

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO 1004-0135
Expires July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

5. Lease Serial No. NMLC049998A
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No
8. Well Name and No. FOSTER EDDY 21
9. API Well No. 30-015-39121
10. Field and Pool, or Exploratory MAR LOCO; GLORIETA YESO
11. County or Parish, and State EDDY COUNTY, NM

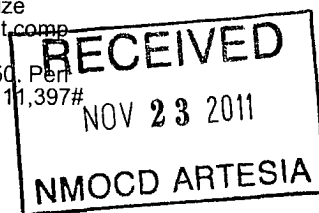
1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other	
2. Name of Operator COG OPERATING LLC	
Contact. CHASITY JACKSON E-Mail. cjackson@concho.com	
3a. Address 550 WEST TEXAS AVENUE SUITE 100 MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-686-3087
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 17 T17S R31E 940FNL 2050FEL	

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Drilling Operations
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

9/20/11 Drill out DVT @ 3206. 9/22/11 Test 5-1/2 BOP 3500psi, ok.
9/29/11 Perf Lower Blinebry @ 5890-6090 w/1 SPF, 26 holes.
10/1/11 Acidize w/2,500 gals acid. Frac w/115,000 gals gel, 148,262# 16/30 white sand, 31,127#
16/30 CRC. Set comp plug @ 5850. Perf Middle Blinebry @ 5620-5820 w/1 SPF, 26 holes. Acidize
w/2,500 gals acid. Frac w/114,000 gals gel, 143,607# 16/30 white sand, 30,359# 16/30 CRC. Set comp
plug @ 5580. Perf Upper Blinebry @ 5245-5550 w/4 SPF, 28 holes. Acidize w/2,500 gals acid.
Frac w/114,000 gals gel, 144,348# 16/30 white sand, 31,402# 16/30 CRC. Set comp plug @ 5050. Perf
Paddock @ 4820-5020 w/1 SPF, 26 holes. Acidize w/3,000 gals acid. Frac w/101,000 gals gel, 111,397#
16/30 white sand, 27,109# 16/30 CRC.
10/5/11 Drill out plugs. Clean out to PBTD 6277.
10/6/11 RIH w/186jts 2-7/8" J55 6.5# tbg, SN @ 5857.
10/7/11 RIH w/2-1/2x2x24 pump. Hang on well.



14 I hereby certify that the foregoing is true and correct.

**Electronic Submission #123876 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Carlsbad**

Name (Printed/Typed) CHASITY JACKSON	Title PREPARER
Signature (Electronic Submission)	Date 11/22/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office _____

DEC 14 2011
Date

Title 18 U S C Section 1001 and Title 43 U S C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****



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

30-015-39121

September 18, 2011

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

RE: Foster Eddy #21
940' FNL & 2050' FEL
Sec. 17, T17S, R31E
Eddy County, New Mexico

Dear Sir,

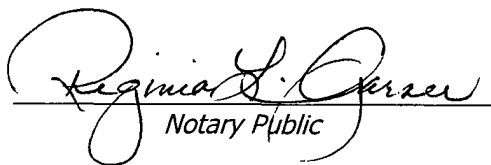
The attached is the Deviation Survey for the above captioned well.

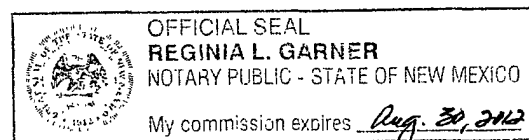
Very truly yours,


Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 18th day of September, 2011.


Regina L. Garner
Notary Public



Foster Eddy #21

Date	Depth	Dev/Inc	Dir/AZ	TVD	Hor. Disp
9/5/2011	170	0.30		254	
9/5/2011	234	0.80		364	
9/5/2011	324	1.20			
9/5/2011	371	0.90			
9/7/2011	635	0.90			
9/8/2011	884	0.30		939	
9/8/2011	1133	0.40		1188	
9/8/2011	1632	0.60			
9/10/2011	1922	0.60	240.50		
9/10/2011	2021	1.30	261.30		
9/10/2011	2083	1.90	258.90		
9/10/2011	2145	3.10	266.40	2144.80	12.40
9/10/2011	2208	3.80	267.70	2207.00	16.20
9/10/2011	2270	4.80	269.60	2268.00	20.70
9/10/2011	2332	5.50	264.50	2331.00	26.30
9/11/2011	2395	5.50	262.80		
9/11/2011	2488	5.30	252.20		
9/11/2011	2581	5.40	254.20		
9/11/2011	2694	5.20	254.00		
9/11/2011	2768	5.10	254.70	2765.00	
9/11/2011	2861	5.10	256.20	2858.00	
9/11/2011	3017	5.90	257.80	3013.00	90.20
9/11/2011	3142	5.00	254.60	3137.00	102.10
9/12/2011	3297	5.20	263.60	329.20	
9/12/2011	3453	5.90	264.50	3447.00	
9/12/2011	3546	5.00	266.00	3450.00	
9/12/2011	3670	5.50	265.00	3663.00	
9/12/2011	3795	4.40	365.60	3788.00	161.00
9/12/2011	3950	4.70	266.60	3942.00	173.80
9/12/2011	4106	4.90	266.80	4097.90	186.70
9/13/2011	4292	4.60	264.90	4288.30	
9/13/2011	4417	4.70	265.60	4407.00	
9/13/2011	4604	5.00	267.00	4648.00	
9/13/2011	4666	5.90	212.30	4656.00	
9/13/2011	4728	4.50	263.70	4717.80	
9/13/2011	4791	3.90	266.00	4780.60	
9/13/2011	4853	3.00	266.90	4842.50	246.60
9/13/2011	4915	2.30	256.90	4904.00	249.90
9/13/2011	5009	1.10	214.10	4998.40	251.90
9/14/2011	5103	0.60	195.60	5092.40	
9/14/2011	5289	0.40	193.70	5276.40	
9/14/2011	5476	0.40	238.10	5466.40	
9/15/2011	5735	0.10		5806.00	
9/15/2011	6047	0.60		6116.00	
9/15/2011	6265	1.00			



30-015-39521

Ryan Energy Directional Drilling Report

Field: Eddy Co, NM
Site: Foster Eddy #21
Well: #21
Wellpath: OH

Prepared For:

COG Operating LLC



Ryan Energy Technology

19510 Oil Center Blvd
Houston, TX 77073
Ph: 281-443-1414
Fx: 281-443-1676

www.ryanenergy.com



Ryan Energy Technologies Survey Report



Company: COG Operating LLC	Date: 9/15/2011	Time: 11:15:31	Page: 1
Field: Eddy Co, NM	Co-ordinate(NE) Reference:	Site: Foster Eddy #21, Grid North	
Site: Foster Eddy #21	Vertical (TVD) Reference:	SITE 3736.0	
Well: #21	Section (VS) Reference:	Well (0.00N,0.00E,260.52Azi)	
Wellpath: OH	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Field: Eddy Co, NM New Mexico U.S.A	Map System: US State Plane Coordinate System 1927	Map Zone: New Mexico, Eastern Zone
Geo Datum: NAD27 (Clarke 1866)	Coordinate System: Site Centre	
Sys Datum: Mean Sea Level	Geomagnetic Model: IGRF2010	

Site: Foster Eddy #21

Eddy Co., NM

Site Position:	Northing: 669258.20 ft	Latitude: 32 50 20.721 N
From: Map	Easting: 636334.90 ft	Longitude: 103 53 22.012 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3736.00 ft		Grid Convergence: 0.24 deg

Well: #21

Slot Name:

Well Position: +N/-S 0.00 ft	Northing: 669258.20 ft	Latitude: 32 50 20.721 N
+E/-W 0.00 ft	Easting: 636334.90 ft	Longitude: 103 53 22.012 W
Position Uncertainty: 0.00 ft		

Wellpath: OH

Current Datum: SITE	Height 3736.00 ft	Drilled From: Surface
Magnetic Data: 9/6/2011		Tie-on Depth: 0.00 ft
Field Strength: 48955 nT		Above System Datum: Mean Sea Level
Vertical Section: Depth From (TVD)	+N/-S	Declination: 7.75 deg
ft	ft	Mag Dip Angle: 60.69 deg
		+E/-W
		ft
		Direction
		deg
0.00	0.00	0.00
		260.52

Survey Program for Definitive Wellpath

Date: 9/15/2011	Validated: No	Version: 0
Actual From	To	Toolcode
ft	ft	Tool Name
100.00	1723.00	Survey #1 (100.00-1723.00)
1922.00	5477.00	Survey #2 (1922.00-5477.00)
5619.00	5619.00	Survey #3 (5619.00-5619.00)
		Gyro
		Ryan MWD
		Projection

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIE LINE
100.00	0.44	292.71	100.00	0.15	-0.35	0.32	0.44	0.44	0.00	Gyro
200.00	0.38	247.44	200.00	0.17	-1.01	0.97	0.32	-0.06	-45.27	Gyro
300.00	0.91	242.93	299.99	-0.32	-2.03	2.05	0.53	0.53	-4.51	Gyro
400.00	0.75	222.84	399.98	-1.16	-3.18	3.33	0.33	-0.16	-20.09	Gyro
500.00	0.85	219.70	499.97	-2.21	-4.10	4.41	0.11	0.10	-3.14	Gyro
600.00	0.93	206.88	599.96	-3.51	-4.94	5.45	0.21	0.08	-12.82	Gyro
700.00	0.61	200.69	699.95	-4.73	-5.49	6.20	0.33	-0.32	-6.19	Gyro
800.00	0.45	212.50	799.94	-5.56	-5.89	6.73	0.19	-0.16	11.81	Gyro
900.00	0.09	261.71	899.94	-5.90	-6.18	7.07	0.40	-0.36	49.21	Gyro
1000.00	0.28	201.81	999.94	-6.14	-6.35	7.28	0.25	0.19	-59.90	Gyro
1100.00	0.10	116.21	1099.94	-6.40	-6.36	7.33	0.29	-0.18	-85.60	Gyro
1200.00	0.25	185.09	1199.94	-6.66	-6.30	7.32	0.23	0.15	68.88	Gyro
1300.00	0.23	48.90	1299.94	-6.74	-6.17	7.20	0.45	-0.02	-136.19	Gyro
1400.00	0.15	77.81	1399.94	-6.58	-5.89	6.90	0.12	-0.08	28.91	Gyro
1500.00	0.47	126.47	1499.94	-6.80	-5.44	6.48	0.39	0.32	48.66	Gyro
1600.00	0.10	67.27	1599.94	-7.01	-5.03	6.11	0.43	-0.37	-59.20	Gyro
1700.00	0.17	127.45	1699.94	-7.07	-4.83	5.93	0.15	0.07	60.18	Gyro
1723.00	0.27	91.90	1722.94	-7.09	-4.75	5.85	0.72	0.43	-154.57	Gyro
1922.00	0.60	240.50	1921.93	-7.62	-5.18	6.37	0.42	0.17	74.67	Ryan MWD
2021.00	1.30	261.30	2020.92	-8.04	-6.75	7.98	0.78	0.71	21.01	Ryan MWD



Ryan Energy Technologies Survey Report



Company: COG Operating LLC
Field: Eddy Co, NM
Site: Foster Eddy #21
Well: #21
Wellpath: OH

Date: 9/15/2011 Time: 11:15:31 Page: 2
Co-ordinate(NE) Reference: Site: Foster Eddy #21, Grid North
Vertical (TVD) Reference: SITE 3736.0
Section (VS) Reference: Well (0.00N,0.00E,260.52Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2083.00	1.90	258.70	2082.90	-8.35	-8.45	9.71	0.97	0.97	-4.19	Ryan MWD
2145.00	3.10	266.40	2144.84	-8.66	-11.13	12.40	2.01	1.94	12.42	Ryan MWD
2208.00	3.80	267.70	2207.72	-8.85	-14.92	16.17	1.12	1.11	2.06	Ryan MWD
2269.00	4.80	269.60	2268.55	-8.95	-19.49	20.70	1.66	1.64	3.11	Ryan MWD
2332.00	5.40	264.50	2331.30	-9.25	-25.07	26.26	1.19	0.95	-8.10	Ryan MWD
2395.00	5.50	262.80	2394.02	-9.91	-31.02	32.23	0.30	0.16	-2.70	Ryan MWD
2488.00	5.30	252.20	2486.60	-11.78	-39.53	40.93	1.09	-0.22	-11.40	Ryan MWD
2581.00	5.40	251.60	2579.20	-14.48	-47.77	49.51	0.12	0.11	-0.65	Ryan MWD
2674.00	5.70	254.00	2671.76	-17.13	-56.37	58.42	0.41	0.32	2.58	Ryan MWD
2768.00	5.10	254.70	2765.35	-19.52	-64.88	67.21	0.64	-0.64	0.74	Ryan MWD
2861.00	5.10	256.10	2857.98	-21.61	-72.88	75.45	0.13	0.00	1.51	Ryan MWD
3017.00	5.80	257.80	3013.27	-24.94	-87.32	90.23	0.46	0.45	1.09	Ryan MWD
3066.00	5.60	259.00	3062.03	-25.92	-92.08	95.10	0.48	-0.41	2.45	Ryan MWD
3141.00	5.00	254.60	3136.71	-27.48	-98.83	102.00	0.97	-0.80	-5.87	Ryan MWD
3191.00	5.05	257.56	3186.52	-28.54	-103.08	106.37	0.53	0.10	5.92	Ryan MWD
3297.00	5.20	263.60	3292.09	-30.08	-112.41	115.83	0.53	0.14	5.70	Ryan MWD
3453.00	5.80	264.50	3447.38	-31.62	-127.28	130.75	0.39	0.38	0.58	Ryan MWD
3546.00	5.00	266.00	3539.96	-32.35	-136.00	139.47	0.87	-0.86	1.61	Ryan MWD
3670.00	5.50	265.00	3663.44	-33.25	-147.31	150.77	0.41	0.40	-0.81	Ryan MWD
3795.00	4.40	265.60	3787.97	-34.14	-158.06	161.52	0.88	-0.88	0.48	Ryan MWD
3950.00	4.70	266.60	3942.48	-34.97	-170.33	173.76	0.20	0.19	0.65	Ryan MWD
4106.00	4.90	266.80	4097.94	-35.72	-183.36	186.74	0.13	0.13	0.13	Ryan MWD
4292.00	4.60	264.90	4283.30	-36.83	-198.72	202.07	0.18	-0.16	-1.02	Ryan MWD
4417.00	4.70	265.60	4407.89	-37.67	-208.82	212.17	0.09	0.08	0.56	Ryan MWD
4653.00	5.00	267.00	4643.04	-38.95	-228.73	232.02	0.14	0.13	0.59	Ryan MWD
4666.00	5.00	267.30	4655.99	-39.00	-229.86	233.14	0.20	0.00	2.31	Ryan MWD
4728.00	4.50	262.80	4717.78	-39.43	-234.97	238.26	1.01	-0.81	-7.26	Ryan MWD
4791.00	3.90	266.00	4780.61	-39.89	-239.56	242.86	1.02	-0.95	5.08	Ryan MWD
4853.00	3.00	266.90	4842.50	-40.13	-243.28	246.57	1.45	-1.45	1.45	Ryan MWD
4915.00	2.30	256.90	4904.43	-40.50	-246.12	249.42	1.35	-1.13	-16.13	Ryan MWD
5009.00	1.10	214.10	4998.39	-41.67	-248.46	251.93	1.78	-1.28	-45.53	Ryan MWD
5103.00	0.60	195.60	5092.38	-42.89	-249.10	252.76	0.60	-0.53	-19.68	Ryan MWD
5289.00	0.40	193.70	5278.37	-44.46	-249.51	253.43	0.11	-0.11	-1.02	Ryan MWD
5338.00	0.40	193.70	5327.37	-44.80	-249.59	253.56	0.00	0.00	0.00	Ryan MWD
5477.00	0.30	238.10	5466.37	-45.46	-250.02	254.09	0.20	-0.07	31.94	Ryan MWD
5619.00	0.30	238.10	5608.37	-45.85	-250.65	254.78	0.00	0.00	0.00	PROJECTED to TD