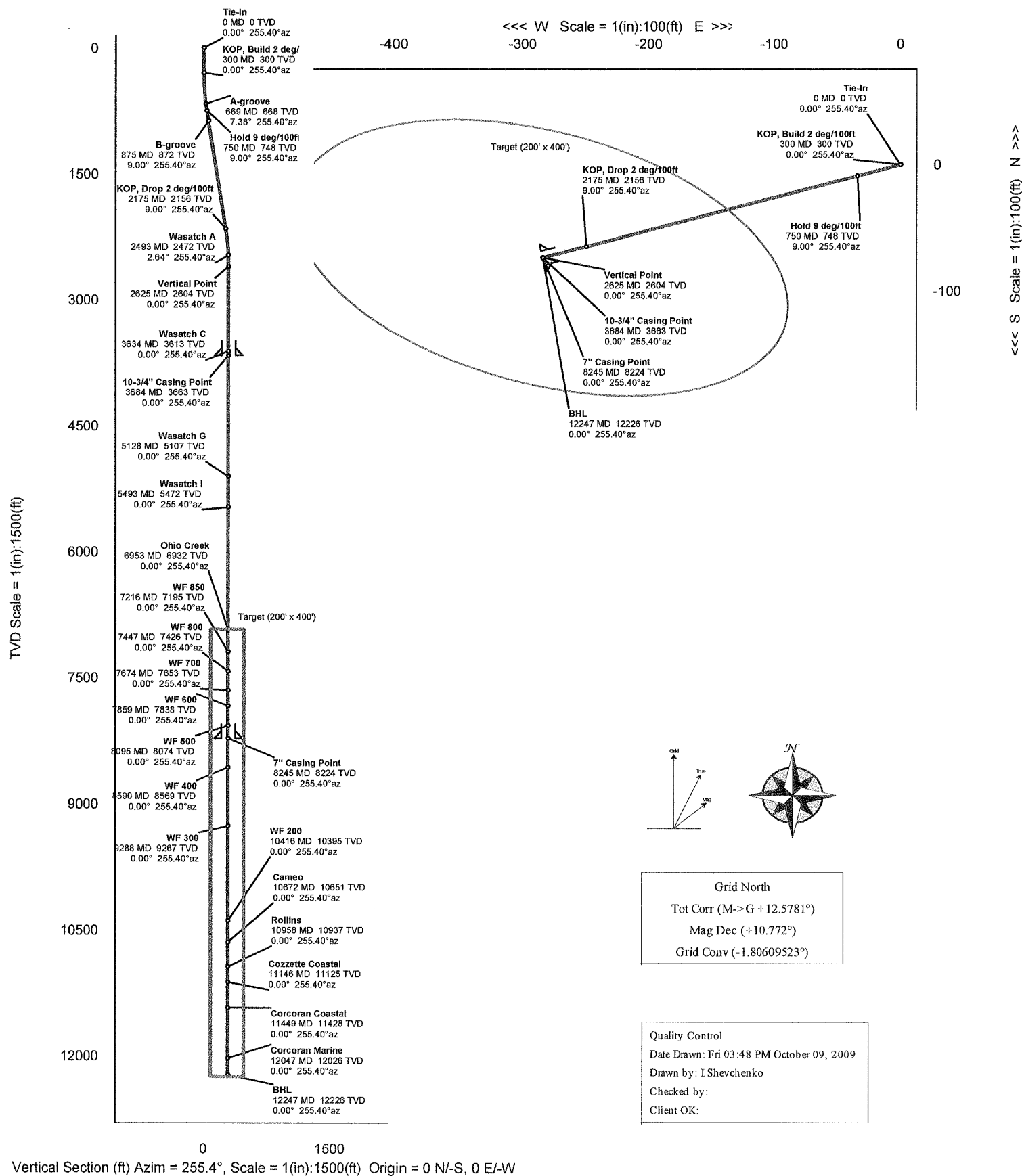


WELL FRU 197-28A8		FIELD CO, Rio Blanco County		STRUCTURE TBA	
Magnetic Parameters Model: BGGM 2009 Dip: 66.112° Mag Dec: +10.772°		Surface Location Lat: N39 56 4.590 Lon: W108 17 42.848 Northing: 231373.00 ILUS Easting: 12165283.00 ILUS		Miscellaneous Slat: FRU 197-28A8 Plant: FRU 197-28A8 TVD Ref: (6112.10 ft above MSL) Shy Date: October 09, 2009	



FRU 197-28A8 R0 Geodetic Proposal

Report Date: October 9, 2009	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: ExxonMobil	Vertical Section Azimuth: 255.400°
Field: CO, Rio Blanco County (NAD 27 NZ) ExxonMobil 2008	Vertical Section Origin: N 0.000 ft, E 0.000 ft
Structure / Slot: ExxonMobil 28-1S-97W (FRU 197-28A Pad) / FRU 197-28A8	TVD Reference Datum:
Well: FRU 197-28A8	TVD Reference Elevation: 6112.0 ft relative to MSL
Borehole: Original Hole	Sea Bed / Ground Level Elevation: 6081.600 ft relative to MSL
UWI/API#:	Magnetic Declination: 10.772°
Survey Name / Date: FRU 197-28A8 R0 Ivs 9-Oct-09 / October 9, 2009	Total Field Strength: 52633.231 nT
Tort / AHD / DDI / ERD ratio: 17.999° / 293.49 ft / 3.724 / 0.024	Magnetic Dip: 66.112°
Grid Coordinate System: NAD27 Colorado State Planes, Northern Zone, US Feet	Declination Date: October 09, 2009
Location Lat/Long: N 39 56 4.560, W 108 17 42.848	Magnetic Declination Model: BGM 2009
Location Grid N/E Y/X: N 231373.000 ftUS, E 1216263.000 ftUS	North Reference: Grid North
Grid Convergence Angle: -1.80609523°	Total Corr Mag North -> Grid North: +12.578°
Grid Scale Factor: 0.99997198	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	255.40	-6112.00	0.00	0.00	0.00	0.00	0.00	231373.00	1216263.00	N 39 56 4.560	W 108 17 42.848
KOP, Build 2 deg/100ft	300.00	0.00	255.40	-5812.00	300.00	0.00	0.00	0.00	0.00	231373.00	1216263.00	N 39 56 4.560	W 108 17 42.848
	500.00	4.00	255.40	-5612.16	499.84	6.98	-1.76	-6.75	2.00	231371.24	1216256.25	N 39 56 4.541	W 108 17 42.934
A-groove	669.02	7.38	255.40	-5444.00	668.00	23.73	-5.98	-22.97	2.00	231367.02	1216240.03	N 39 56 4.494	W 108 17 43.140
Hold 9 deg/100ft	749.99	9.00	255.40	-5363.86	748.14	35.27	-8.89	-34.13	2.00	231364.11	1216228.87	N 39 56 4.462	W 108 17 43.282
B-groove	875.39	9.00	255.40	-5240.00	872.00	54.89	-13.84	-53.11	0.00	231359.16	1216209.89	N 39 56 4.407	W 108 17 43.524
	1000.00	9.00	255.40	-5116.93	995.07	74.38	-18.75	-71.97	0.00	231354.25	1216191.03	N 39 56 4.353	W 108 17 43.764
	1500.00	9.00	255.40	-4623.08	1488.92	152.59	-38.48	-147.66	0.00	231334.53	1216115.34	N 39 56 4.134	W 108 17 44.727
	2000.00	9.00	255.40	-4129.24	1982.76	230.81	-58.20	-223.35	0.00	231314.80	1216039.66	N 39 56 3.916	W 108 17 45.690
KOP, Drop 2 deg/100ft	2175.26	9.00	255.40	-3956.14	2155.86	258.22	-65.11	-249.88	0.00	231307.89	1216013.13	N 39 56 3.839	W 108 17 46.028
Wasatch A	2493.20	2.64	255.40	-3640.00	2472.00	290.45	-73.24	-281.06	2.00	231299.77	1215981.94	N 39 56 3.749	W 108 17 46.425
	2500.00	2.50	255.40	-3633.20	2478.80	290.75	-73.31	-281.36	2.00	231299.69	1215981.65	N 39 56 3.748	W 108 17 46.428
Vertical Point	2625.24	0.00	255.40	-3508.00	2604.00	293.49	-74.00	-284.01	2.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
	3000.00	0.00	255.40	-3133.24	2978.76	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
	3500.00	0.00	255.40	-2633.24	3478.76	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
Wasatch C	3634.24	0.00	255.40	-2499.00	3613.00	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
10-3/4" Casing Point	3684.24	0.00	255.40	-2449.00	3663.00	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
	4000.00	0.00	255.40	-2133.24	3978.76	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
	4500.00	0.00	255.40	-1633.24	4478.76	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
	5000.00	0.00	255.40	-1133.24	4978.76	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
Wasatch G	5128.24	0.00	255.40	-1005.00	5107.00	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
Wasatch I	5493.24	0.00	255.40	-640.00	5472.00	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
	5500.00	0.00	255.40	-633.24	5478.76	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
	6000.00	0.00	255.40	-133.24	5978.76	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
	6500.00	0.00	255.40	366.76	6478.76	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
Ohio Creek	6953.24	0.00	255.40	820.00	6932.00	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
	7000.00	0.00	255.40	866.76	6978.76	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
WF 850	7216.24	0.00	255.40	1083.00	7195.00	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
WF 800	7447.24	0.00	255.40	1314.00	7426.00	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
	7500.00	0.00	255.40	1366.76	7478.76	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
WF 700	7674.24	0.00	255.40	1541.00	7653.00	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
WF 600	7859.24	0.00	255.40	1726.00	7838.00	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
	8000.00	0.00	255.40	1866.76	7978.76	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
WF 500	8095.24	0.00	255.40	1962.00	8074.00	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
7" Casing Point	8245.24	0.00	255.40	2112.00	8224.00	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
	8500.00	0.00	255.40	2366.76	8478.76	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
WF 400	8590.24	0.00	255.40	2457.00	8569.00	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
	9000.00	0.00	255.40	2866.76	8978.76	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
WF 300	9288.24	0.00	255.40	3155.00	9267.00	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
	9500.00	0.00	255.40	3366.76	9478.76	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
	10000.00	0.00	255.40	3866.76	9978.76	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
WF 200	10416.24	0.00	255.40	4283.00	10395.00	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
	10500.00	0.00	255.40	4366.76	10478.76	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
Cameo	10672.24	0.00	255.40	4539.00	10651.00	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
Rollins	10958.24	0.00	255.40	4825.00	10937.00	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
	11000.00	0.00	255.40	4866.76	10978.76	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
Cozzette Coastal	11146.24	0.00	255.40	5013.00	11125.00	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
Corcoran Coastal	11449.24	0.00	255.40	5316.00	11428.00	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
	11500.00	0.00	255.40	5366.76	11478.76	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
	12000.00	0.00	255.40	5866.76	11978.76	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
Corcoran Marine	12047.24	0.00	255.40	5914.00	12026.00	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462
BHL	12247.24	0.00	255.40	6114.00	12226.00	293.49	-74.00	-284.01	0.00	231299.00	1215979.00	N 39 56 3.741	W 108 17 46.462

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)

EQU Freq Survey Tool Type

Borehole -> Survey

0.00 1/100.00 SLB_NSG+SSHOT-Depth Only

30.40 300.00 1/100.00 SLB_NSG+SSHOT

300.00 2625.24 1/100.00 SLB_MWD-STD

2625.24 12247.24 1/100.00 SLB_INC-ONLY

Original Hole -> FRU 197-28A8 R0 Ivs 9-Oct-09

Original Hole -> FRU 197-28A8 R0 Ivs 9-Oct-09

Original Hole -> FRU 197-28A8 R0 Ivs 9-Oct-09

Original Hole -> FRU 197-28A8 R0 Ivs 9-Oct-09