

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

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.*5. Lease Serial No.
NMLC058181

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

COG OPERATING LLC

Contact: KELLY J HOLLY

E-Mail: kholly@concho.com

8. Well Name and No.

BEECH 25 FEDERAL 9H

9. API Well No.

30-015-40208

3a. Address

ONE CONCHO CENTER 600 W ILLINOIS AVE
MIDLAND, TX 79701

3b. Phone No. (include area code)

Ph: 432-685-4384

10. Field and Pool, or Exploratory

RED LAKE; GLORIETA-YESO NE

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 25 T17S R27E Mer NMP SESW 990FSL 330FWL

11. County or Parish, and State

EDDY COUNTY, NM

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

TYPE OF SUBMISSION

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

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.)

COG Operating LLC submitted APD for this well at this location:

SHL: 990' FSL & 330' FWL, Unit M

BHL: 990' FSL & 1650' FEL, Unit O

COG Operating LLC respectfully requests permission to change the SHL to:

SHL: 990' FSL & 180' FWL, Unit M

BHL: 990' FSL & 1650' FEL, Unit O

A revised C-102, 1 mile map, flow line, road map, rig layouts, surface use plan and directional plan are attached.

Accepted for record

NMOCD

10/18/2012

RECEIVED

JAN 08 2013

NMOCD ARTESIA

OK J Fast 12-31-12

14. Thereby certify that the foregoing is true and correct.

Electronic Submission #154200 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by KURT SIMMONS on 10/22/2012 ()

Name (Printed/Typed) KELLY J HOLLY

Title PERMITTING TECH

Signature (Electronic Submission)

Date 10/10/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

James A. Ames

Jr

Title

FIELD MANAGER

Date

1-4-13

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

CARLSBAD FIELD OFFICE

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 **

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-40208	Pool Code 96836	Pool Name Red Lake; Glorieta Yeso Northeast
Property Code 302457	Property Name BEECH 25 FEDERAL	Well Number 9H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3586'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	25	17-S	27-E		990	SOUTH	180	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	25	17-S	27-E		990	SOUTH	1650	EAST	EDDY

Dedicated Acres 120	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

CORNER COORDINATES TABLE ① - Y=655275.7 N, X=528582.3 E ② - Y=655249.9 N, X=532549.1 E ③ - Y=653959.0 N, X=528854.1 E ④ - Y=653929.8 N, X=532555.6 E Estimated Completed 330FWL+ Interval: 990 FSL GRID AZ = 90°25'22" HORZ. DIST. = 3462.2' Project Area DETAIL 3578.8', 3589.1', 3578.6', 3593.6', 600', 600' GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=654947.5 N X=528762.7 E LAT.=32.800505° N LONG.=104.239726° W BOTTOM HOLE LOCATION Y=654922.0 N X=532223.9 E	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature 10-10-12 Date Kelly J. Holly Printed Name kholly@concho.com E-mail Address SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. AUGUST 9, 2012 Date of Survey Signature & Seal of Professional Surveyor: Certification Number Gary G. Eidson 12641 Ronald L. Eidson 3239 ACR WSC W.O.: 12.11.1431
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COG Operating LLC

Eddy County, NM (NAN27 NME)

Beech Federal #9H

OH

Plan #3 8-3/4" Hole

Surface: 990' FSL, 180' FWL, Sec 25, T17S, R27E, Unit M

BHL: 990' FSL, 1650' FEL, Sec 25, T17S, R27E, Unit O

Standard Planning Report

03 October, 2012





Scientific Drilling Planning Report



Dataverse: EDM 5000.1 Single User Db
Company: COG Operating LLC
Project: Eddy County, NM (NAN27 NME)
Site: Beech Federal
Well: #9H
Wellbore: OH
Design: Plan #3 8-3/4" Hole

Local Co-ordinate Reference: Well #9H
TVD Reference: GL Elev @ 3590.00usft
ED Reference: GL Elev @ 3590.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Eddy County, NM (NAN27 NME)	System Datum:	Mean Sea Level
Map System:	US State Plane 1927 (Exact solution)		
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		Using geodetic scale factor

Site	Beech Federal				
Site Position:		Northing:	655,719.80 usft	Latitude:	32° 48' 9.433 N
From:	Map	Easting:	531,796.40 usft	Longitude:	104° 13' 47.464 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.06 °

Well	#9H					
Well Position	+N-S	-772.37 usft	Northing:	654,947.50 usft	Latitude:	32° 48' 1.818 N
	+E-W	-3,033.97 usft	Easting:	528,762.70 usft	Longitude:	104° 14' 23.015 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,590.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/3/2012	7.78	60.57	48,757

Design	Plan #3 8-3/4" Hole				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)	
	0.00	0.00	0.00	90.42	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,822.54	0.00	0.00	2,822.54	0.00	0.00	0.00	0.00	0.00	0.00	
3,572.54	90.00	90.42	3,300.00	-3.52	477.45	12.00	12.00	0.00	90.42	
6,556.68	90.00	90.42	3,300.00	-25.50	3,461.51	0.00	0.00	0.00	0.00	PBHL



Scientific Drilling Planning Report



Database: EDM 5000.1 Single User Db
Company: COG Operating LLC
Project: Eddy County, NM (NAN27 NME)
Site: Beech Federal
Well: #9H
Wellbore: OH
Design: Plan #3 8-3/4" Hole

Local Co-ordinate Reference: Well #9H
TVD Reference: GL Elev @ 3590.00usft
MD Reference: GL Elev @ 3590.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,822.54	0.00	0.00	2,822.54	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start Build 12.00									
2,900.00	9.30	90.42	2,899.66	-0.05	6.27	6.27	12.00	12.00	0.00
3,000.00	21.30	90.42	2,995.94	-0.24	32.60	32.60	12.00	12.00	0.00
3,100.00	33.30	90.42	3,084.64	-0.58	78.37	78.38	12.00	12.00	0.00
3,200.00	45.30	90.42	3,161.89	-1.04	141.59	141.59	12.00	12.00	0.00
3,300.00	57.30	90.42	3,224.31	-1.62	219.48	219.49	12.00	12.00	0.00
3,306.51	58.08	90.42	3,227.79	-1.66	224.98	224.99	12.00	12.00	0.00
PP-330' FWL									
3,400.00	69.30	90.42	3,269.16	-2.27	308.65	308.66	12.00	12.00	0.00
3,500.00	81.30	90.42	3,294.50	-2.99	405.20	405.21	12.00	12.00	0.00
3,572.54	90.00	90.42	3,300.00	-3.52	477.45	477.46	12.00	12.00	0.00
EOC Start 2884.14 hold at 3572.54 MD									
3,600.00	90.00	90.42	3,300.00	-3.72	504.92	504.93	0.00	0.00	0.00
3,700.00	90.00	90.42	3,300.00	-4.46	604.91	604.93	0.00	0.00	0.00
3,800.00	90.00	90.42	3,300.00	-5.19	704.91	704.93	0.00	0.00	0.00
3,900.00	90.00	90.42	3,300.00	-5.93	804.91	804.93	0.00	0.00	0.00
4,000.00	90.00	90.42	3,300.00	-6.67	904.91	904.93	0.00	0.00	0.00
4,100.00	90.00	90.42	3,300.00	-7.40	1,004.90	1,004.93	0.00	0.00	0.00
4,200.00	90.00	90.42	3,300.00	-8.14	1,104.90	1,104.93	0.00	0.00	0.00
4,300.00	90.00	90.42	3,300.00	-8.88	1,204.90	1,204.93	0.00	0.00	0.00
4,400.00	90.00	90.42	3,300.00	-9.61	1,304.89	1,304.93	0.00	0.00	0.00
4,500.00	90.00	90.42	3,300.00	-10.35	1,404.89	1,404.93	0.00	0.00	0.00
4,600.00	90.00	90.42	3,300.00	-11.09	1,504.89	1,504.93	0.00	0.00	0.00
4,700.00	90.00	90.42	3,300.00	-11.82	1,604.89	1,604.93	0.00	0.00	0.00
4,800.00	90.00	90.42	3,300.00	-12.56	1,704.88	1,704.93	0.00	0.00	0.00
4,900.00	90.00	90.42	3,300.00	-13.30	1,804.88	1,804.93	0.00	0.00	0.00
5,000.00	90.00	90.42	3,300.00	-14.03	1,904.88	1,904.93	0.00	0.00	0.00
5,100.00	90.00	90.42	3,300.00	-14.77	2,004.88	2,004.93	0.00	0.00	0.00
5,200.00	90.00	90.42	3,300.00	-15.51	2,104.87	2,104.93	0.00	0.00	0.00
5,300.00	90.00	90.42	3,300.00	-16.24	2,204.87	2,204.93	0.00	0.00	0.00
5,400.00	90.00	90.42	3,300.00	-16.98	2,304.87	2,304.93	0.00	0.00	0.00
5,500.00	90.00	90.42	3,300.00	-17.72	2,404.86	2,404.93	0.00	0.00	0.00
5,600.00	90.00	90.42	3,300.00	-18.45	2,504.86	2,504.93	0.00	0.00	0.00
5,700.00	90.00	90.42	3,300.00	-19.19	2,604.86	2,604.93	0.00	0.00	0.00
5,800.00	90.00	90.42	3,300.00	-19.93	2,704.86	2,704.93	0.00	0.00	0.00
5,900.00	90.00	90.42	3,300.00	-20.66	2,804.85	2,804.93	0.00	0.00	0.00
6,000.00	90.00	90.42	3,300.00	-21.40	2,904.85	2,904.93	0.00	0.00	0.00
6,100.00	90.00	90.42	3,300.00	-22.14	3,004.85	3,004.93	0.00	0.00	0.00
6,200.00	90.00	90.42	3,300.00	-22.87	3,104.85	3,104.93	0.00	0.00	0.00
6,300.00	90.00	90.42	3,300.00	-23.61	3,204.84	3,204.93	0.00	0.00	0.00
6,400.00	90.00	90.42	3,300.00	-24.35	3,304.84	3,304.93	0.00	0.00	0.00
6,500.00	90.00	90.42	3,300.00	-25.08	3,404.84	3,404.93	0.00	0.00	0.00
6,556.68	90.00	90.42	3,300.00	-25.50	3,461.51	3,461.61	0.00	0.00	0.00
PBHL									



Scientific Drilling Planning Report



Database: EDM 5000.1 Single User Db
Company: COG Operating LLC
Project: Eddy County, NM (NAN27 NME)
Site: Beech Federal
Well: #9H
Wellbore: OH
Design: Plan #3 8-3/4" Hole

Local Co-ordinate Reference: Well #9H
TVD Reference: GL Elev @ 3590.00usft
R/D Reference: GL Elev @ 3590.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

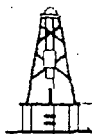
Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PP-330' FWL	0.00	0.00	3,227.80	-1.66	225.00	654,945.85	528,987.68	32° 48' 1.800 N	104° 14' 20.380 W
- hit/miss target									
- Shape									
- plan hits target center									
- Point									
PBHL	0.00	0.00	3,300.00	-25.50	3,461.51	654,922.00	532,223.90	32° 48' 1.534 N	104° 13' 42.464 W
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		
		+N-S (usft)	+E-W (usft)	Comment
2,822.54	2,822.54	0.00	0.00	KOP Start Build 12.00
3,572.54	3,300.00	-3.52	477.45	EOC Start 2984.14 hold at 3572.54 MD



Azimuth to Grid North
True North: -0.85°
Magnetic North: 7.73°
Magnetic Field
Strength: 48757.40 nT
Dip Angle: 60.57°
Date: 10/20/12
Model: IGRF2010

Beech Federal #9H
Eddy County, NM (NAN27 NME)
Northing: (Y) 654947.50
Easting: (X) 528762.70
Plan #3 8-3/4" Hole



Ground Level: 3590.00

WELL DETAILS:									
		Ground Level:		3590.00					
+N/S	+E/W	Northing	Easting	Latitude	Longitude				
0.00	0.00	654947.50	528762.70	32° 48' 1.818 N	104° 14' 23.015 W				
SECTION DETAILS									
MD	Inc	Azi	TVD	+N/S	+E/W	Dip	TFace	VFace	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2822.54	0.00	0.00	2822.54	0.00	0.00	0.00	0.00	0.00	
3572.54	90.00	90.42	3300.00	-3.52	477.45	12.00	90.42	477.46	
6556.88	90.00	90.42	3300.00	-25.50	3461.51	0.00	0.00	3461.61	PBHL
DESIGN TARGET DETAILS									
Name	TVD	+N/S	+E/W	Northing	Easting				
PP-330' FWL	3227.80	-1.86	225.00	654945.84	528987.68				
PBHL	3300.00	-25.50	3461.51	654922.00	532223.90				

PROJECT DETAILS: Eddy County, NM (NAN27 NME)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1886
Zone: New Mexico East 3001
System Datum: Mean Sea Level

SITE DETAILS: Beech Federal
Site Centre Northing: 855719.80
Easting: 531719.40

Positional Uncertainty: 0.00
Convergence: 0.06
Local North: Grid

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1886
Zone Name: New Mexico East 3001
Local Origin: Well COM, Grid North
Latitude: 32° 48' 1.818 N
Longitude: 104° 14' 23.015 W

Grid East: 528762.70
Grid North: 654947.50
Scale Factor: 1.000

Geomagnetic Model: IGRF2010
Sample Date: 05-01-12
Magnetic Declination: 7.74°
Dip Angle from Horizontal: 60.57°
Magnetic Field Strength: 48757

To convert a Magnetic Direction to a Grid Direction, Add 7.73°
To convert a Magnetic Direction to a True Direction, Add 7.70° East
To convert a True Direction to a Grid Direction, Subtract 0.05°

