

Company: EXXON MOBIL

Lease/Well: PCU/F13-19G

Rig Name: KEY 005

State/County: COLORADO/RIO BLANCO

Latitude: 39.85

GRID North is 1.76 Degrees West of True North

VS-Azi: 0.00 Degrees



DEPTH REFERENCE : KB = 0' (11' AGL)

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: pcuf13-19g.ut

Minimum Curvature Method

Report Date/Time: 7/8/2010 / 14:44

Vaughn Energy Services

Rifle, Colorado

970 456 2071

Surveyor: S. Anderson

PCU F13-19G

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
200.00	0.92	308.73	199.99	1.00	-1.25	1.00	1.60	308.73	0.46
400.00	1.39	301.21	399.95	3.26	-4.58	3.26	5.62	305.49	0.25
600.00	0.90	278.37	599.91	4.75	-8.21	4.75	9.49	300.05	0.33
800.00	0.41	19.56	799.90	5.65	-9.53	5.65	11.08	300.65	0.53
1000.00	1.16	0.13	999.88	8.34	-9.29	8.34	12.48	311.91	0.39
1200.00	2.66	354.62	1199.77	14.97	-9.72	14.97	17.85	327.01	0.75
1400.00	3.99	358.93	1399.43	26.54	-10.28	26.54	28.46	338.82	0.68
1600.00	3.22	351.65	1599.03	39.04	-11.23	39.04	40.63	343.96	0.45
1800.00	2.79	349.81	1798.75	49.38	-12.90	49.38	51.04	345.36	0.22
2000.00	2.38	351.57	1998.55	58.28	-14.37	58.28	60.02	346.15	0.21
2200.00	1.98	356.17	2198.41	65.83	-15.21	65.83	67.57	346.99	0.22
2400.00	2.15	0.69	2398.28	73.03	-15.40	73.03	74.64	348.10	0.12
2600.00	2.08	16.75	2598.14	80.26	-14.31	80.26	81.52	349.89	0.30
2800.00	1.81	358.81	2798.03	86.89	-13.33	86.89	87.90	351.28	0.33
2986.00	1.94	8.31	2983.93	92.94	-12.93	92.94	93.83	352.08	0.18