

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

WELL API NO. 30-015-40211
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Falabella 31 Fee
8. Well Number 6H
9. OGRID Number 229137
10. Pool name or Wildcat Penasco Draw; SA-Yeso (Assoc) 50270

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.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator
COG Operating LLC

3. Address of Operator
One Concho Center - 600 W Illinois Ave Midland, TX 79701

4. Well Location
Unit Letter **N** : **150** feet from the **SOUTH** line and **2260** feet from the **WEST** line
Section **31** Township **18S** Range **26E** NMPM County **EDDY**

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3428'

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
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 an 11" hole to 1200' w/fresh water, run 8-5/8" 32# J-55 and cement to surface. Drill a 7-7/8" hole to 2342' MD and kick off and drill curve to 2820' TVD 3102' MD. Drill a 7-7/8" lateral to new BHL @ 2729' TVD 7450' MD. Run a 5 1/2" 17# L-80 casing to TD cement to surface with 800 sacks.

A revised directional plan is attached.

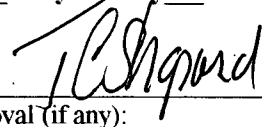
Spud Date: Rig Release Date:

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

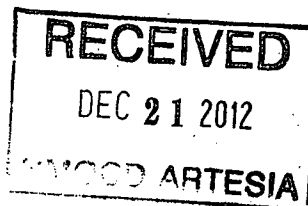
SIGNATURE  TITLE **Permitting Tech** DATE **12/20/2012**

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 **12/21/2012**

Conditions of Approval (if any):





COG Operating LLC

Eddy County, NM (NAN27 NME)

Falabella 31 Fee #6H

OH

Plan #1 8-3/4" Hole

Surface: 150' FSL, 2223' FWL, Sec 31, T18S, R26E, Unit N

PP: 609' FSL, 2127' FWL, Sec 31, T18S, R26E, Unit N

BHL: 330' FNL, 2127' FWL, Sec 31, T18S, R26E, Unit C

Standard Planning Report

19 December, 2012





Scientific Drilling
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #6H
Company:	COG Operating LLC	TVD Reference:	GL @ 3428.00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL @ 3428.00usft
Site:	Falabella 31 Fee	North Reference:	Grid
Well:	#6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 8-3/4" Hole		

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:	Falabella 31 Fee		
Site Position:		Northing:	617,365.40 usft
From:	Map	Easting:	470,934.80 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 41' 49.921 N
		Longitude:	104° 25' 40.136 W
		Grid Convergence:	-0.05 °

Well	#6H					
Well Position	+N/-S	-6.10 usft	Northing:	617,359.30 usft	Latitude:	32° 41' 49.876 N
	+E/-W	1,842.57 usft	Easting:	472,777.20 usft	Longitude:	104° 25' 18.575 W
Position Uncertainty	0.00 usft		Wellhead Elevation:	Ground Level:		3,428.00 usft

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2012	12/19/2012	7.93	60.40	48,631

Design:		Plan #1 8-3/4" Hole		
Audit Notes:				
Version:		Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	359.03

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	
2,340.56	0.00	0.00	2,340.56	0.00	0.00	0.00	0.00	0.00	0.00	
3,176.92	92.00	353.00	2,861.11	535.03	-65.69	11.00	11.00	0.00	353.00	
3,409.09	92.00	359.97	2,853.00	766.48	-79.91	3.00	0.00	3.00	89.89	
7,496.34	92.00	359.97	2,710.50	4,851.24	-82.11	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: Falabella 31-Fee
Well: #6H
Wellbore: OH
Design: Plan #1 - 8-3/4" Hole

Local Co-ordinate Reference:
TVD Reference: GL @ 3428.00usft
MD Reference: GL @ 3428.00usft
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
2,340.56	0.00	0.00	2,340.56	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start Build 11.00									
2,400.00	6.54	353.00	2,399.87	3.36	-0.41	3.37	11.00	11.00	0.00
2,500.00	17.54	353.00	2,497.52	24.03	-2.95	24.08	11.00	11.00	0.00
2,600.00	28.54	353.00	2,589.40	62.82	-7.71	62.94	11.00	11.00	0.00
2,700.00	39.54	353.00	2,672.14	118.29	-14.52	118.52	11.00	11.00	0.00
2,800.00	50.54	353.00	2,742.70	188.41	-23.13	188.78	11.00	11.00	0.00
2,900.00	61.54	353.00	2,798.48	270.61	-33.23	271.13	11.00	11.00	0.00
3,000.00	72.54	353.00	2,837.43	361.86	-44.43	362.56	11.00	11.00	0.00
3,100.00	83.54	353.00	2,858.12	458.81	-56.33	459.70	11.00	11.00	0.00
3,100.19	83.54	353.00	2,858.14	459.00	-56.36	459.89	0.00	0.00	0.00
PP									
3,176.92	92.00	353.00	2,861.11	535.03	-65.69	536.07	11.03	11.03	0.00
EOC Start DLS 3.00 TFO 89.89									
3,200.00	92.00	353.69	2,860.31	557.94	-68.37	559.01	3.00	0.00	3.00
3,300.00	92.00	356.69	2,856.81	657.51	-76.74	658.72	3.00	0.00	3.00
3,400.00	92.00	359.70	2,853.32	757.39	-79.89	758.64	3.00	0.00	3.00
3,409.09	92.00	359.97	2,853.00	766.48	-79.91	767.72	3.00	-0.01	3.00
Start 4087.25 hold at 3409.09 MD									
3,500.00	92.00	359.97	2,849.84	857.33	-79.96	858.56	0.00	0.00	0.00
3,600.00	92.00	359.97	2,846.35	957.27	-80.01	958.49	0.00	0.00	0.00
3,700.00	92.00	359.97	2,842.86	1,057.21	-80.07	1,058.41	0.00	0.00	0.00
3,800.00	92.00	359.97	2,839.38	1,157.15	-80.12	1,158.34	0.00	0.00	0.00
3,900.00	92.00	359.97	2,835.89	1,257.09	-80.18	1,258.26	0.00	0.00	0.00
4,000.00	92.00	359.97	2,832.40	1,357.03	-80.23	1,358.19	0.00	0.00	0.00
4,100.00	92.00	359.97	2,828.92	1,456.97	-80.28	1,458.12	0.00	0.00	0.00
4,200.00	92.00	359.97	2,825.43	1,556.91	-80.34	1,558.04	0.00	0.00	0.00
4,300.00	92.00	359.97	2,821.94	1,656.84	-80.39	1,657.97	0.00	0.00	0.00
4,400.00	92.00	359.97	2,818.46	1,756.78	-80.44	1,757.89	0.00	0.00	0.00
4,500.00	92.00	359.97	2,814.97	1,856.72	-80.50	1,857.82	0.00	0.00	0.00
4,600.00	92.00	359.97	2,811.48	1,956.66	-80.55	1,957.75	0.00	0.00	0.00
4,700.00	92.00	359.97	2,808.00	2,056.60	-80.61	2,057.67	0.00	0.00	0.00
4,800.00	92.00	359.97	2,804.51	2,156.54	-80.66	2,157.60	0.00	0.00	0.00
4,900.00	92.00	359.97	2,801.02	2,256.48	-80.71	2,257.52	0.00	0.00	0.00
5,000.00	92.00	359.97	2,797.54	2,356.42	-80.77	2,357.45	0.00	0.00	0.00
5,100.00	92.00	359.97	2,794.05	2,456.36	-80.82	2,457.37	0.00	0.00	0.00
5,200.00	92.00	359.97	2,790.56	2,556.30	-80.87	2,557.30	0.00	0.00	0.00
5,300.00	92.00	359.97	2,787.08	2,656.24	-80.93	2,657.23	0.00	0.00	0.00
5,400.00	92.00	359.97	2,783.59	2,756.18	-80.98	2,757.15	0.00	0.00	0.00
5,500.00	92.00	359.97	2,780.10	2,856.11	-81.03	2,857.08	0.00	0.00	0.00
5,600.00	92.00	359.97	2,776.62	2,956.05	-81.09	2,957.00	0.00	0.00	0.00
5,700.00	92.00	359.97	2,773.13	3,055.99	-81.14	3,056.93	0.00	0.00	0.00
5,800.00	92.00	359.97	2,769.64	3,155.93	-81.20	3,156.85	0.00	0.00	0.00
5,900.00	92.00	359.97	2,766.16	3,255.87	-81.25	3,256.78	0.00	0.00	0.00
6,000.00	92.00	359.97	2,762.67	3,355.81	-81.30	3,356.71	0.00	0.00	0.00
6,100.00	92.00	359.97	2,759.18	3,455.75	-81.36	3,456.63	0.00	0.00	0.00
6,200.00	92.00	359.97	2,755.70	3,555.69	-81.41	3,556.56	0.00	0.00	0.00
6,300.00	92.00	359.97	2,752.21	3,655.63	-81.46	3,656.48	0.00	0.00	0.00
6,400.00	92.00	359.97	2,748.72	3,755.57	-81.52	3,756.41	0.00	0.00	0.00
6,500.00	92.00	359.97	2,745.24	3,855.51	-81.57	3,856.33	0.00	0.00	0.00
6,600.00	92.00	359.97	2,741.75	3,955.45	-81.63	3,956.26	0.00	0.00	0.00
6,700.00	92.00	359.97	2,738.26	4,055.39	-81.68	4,056.19	0.00	0.00	0.00
6,800.00	92.00	359.97	2,734.78	4,155.32	-81.73	4,156.11	0.00	0.00	0.00



Scientific Drilling

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #6H
Company:	COG Operating LLC	TVD Reference:	GL @ 3428.00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL @ 3428.00usft
Site:	Falabella 31' Fee	North Reference:	Grid
Well:	#6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 8-3/4" Hole		

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)
6,900.00	92.00	359.97	2,731.29	4,255.26	-81.79	4,256.04	0.00	0.00	0.00
7,000.00	92.00	359.97	2,727.81	4,355.20	-81.84	4,355.96	0.00	0.00	0.00
7,100.00	92.00	359.97	2,724.32	4,455.14	-81.89	4,455.89	0.00	0.00	0.00
7,200.00	92.00	359.97	2,720.83	4,555.08	-81.95	4,555.82	0.00	0.00	0.00
7,300.00	92.00	359.97	2,717.35	4,655.02	-82.00	4,655.74	0.00	0.00	0.00
7,400.00	92.00	359.97	2,713.86	4,754.96	-82.06	4,755.67	0.00	0.00	0.00
7,496.34	92.00	359.97	2,710.50	4,851.24	-82.11	4,851.93	0.00	0.00	0.00
PBHL									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
hit/miss target									
Shape									
PBHL	0.00	0.00	2,710.50	4,851.24	-82.11	622,210.10	472,695.10	32° 42' 37.877 N	104° 25' 19.583 W
- plan hits target center									
- Point									
PP	0.00	360.00	2,858.14	459.00	-56.36	617,818.26	472,720.85	32° 41' 54.417 N	104° 25' 19.239 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,340.56	2,340.56	0.00	0.00	KOP Start Build 11.00
3,176.92	2,861.11	535.03	-65.69	EOC Start DLS 3.00 TFO 89.89
3,409.09	2,853.00	766.48	-79.91	Start 4087.25 hold at 3409.09 MD



Azimuths to Grid North
True North: 0.05°
Magnetic North: 7.98°
Magnetic Field
Strength: 48631.3nT
Dip Angle: 60.40°
Date: 12/19/2012
Model: BGGM2012

To convert a Magnetic Direction to a Grid Direction, Add 7.98°
To convert a True Direction to a Grid Direction, Add 0.05°

Falabella 31 Fee #6H
Eddy County, NM (NAN27 NME)
Northing: (Y) 617359.30
Easting: (X) 472777.20
Plan #1 8-3/4" Hole

WELL DETAILS:					
Ground Level: 3428.00					
+N/S	+E/W	Northing	Easting	Latitude	Longitude
0.00	0.00	617359.30	472777.20	32° 41' 49.876 N	104° 25' 18.575 W

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2340.56	0.00	0.00	2340.56	0.00	0.00	0.00	0.00	0.00	
3176.92	92.00	353.00	2861.11	535.03	-85.88	11.00	353.00	536.07	
3409.09	92.00	359.97	2853.00	786.48	-79.91	3.00	89.89	767.72	
7496.34	92.00	359.97	2710.50	-4851.24	-82.11	0.00	0.00	4851.93	PBHL

DESIGN TARGET DETAILS					
Name	TVD	+N/S	+E/W	Northing	Easting
PBHL	2710.50	4851.24	-82.11	622210.10	472695.10
PP	2858.14	458.00	-56.36	617818.28	472720.85

SITE DETAILS: Falabella 31 Fee
Site Centre Northing: 617365.40
Easting: 470934.80

Positional Uncertainty: 0.00
Convergence: -0.05
Local North: Grid

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

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001

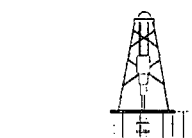
Local Origin: Well #6H, Grid North

Latitude: 32° 41' 49.876 N
Longitude: 104° 25' 18.575 W

Grid East: 472777.20
Grid North: 617359.30
Scale Factor: 1.000

Geomagnetic Model: BGGM2012
Sample Date: 19-Dec-12
Magnetic Declination: 7.93°
Dip Angle from Horizontal: 60.40°
Magnetic Field Strength: 48631

To convert a Magnetic Direction to a Grid Direction, Add 7.98°
To convert a Magnetic Direction to a True Direction, Add 7.93° East
To convert a True Direction to a Grid Direction, Add 0.05°



Ground Level: 3428.00

Julio Pita
15:30, December 19, 2012
Scientific Drilling
2034 Trase Drive
Midland, TX 79703

