

Vertical Section (ft) Azim = 180.22°, Scale = 1(in):1600(ft) Origin = 0 N-S, 0 E/-



# PCU 296-18D20 R0 ivs 2-Feb-10



Report Date: February 4, 2010  
Client: ExxonMobil  
Field: CO, Rio Blanco County (NAD 27 NZ) ExxonMobil 2010  
Structure / Slot: ExxonMobil (PCU 296-18D) / PCU 296-18D20  
Well: PCU 296-18D20  
Borehole: Original Hole  
UWI/API#:   
Survey Name / Date: PCU 296-18D20 R0 ivs 2-Feb-10 / February 4, 2010  
Tort / AHD / DDI / ERD ratio: 50.009° / 2066.41 ft / 5.027 / 0.153  
Grid Coordinate System: NAD27 Colorado State Planes, Northern Zone, US Feet  
Location Lat/Long: N 39 52 53.965, W 108 12 37.204  
Location Grid N/E Y/X: N 211357.758 ftUS, E 1239470.932 ftUS  
Grid Convergence Angle: -1.75123783°  
Grid Scale Factor: 0.99997747

Survey / DLS Computation Method: Minimum Curvature / Lubinski  
Vertical Section Azimuth: 180.220°  
Vertical Section Origin: N 0.000 ft, E 0.000 ft  
TVD Reference Datum: RKB  
TVD Reference Elevation: 7373.0 ft relative to MSL  
Sea Bed / Ground Level Elevation: 7373.000 ft relative to MSL  
Magnetic Declination: 10.680°  
Total Field Strength: 52576.387 nT  
Magnetic Dip: 66.077°  
Declination Date: February 02, 2010  
Magnetic Declination Model: BGGM 2009  
North Reference: Grid North  
Total Corr Mag North -> Grid North: +12.431°  
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	0.00	0.00	180.22	-7373.00	0.00	0.00	0.00	0.00	0.00	211357.76	1239470.93	N 39 52 53.965	W 108 12 37.204
	100.00	0.00	180.22	-7273.00	100.00	0.00	0.00	0.00	0.00	211357.76	1239470.93	N 39 52 53.965	W 108 12 37.204
	200.00	0.00	180.22	-7173.00	200.00	0.00	0.00	0.00	0.00	211357.76	1239470.93	N 39 52 53.965	W 108 12 37.204
	300.00	0.00	180.22	-7073.00	300.00	0.00	0.00	0.00	0.00	211357.76	1239470.93	N 39 52 53.965	W 108 12 37.204
	400.00	2.00	180.22	-6973.02	399.98	1.75	-1.75	-0.01	2.00	211356.01	1239470.93	N 39 52 53.948	W 108 12 37.204
KOP, Build 2 deg/100ft	500.00	4.00	180.22	-6873.16	499.84	6.98	-6.98	-0.03	2.00	211350.78	1239470.91	N 39 52 53.897	W 108 12 37.202
	600.00	6.00	180.22	-6773.55	599.45	15.69	-15.69	-0.06	2.00	211342.06	1239470.87	N 39 52 53.810	W 108 12 37.199
	700.00	8.00	180.22	-6674.30	698.70	27.88	-27.88	-0.11	2.00	211329.88	1239470.83	N 39 52 53.690	W 108 12 37.195
	800.00	10.00	180.22	-6575.53	797.47	43.52	-43.52	-0.16	2.00	211314.24	1239470.77	N 39 52 53.536	W 108 12 37.189
	900.00	12.00	180.22	-6477.38	895.62	62.60	-62.60	-0.24	2.00	211295.16	1239470.70	N 39 52 53.347	W 108 12 37.183
A-groove	1000.00	14.00	180.22	-6379.94	993.06	85.10	-85.10	-0.32	2.00	211272.66	1239470.61	N 39 52 53.125	W 108 12 37.175
	1025.74	14.51	180.22	-6355.00	1018.00	91.44	-91.43	-0.34	2.00	211266.33	1239470.59	N 39 52 53.062	W 108 12 37.173
	1100.00	16.00	180.22	-6283.36	1089.64	110.98	-110.98	-0.42	2.00	211246.78	1239470.51	N 39 52 52.869	W 108 12 37.166
B-groove	1200.00	18.00	180.22	-6187.73	1185.27	140.21	-140.21	-0.53	2.00	211217.55	1239470.40	N 39 52 52.580	W 108 12 37.156
	1213.40	18.27	180.22	-6175.00	1198.00	144.38	-144.38	-0.54	2.00	211213.38	1239470.39	N 39 52 52.539	W 108 12 37.155
EOC, Hold 25 deg	1300.00	20.00	180.22	-6093.18	1279.82	172.77	-172.77	-0.65	2.00	211185.00	1239470.28	N 39 52 52.259	W 108 12 37.145
	1400.00	22.00	180.22	-5999.83	1373.17	208.60	-208.60	-0.79	2.00	211149.16	1239470.15	N 39 52 51.905	W 108 12 37.133
	1500.00	24.00	180.22	-5907.79	1465.21	247.67	-247.67	-0.93	2.00	211110.09	1239470.00	N 39 52 51.519	W 108 12 37.119
	1550.22	25.00	180.22	-5862.09	1510.91	268.50	-268.50	-1.01	2.00	211089.27	1239469.92	N 39 52 51.313	W 108 12 37.112
	1600.00	25.00	180.22	-5816.97	1556.03	289.54	-289.54	-1.09	0.00	211068.22	1239469.84	N 39 52 51.105	W 108 12 37.105
	1700.00	25.00	180.22	-5726.35	1646.65	331.81	-331.81	-1.25	0.00	211025.96	1239469.68	N 39 52 50.687	W 108 12 37.090
	1800.00	25.00	180.22	-5635.72	1737.28	374.08	-374.08	-1.41	0.00	210983.69	1239469.52	N 39 52 50.270	W 108 12 37.076
	1900.00	25.00	180.22	-5545.09	1827.91	416.35	-416.35	-1.57	0.00	210941.42	1239469.36	N 39 52 49.852	W 108 12 37.061
	2000.00	25.00	180.22	-5454.46	1918.54	458.62	-458.61	-1.73	0.00	210899.15	1239469.20	N 39 52 49.435	W 108 12 37.047
	2100.00	25.00	180.22	-5363.84	2009.16	500.89	-500.88	-1.89	0.00	210856.89	1239469.05	N 39 52 49.017	W 108 12 37.032
	2200.00	25.00	180.22	-5273.21	2099.79	543.16	-543.15	-2.05	0.00	210814.62	1239468.89	N 39 52 48.600	W 108 12 37.018
	2300.00	25.00	180.22	-5182.58	2190.42	585.42	-585.42	-2.21	0.00	210772.35	1239468.73	N 39 52 48.182	W 108 12 37.003
	2400.00	25.00	180.22	-5091.95	2281.05	627.69	-627.69	-2.36	0.00	210730.09	1239468.57	N 39 52 47.764	W 108 12 36.989
	2500.00	25.00	180.22	-5001.33	2371.67	669.96	-669.96	-2.52	0.00	210687.82	1239468.41	N 39 52 47.347	W 108 12 36.974
	2600.00	25.00	180.22	-4910.70	2462.30	712.23	-712.23	-2.68	0.00	210645.55	1239468.25	N 39 52 46.929	W 108 12 36.960
Wasatch A	2700.00	25.00	180.22	-4820.07	2552.93	754.50	-754.49	-2.84	0.00	210603.28	1239468.09	N 39 52 46.512	W 108 12 36.945
	2727.66	25.00	180.22	-4795.00	2578.00	766.19	-766.19	-2.89	0.00	210591.59	1239468.05	N 39 52 46.396	W 108 12 36.941
	2800.00	25.00	180.22	-4729.44	2643.56	796.77	-796.76	-3.00	0.00	210561.02	1239467.93	N 39 52 46.094	W 108 12 36.930
	2900.00	25.00	180.22	-4638.82	2734.18	839.04	-839.03	-3.16	0.00	210518.75	1239467.77	N 39 52 45.677	W 108 12 36.916
	3000.00	25.00	180.22	-4548.19	2824.81	881.31	-881.30	-3.32	0.00	210476.48	1239467.61	N 39 52 45.259	W 108 12 36.901
	3100.00	25.00	180.22	-4457.56	2915.44	923.57	-923.57	-3.48	0.00	210434.21	1239467.45	N 39 52 44.841	W 108 12 36.887
	3200.00	25.00	180.22	-4366.93	3006.07	965.84	-965.84	-3.64	0.00	210391.95	1239467.29	N 39 52 44.424	W 108 12 36.872
	3300.00	25.00	180.22	-4276.31	3096.69	1008.11	-1008.10	-3.80	0.00	210349.68	1239467.14	N 39 52 44.006	W 108 12 36.858
	3400.00	25.00	180.22	-4185.68	3187.32	1050.38	-1050.37	-3.96	0.00	210307.41	1239466.98	N 39 52 43.589	W 108 12 36.843
	3500.00	25.00	180.22	-4095.05	3277.95	1092.65	-1092.64	-4.12	0.00	210265.14	1239466.82	N 39 52 43.171	W 108 12 36.829
	3600.00	25.00	180.22	-4004.42	3368.58	1134.92	-1134.91	-4.27	0.00	210222.88	1239466.66	N 39 52 42.753	W 108 12 36.814
	3700.00	25.00	180.22	-3913.80	3459.20	1177.19	-1177.18	-4.43	0.00	210180.61	1239466.50	N 39 52 42.336	W 108 12 36.800
	3800.00	25.00	180.22	-3823.17	3549.83	1219.45	-1219.45	-4.59	0.00	210138.34	1239466.34	N 39 52 41.918	W 108 12 36.785
	3900.00	25.00	180.22	-3732.54	3640.46	1261.72	-1261.71	-4.75	0.00	210096.07	1239466.18	N 39 52 41.501	W 108 12 36.771
	4000.00	25.00	180.22	-3641.91	3731.09	1303.99	-1303.98	-4.91	0.00	210053.81	1239466.02	N 39 52 41.083	W 108 12 36.756
Wasatch C	4073.83	25.00	180.22	-3575.00	3798.00	1335.20	-1335.19	-5.03	0.00	210022.60	1239465.90	N 39 52 40.775	W 108 12 36.745
10-3/4" Casing Point	4100.00	25.00	180.22	-3551.29	3821.71	1346.26	-1346.25	-5.07	0.00	210011.54	1239465.86	N 39 52 40.666	W 108 12 36.742
	4129.00	25.00	180.22	-3525.00	3848.00	1358.52	-1358.51	-5.12	0.00	209999.28	1239465.82	N 39 52 40.544	W 108 12 36.737
	4200.00	25.00	180.22	-3460.66	3912.34	1388.53	-1388.52	-5.23	0.00	209969.27	1239465.70	N 39 52 40.248	W 108 12 36.727
	4300.00	25.00	180.22	-3370.03	4002.97	1430.80	-1430.79	-5.39	0.00	209927.00	1239465.54	N 39 52 39.830	W 108 12 36.713
	4400.00	25.00	180.22	-3279.40	4093.60	1473.07	-1473.06	-5.55	0.00	209884.74	1239465.38	N 39 52 39.413	W 108 12 36.698
	4500.00	25.00	180.22	-3188.77	4184.23	1515.34	-1515.33	-5.71	0.00	209842.47	1239465.22	N 39 52 38.995	W 108 12 36.684
	4600.00	25.00	180.22	-3098.15	4274.85	1557.60	-1557.59	-5.87	0.00	209800.20	1239465.07	N 39 52 38.578	W 108 12 36.669

KOP, Drop 2 deg/100ft	4700.00	25.00	180.22	-3007.52	4365.48	1599.87	-1599.86	-6.03	0.00	209757.94	1239464.91	N 39 52 38.160	W 108 12 36.654
	4800.00	25.00	180.22	-2916.89	4456.11	1642.14	-1642.13	-6.19	0.00	209715.67	1239464.75	N 39 52 37.743	W 108 12 36.640
	4900.00	25.00	180.22	-2826.26	4546.74	1684.41	-1684.40	-6.34	0.00	209673.40	1239464.59	N 39 52 37.325	W 108 12 36.625
	5000.00	25.00	180.22	-2735.64	4637.36	1726.68	-1726.67	-6.50	0.00	209631.13	1239464.43	N 39 52 36.907	W 108 12 36.611
	5100.00	25.00	180.22	-2645.01	4727.99	1768.95	-1768.94	-6.66	0.00	209588.87	1239464.27	N 39 52 36.490	W 108 12 36.596
	5168.52	25.00	180.22	-2582.91	4790.09	1797.91	-1797.90	-6.77	0.00	209559.90	1239464.16	N 39 52 36.204	W 108 12 36.586
	5200.00	24.37	180.22	-2554.31	4818.69	1811.06	-1811.05	-6.82	2.00	209546.76	1239464.11	N 39 52 36.074	W 108 12 36.582
	5300.00	22.37	180.22	-2462.52	4910.48	1850.73	-1850.72	-6.97	2.00	209507.08	1239463.96	N 39 52 35.682	W 108 12 36.568
	5400.00	20.37	180.22	-2369.40	5003.60	1887.18	-1887.16	-7.11	2.00	209470.64	1239463.82	N 39 52 35.322	W 108 12 36.556
	5500.00	18.37	180.22	-2275.07	5097.93	1920.35	-1920.34	-7.23	2.00	209437.47	1239463.70	N 39 52 34.994	W 108 12 36.544
Wasatch G	5600.00	16.37	180.22	-2179.64	5193.36	1950.21	-1950.20	-7.35	2.00	209407.61	1239463.59	N 39 52 34.699	W 108 12 36.534
	5700.00	14.37	180.22	-2083.22	5289.78	1976.72	-1976.71	-7.45	2.00	209381.10	1239463.49	N 39 52 34.437	W 108 12 36.525
	5800.00	12.37	180.22	-1985.94	5387.06	1999.85	-1999.84	-7.53	2.00	209357.97	1239463.40	N 39 52 34.209	W 108 12 36.517
	5900.00	10.37	180.22	-1887.91	5485.09	2019.58	-2019.56	-7.61	2.00	209338.25	1239463.33	N 39 52 34.014	W 108 12 36.510
	5938.49	9.60	180.22	-1850.00	5523.00	2026.25	-2026.24	-7.63	2.00	209331.57	1239463.30	N 39 52 33.948	W 108 12 36.508
Wasatch I	6000.00	8.37	180.22	-1789.25	5583.75	2035.86	-2035.85	-7.67	2.00	209321.96	1239463.26	N 39 52 33.853	W 108 12 36.505
	6100.00	6.37	180.22	-1690.08	5682.92	2048.70	-2048.68	-7.72	2.00	209309.12	1239463.22	N 39 52 33.726	W 108 12 36.500
	6200.00	4.37	180.22	-1590.53	5782.47	2058.07	-2058.05	-7.75	2.00	209299.76	1239463.18	N 39 52 33.634	W 108 12 36.497
	6300.00	2.37	180.22	-1490.71	5882.29	2063.95	-2063.94	-7.77	2.00	209293.87	1239463.16	N 39 52 33.575	W 108 12 36.495
	6355.73	1.26	180.22	-1435.00	5938.00	2065.72	-2065.70	-7.78	2.00	209292.10	1239463.15	N 39 52 33.558	W 108 12 36.494
Vertical Point	6400.00	0.37	180.22	-1390.74	5982.26	2066.35	-2066.34	-7.78	2.00	209291.47	1239463.15	N 39 52 33.552	W 108 12 36.494
	6418.74	0.00	180.22	-1372.00	6001.00	2066.41	-2066.40	-7.78	2.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	6500.00	0.00	180.22	-1290.74	6082.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	6600.00	0.00	180.22	-1190.74	6182.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	6700.00	0.00	180.22	-1090.74	6282.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
Ohio Creek	6800.00	0.00	180.22	-990.74	6382.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	6900.00	0.00	180.22	-890.74	6482.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	7000.00	0.00	180.22	-790.74	6582.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	7100.00	0.00	180.22	-690.74	6682.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	7200.00	0.00	180.22	-590.74	6782.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	7300.00	0.00	180.22	-490.74	6882.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	7400.00	0.00	180.22	-390.74	6982.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	7500.00	0.00	180.22	-290.74	7082.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	7600.00	0.00	180.22	-190.74	7182.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	7700.00	0.00	180.22	-90.74	7282.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
WF 850	7800.00	0.00	180.22	9.26	7382.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	7820.74	0.00	180.22	30.00	7403.00	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	7900.00	0.00	180.22	109.26	7482.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	7990.74	0.00	180.22	200.00	7573.00	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	8000.00	0.00	180.22	209.26	7582.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
WF 800	8100.00	0.00	180.22	309.26	7682.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	8200.00	0.00	180.22	409.26	7782.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	8300.00	0.00	180.22	509.26	7882.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	8350.74	0.00	180.22	560.00	7933.00	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	8400.00	0.00	180.22	609.26	7982.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
WF 700	8500.00	0.00	180.22	709.26	8082.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	8590.74	0.00	180.22	800.00	8173.00	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	8600.00	0.00	180.22	809.26	8182.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	8700.00	0.00	180.22	909.26	8282.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	8800.00	0.00	180.22	1009.26	8382.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
WF 600	8880.74	0.00	180.22	1090.00	8463.00	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	8900.00	0.00	180.22	1109.26	8482.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	9000.00	0.00	180.22	1209.26	8582.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	9100.00	0.00	180.22	1309.26	8682.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	9110.74	0.00	180.22	1320.00	8693.00	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
7" Casing Point	9200.00	0.00	180.22	1409.26	8782.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	9260.74	0.00	180.22	147									

	10600.00	0.00	180.22	2809.26	10182.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	10700.00	0.00	180.22	2909.26	10282.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	10800.00	0.00	180.22	3009.26	10382.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	10900.00	0.00	180.22	3109.26	10482.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	11000.00	0.00	180.22	3209.26	10582.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	11100.00	0.00	180.22	3309.26	10682.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	11200.00	0.00	180.22	3409.26	10782.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	11300.00	0.00	180.22	3509.26	10882.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	11400.00	0.00	180.22	3609.26	10982.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	11500.00	0.00	180.22	3709.26	11082.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
WF 200	11550.74	0.00	180.22	3760.00	11133.00	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	11600.00	0.00	180.22	3809.26	11182.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	11700.00	0.00	180.22	3909.26	11282.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	11800.00	0.00	180.22	4009.26	11382.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
Cameo	11830.74	0.00	180.22	4040.00	11413.00	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	11900.00	0.00	180.22	4109.26	11482.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	12000.00	0.00	180.22	4209.26	11582.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	12100.00	0.00	180.22	4309.26	11682.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
Rollins	12170.74	0.00	180.22	4380.00	11753.00	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	12200.00	0.00	180.22	4409.26	11782.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	12300.00	0.00	180.22	4509.26	11882.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
Trans-Cozzette	12390.74	0.00	180.22	4600.00	11973.00	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	12400.00	0.00	180.22	4609.26	11982.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
Cozzette Coastal	12480.74	0.00	180.22	4690.00	12063.00	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	12500.00	0.00	180.22	4709.26	12082.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	12600.00	0.00	180.22	4809.26	12182.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	12700.00	0.00	180.22	4909.26	12282.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	12800.00	0.00	180.22	5009.26	12382.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
Corcoran Coastal	12820.74	0.00	180.22	5030.00	12403.00	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	12900.00	0.00	180.22	5109.26	12482.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	13000.00	0.00	180.22	5209.26	12582.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	13100.00	0.00	180.22	5309.26	12682.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	13200.00	0.00	180.22	5409.26	12782.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	13300.00	0.00	180.22	5509.26	12882.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	13400.00	0.00	180.22	5609.26	12982.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	13500.00	0.00	180.22	5709.26	13082.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	13600.00	0.00	180.22	5809.26	13182.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	13700.00	0.00	180.22	5909.26	13282.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
Corcoran Marine	13745.74	0.00	180.22	5955.00	13328.00	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	13800.00	0.00	180.22	6009.26	13382.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
	13900.00	0.00	180.22	6109.26	13482.26	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494
TD	13945.74	0.00	180.22	6155.00	13528.00	2066.41	-2066.40	-7.78	0.00	209291.41	1239463.15	N 39 52 33.551	W 108 12 36.494

**Survey Type:** Non-Def Proposal

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

**Surveying Prog:**

**MD From ( ft )**

0.00

1213.40

6418.74

**MD To ( ft )**

1213.40

6418.74

13945.74

**EOU Freq**

1/100.00

1/100.00

1/100.00

**Survey Tool Type**

SLB\_NSG+SSHOT

SLB\_MWD-STD

SLB\_INC-ONLY

**Borehole -> Survey**

Original Hole -> PCU 296-18D20 R0 ivs 2-Feb-10

Original Hole -> PCU 296-18D20 R0 ivs 2-Feb-10

Original Hole -> PCU 296-18D20 R0 ivs 2-Feb-10