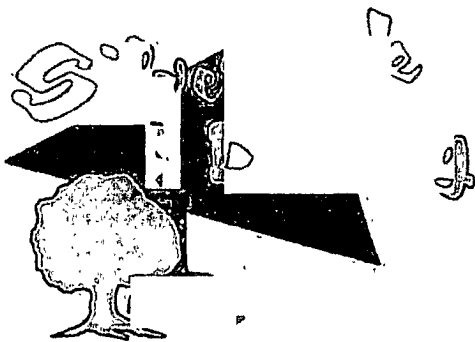




PO Box 1370
Artesia, NM 88211-1370
(575) 748-1288

30-015-39329

December 17, 2011

COG, LLC
Fasken Center, Tower II
550 West Texas Ave, Suite 1300
Midland, TX 79701

RE: Foster Eddy #26
1440' FNL & 1783' FWL
Sec. 17, T17S, R31E
Eddy County, New Mexico

Dear Sir,

The attached is the Deviation Survey for the above captioned well.

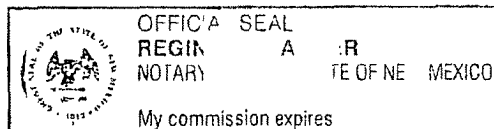
Very truly yours,

Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 17th day of December, 2011.

Notary Public



Foster Eddy #26

Date	Depth	Dev/Inc	Dir/AZ	TVD
12/5/2011	177	0.60		217
12/5/2011	265	1.20		305
12/5/2011	351	0.60		
2/5/2011	410	0.70		
2/8/2011	635	0.70		692
/8/2011	1009	1.20		
/8/2011	1164	0.60		
8/2011	1506	0.90		
/9/2011	1787	0.40		1833
0/2011	1869	0.40	89.10	1909
0/2011	1931	0.50	214.50	1971
/2011	2025	1.90	218.60	2065
/2011	2118	3.00	210.80	2117
	2212	4.40	208.50	2211
	2398	6.0	200.60	2396
	2492	6.0	197.10	
	2585	6.0	195.20	
	2678	7.0	194.60	
	2772	7.0	193.10	
	2865	0	196.30	2859
	2959	7.0	192.20	2952
	3052	8.30	193.20	3045
	3332	7.30	194.00	3322
	3612	.60	194.20	3602
	3426	7.30	197.00	3416
	3905	7.00	194.90	3695
	3514	7.70	196.70	3509
2/12/2011	3799	7.30	195.60	3828
2/12/2011	3893	6.90	199.90	3922
12/12/2011	3986	7.50	198.30	3975
2/12/2011	4079	7.20	196.60	4067
12/12/2011	4173	6.90	196.70	4161
12/12/2011	4266	6.60	197.80	4256
12/12/2011	4359	6.70	198.50	4347
12/12/2011	4453	30	700.50	4443
12/13/2011	4546	4.30	198.90	4521
12/13/2011	4640	3.20	203.70	4615.00
12/13/2011	4733	1.80	203.60	4708.00
12/13/2011	4826	0.80	191.20	4916.00
12/13/2011	4920	0.20	156.90	4930.00
12/13/2011	5013	0.40	99.10	5003.00
12/13/2011	5200	1.30	95.30	5185.00
12/13/2011	5294	0.30	105.10	5279.00
12/13/2011	5356	0.30	128.10	5341.00
12/14/2011	5484	0.40		5555.00
12/14/2011	5609	0.40		5680.00
12/14/2011	5734	0.40		5805.00
12/14/2011	5889	0.30		
12/15/2011	6298	0.30		

COG Operating, LLC

Eddy County, NM

Foster Eddy #26

Foster Eddy #26

Wellbore #1

Survey: MWD Survey #1

Standard Survey Report

14 December, 2011

SHL : 1400' FNL & 1783' FWL

Top of Paddock: 1706' FNL 1706' FWL, 4900' TVD, 4918.55' MD

Survey Report

Company:	COG Operating, LLC	Local Co-ordinate Reference:	Site Foster Eddy #28
Project:	Eddy County, NM	TVD Reference:	KB @ 3727.00ft (Silver Oak #8)
Site:	Foster Eddy #28	MD Reference:	KB @ 3727.00ft (Silver Oak #8)
Well:	Foster Eddy #28	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Black Viper

Project	Eddy County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Foster Eddy #28, Sec 17, T-17-S, R-31-E		
Site Position:		Northing:	668,788.20 ft
From:	Map	Easting:	634,892.10 ft
Position Uncertainty:	0.00 ft	Slot Radius:	13 200 in
		Latitude:	32° 50' 16.117 N
		Longitude:	103° 53' 38.961 W
		Grid Convergence:	0.24 °

Well	Foster Eddy #28		
Well Position	+N/-S	0.00 ft	Northing: 668,788.20 ft
	+E/-W	0.00 ft	Easting: 634,892.10 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	3,727.00 ft
		Ground Level:	3,710.00 ft
		Latitude:	32° 50' 16.117 N
		Longitude:	103° 53' 38.961 W

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	11/22/2011	(°)
			7.73
			Dip Angle (°)
			60.69
			Field Strength (nT)
			48,904

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	1,782.00
Vertical Section:	Depth From (TVD):	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction
			(°)
			188.12

Survey Program	Date	12/14/2011		
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
100.00	1,782.00	Gyro Survey #1 (OH)	Gyro	
1,782.00	5,396.00	MWD Survey #1 (Wellbore #1)		

Survey	Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
	1,782.00	0.87	95.95	1,781.88	-10.52	13.15	8.56	0.00	0.00	0.00
	1,869.00	0.40	89.10	1,868.87	-10.59	14.11	8.49	0.55	-0.54	-7.87
First MWD Survey										
	1,931.00	0.50	214.50	1,930.87	-10.80	14.18	8.69	1.29	0.16	202.26
	2,025.00	1.90	218.60	2,024.85	-12.36	12.97	10.40	1.49	1.49	4.36
	2,118.00	3.00	210.80	2,117.76	-15.66	10.76	13.98	1.23	1.18	-8.39
	2,212.00	4.40	208.50	2,211.56	-20.94	7.78	19.63	1.50	1.49	-2.45
	2,305.00	5.40	205.60	2,304.22	-28.02	4.19	27.15	1.11	1.08	-3.12
	2,398.00	6.90	200.60	2,396.68	-37.20	0.33	36.78	1.71	1.61	-5.38
	2,492.00	6.80	197.10	2,490.01	-47.80	-3.29	47.79	0.46	-0.11	-3.72

Survey Report

Company:	COG Operating, LLC	Local Co-ordinate Reference:	Site Foster Eddy #26
Project:	Eddy County, NM	TVD Reference:	KB @ 3727.00ft (Silver Oak #6)
Site:	Foster Eddy #26	MD Reference:	KB @ 3727.00ft (Silver Oak #6)
Well:	Foster Eddy #26	North Reference:	Grid
Wellbore:	Wellbore #1	Survey/Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM, 5000.1 Black Viper

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,585.00	6.90	195.20	2,582.35	-58.45	-6.37	58.77	0.27	0.11	-2.04
2,678.00	7.40	194.60	2,674.63	-69.64	-9.35	70.26	0.54	0.54	-0.65
2,772.00	7.90	193.10	2,767.79	-81.79	-12.34	82.71	0.57	0.53	-1.60
2,865.00	8.30	196.30	2,859.86	-94.46	-15.67	95.72	0.65	0.43	3.44
2,959.00	7.80	192.20	2,952.94	-107.20	-18.92	108.80	0.81	-0.53	-4.36
3,052.00	8.30	193.20	3,045.02	-119.91	-21.79	121.78	0.56	0.54	1.08
3,145.00	7.90	191.60	3,137.09	-132.70	-24.61	134.85	0.49	-0.43	-1.72
3,239.00	7.60	190.80	3,230.23	-145.14	-27.07	147.51	0.34	-0.32	-0.85
3,332.00	7.30	194.00	3,322.45	-156.91	-29.65	159.53	0.55	-0.32	3.44
3,426.00	7.30	197.00	3,415.69	-168.42	-32.84	171.37	0.41	0.00	3.19
3,519.00	7.70	196.70	3,507.89	-180.04	-36.36	183.37	0.43	0.43	-0.32
3,612.00	6.60	194.20	3,600.17	-191.18	-39.46	194.84	1.23	-1.18	-2.69
3,705.00	7.00	194.90	3,692.51	-201.84	-42.23	205.78	0.44	0.43	0.75
3,799.00	7.30	195.60	3,785.78	-213.13	-45.31	217.39	0.33	0.32	0.74
3,893.00	6.90	199.90	3,879.06	-224.19	-48.84	228.84	0.71	-0.43	4.57
3,986.00	7.50	198.30	3,971.33	-235.21	-52.64	240.28	0.68	0.65	-1.72
4,079.00	7.20	196.60	4,063.56	-246.55	-56.22	252.02	0.40	-0.32	-1.83
4,173.00	6.90	196.70	4,156.85	-257.61	-59.52	263.43	0.32	-0.32	0.11
4,266.00	6.60	197.80	4,249.21	-268.05	-62.76	274.22	0.35	-0.32	1.18
4,359.00	6.70	198.50	4,341.58	-278.28	-66.11	284.83	0.14	0.11	0.75
4,453.00	5.30	200.50	4,435.07	-287.55	-69.38	294.46	1.51	-1.49	2.13
4,546.00	4.00	198.90	4,527.76	-294.64	-71.93	301.85	1.40	-1.40	-1.72
4,639.00	3.20	203.70	4,620.57	-300.09	-74.02	307.53	0.92	-0.86	5.16
4,733.00	1.80	203.60	4,714.48	-303.84	-75.67	311.48	1.49	-1.49	-0.11
4,826.00	0.80	191.20	4,807.46	-305.82	-76.38	313.54	1.11	-1.08	-13.33
4,918.50	0.21	158.89	4,899.95	-306.61	-76.45	314.33	0.69	-0.64	-34.93
Top of Paddock (FE#26)									
4,918.52	0.21	158.89	4,899.97	-306.61	-76.45	314.33	0.00	0.00	0.00
PBHL #1 (FE#26H)									
4,918.55	0.21	158.89	4,900.00	-306.61	-76.45	314.33	0.00	0.00	0.00
Top of Paddock									
4,920.00	0.20	156.90	4,901.45	-306.61	-76.44	314.33	0.71	-0.52	-137.14
5,013.00	0.40	99.10	4,994.45	-306.81	-76.06	314.48	0.36	0.22	-62.15
5,107.00	0.40	81.80	5,088.45	-306.82	-75.41	314.39	0.13	0.00	-18.40
5,200.00	0.30	95.30	5,181.45	-306.79	-74.85	314.29	0.14	-0.11	14.52
5,294.00	0.30	105.10	5,275.45	-306.88	-74.36	314.31	0.05	0.00	10.43
5,356.00	0.30	128.10	5,337.45	-307.02	-74.08	314.41	0.19	0.00	37.10
5,396.00	0.30	128.10	5,377.44	-307.15	-73.92	314.51	0.00	0.00	0.00
Last MWD Survey									

Survey Report

Company:	COG Operating, LLC	Local Co-ordinate Reference:	Site Foster Eddy #26
Project:	Eddy County, NM	TVD Reference:	KB @ 3727.00ft (Silver Oak #8)
Site:	Foster Eddy #26	MD Reference:	KB @ 3727.00ft (Silver Oak #8)
Well:	Foster Eddy #26	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM, 5000:1 Black Viper

Design Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Top of Paddock	- survey hits target center	0.00	0.00	4,900.00	-306.61	-76.45	668,481.60	634,815.66	32° 50' 13.086 N	103° 53' 39.872 W
- Point										

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
1,869.00	1,868.87	-10.59	14.11	First MWD Survey	
5,396.00	5,377.44	-307.15	-73.92	Last MWD Survey	

Checked By: _____ Approved By: _____ Date: _____