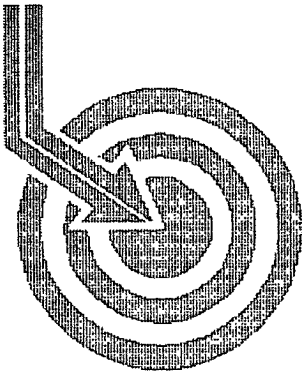


30-015-35880

APR 10 2008
OCD-ARTESIA



Scientific Drilling

COG RESOURCES

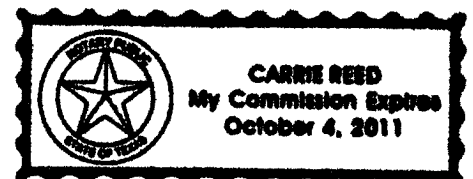
Field: Loco Hills
Site: Eddy County, NM
Well: Wichita State #2
Wellpath: DH - Job #32D0108078
Survey: 02/04/08-02/14/08

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

.....Luha.....Company Representative

Notorized this date 3rd of April, 2008.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: COG RESOURCES Date: 03/09/2008 Time: 11:41:25 Page: 1
Field: Loco Hills Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Site: Eddy County, NM Vertical (TVD) Reference: SITE 0.0
Well: Wichita State #2 Section (VS) Reference: Well (0.00N,0.00E,327.62Azi)
Wellpath: VH - Job #32K0208088 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 02/04/08 Start Date: 02/04/2008
KSRG 0'-1230'
Company: Scientific Drilling Internatio Engineer: Pena w/GeoGyro
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	0.60	335.91	100.00	0.52	0.48	-0.21	0.60	0.52	335.91
200.00	0.24	190.69	200.00	0.88	0.75	-0.47	0.81	0.88	328.14
300.00	0.66	241.96	299.99	0.77	0.27	-1.01	0.54	1.05	285.11
400.00	0.78	289.87	399.99	1.36	0.23	-2.16	0.59	2.17	276.18
500.00	0.95	295.86	499.98	2.60	0.83	-3.55	0.19	3.64	283.12
600.00	1.01	318.63	599.96	4.17	1.85	-4.88	0.39	5.22	290.78
700.00	1.16	326.29	699.94	6.06	3.35	-6.02	0.21	6.89	299.12
800.00	0.74	328.86	799.93	7.71	4.75	-6.92	0.42	8.39	304.47
900.00	0.75	8.54	899.92	8.85	5.95	-7.15	0.51	9.30	309.74
1000.00	0.47	18.48	999.92	9.61	6.98	-6.93	0.30	9.84	315.24
1100.00	0.45	32.06	1099.91	10.04	7.71	-6.59	0.11	10.14	319.47
1200.00	0.84	46.34	1199.91	10.35	8.55	-5.85	0.42	10.36	325.61
1230.00	0.62	33.16	1229.90	10.46	8.83	-5.60	0.92	10.46	327.62



Scientific Drilling International Survey Report

Company: COG RESOURCES	Date: 04/02/2008	Time: 15:36:48	Page: 1
Field: Loco Hills	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Wichita State #2	Section (VS) Reference:	Well (0.00N,0.00E,149.98Azi)	
Wellpath: DH - Job #32D0108078	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 02/04/08-02/14/08 MWD 1285'-5894'	Start Date: 02/04/2008
Company: Scientific Drilling Internatio	Engineer: McCormick/Lambert
Tool: MWD;MWD	Tied-to: From: Definitive Path

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
1230.00	0.62	33.16	1229.90	-10.45	8.83	-5.60	0.00	10.46	327.62
1285.00	0.77	54.98	1284.90	-10.62	9.29	-5.14	0.55	10.62	331.08
1336.00	0.95	102.13	1335.89	-10.36	9.40	-4.44	1.39	10.40	334.71
1399.00	1.88	143.35	1398.88	-8.99	8.46	-3.31	2.10	9.09	338.61
1463.00	3.03	149.02	1462.82	-6.25	6.17	-1.82	1.83	6.43	343.59
1527.00	3.22	154.23	1526.72	-2.77	3.10	-0.16	0.53	3.11	356.96
1590.00	3.86	157.76	1589.60	1.10	-0.45	1.41	1.07	1.48	107.90
1654.00	4.93	160.72	1653.41	5.93	-5.04	3.13	1.71	5.94	148.18
1717.00	6.07	160.11	1716.12	11.87	-10.73	5.16	1.81	11.91	154.33
1781.00	7.09	154.62	1779.70	19.14	-17.48	8.00	1.87	19.23	155.41
1845.00	8.07	154.74	1843.14	27.55	-25.11	11.61	1.53	27.67	155.19
1908.00	8.79	152.38	1905.46	36.77	-33.38	15.73	1.27	36.90	154.77
1940.00	8.88	149.94	1937.08	41.68	-37.68	18.10	1.20	41.80	154.34
2004.00	8.15	144.68	2000.37	51.14	-45.66	23.20	1.67	51.22	153.07
2067.00	7.64	141.21	2062.78	59.73	-52.57	28.40	1.11	59.75	151.62
2131.00	7.12	140.00	2126.25	67.84	-58.92	33.62	0.85	67.84	150.29
2195.00	7.00	144.35	2189.76	75.62	-65.13	38.44	0.86	75.63	149.45
2258.00	6.78	153.57	2252.31	83.16	-71.58	42.33	1.79	83.16	149.40
2322.00	7.80	158.81	2315.79	91.22	-79.01	45.59	1.90	91.22	150.02
2385.00	8.68	157.94	2378.14	100.15	-87.40	48.92	1.41	100.16	150.77
2449.00	9.80	154.07	2441.31	110.37	-96.78	53.11	2.00	110.39	151.24
2513.00	10.62	151.50	2504.30	121.70	-106.86	58.31	1.47	121.73	151.38
2576.00	10.98	147.96	2566.18	133.50	-117.05	64.26	1.20	133.53	151.23
2640.00	11.02	144.70	2629.00	145.68	-127.21	71.03	0.97	145.69	150.82
2703.00	10.27	143.09	2690.92	157.25	-136.61	77.88	1.28	157.25	150.31
2767.00	10.34	140.98	2753.89	168.59	-145.64	84.92	0.60	168.59	149.75
2830.00	9.40	141.38	2815.95	179.26	-154.05	91.69	1.50	179.27	149.24
2894.00	8.78	146.82	2879.15	189.30	-162.22	97.63	1.65	189.33	148.96
2958.00	9.00	148.45	2942.38	199.18	-170.57	102.92	0.52	199.22	148.89
3021.00	7.95	145.94	3004.69	208.46	-178.38	107.94	1.77	208.50	148.82
3085.00	7.75	147.49	3068.09	217.18	-185.69	112.74	0.46	217.23	148.74
3148.00	7.85	148.87	3130.51	225.73	-192.95	117.25	0.34	225.78	148.72
3244.00	7.88	155.95	3225.61	238.83	-204.57	123.32	1.01	238.87	148.92
3307.00	7.79	154.80	3288.02	247.38	-212.38	126.90	0.29	247.40	149.14
3377.00	8.03	153.12	3357.36	256.99	-221.04	131.13	0.48	257.00	149.32
3440.00	8.05	153.54	3419.74	265.78	-228.91	135.08	0.10	265.79	149.45
3504.00	8.12	151.90	3483.10	274.77	-236.91	139.21	0.38	274.78	149.56
3568.00	7.89	151.52	3546.48	283.68	-244.76	143.43	0.37	283.69	149.63
3631.00	7.90	150.23	3608.88	292.33	-252.31	147.64	0.28	292.34	149.67
3698.00	7.91	150.35	3675.24	301.55	-260.32	152.21	0.03	301.55	149.69
3758.00	7.80	148.86	3734.68	309.75	-267.39	156.36	0.39	309.75	149.68
3822.00	7.65	148.35	3798.10	318.35	-274.73	160.84	0.26	318.35	149.65
3886.00	7.37	149.17	3861.55	326.71	-281.89	165.18	0.47	326.72	149.63
3949.00	8.09	154.10	3923.98	335.17	-289.34	169.18	1.55	335.18	149.68
4013.00	8.22	153.02	3987.33	344.23	-297.47	173.23	0.31	344.23	149.79
4076.00	9.26	152.16	4049.60	353.79	-305.97	177.64	1.66	353.79	149.86
4172.00	9.61	150.90	4144.30	369.52	-319.80	185.14	0.42	369.52	149.93
4267.00	9.72	150.82	4237.95	385.47	-333.73	192.91	0.12	385.47	149.97
4330.00	8.18	155.17	4300.18	395.25	-342.44	197.38	2.67	395.25	150.04

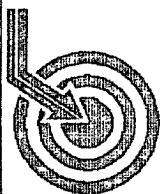


Scientific Drilling International Survey Report

Company: COG RESOURCES	Date: 04/02/2008	Time: 15:36:48	Page: 2
Field: Loco Hills	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Wichita State #2	Section (VS) Reference:	Well (0.00N,0.00E,149.98Azi)	
Wellpath: DH - Job #32D0108078	Survey Calculation Method:	Minimum Curvature Db: Sybase	

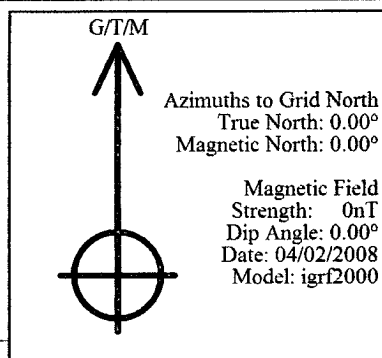
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4426.00	8.27	153.39	4395.20	408.95	-354.81	203.34	0.28	408.95	150.18
4489.00	7.88	152.94	4457.57	417.78	-362.71	207.34	0.63	417.79	150.25
4553.00	7.59	153.68	4520.99	426.38	-370.40	211.21	0.48	426.39	150.31
4616.00	7.23	153.00	4583.46	434.49	-377.67	214.85	0.59	434.50	150.36
4680.00	8.16	150.77	4646.89	443.06	-385.22	218.90	1.53	443.07	150.39
4744.00	8.19	152.36	4710.24	452.15	-393.22	223.23	0.36	452.17	150.42
4775.00	8.14	152.96	4740.92	456.55	-397.13	225.25	0.32	456.57	150.44
4871.00	8.55	152.65	4835.91	470.47	-409.52	231.62	0.43	470.49	150.51
4934.00	8.74	152.28	4898.19	479.93	-417.92	236.00	0.31	479.95	150.55
4998.00	8.46	153.20	4961.47	489.49	-426.43	240.38	0.49	489.51	150.59
5061.00	8.66	151.14	5023.77	498.86	-434.72	244.76	0.58	498.89	150.62
5125.00	8.67	151.92	5087.04	508.49	-443.19	249.36	0.18	508.53	150.64
5189.00	8.59	150.72	5150.31	518.09	-451.62	253.97	0.31	518.13	150.65
5252.00	8.63	151.29	5212.60	527.52	-459.87	258.54	0.15	527.56	150.66
5316.00	8.67	150.47	5275.88	537.15	-468.28	263.22	0.20	537.19	150.66
5379.00	8.53	149.93	5338.17	546.57	-476.45	267.90	0.26	546.61	150.65
5443.00	8.64	150.14	5401.45	556.12	-484.73	272.68	0.18	556.16	150.64
5507.00	9.07	146.76	5464.69	565.97	-493.12	277.83	1.05	566.00	150.60
5570.00	9.53	142.89	5526.86	576.10	-501.43	283.70	1.23	576.12	150.50
5634.00	9.61	144.30	5589.97	586.67	-509.99	290.02	0.39	586.69	150.37
5697.00	9.31	143.22	5652.11	596.97	-518.34	296.14	0.55	596.97	150.26
5761.00	9.21	143.91	5715.28	607.20	-526.63	302.25	0.23	607.20	150.15
5825.00	9.02	146.90	5778.47	617.30	-534.97	308.01	0.80	617.30	150.07
5894.00	8.94	147.72	5846.63	628.06	-544.03	313.83	0.22	628.06	150.02

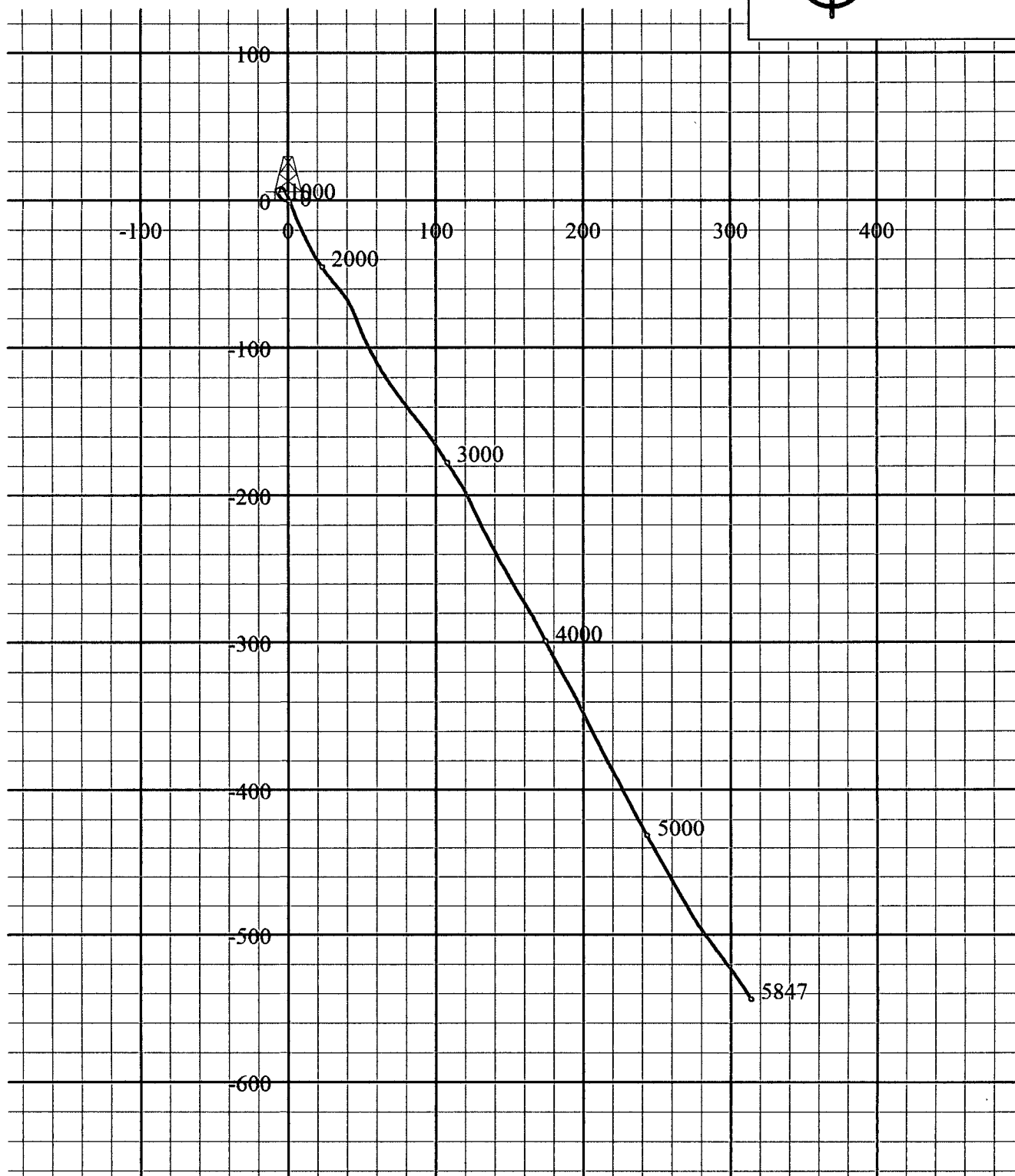


Scientific
Drilling

Field: Loco Hills
Site: Eddy County, NM
Well: Wichita State #2
Wellpath: DH - Job #32D0108078
Survey: 02/04/08-02/14/08



South(-)/North(+) [100ft/in]



West(-)/East(+) [100ft/in]