.00	267.88	7950.00	1001.06	436.48	-983.70	2.00	1676171.27	3230659.13	39.687033	-104.680405
	8600.00	90.00	269.88	7950.00	1100.87	434.63	-1083.67	2.00	1676168.41	3230559.17	39.687028	-104.680760
	8608.11	90.00	270.05	7950.00	1108.97	434.53	-1091.79	2.00	1676168.34	3230551.06	39.687028	-104.680789
	8700.00	90.00	270.05	7950.00	1200.78	434.60	-1183.67	0.00	1676167.58	3230459.18	39.687028	-104.681116
	8800.00	90.00	270.05	7950.00	1300.70	434.69	-1283.67	0.00	1676166.75	3230359.18	39.687028	-104.681471
Hold to TD	8900.00	90.00	270.05	7950.00	1400.62	434.77	-1383.67	0.00	1676165.93	3230259.19	39.687028	-104.681826
	9000.00	90.00	270.05	7950.00	1500.53	434.85	-1483.67	0.00	1676165.10	3230159.19	39.687029	-104.682182
	9100.00	90.00	270.05	7950.00	1600.45	434.93	-1583.67	0.00	1676164.28	3230059.20	39.687029	-104.682537
	9200.00	90.00	270.05	7950.00	1700.36	435.01	-1683.67	0.00	1676163.45	3229959.20	39.687029	-104.682892
	9300.00	90.00	270.05	7950.00	1800.28	435.09	-1783.67	0.00	1676162.63	3229859.21	39.687029	-104.683248
	9400.00	90.00	270.05	7950.00	1900.20	435.17	-1883.67	0.00	1676161.80	3229759.21	39.687029	-104.683603
	9500.00	90.00	270.05	7950.00	2000.11	435.25	-1983.67	0.00	1676160.98	3229659.22	39.687030	-104.683958
	9600.00	90.00	270.05	7950.00	2100.03	435.33	-2083.67	0.00	1676160.15	3229559.22	39.687030	-104.684314
	9700.00	90.00	270.05	7950.00	2199.94	435.41	-2183.67	0.00	1676159.33	3229459.23	39.687030	-104.684669
	9800.00	90.00	270.05	7950.00	2299.86	435.50	-2283.67	0.00	1676158.50	3229359.23	39.687030	-104.685024
	9900.00	90.00	270.05	7950.00	2399.78	435.58	-2383.67	0.00	1676157.68	3229259.24	39.687030	-104.685380
	10000.00	90.00	270.05	7950.00	2499.69	435.66	-2483.67	0.00	1676156.85	3229159.24	39.687031	-104.685735
	10100.00	90.00	270.05	7950.00	2599.61	435.74	-2583.67	0.00	1676156.03	3229059.25	39.687031	-104.686090
	10200.00	90.00	270.05	7950.00	2699.53	435.82	-2683.67	0.00	1676155.20	3228959.25	39.687031	-104.686446
	10300.00	90.00	270.05	7950.00	2799.44	435.90	-2783.67	0.00	1676154.38	3228859.25	39.687031	-104.686801
	10400.00	90.00	270.05	7950.00	2899.36	435.98	-2883.67	0.00	1676153.55	3228759.26	39.687031	-104.687156
	10500.00	90.00	270.05	7950.00	2999.27	436.06	-2983.67	0.00	1676152.73	3228659.26	39.687032	-104.687512
	10600.00	90.00	270.05	7950.00	3099.19	436.14	-3083.67	0.00	1676151.90	3228559.27	39.687032	-104.687867
	10700.00	90.00	270.05	7950.00	3199.11	436.23	-3183.67	0.00	1676151.08	3228459.27	39.687032	-104.688222
	10800.00	90.00	270.05	7950.00	3299.02	436.31	-3283.67	0.00	1676150.25	3228359.28	39.687032	-104.688577
	10900.00	90.00	270.05	7950.00	3398.94	436.39	-3383.67	0.00	1676149.43	3228259.28	39.687032	-104.688933
	11000.00	90.00	270.05	7950.00	3498.86	436.47	-3483.67	0.00	1676148.60	3228159.29	39.687033	-104.689288
	11100.00	90.00	270.05	7950.00	3598.77	436.55	-3583.67	0.00	1676147.78	3228059.29	39.687033	-104.689643
	11200.00	90.00	270.05	7950.00	3698.69	436.63	-3683.67	0.00	1676146.95	3227959.30	39.687033	-104.689999
	11300.00	90.00	270.05	7950.00	3798.60	436.71	-3783.67	0.00	1676146.13	3227859.30	39.687033	-104.690354
	11400.00	90.00	270.05	7950.00	3898.52	436.79	-3883.67	0.00	1676145.30	3227759.31	39.687033	-104.690709
	11500.00	90.00	270.05	7950.00	3998.44	436.87	-3983.67	0.00	1676144.48	3227659.31	39.687033	-104.691065
	11600.00	90.00	270.05	7950.00	4098.35	436.96	-4083.67	0.00	1676143.65	3227559.32	39.687034	-104.691420
	11700.00	90.00	270.05	7950.00	4198.27	437.04	-4183.67	0.00	1676142.83	3227459.32	39.687034	-104.691775
	11800.00	90.00	270.05	7950.00	4298.18	437.12	-4283.67	0.00	1676142.01	3227359.33	39.687034	-104.692131
	11900.00	90.00	270.05	7950.00	4398.10	437.20	-4383.67	0.00	1676141.18	3227259.33	39.687034	-104.692486
	12000.00	90.00	270.05	7950.00	4498.02	437.28	-4483.67	0.00	1676140.36	3227159.34	39.687034	-104.692841
	12100.00	90.00	270.05	7950.00	4597.93	437.36	-4583.67	0.00	1676139.53	3227059.34	39.687035	-104.693197
	12200.00	90.00	270.05	7950.00	4697.85	437.44	-4683.67	0.00	1676138.71	3226959.35	39.687035	-104.693552
	12300.00	90.00	270.05	7950.00	4797.77	437.52	-4783.67	0.00	1676137.88	3226859.35	39.687035	-104.693907
	12400.00	90.00	270.05	7950.00	4897.68	437.60	-4883.67	0.00	1676137.06	3226759.36	39.687035	-104.694263
	12500.00	90.00	270.05	7950.00	4997.60	437.68	-4983.67	0.00	1676136.23	3226659.36	39.687035	-104.694618
	12600.00	90.00	270.05	7950.00	5097.51	437.77	-5083.67	0.00	1676135.41	3226559.37	39.687035	-104.694973
	12700.00	90.00	270.05	7950.00	5197.43	437.85	-5183.67	0.00	1676134.58	3226459.37	39.687036	-104.695328
	12800.00	90.00	270.05	7950.00	5297.35	437.93	-5283.67	0.00	1676133.76	3226359.37	39.687036	-104.695684
	12900.00	90.00	270.05	7950.00	5397.26	438.01	-5383.67	0.00	1676132.93	3226259.38	39.687036	-104.696039
	13000.00	90.00	270.05	7950.00	5497.18	438.09	-5483.67	0.00	1676132.11	3226159.38	39.687036	-104.696394
	13100.00	90.00	270.05	7950.00	5597.10	438.17	-5583.67	0.00	1676131.28	3226059.39	39.687036	-104.696750
	13200.00	90.00	270.05	7950.00	5697.01	438.25	-5683.67	0.00	1676130.46	3225959.39	39.687036	-104.697105
13300.00	90.00	270.05	7950.00	5796.93	438.33	-5783.67	0.00	1676129.63	3225859.40	39.687037	-104.697460	
13400.00	90.00	270.05	7950.00	5896.84	438.41	-5883.67	0.00	1676128.81	3225759.40	39.687037	-104.697816	
13500.00												

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
	17500.00	90.00	270.05	7950.00	9993.41	441.74	-9983.67	0.00	1676094.98	3221659.60	39.687042	-104.712384
	17600.00	90.00	270.05	7950.00	10093.32	441.82	-10083.67	0.00	1676094.16	3221559.61	39.687042	-104.712739
	17700.00	90.00	270.05	7950.00	10193.24	441.90	-10183.67	0.00	1676093.33	3221459.61	39.687043	-104.713094
	17800.00	90.00	270.05	7950.00	10293.16	441.98	-10283.67	0.00	1676092.51	3221359.62	39.687043	-104.713450
	17900.00	90.00	270.05	7950.00	10393.07	442.06	-10383.67	0.00	1676091.68	3221259.62	39.687043	-104.713805
	18000.00	90.00	270.05	7950.00	10492.99	442.14	-10483.67	0.00	1676090.86	3221159.62	39.687043	-104.714160
	18100.00	90.00	270.05	7950.00	10592.90	442.22	-10583.67	0.00	1676090.03	3221059.63	39.687043	-104.714516
Grande 4-65 20-19 3CH BHL	18100.95	90.00	270.05	7950.00	10593.85	442.23	-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 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 #0
	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 #0
	1	2200.000	18100.948	1/100.000	8.500	5.500	NAL_MWD_PLUS_0.5_DEG	Original Hole / Grande 4-65 20-19 3CH Plan #0