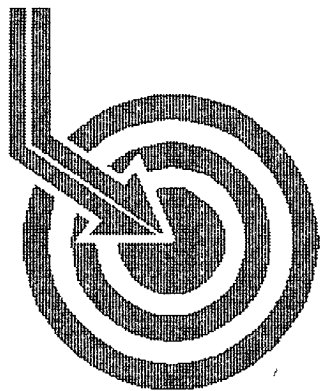




Scientific Drilling

FEB - 3 2009

30.015.31532

COG RESOURCES

Field: East Empire Yeso
Site: Eddy County, NM
Well: White Star Federal #15
Wellpath: VH - Job #32K0708498
Survey: 07/02/08

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

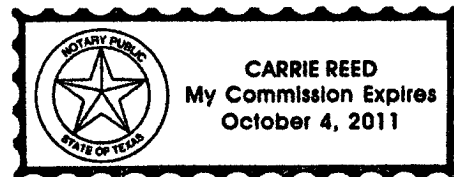
.....*Fluor*.....Company Representative

Notorized this date 11th of August, 2008.

Carrie Reed

Notary Signature
County of Midland
State of Texas

Submit C-03 as drill plat





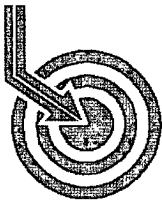
Scientific Drilling International Survey Report

Company: COG RESOURCES	Date: 08/10/2008	Time: 15:18:38	Page: 1
Field: East Empire Yeso	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: White Star Federal #15	Section (VS) Reference:	Well (0.00N,0.00E,0.00Azi)	
Wellpath: VH - Job #32K0708498	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 07/02/08	Start Date: 07/02/2008
Company: Scientific Drilling Internatio	Engineer: Guebara w/P&M
Tool: Keeper;Keeper Gyro	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
1600.00	0.52	332.82	1600.00	0.00	0.00	0.00	0.00	0.00	0.00
1700.00	0.67	330.94	1699.99	0.91	0.91	-0.49	0.15	1.04	331.76
1800.00	0.74	329.68	1799.99	1.98	1.98	-1.10	0.07	2.27	330.96
1900.00	0.77	311.31	1899.98	2.98	2.98	-1.93	0.24	3.56	327.08
2000.00	0.48	317.93	1999.97	3.74	3.74	-2.72	0.30	4.62	323.99
2100.00	0.54	280.15	2099.97	4.13	4.13	-3.46	0.34	5.39	320.05
2200.00	0.29	348.04	2199.97	4.46	4.46	-3.98	0.51	5.98	318.29
2300.00	0.46	1.67	2299.96	5.11	5.11	-4.02	0.19	6.50	321.83
2400.00	0.45	7.98	2399.96	5.90	5.90	-3.95	0.05	7.10	326.19
2500.00	0.20	21.66	2499.96	6.45	6.45	-3.83	0.26	7.51	329.29
2600.00	0.28	44.22	2599.96	6.79	6.79	-3.60	0.12	7.69	332.08
2700.00	0.32	24.87	2699.96	7.22	7.22	-3.31	0.11	7.94	335.36
2800.00	0.43	45.12	2799.96	7.74	7.74	-2.93	0.17	8.27	339.27
2900.00	0.30	53.56	2899.95	8.16	8.16	-2.45	0.14	8.52	343.28
3000.00	0.70	56.96	2999.95	8.65	8.65	-1.73	0.40	8.82	348.69
3100.00	0.43	34.57	3099.94	9.29	9.29	-1.00	0.34	9.34	353.83
3200.00	0.60	68.77	3199.94	9.79	9.79	-0.30	0.34	9.79	358.23
3300.00	0.99	62.98	3299.93	10.37	10.37	0.96	0.40	10.41	5.26
3400.00	1.28	68.14	3399.91	11.18	11.18	2.76	0.31	11.51	13.88
3500.00	1.43	77.36	3499.88	11.87	11.87	5.02	0.26	12.88	22.91
3600.00	1.52	76.71	3599.85	12.44	12.44	7.52	0.09	14.54	31.16
3700.00	1.83	69.92	3699.81	13.30	13.30	10.31	0.37	16.83	37.80
3800.00	1.52	63.59	3799.76	14.44	14.44	13.00	0.36	19.43	42.01
3900.00	1.73	62.32	3899.72	15.73	15.73	15.53	0.21	22.10	44.63
4000.00	1.63	63.41	3999.68	17.06	17.06	18.13	0.10	24.90	46.74
4100.00	1.44	72.11	4099.65	18.09	18.09	20.60	0.30	27.42	48.72
4200.00	1.69	65.74	4199.61	19.08	19.08	23.14	0.30	29.99	50.50
4300.00	1.74	72.06	4299.56	20.15	20.15	25.93	0.20	32.84	52.15
4400.00	1.75	58.39	4399.52	21.42	21.42	28.68	0.42	35.79	53.24
4500.00	2.24	53.90	4499.46	23.37	23.37	31.56	0.51	39.27	53.47
4600.00	2.08	59.63	4599.39	25.44	25.44	34.70	0.27	43.03	53.75
4700.00	1.90	47.73	4699.33	27.47	27.47	37.49	0.45	46.48	53.77
4800.00	2.02	33.47	4799.27	30.06	30.06	39.69	0.50	49.79	52.86
4900.00	2.15	20.03	4899.20	33.29	33.29	41.31	0.50	53.05	51.13
5000.00	2.67	14.76	4999.11	37.31	37.31	42.54	0.56	56.58	48.75
5100.00	3.25	18.60	5098.98	42.24	42.24	44.04	0.61	61.03	46.19
5200.00	3.47	12.01	5198.81	47.89	47.89	45.57	0.44	66.11	43.58
5300.00	3.54	10.48	5298.62	53.89	53.89	46.76	0.12	71.35	40.95
5400.00	3.16	355.16	5398.45	59.67	59.67	47.09	0.97	76.01	38.28
5500.00	2.46	353.08	5498.33	64.55	64.55	46.60	0.71	79.61	35.83
5579.00	2.20	357.07	5577.27	67.74	67.74	46.32	0.39	82.07	34.36



Scientific
Drilling

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