

Company: EXXON
Lease/Well: PCU/25-21

Rig Name: KEY PRODUCTION
State/County: COLORADO/RIO BLANCO

Latitude: 39.89

GRID North is 1.67 Degrees West of True North

VS-Azi: 0.00 Degrees



Depth Reference : KB = 0

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: pcu2521.ut

Minimum Curvature Method

Report Date/Time: 7/8/2010 / 15:51

Vaughn Energy Services

Rifle, Colorado

970-456-2071

Surveyor: Lamar Guy

PCU 25-21

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	1.08	41.21	199.99	1.41	1.24	1.41	1.88	41.21	0.54
400.00	1.01	44.98	399.96	4.08	3.72	4.08	5.52	42.41	0.05
600.00	0.35	26.49	599.94	5.86	5.24	5.86	7.86	41.78	0.34
800.00	0.79	358.61	799.93	7.78	5.47	7.78	9.51	35.11	0.26
1000.00	1.94	357.98	999.87	12.55	5.32	12.55	13.63	22.98	0.57
1200.00	2.68	356.46	1199.71	20.59	4.91	20.59	21.17	13.42	0.37
1400.00	2.69	354.82	1399.49	29.93	4.20	29.93	30.22	7.99	0.04
1600.00	2.54	357.83	1599.28	39.03	3.61	39.03	39.20	5.28	0.10
1800.00	2.41	359.84	1799.09	47.67	3.43	47.67	47.80	4.11	0.08
2000.00	2.13	2.91	1998.94	55.58	3.61	55.58	55.70	3.71	0.15
2200.00	1.93	6.81	2198.81	62.62	4.19	62.62	62.76	3.83	0.12
2400.00	1.84	0.92	2398.70	69.17	4.64	69.17	69.33	3.84	0.11
2600.00	1.84	2.51	2598.60	75.59	4.84	75.59	75.75	3.66	0.03
2703.00	1.72	354.21	2701.55	78.78	4.75	78.78	78.92	3.45	0.27