

District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED
DEC 04 2012
NM OGD ARTESIA

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-015-39586
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator COG Operating LLC		6. State Oil & Gas Lease No.
3. Address of Operator One Concho Center - 600 W Illinois Ave Midland, TX 79701		7. Lease Name or Unit Agreement Name Lee 3 Fee
4. Well Location Unit Letter M : 330 feet from the SOUTH line and 380 feet from the WEST line Section 3 Township 19S Range 26E NMPM County EDDY		8. Well Number 1H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3344'		9. OGRID Number 229137
		10. Pool name or Wildcat Dayton; Grayburg 15960

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
 DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS. ☐ P AND A ☐
 CASING/CEMENT JOB ☐

OTHER: **Change Casing Program** ☒

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

COG proposes to drill a 11" hole to 1200' w/fresh water, run 8 5/8" 32# J-56 and cement to surface. Drill a 7 7/8" hole to 2273' MD and kick off and drill curve to 3023' MD. Drill a 7-7/8" lateral to new BHL @ 2750' TVD 7145' MD. Run a 5 1/2" 17# L-80 casing to TD cement to surface with 800 sacks.

A revised directional plan is attached.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

TITLE **Permitting Tech**

DATE **11/29/2012**

Type or print name **Kelly J. Holly**

E-mail address: **kholly@concho.com**

PHONE: **432-685-4384**

For State Use Only

APPROVED BY:

TITLE

Geologist

DATE

12/4/2012

Conditions of Approval (if any):



RECEIVED

DEC 04 2012

NMOCD ARTESIA

COG Operating LLC

Eddy County, NM (NAN27 NME)

Lee 3 Fee #1H

OH

Plan #1 8-3/4" Hole

Surface: 330' FSL, 380' FWL, Sec 3, T19S, R26E, Unit M

BHL: 330' FNL, 380' FWL, Sec 3, T19S, R26E, Unit 4

Standard Planning Report

20 November, 2012



Scientific Drilling



Scientific Drilling

Planning Report



Database: EDM 5000.1 Single User Db
Company: COG Operating LLC
Project: Eddy County, NM (NAN27 NME)
Site: Lee 3 Fee
Well: #1H
Wellbore: OH
Design: Plan #1 8-3/4" Hole

Local Co-ordinate Reference: Well #1H
TVD Reference: GL @ 3344.00usft
MD Reference: GL @ 3344.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project Eddy County, NM (NAN27 NME)

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

Using geodetic scale factor

Site Lee 3 Fee

Site Position:		Northing:	612,335.50 usft	Latitude:	32° 41' 0.248 N
From:	Map	Easting:	486,632.90 usft	Longitude:	104° 22' 36.405 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	-0.02 °

Well #1H

Well Position	+N/-S	0.00 usft	Northing:	612,335.50 usft	Latitude:	32° 41' 0.248 N
	+E/-W	0.00 usft	Easting:	486,632.90 usft	Longitude:	104° 22' 36.405 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,344.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2012	11/20/2012	7.92	60.40	48,639

Design Plan #1 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	359.98

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	
2,272.54	0.00	0.00	2,272.54	0.00	0.00	0.00	0.00	0.00	0.00	
3,022.54	90.00	359.98	2,750.00	477.46	-0.20	12.00	12.00	0.00	359.98	
7,144.79	90.00	359.98	2,750.00	4,599.72	-1.90	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: Lee 3 Fee
Well: #1H
Wellbore: OH
Design: Plan #1 8-3/4" Hole

Local Co-ordinate Reference: Well #1H
TVD Reference: GL @ 3344.00usft
MD Reference: GL @ 3344.00usft
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
2,272.54	0.00	0.00	2,272.54	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start Build 12.00									
2,300.00	3.30	359.98	2,299.98	0.79	0.00	0.79	12.00	12.00	0.00
2,400.00	15.30	359.98	2,398.49	16.91	-0.01	16.91	12.00	12.00	0.00
2,500.00	27.30	359.98	2,491.49	53.17	-0.02	53.17	12.00	12.00	0.00
2,600.00	39.30	359.98	2,574.93	107.96	-0.04	107.96	12.00	12.00	0.00
2,700.00	51.30	359.98	2,645.14	178.91	-0.07	178.91	12.00	12.00	0.00
2,800.00	63.30	359.98	2,699.07	262.90	-0.11	262.90	12.00	12.00	0.00
2,900.00	75.30	359.98	2,734.36	356.27	-0.15	356.27	12.00	12.00	0.00
3,000.00	87.30	359.98	2,749.47	454.94	-0.19	454.94	12.00	12.00	0.00
3,022.54	90.00	359.98	2,750.00	477.46	-0.20	477.46	12.00	12.00	0.00
EOC Start 4122.25 hold at 3022.54 MD									
3,100.00	90.00	359.98	2,750.00	554.93	-0.23	554.93	0.00	0.00	0.00
3,200.00	90.00	359.98	2,750.00	654.93	-0.27	654.93	0.00	0.00	0.00
3,300.00	90.00	359.98	2,750.00	754.93	-0.31	754.93	0.00	0.00	0.00
3,400.00	90.00	359.98	2,750.00	854.93	-0.35	854.93	0.00	0.00	0.00
3,500.00	90.00	359.98	2,750.00	954.93	-0.39	954.93	0.00	0.00	0.00
3,600.00	90.00	359.98	2,750.00	1,054.93	-0.44	1,054.93	0.00	0.00	0.00
3,700.00	90.00	359.98	2,750.00	1,154.93	-0.48	1,154.93	0.00	0.00	0.00
3,800.00	90.00	359.98	2,750.00	1,254.93	-0.52	1,254.93	0.00	0.00	0.00
3,900.00	90.00	359.98	2,750.00	1,354.93	-0.56	1,354.93	0.00	0.00	0.00
4,000.00	90.00	359.98	2,750.00	1,454.93	-0.60	1,454.93	0.00	0.00	0.00
4,100.00	90.00	359.98	2,750.00	1,554.93	-0.64	1,554.93	0.00	0.00	0.00
4,200.00	90.00	359.98	2,750.00	1,654.93	-0.68	1,654.93	0.00	0.00	0.00
4,300.00	90.00	359.98	2,750.00	1,754.93	-0.72	1,754.93	0.00	0.00	0.00
4,400.00	90.00	359.98	2,750.00	1,854.93	-0.77	1,854.93	0.00	0.00	0.00
4,500.00	90.00	359.98	2,750.00	1,954.93	-0.81	1,954.93	0.00	0.00	0.00
4,600.00	90.00	359.98	2,750.00	2,054.93	-0.85	2,054.93	0.00	0.00	0.00
4,700.00	90.00	359.98	2,750.00	2,154.93	-0.89	2,154.93	0.00	0.00	0.00
4,800.00	90.00	359.98	2,750.00	2,254.93	-0.93	2,254.93	0.00	0.00	0.00
4,900.00	90.00	359.98	2,750.00	2,354.93	-0.97	2,354.93	0.00	0.00	0.00
5,000.00	90.00	359.98	2,750.00	2,454.93	-1.01	2,454.93	0.00	0.00	0.00
5,100.00	90.00	359.98	2,750.00	2,554.93	-1.06	2,554.93	0.00	0.00	0.00
5,200.00	90.00	359.98	2,750.00	2,654.93	-1.10	2,654.93	0.00	0.00	0.00
5,300.00	90.00	359.98	2,750.00	2,754.93	-1.14	2,754.93	0.00	0.00	0.00
5,400.00	90.00	359.98	2,750.00	2,854.93	-1.18	2,854.93	0.00	0.00	0.00
5,500.00	90.00	359.98	2,750.00	2,954.93	-1.22	2,954.93	0.00	0.00	0.00
5,600.00	90.00	359.98	2,750.00	3,054.93	-1.26	3,054.93	0.00	0.00	0.00
5,700.00	90.00	359.98	2,750.00	3,154.93	-1.30	3,154.93	0.00	0.00	0.00
5,800.00	90.00	359.98	2,750.00	3,254.93	-1.34	3,254.93	0.00	0.00	0.00
5,900.00	90.00	359.98	2,750.00	3,354.93	-1.39	3,354.93	0.00	0.00	0.00
6,000.00	90.00	359.98	2,750.00	3,454.93	-1.43	3,454.93	0.00	0.00	0.00
6,100.00	90.00	359.98	2,750.00	3,554.93	-1.47	3,554.93	0.00	0.00	0.00
6,200.00	90.00	359.98	2,750.00	3,654.93	-1.51	3,654.93	0.00	0.00	0.00
6,300.00	90.00	359.98	2,750.00	3,754.93	-1.55	3,754.93	0.00	0.00	0.00
6,400.00	90.00	359.98	2,750.00	3,854.93	-1.59	3,854.93	0.00	0.00	0.00
6,500.00	90.00	359.98	2,750.00	3,954.93	-1.63	3,954.93	0.00	0.00	0.00
6,600.00	90.00	359.98	2,750.00	4,054.93	-1.68	4,054.93	0.00	0.00	0.00
6,700.00	90.00	359.98	2,750.00	4,154.93	-1.72	4,154.93	0.00	0.00	0.00
6,800.00	90.00	359.98	2,750.00	4,254.93	-1.76	4,254.93	0.00	0.00	0.00
6,900.00	90.00	359.98	2,750.00	4,354.93	-1.80	4,354.93	0.00	0.00	0.00
7,000.00	90.00	359.98	2,750.00	4,454.93	-1.84	4,454.93	0.00	0.00	0.00
7,100.00	90.00	359.98	2,750.00	4,554.93	-1.88	4,554.93	0.00	0.00	0.00



Scientific Drilling
Planning Report



Database: EDM 5000.1 Single User Db
Company: COG Operating LLC
Project: Eddy County, NM (NAN27 NME)
Site: Lee 3 Fee
Well: #1H
Wellbore: OH
Design: Plan #1 8-3/4" Hole

Local Co-ordinate Reference: Well #1H
TVD Reference: GL @ 3344.00usft
MD Reference: GL @ 3344.00usft
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)
7,144.79	90.00	359.98	2,750.00	4,599.72	-1.90	4,599.72	0.00	0.00	0.00
PBHL									

Design Targets

Target Name

- hit/miss target
- Shape

Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
---------------	--------------	------------	--------------	--------------	-----------------	----------------	----------	-----------

PBHL	0.00	360.00	2,750.00	4,599.72	-1.90	616,934.80	486,631.00	32° 41' 45.761 N	104° 22' 36.449 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,272.54	2,272.54	0.00	0.00	KOP Start Build 12.00
3,022.54	2,750.00	477.46	-0.20	EOC Start 4122.25 hold at 3022.54 MD



Azimuths to Grid North
True North: 0.02°
Magnetic North: 7.94°

Magnetic Field
Strength: 48639.5nT
Dip Angle: 60.40°
Date: 11/20/2012
Model: BGGM2012

To convert a Magnetic Direction to a Grid Direction, Add 7.94°
To convert a True Direction to a Grid Direction, Add 0.02°

Lee 3 Fee #1H
Eddy County, NM (NAN27 NME)
Northing: (Y) 612335.50
Easting: (X) 486632.90
Plan #1 8-3/4" Hole

WELL DETAILS:					
		Ground Level:	3344.00		
+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.00	0.00	612335.50	486632.90	32° 41' 0.248 N	104° 22' 36.405 W

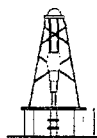
SECTION DETAILS									
MD	Inc	Azi	TVD	+N-S	+E-W	Deg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2272.54	0.00	0.00	2272.54	0.00	0.00	0.00	0.00	0.00	
3022.54	90.00	359.98	2750.00	477.46	-0.20	12.00	359.98	477.46	
7144.79	90.00	359.98	2750.00	4599.72	-1.90	0.00	0.068458223		Fee #1H

DESIGN TARGET DETAILS					
Name	TVD	+N-S	+E-W	Northing	Easting
PBHL-Lee 3 Fee #1H	2750.00	4599.72	-1.90	616934.80	486631.00

SITE DETAILS: Lee 3 Fee
Site Centre Northing: 612335.50
Easting: 486632.90
Positional Uncertainty: 0.00
Convergence: -0.02
Local North: Grid

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001
Local Origin: Well #1H, Grid North
Latitude: 32° 41' 0.248 N
Longitude: 104° 22' 36.405 W
Grid East: 486632.90
Grid North: 612335.50
Scale Factor: 1.000
Geomagnetic Model: BGGM2012
Sample Date: 20-Nov-12
Magnetic Declination: 7.92°
Dip Angle from Horizontal: 60.40°
Magnetic Field Strength: 48639
To convert a Magnetic Direction to a Grid Direction, Add 7.94°
To convert a Magnetic Direction to a True Direction, Add 7.92° East
To convert a True Direction to a Grid Direction, Add 0.02°

PROJECT DETAILS: Eddy County, NM (NAN27 NME)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level



Ground Level: 3344.00

Julio Pita
16:07, November 20 2012
Scientific Drilling
2034 Trade Drive
Midland, TX 79703

