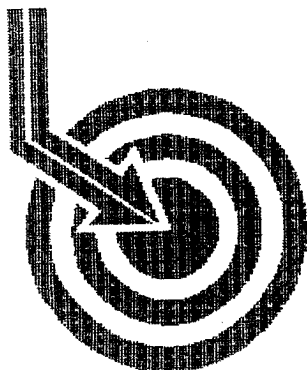
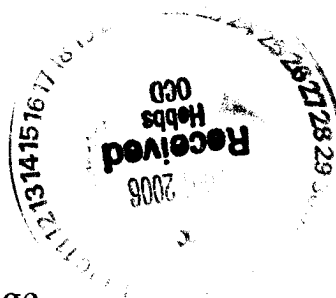




Scientific Drilling

COG RESOURCES

Field: Red Tank
Site: Lea County, NM
Well: Prohibition 12 Fed #12
Wellpath: VH - Job #32K0806646
Survey: 08/09/06



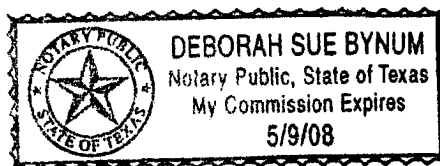
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*R. Wharton*..... Company Representative

Notorized this date 7th of September, 2006.

Deborah Sue Bynum

Notary Signature
County of Midland
State of Texas





Scientific Drilling International

Survey Report

Company: COG RESOURCES
Field: Red Tank
Site: Lea County, NM
Well: Prohibition 12 Fed #12
Wellpath: VH - Job #32K0806646

Date: 08/10/2006
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,68.58Azi)
Survey Calculation Method: Minimum Curvature

Time: 12:57:09
Page: 1
Db: Sybase

Survey: 08/09/06
Start Date: 08/09/2006
Company: Scientific Drilling Internatio
Engineer: Madrid/Rowe/Rando
Tool: Keeper;Keeper Gyro
Tied-to: From Surface

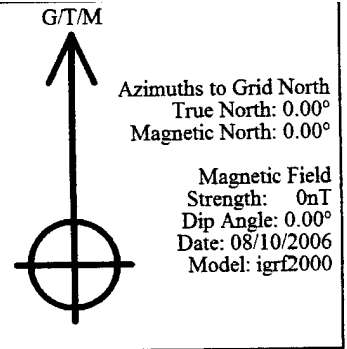
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	1.74	132.05	99.98	0.68	-1.02	1.13	1.74	1.52	132.05
200.00	0.65	136.28	199.96	1.57	-2.44	2.65	1.09	3.60	132.72
300.00	0.58	146.27	299.96	1.89	-3.27	3.32	0.13	4.66	134.61
400.00	0.56	177.95	399.95	1.84	-4.18	3.62	0.31	5.53	139.15
500.00	0.60	180.56	499.95	1.48	-5.20	3.63	0.05	6.34	145.05
600.00	0.35	169.12	599.94	1.23	-6.02	3.68	0.27	7.06	148.54
700.00	0.33	197.42	699.94	0.99	-6.59	3.65	0.17	7.54	151.00
800.00	0.74	270.13	799.94	0.21	-6.87	2.92	0.72	7.46	156.95
900.00	0.79	274.49	899.93	-1.01	-6.81	1.59	0.08	7.00	166.86
1000.00	0.86	271.06	999.92	-2.32	-6.74	0.15	0.09	6.75	178.71
1100.00	0.87	270.40	1099.91	-3.72	-6.72	-1.36	0.01	6.86	191.41
1200.00	0.81	273.09	1199.90	-5.07	-6.68	-2.82	0.07	7.25	202.90
1300.00	0.83	279.99	1299.89	-6.33	-6.52	-4.24	0.10	7.78	213.05
1400.00	0.96	275.34	1399.87	-7.69	-6.31	-5.79	0.15	8.57	222.51
1500.00	0.86	268.92	1499.86	-9.15	-6.25	-7.37	0.14	9.67	229.71
1600.00	0.71	280.42	1599.85	-10.38	-6.15	-8.73	0.22	10.68	234.83
1700.00	0.53	280.58	1699.85	-11.30	-5.96	-9.80	0.18	11.47	238.70
1800.00	0.40	293.57	1799.84	-11.93	-5.73	-10.57	0.17	12.02	241.54
1900.00	0.12	95.26	1899.84	-12.09	-5.60	-10.79	0.52	12.15	242.56
2000.00	0.43	85.67	1999.84	-11.64	-5.58	-10.31	0.31	11.72	241.56
2100.00	0.59	89.72	2099.84	-10.80	-5.55	-9.42	0.16	10.93	239.49
2200.00	0.77	91.12	2199.83	-9.70	-5.56	-8.23	0.18	9.94	235.96
2300.00	1.19	92.48	2299.81	-8.13	-5.62	-6.52	0.42	8.61	229.26
2400.00	1.37	88.66	2399.79	-6.05	-5.64	-4.29	0.20	7.08	217.28
2500.00	1.54	93.87	2499.76	-3.72	-5.70	-1.76	0.22	5.96	197.12
2600.00	1.77	87.14	2599.72	-1.04	-5.71	1.13	0.30	5.82	168.83
2700.00	2.05	88.22	2699.66	2.11	-5.58	4.46	0.28	7.14	141.38
2800.00	2.21	88.53	2799.59	5.61	-5.48	8.17	0.16	9.84	123.82
2900.00	2.29	84.71	2899.51	9.34	-5.24	12.09	0.17	13.18	113.44
3000.00	2.38	82.93	2999.43	13.27	-4.80	16.14	0.12	16.84	106.57
3100.00	2.31	85.12	3099.35	17.21	-4.38	20.21	0.11	20.68	102.22
3200.00	2.53	82.61	3199.26	21.29	-3.92	24.41	0.24	24.72	99.13
3300.00	2.57	83.35	3299.16	25.60	-3.38	28.82	0.05	29.02	96.68
3400.00	2.45	73.50	3399.06	29.89	-2.51	33.10	0.45	33.19	94.34
3500.00	2.15	63.64	3498.98	33.89	-1.07	36.83	0.50	36.84	91.66
3600.00	2.33	58.11	3598.91	37.76	0.84	40.23	0.28	40.24	88.81
3700.00	2.57	39.89	3698.82	41.73	3.63	43.40	0.81	43.55	85.22
3800.00	2.80	39.69	3798.71	45.83	7.23	46.40	0.23	46.96	81.14
3900.00	2.88	33.83	3898.58	50.03	11.20	49.35	0.30	50.61	77.22
4000.00	2.14	39.52	3998.49	53.73	14.72	51.94	0.78	53.99	74.17
4100.00	1.92	61.40	4098.43	57.02	16.97	54.60	0.80	57.18	72.74
4200.00	3.26	54.60	4198.32	61.45	19.42	58.39	1.37	61.53	71.61
4300.00	4.47	49.52	4298.09	67.89	23.59	63.67	1.26	67.90	69.67
4350.00	4.53	49.29	4347.94	71.59	26.15	66.65	0.13	71.59	68.58

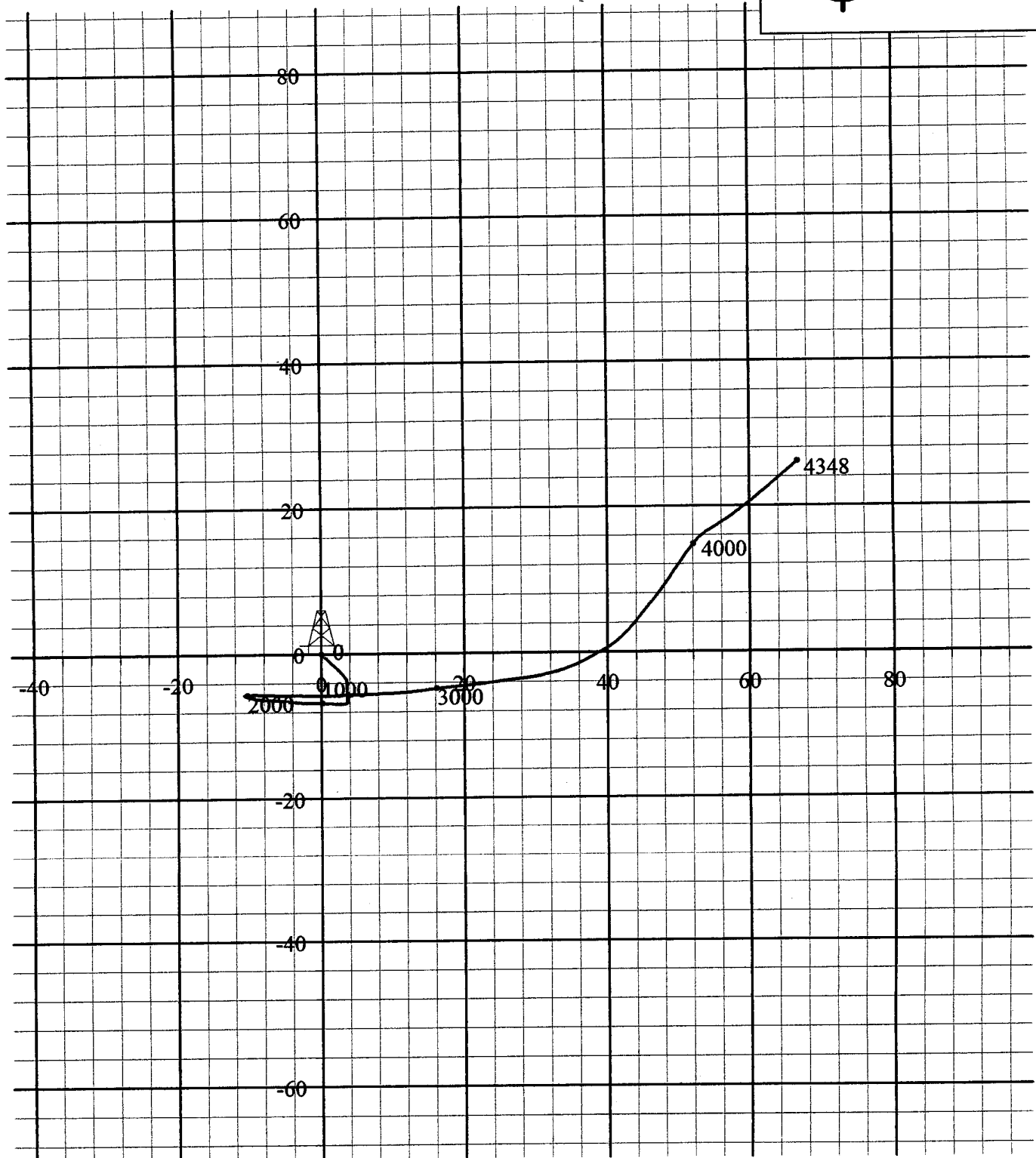


Scientific
Drilling

Field: Red Tank
Site: Lea County, NM
Well: Prohibition 12 Fed #12
Wellpath: VH - Job #32K0806646
Survey: 08/09/06



South(-)/North(+) [10ft/in]



West(-)/East(+) [10ft/in]