





FRU 197-31C7 R1 Geodetic Proposal

Report Date: October 1, 2009	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: ExxonMobil	Vertical Section Azimuth: 339.430°
Field: CO, Rio Blanco County (NAD 27 NZ) ExxonMobil 2008	Vertical Section Origin: N 0.000 ft, E 0.000 ft
Structure / Slot: ExxonMobil 31-1S-97W (FRU 197-31C Pad) / FRU 197-31C07	TVD Reference Datum:
Well: FRU 197-31C07	TVD Reference Elevation: 6562.0 ft relative to MSL
Borehole: Original Hole (Est RKB)	Sea Bed / Ground Level Elevation: 6562.000 ft relative to MSL
UWI/API#:	Magnetic Declination: 10.774°
Survey Name / Date: FRU 197-31C7 R1 Ivs 1-Oct-09 / October 1, 2009	Total Field Strength: 52623.990 nT
Tort / AHD / DDI / ERD ratio: 30.005° / 1084.18 ft / 4.517 / 0.086	Magnetic Dip: 66.109°
Grid Coordinate System: NAD27 Colorado State Planes, Northern Zone, US Feet	Declination Date: October 01, 2009
Location Lat/Long: N 39 55 33.595, W 108 19 31.664	Magnetic Declination Model: BGGM 2008
Location Grid N/E Y/X: N 228510.000 ftUS, E 1207691.000 ftUS	North Reference: Grid North
Grid Convergence Angle: -1.82562566°	Total Corr Mag North -> Grid North: +12.600°
Grid Scale Factor: 0.99997282	Local Coordinates Referenced To: Well Head

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	Sub-Sea TVD (ft)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	DLS (deg/100 ft)	Northing (ftUS)	Easting (ftUS)	Latitude	Longitude
Tie-In / Surface	0.00	0.00	339.43	-6562.00	0.00	0.00	0.00	0.00	0.00	228510.00	1207691.00	N 39 55 33.595	W 108 19 31.664
	100.00	0.00	339.43	-6462.00	100.00	0.00	0.00	0.00	0.00	228510.00	1207691.00	N 39 55 33.595	W 108 19 31.664
	200.00	0.00	339.43	-6362.00	200.00	0.00	0.00	0.00	0.00	228510.00	1207691.00	N 39 55 33.595	W 108 19 31.664
	300.00	0.00	339.43	-6262.00	300.00	0.00	0.00	0.00	0.00	228510.00	1207691.00	N 39 55 33.595	W 108 19 31.664
	400.00	0.00	339.43	-6162.00	400.00	0.00	0.00	0.00	0.00	228510.00	1207691.00	N 39 55 33.595	W 108 19 31.664
KOP Build 2° DLS	500.00	0.00	339.43	-6062.00	500.00	0.00	0.00	0.00	0.00	228510.00	1207691.00	N 39 55 33.595	W 108 19 31.664
	600.00	2.00	339.43	-5962.02	599.98	1.75	1.63	-0.61	2.00	228511.63	1207690.39	N 39 55 33.611	W 108 19 31.672
	700.00	4.00	339.43	-5862.16	699.84	6.98	6.53	-2.45	2.00	228516.53	1207688.55	N 39 55 33.659	W 108 19 31.698
	800.00	6.00	339.43	-5762.55	799.45	15.69	14.69	-5.52	2.00	228524.69	1207685.49	N 39 55 33.739	W 108 19 31.741
	900.00	8.00	339.43	-5663.30	898.70	27.88	26.10	-9.80	2.00	228536.10	1207681.20	N 39 55 33.850	W 108 19 31.800
	1000.00	10.00	339.43	-5564.53	997.47	43.52	40.75	-15.29	2.00	228550.75	1207675.71	N 39 55 33.993	W 108 19 31.877
	1100.00	12.00	339.43	-5466.38	1095.62	62.60	58.61	-22.00	2.00	228568.61	1207669.00	N 39 55 34.167	W 108 19 31.970
	1200.00	14.00	339.43	-5368.94	1193.06	85.10	79.67	-29.91	2.00	228589.67	1207661.10	N 39 55 34.373	W 108 19 32.080
Begin Target 15° A-groove	1250.12	15.00	339.43	-5320.42	1241.58	97.65	91.42	-34.32	2.00	228601.41	1207656.69	N 39 55 34.487	W 108 19 32.142
	1250.56	15.00	339.43	-5320.00	1242.00	97.76	91.52	-34.36	0.00	228601.52	1207656.65	N 39 55 34.488	W 108 19 32.142
	1300.00	15.00	339.43	-5272.24	1289.76	110.56	103.51	-38.85	0.00	228613.50	1207652.15	N 39 55 34.605	W 108 19 32.205
	1400.00	15.00	339.43	-5175.65	1386.35	136.44	127.74	-47.95	0.00	228637.74	1207643.05	N 39 55 34.842	W 108 19 32.331
B-groove	1436.91	15.00	339.43	-5140.00	1422.00	146.00	136.69	-51.31	0.00	228646.68	1207639.69	N 39 55 34.929	W 108 19 32.378
	1500.00	15.00	339.43	-5079.06	1482.94	162.33	151.98	-57.05	0.00	228661.97	1207633.95	N 39 55 35.078	W 108 19 32.458
	1600.00	15.00	339.43	-4982.47	1579.53	188.22	176.21	-66.14	0.00	228686.21	1207624.86	N 39 55 35.315	W 108 19 32.585
	1700.00	15.00	339.43	-4885.88	1676.12	214.10	200.45	-75.24	0.00	228710.44	1207615.76	N 39 55 35.551	W 108 19 32.711
	1800.00	15.00	339.43	-4789.28	1772.72	239.99	224.68	-84.34	0.00	228734.67	1207606.66	N 39 55 35.788	W 108 19 32.838
	1900.00	15.00	339.43	-4692.69	1869.31	265.87	248.91	-93.43	0.00	228758.91	1207597.57	N 39 55 36.025	W 108 19 32.964
	2000.00	15.00	339.43	-4596.10	1965.90	291.76	273.15	-102.53	0.00	228783.14	1207588.47	N 39 55 36.261	W 108 19 33.091
	2100.00	15.00	339.43	-4499.51	2062.49	317.65	297.38	-111.63	0.00	228807.38	1207579.37	N 39 55 36.498	W 108 19 33.218
	2200.00	15.00	339.43	-4402.92	2159.08	343.53	321.62	-120.73	0.00	228831.61	1207570.28	N 39 55 36.734	W 108 19 33.344
	2300.00	15.00	339.43	-4306.33	2255.67	369.42	345.85	-129.82	0.00	228855.84	1207561.18	N 39 55 36.971	W 108 19 33.471
	2400.00	15.00	339.43	-4209.74	2352.26	395.30	370.09	-138.92	0.00	228880.08	1207552.08	N 39 55 37.207	W 108 19 33.597
	2500.00	15.00	339.43	-4113.14	2448.86	421.19	394.32	-148.02	0.00	228904.31	1207542.99	N 39 55 37.444	W 108 19 33.724
	2600.00	15.00	339.43	-4016.55	2545.45	447.07	418.56	-157.11	0.00	228928.55	1207533.89	N 39 55 37.680	W 108 19 33.851
	2700.00	15.00	339.43	-3919.96	2642.04	472.96	442.79	-166.21	0.00	228952.78	1207524.79	N 39 55 37.917	W 108 19 33.977
	2800.00	15.00	339.43	-3823.37	2738.63	498.85	467.03	-175.31	0.00	228977.01	1207515.70	N 39 55 38.153	W 108 19 34.104
	2900.00	15.00	339.43	-3726.78	2835.22	524.73	491.26	-184.40	0.00	229001.25	1207506.60	N 39 55 38.390	W 108 19 34.231
Wasatch A	2979.49	15.00	339.43	-3650.00	2912.00	545.31	510.53	-191.64	0.00	229020.51	1207499.37	N 39 55 38.578	W 108 19 34.331
	3000.00	15.00	339.43	-3630.19	2931.81	550.62	515.50	-193.50	0.00	229025.48	1207497.50	N 39 55 38.626	W 108 19 34.357
	3100.00	15.00	339.43	-3533.59	3028.41	576.50	539.73	-202.60	0.00	229049.72	1207488.41	N 39 55 38.863	W 108 19 34.484
	3200.00	15.00	339.43	-3437.00	3125.00	602.39	563.97	-211.70	0.00	229073.95	1207479.31	N 39 55 39.099	W 108 19 34.610
	3300.00	15.00	339.43	-3340.41	3221.59	628.28	588.20	-220.79	0.00	229098.18	1207470.21	N 39 55 39.336	W 108 19 34.737
	3400.00	15.00	339.43	-3243.82	3318.18	654.16	612.44	-229.89	0.00	229122.42	1207461.12	N 39 55 39.572	W 108 19 34.864
	3500.00	15.00	339.43	-3147.23	3414.77	680.05	636.67	-238.99	0.00	229146.65	1207452.02	N 39 55 39.809	W 108 19 34.990
	3600.00	15.00	339.43	-3050.64	3511.36	705.93	660.91	-248.08	0.00	229170.89	1207442.92	N 39 55 40.045	W 108 19 35.117
	3700.00	15.00	339.43	-2954.05	3607.95	731.82	685.14	-257.18	0.00	229195.12	1207433.83	N 39 55 40.282	W 108 19 35.244
	3800.00	15.00	339.43	-2857.45	3704.55	757.70	709.37	-266.28	0.00	229219.35	1207424.73	N 39 55 40.518	W 108 19 35.370
	3900.00	15.00	339.43	-2760.86	3801.14	783.59	733.61	-275.37	0.00	229243.59	1207415.63	N 39 55 40.755	W 108 19 35.497
	4000.00	15.00	339.43	-2664.27	3897.73	809.48	757.84	-284.47	0.00	229267.82	1207406.54	N 39 55 40.991	W 108 19 35.623
Wasatch C	4014.77	15.00	339.43	-2650.00	3912.00	813.30	761.42	-285.82	0.00	229271.40	1207405.19	N 39 55 41.026	W 108 19 35.642
10-3/4" Casing Point	4066.54	15.00	339.43	-2600.00	3962.00	826.70	773.97	-290.52	0.00	229283.95	1207400.48	N 39 55 41.149	W 108 19 35.708

	4100.00	15.00	339.43	-2567.68	3994.32	835.36	782.08	-293.57	0.00	229292.06	1207397.44	N 39 55 41.228	W 108 19 35.750
	4200.00	15.00	339.43	-2471.09	4090.91	861.25	806.31	-302.67	0.00	229316.29	1207388.34	N 39 55 41.464	W 108 19 35.877
	4300.00	15.00	339.43	-2374.50	4187.50	887.13	830.55	-311.76	0.00	229340.52	1207379.25	N 39 55 41.701	W 108 19 36.003
KOP Drop 2° DLS	4400.00	15.00	339.43	-2277.91	4284.09	913.02	854.78	-320.86	0.00	229364.76	1207370.15	N 39 55 41.937	W 108 19 36.130
	4500.00	15.00	339.43	-2181.31	4380.69	938.91	879.02	-329.96	0.00	229388.99	1207361.05	N 39 55 42.174	W 108 19 36.256
	4600.00	15.00	339.43	-2084.72	4477.28	964.79	903.25	-339.05	0.00	229413.23	1207351.96	N 39 55 42.410	W 108 19 36.383
	4684.01	15.00	339.43	-2003.58	4558.42	986.54	923.61	-346.70	0.00	229433.59	1207344.31	N 39 55 42.609	W 108 19 36.489
	4700.00	14.68	339.43	-1988.12	4573.88	990.63	927.45	-348.14	2.00	229437.42	1207342.87	N 39 55 42.647	W 108 19 36.510
	4800.00	12.68	339.43	-1890.96	4671.04	1014.29	949.59	-356.45	2.00	229459.56	1207334.56	N 39 55 42.863	W 108 19 36.625
	4900.00	10.68	339.43	-1793.04	4768.96	1034.54	968.55	-363.56	2.00	229478.52	1207327.45	N 39 55 43.048	W 108 19 36.724
	5000.00	8.68	339.43	-1694.47	4867.53	1051.35	984.29	-369.47	2.00	229494.26	1207321.54	N 39 55 43.201	W 108 19 36.807
	5100.00	6.68	339.43	-1595.37	4966.63	1064.72	996.81	-374.17	2.00	229506.78	1207316.84	N 39 55 43.324	W 108 19 36.872
	5200.00	4.68	339.43	-1495.87	5066.13	1074.62	1006.08	-377.65	2.00	229516.05	1207313.36	N 39 55 43.414	W 108 19 36.920
Vertical Point	5300.00	2.68	339.43	-1396.08	5165.92	1081.04	1012.09	-379.91	2.00	229522.06	1207311.10	N 39 55 43.473	W 108 19 36.952
	5400.00	0.68	339.43	-1296.13	5265.87	1083.98	1014.84	-380.94	2.00	229524.81	1207310.07	N 39 55 43.499	W 108 19 36.966
	5434.13	0.00	339.43	-1262.00	5300.00	1084.18	1015.03	-381.01	2.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	5500.00	0.00	339.43	-1196.13	5365.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	5600.00	0.00	339.43	-1096.13	5465.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
Wasatch G	5700.00	0.00	339.43	-996.13	5565.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	5800.00	0.00	339.43	-896.13	5665.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	5821.13	0.00	339.43	-875.00	5687.00	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	5900.00	0.00	339.43	-796.13	5765.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	6000.00	0.00	339.43	-696.13	5865.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	6100.00	0.00	339.43	-596.13	5965.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	6200.00	0.00	339.43	-496.13	6065.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	6300.00	0.00	339.43	-396.13	6165.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	6400.00	0.00	339.43	-296.13	6265.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	6500.00	0.00	339.43	-196.13	6365.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	6600.00	0.00	339.43	-96.13	6465.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	6700.00	0.00	339.43	3.87	6565.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	6800.00	0.00	339.43	103.87	6665.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	6900.00	0.00	339.43	203.87	6765.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	7000.00	0.00	339.43	303.87	6865.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	7100.00	0.00	339.43	403.87	6965.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	7200.00	0.00	339.43	503.87	7065.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	7300.00	0.00	339.43	603.87	7165.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	7400.00	0.00	339.43	703.87	7265.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	7500.00	0.00	339.43	803.87	7365.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
Ohio Creek (WF900)	7576.13	0.00	339.43	880.00	7442.00	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	7600.00	0.00	339.43	903.87	7465.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	7700.00	0.00	339.43	1003.87	7565.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	7800.00	0.00	339.43	1103.87	7665.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	7900.00	0.00	339.43	1203.87	7765.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
WF 700	8000.00	0.00	339.43	1303.87	7865.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	8100.00	0.00	339.43	1403.87	7965.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	8200.00	0.00	339.43	1503.87	8065.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	8276.13	0.00	339.43	1580.00	8142.00	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	8300.00	0.00	339.43	1603.87	8165.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
WF 500	8400.00	0.00	339.43	1703.87	8265.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	8500.00	0.00	339.43	1803.87	8365.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	8600.00	0.00	339.43	1903.87	8465.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	8636.13	0.00	339.43	1940.00	8502.00	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	8700.00	0.00	339.43	2003.87	8565.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
7" Casing Point	8786.13	0.00	339.43	2090.00	8652.00	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	8800.00	0.00	339.43	2103.87	8665.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	8900.00	0.00	339.43	2203.87	8765.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	9000.00	0.00	339.43	2303.87	8865.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	9100.00	0.00	339.43	2403.87	8965.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
WF 400	9200.00	0.00	339.43	2503.87	9065.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	9206.13	0.00	339.43	2510.00	9072.00	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	9300.00	0.00	339.43	2603.87	9165.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	9400.00	0.00	339.43	2703.87	9265.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	9500.00	0.00	339.43	2803.87	9365.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	9600.00	0.00	339.43	2903.87	9465.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	9700.00	0.00	339.43	3003.87	9565.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	9800.00	0.00	339.43	3103.87	9665.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	9900.00	0.00	339.43	3203.87	9765.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	10000.00	0.00	339.43	3303.87	9865.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967

	10100.00	0.00	339.43	3403.87	9965.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	10200.00	0.00	339.43	3503.87	10065.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	10300.00	0.00	339.43	3603.87	10165.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	10400.00	0.00	339.43	3703.87	10265.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	10500.00	0.00	339.43	3803.87	10365.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	10600.00	0.00	339.43	3903.87	10465.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	10700.00	0.00	339.43	4003.87	10565.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	10800.00	0.00	339.43	4103.87	10665.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	10900.00	0.00	339.43	4203.87	10765.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	11000.00	0.00	339.43	4303.87	10865.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
WF 200	11006.13	0.00	339.43	4310.00	10872.00	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	11100.00	0.00	339.43	4403.87	10965.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	11200.00	0.00	339.43	4503.87	11065.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
Cameo	11296.13	0.00	339.43	4600.00	11162.00	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	11300.00	0.00	339.43	4603.87	11165.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	11400.00	0.00	339.43	4703.87	11265.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	11500.00	0.00	339.43	4803.87	11365.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
Rollins	11546.13	0.00	339.43	4850.00	11412.00	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	11600.00	0.00	339.43	4903.87	11465.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	11700.00	0.00	339.43	5003.87	11565.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
Cozzette Coastal	11726.13	0.00	339.43	5030.00	11592.00	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	11800.00	0.00	339.43	5103.87	11665.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	11900.00	0.00	339.43	5203.87	11765.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	12000.00	0.00	339.43	5303.87	11865.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
Corcorran Coastal	12026.13	0.00	339.43	5330.00	11892.00	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	12100.00	0.00	339.43	5403.87	11965.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	12200.00	0.00	339.43	5503.87	12065.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	12300.00	0.00	339.43	5603.87	12165.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	12400.00	0.00	339.43	5703.87	12265.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	12500.00	0.00	339.43	5803.87	12365.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
Corcorran Marine	12576.13	0.00	339.43	5880.00	12442.00	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	12600.00	0.00	339.43	5903.87	12465.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
	12700.00	0.00	339.43	6003.87	12565.87	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967
PBHL / TD	12776.13	0.00	339.43	6080.00	12642.00	1084.18	1015.03	-381.01	0.00	229525.00	1207310.00	N 39 55 43.501	W 108 19 36.967

Survey Type: Non-Def Proposal

Survey Error Model: SLB ISCWSA version 24 *** 3-D 95.00% Confidence 2.7955 sigma

Surveying Prog:

MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type
0.00	500.00	1/100.00	SLB_NSG+SSHOT
500.00	5434.13	1/100.00	SLB_MWD-STD
5434.13	12776.13	1/100.00	SLB_INC-ONLY

Borehole -> Survey

Original Hole (Est RKB) -> FRU 197-31C7 R1 ivs 1-Oct-09
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