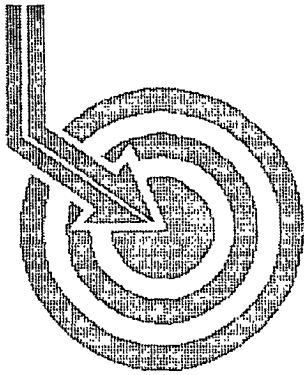




API # 30-015-35969

Scientific Drilling

COG RESOURCES

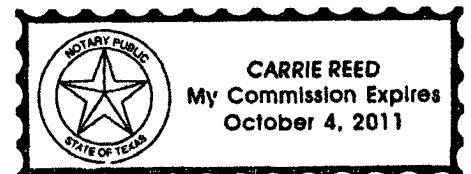
Field: Fren
Site: Eddy County, NM
Well: Skelly Unit #966
Wellpath: DH - Job #32K0209073
Survey: 02/23/09-03/01/09

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

.....*Richard*.....Company Representative

Notorized this date 23rd of March, 2009.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International Survey Report

Company: COG RESOURCES	Date: 03/23/2009	Time: 12:20:56	Page: 1
Field: Fren	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grnd North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Skelly Unit #966	Section (VS) Reference:	Well (0.00N,0.00E,297.96Azi)	
Wellpath: VH - Job.#32K0209071	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 02/22/09	Start Date: 02/22/2009
Company: Scientific Drilling Internatio	Engineer: Melendez/Lopez/Paredes
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	359.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.20	156.49	100.00	-0.14	-0.16	0.07	0.20	0.17	156.49
200.00	0.41	146.31	200.00	-0.59	-0.62	0.34	0.22	0.70	151.34
300.00	0.56	131.15	299.99	-1.38	-1.24	0.90	0.20	1.53	143.84
400.00	0.61	150.13	399.99	-2.30	-2.02	1.54	0.20	2.54	142.73
500.00	0.73	165.40	499.98	-3.19	-3.10	1.96	0.21	3.67	147.64
600.00	0.92	149.81	599.97	-4.30	-4.41	2.53	0.29	5.08	150.18
700.00	0.70	158.98	699.96	-5.44	-5.67	3.15	0.25	6.49	150.96
800.00	0.78	189.77	799.95	-6.12	-6.91	3.25	0.40	7.64	154.80
900.00	0.52	195.96	899.95	-6.42	-8.02	3.01	0.27	8.57	159.41
1000.00	0.67	200.14	999.94	-6.60	-9.01	2.69	0.16	9.40	163.39
1100.00	0.44	186.34	1099.94	-6.82	-9.94	2.44	0.26	10.23	166.18
1200.00	0.14	122.12	1199.94	-7.08	-10.38	2.50	0.40	10.68	166.44
1300.00	0.50	46.89	1299.94	-7.34	-10.15	2.93	0.48	10.56	163.92
1400.00	0.83	36.10	1399.93	-7.59	-9.27	3.67	0.35	9.97	158.38
1500.00	1.11	39.16	1499.91	-7.88	-7.93	4.71	0.28	9.22	149.29
1600.00	1.40	48.16	1599.89	-8.49	-6.36	6.23	0.35	8.91	135.60
1700.00	1.57	49.35	1699.86	-9.41	-4.66	8.18	0.17	9.41	119.65
1780.00	1.26	62.35	1779.83	-10.31	-3.53	9.79	0.56	10.41	109.85



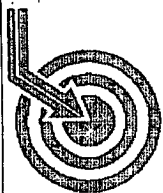
Scientific Drilling International Survey Report

Company: COG RESOURCES	Date: 03/23/2009	Time: 12:24:44	Page: 1
Field: Fren	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Skelly Unit #966	Section (VS) Reference:	Well (0.00N,0.00E,297.96Azi)	
Wellpath: DH - Job #32K0209073	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 02/23/09-03/01/09	Start Date: 02/23/2009
MWD 1905'-5391'	
Company: Scientific Drilling Internatio	Engineer: Lopez/Ramirez
Tool: MWD;MWD	Tied-to: From: Definitive Path

Survey

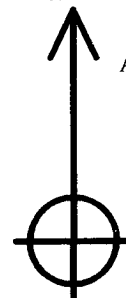
MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
1780.00	1.26	62.35	1779.83	-10.31	-3.53	9.79	0.00	10.41	109.85
1905.00	1.30	77.30	1904.80	-12.16	-2.59	12.39	0.27	12.66	101.78
1988.00	1.59	2.26	1987.78	-12.37	-1.23	13.36	2.14	13.41	95.25
2051.00	2.75	337.41	2050.74	-10.83	1.04	12.81	2.33	12.85	85.35
2114.00	4.37	323.75	2113.61	-7.50	4.37	10.81	2.88	11.66	67.98
2177.00	5.93	321.40	2176.36	-2.35	8.85	7.36	2.50	11.51	39.75
2239.00	6.96	316.29	2237.97	4.15	14.07	2.77	1.90	14.34	11.13
2302.00	7.90	311.97	2300.44	11.98	19.72	-3.09	1.73	19.97	351.10
2365.00	8.39	306.22	2362.80	20.73	25.34	-10.02	1.51	27.24	338.43
2427.00	8.95	300.78	2424.09	30.02	30.48	-17.81	1.60	35.30	329.70
2490.00	9.53	292.08	2486.28	40.10	34.95	-26.85	2.40	44.07	322.46
2585.00	9.01	290.05	2580.04	55.29	40.45	-41.13	0.65	57.69	314.52
2680.00	8.21	288.22	2673.97	69.35	45.12	-54.56	0.89	70.80	309.59
2742.00	9.03	291.64	2735.27	78.55	48.30	-63.29	1.56	79.61	307.35
2836.00	8.72	291.11	2828.14	92.95	53.59	-76.79	0.34	93.64	304.91
2898.00	9.33	295.78	2889.37	102.64	57.47	-85.70	1.54	103.19	303.84
3024.00	8.40	299.22	3013.87	122.05	66.40	-102.93	0.85	122.49	302.83
3087.00	9.27	295.98	3076.12	131.72	70.87	-111.51	1.59	132.13	302.44
3151.00	11.00	294.61	3139.12	142.97	75.67	-121.70	2.73	143.30	301.87
3245.00	10.87	294.63	3231.41	160.77	83.10	-137.91	0.14	161.01	301.07
3339.00	10.66	293.03	3323.76	178.28	90.20	-153.96	0.39	178.44	300.36
3433.00	10.33	294.86	3416.19	195.36	97.14	-169.61	0.50	195.46	299.80
3528.00	10.09	294.13	3509.68	212.17	104.12	-184.94	0.29	212.23	299.38
3623.00	9.23	293.90	3603.33	228.07	110.61	-199.50	0.91	228.11	299.01
3718.00	9.32	293.15	3697.09	243.34	116.72	-213.53	0.16	243.35	298.66
3813.00	9.37	293.72	3790.83	258.71	122.86	-227.69	0.11	258.72	298.35
3907.00	9.16	295.09	3883.61	273.82	129.11	-241.47	0.32	273.82	298.13
4001.00	8.92	294.90	3976.44	288.57	135.35	-254.86	0.26	288.57	297.97
4095.00	9.32	294.72	4069.25	303.44	141.60	-268.38	0.43	303.44	297.82
4189.00	9.32	295.28	4162.01	318.65	148.03	-282.18	0.10	318.65	297.68
4284.00	9.28	295.13	4255.76	333.98	154.57	-296.07	0.05	333.99	297.57
4379.00	9.20	295.67	4349.53	349.22	161.12	-309.85	0.12	349.23	297.47
4441.00	8.95	296.25	4410.75	358.99	165.40	-318.64	0.43	359.01	297.43
4505.00	8.42	298.25	4474.02	368.65	169.82	-327.23	0.95	368.67	297.43
4567.00	7.23	303.31	4535.44	377.08	174.11	-334.49	2.22	377.09	297.50
4662.00	5.70	303.62	4629.83	387.73	180.00	-343.42	1.61	387.73	297.66
4757.00	5.22	306.40	4724.40	396.70	185.18	-350.82	0.58	396.70	297.83
4853.00	4.23	293.00	4820.08	404.54	189.15	-357.60	1.54	404.54	297.88
4947.00	2.95	301.09	4913.89	410.41	191.76	-362.86	1.46	410.41	297.85
5043.00	2.37	291.69	5009.79	414.85	193.77	-366.82	0.75	414.85	297.84
5137.00	0.81	301.68	5103.75	417.45	194.83	-369.19	1.68	417.45	297.82
5232.00	1.12	275.45	5198.74	418.97	195.27	-370.69	0.56	418.98	297.78
5295.00	0.75	289.59	5261.73	419.95	195.47	-371.69	0.69	419.95	297.74
5391.00	0.91	261.38	5357.72	421.19	195.57	-373.03	0.45	421.19	297.67



**Scientific
Drilling**

Field: Fren
Site: Eddy County, NM
Well: Skelly Unit #966
Wellpath: DH - Job #32K0209073
Survey: 02/23/09-03/01/09

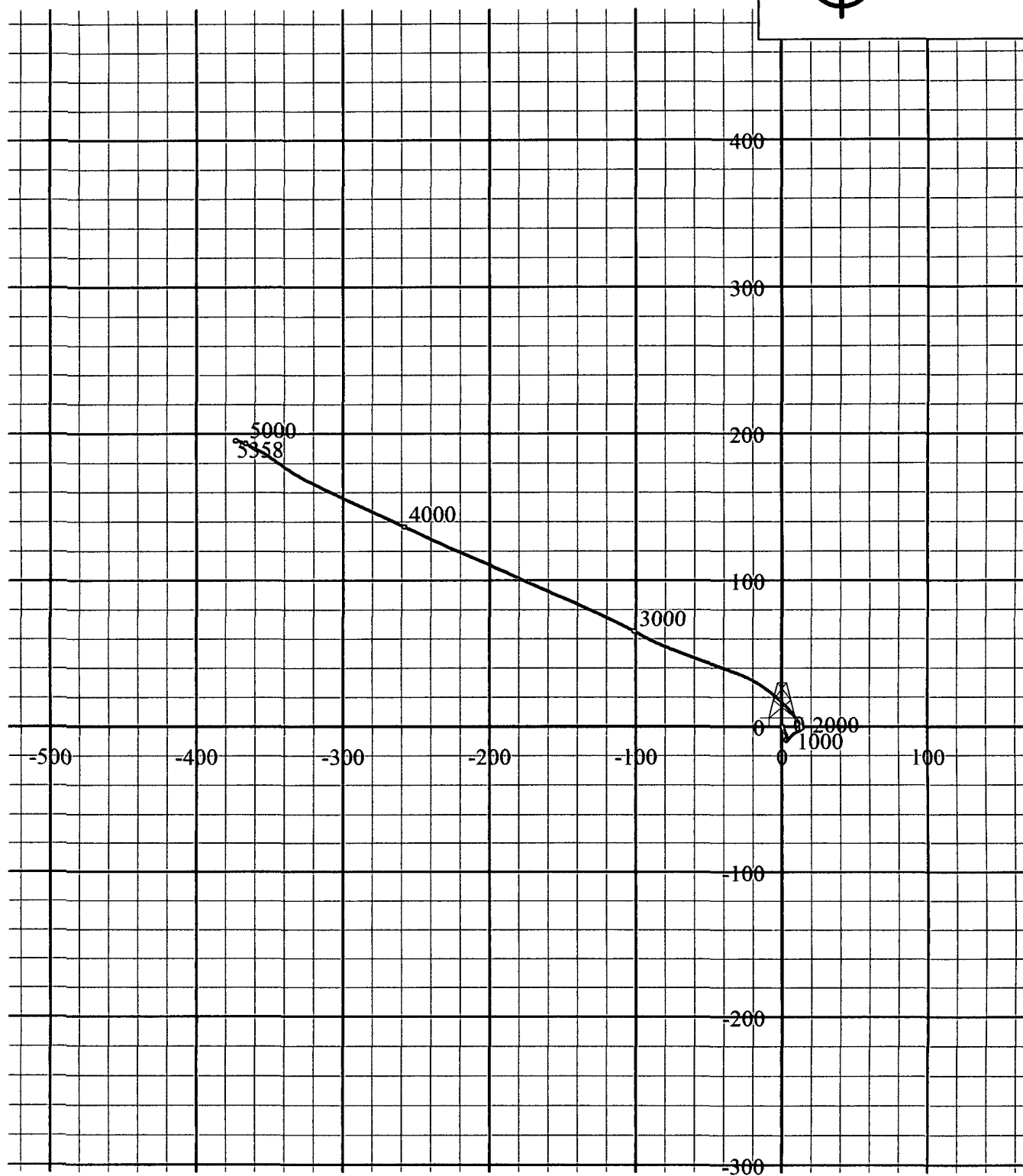
G/T/M



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 03/23/2009
Model: igrf2000

South(-)/North(+) [50ft/in]



West(-)/East(+) [50ft/in]