

VES

VAUGHN ENERGY SERVICES

Company: Newbourne Oil Company
Lease/Well: Wyatt Draw 24/25 NF Federal/1H

Rig Name: Patterson 101
State/County: New Mexico/Eddy
Latitude: 32 64, Longitude: -104 44
GRID North is 0 06 Degrees West of True North
VS-Azi: 0 00 Degrees

GTI

GYRO TECHNOLOGIES, INC.

RKB : 18 feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: wyattdraw2425nffederal1h_ed.ut

Minimum Curvature Method

Report Date/Time: 6/11/2011 / 23:40

Vaughn Energy Services

Fort Worth, Texas

817-741-3610

Ray Seago

RECEIVED

JUL 22 2011

NMOCD ARTESIA

30-015-38637

19.25.24. K. 1650 FSL

2290 FWL

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	****
100.00	0.37	251.21	100.00	-0.10	-0.30	-0.10	0.32	251.21	0.37
200.00	0.32	265.83	200.00	-0.23	-0.89	-0.23	0.91	255.68	0.10
300.00	0.84	297.59	299.99	0.09	-1.81	0.09	1.82	272.87	0.59
400.00	1.11	291.45	399.98	0.78	-3.36	0.78	3.45	283.12	0.30
500.00	1.28	289.20	499.96	1.51	-5.32	1.51	5.53	285.80	0.17
600.00	1.06	276.37	599.94	1.98	-7.30	1.98	7.56	285.15	0.34
700.00	0.97	277.03	699.92	2.18	-9.06	2.18	9.32	283.55	0.10
800.00	0.77	269.72	799.91	2.28	-10.57	2.28	10.81	282.19	0.23
900.00	0.78	262.82	899.90	2.19	-11.91	2.19	12.11	280.44	0.09
1000.00	0.71	268.28	999.89	2.09	-13.20	2.09	13.37	279.00	0.10
1100.00	0.62	280.32	1099.88	2.17	-14.35	2.17	14.51	278.60	0.16
1200.00	0.73	291.68	1199.88	2.50	-15.47	2.50	15.67	279.18	0.17
1300.00	0.80	300.60	1299.87	3.09	-16.66	3.09	16.95	280.51	0.14
1400.00	0.77	308.62	1399.86	3.86	-17.78	3.86	18.20	282.25	0.11
1500.00	0.92	308.67	1499.85	4.78	-18.94	4.78	19.53	284.18	0.16
1600.00	0.89	304.48	1599.84	5.72	-20.20	5.72	21.00	285.82	0.08
1700.00	1.18	303.87	1699.82	6.74	-21.70	6.74	22.72	287.25	0.30
1800.00	1.18	292.08	1799.80	7.70	-23.51	7.70	24.74	288.14	0.24
1900.00	1.38	292.28	1899.77	8.54	-25.58	8.54	26.97	288.47	0.19
2000.00	1.27	290.14	1999.75	9.38	-27.73	9.38	29.28	288.69	0.12
2083.00	1.08	301.13	2082.73	10.11	-29.27	10.11	30.97	289.05	0.35

HORIZONTAL DISPLACEMENT IS
30.97 FEET AT 289.05 DEGREES