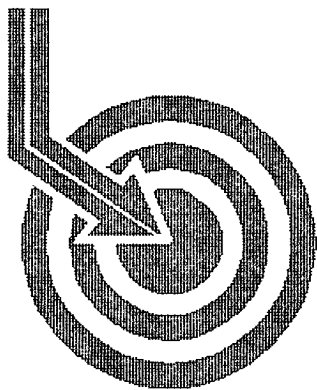




Scientific Drilling

SUR: B-20-17s-32e, 330/N & 2310/E
BHL: B-20-17s-32e, 301/N & 2355/E
API #30-025-34713

COG RESOURCES

Field: Maljamar
Site: Lea County, NM
Well: BC Federal #2
Wellpath: VH - Job #32K0608486
Survey: 06/27/08

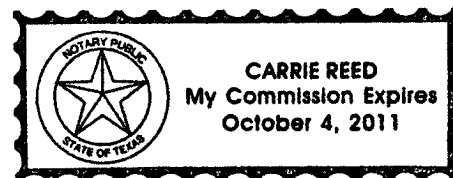
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*L. Wharton*.....Company Representative

Notorized this date 11th of August, 2008.

Carrie Reed
Notary Signature
County of Midland
State of Texas

Kz





Scientific Drilling International Survey Report

Company: COG RESOURCES
Field: Maljamar
Site: Lea County, NM
Well: BC Federal #2
Wellpath: VH - Job #32K0608486

Date: 08/10/2008 Time: 14:46:29 Page: 1
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,0.00Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 06/27/08
KSRG 5700'-6953'

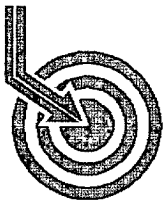
Start Date: 06/27/2008

Company: Scientific Drilling Internatio
Tool: Keeper;Keeper Gyro

Engineer: Garza w/GeoGyro
Tied-to: User Defined

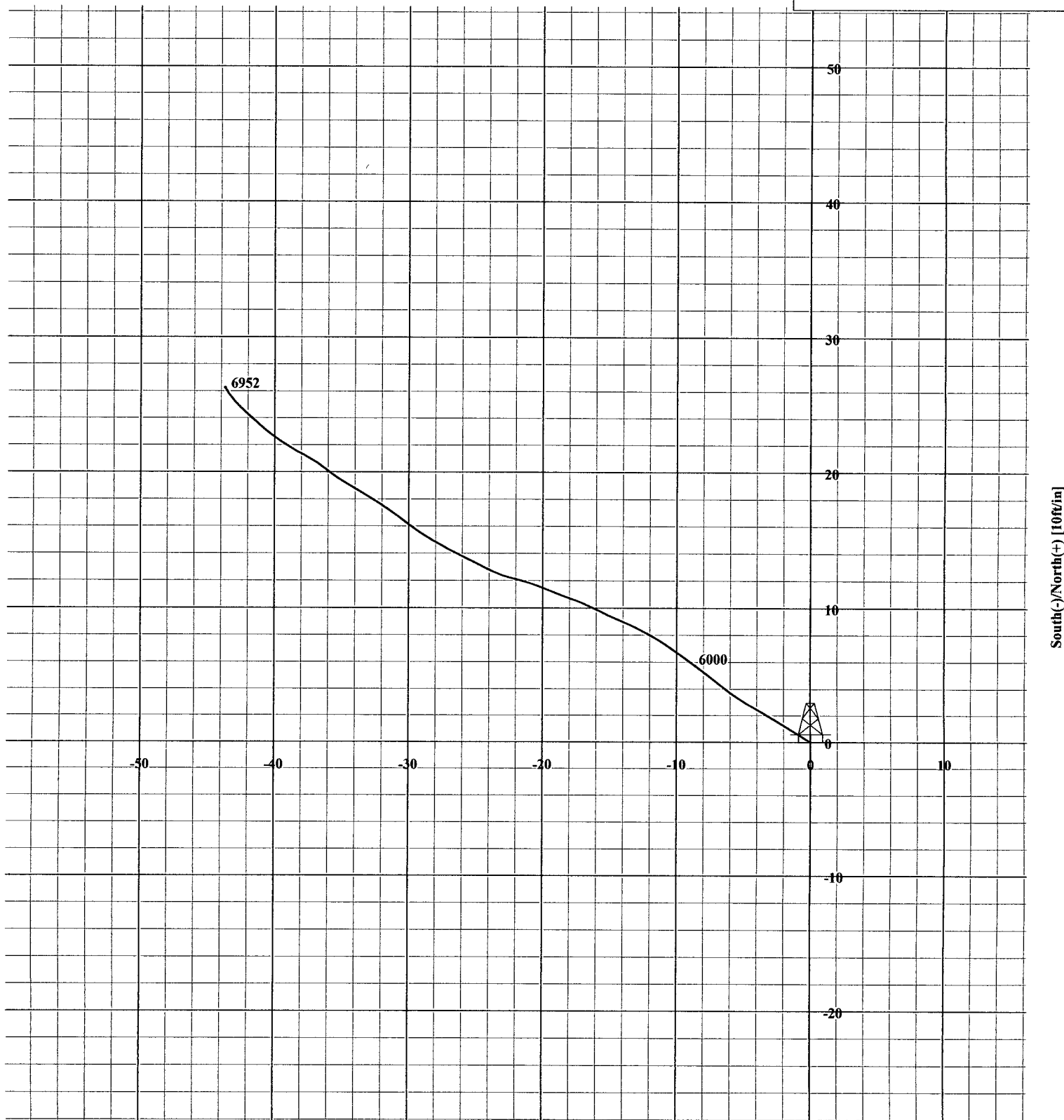
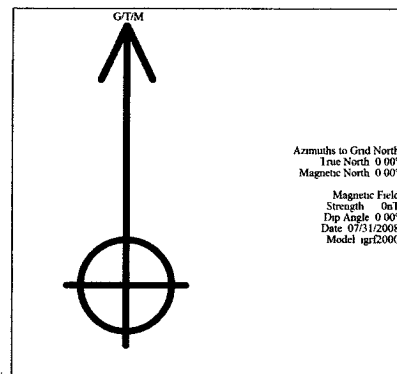
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
5700.00	1.68	301.80	5700.00	0.00	0.00	0.00	0.00	0.00	0.00
5750.00	1.70	301.80	5749.98	0.78	0.78	-1.25	0.03	1.47	301.80
5800.00	1.71	301.80	5799.96	1.56	1.56	-2.51	0.03	2.96	301.80
5850.00	1.83	300.01	5849.93	2.35	2.35	-3.84	0.26	4.50	301.48
5900.00	2.10	302.97	5899.90	3.25	3.25	-5.30	0.58	6.22	301.51
5950.00	2.43	308.26	5949.86	4.40	4.40	-6.90	0.78	8.19	302.55
6000.00	2.61	306.41	5999.82	5.74	5.74	-8.65	0.40	10.38	303.55
6050.00	2.43	305.04	6049.77	7.02	7.02	-10.43	0.38	12.58	303.94
6100.00	2.60	297.94	6099.72	8.16	8.16	-12.30	0.71	14.76	303.56
6150.00	2.24	292.23	6149.67	9.06	9.06	-14.21	0.87	16.85	302.53
6200.00	2.17	296.93	6199.64	9.86	9.86	-15.96	0.39	18.76	301.71
6250.00	2.76	289.45	6249.59	10.69	10.69	-17.94	1.34	20.88	300.79
6300.00	2.59	291.70	6299.54	11.51	11.51	-20.12	0.40	23.18	299.77
6350.00	2.31	282.48	6349.49	12.14	12.14	-22.15	0.97	25.26	298.73
6400.00	2.50	296.73	6399.45	12.85	12.85	-24.11	1.25	27.32	298.06
6450.00	2.74	295.94	6449.40	13.87	13.87	-26.16	0.49	29.61	297.92
6500.00	2.65	299.72	6499.34	14.96	14.96	-28.24	0.40	31.96	297.91
6550.00	2.88	307.59	6549.28	16.30	16.30	-30.24	0.89	34.35	298.33
6600.00	2.74	302.64	6599.22	17.71	17.71	-32.24	0.56	36.79	298.78
6650.00	2.61	299.34	6649.17	18.91	18.91	-34.24	0.40	39.12	298.92
6700.00	2.46	307.95	6699.12	20.13	20.13	-36.08	0.82	41.31	299.16
6750.00	2.24	297.53	6749.08	21.24	21.24	-37.79	0.96	43.35	299.34
6800.00	2.34	303.40	6799.04	22.26	22.26	-39.51	0.51	45.35	299.39
6850.00	2.47	311.33	6848.99	23.53	23.53	-41.17	0.71	47.42	299.75
6900.00	2.08	314.19	6898.95	24.87	24.87	-42.63	0.81	49.36	300.26
6950.00	1.79	329.96	6948.93	26.18	26.18	-43.67	1.21	50.92	300.94
6953.00	1.79	329.08	6951.92	26.26	26.26	-43.72	0.92	51.00	300.99



Scientific
Drilling

Field: Maljamar
Site: Lea County, NM
Well: BC Federal #2
Wellpath: VH - Job #32K0608486
Survey: 06/27/08



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