

Submit 1 Copy To Appropriate District Office

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

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-103
Revised August 1, 2011

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. 30-015-39515
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 Falabella 31 Fee
4. Well Location Unit Letter P : 150 feet from the SOUTH line and 380 feet from the EAST line Section 31 Township 18S Range 26E NMPM County EDDY		8. Well Number 8H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3391'		9. OGRID Number 229137
		10. Pool name or Wildcat Penasco Draw;SA-Yeso (Assoc) 50270

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 ☐

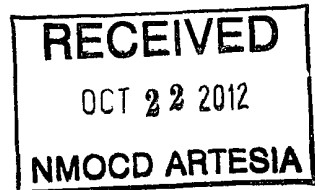
OTHER: **Revised Directional Plan** ☒

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 respectfully requests to update the Directional plan for this well. Revision is due to skewed section.

Attached is the revised Directional Plan.



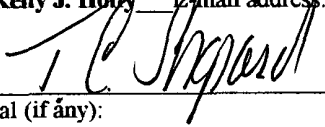
Spud Date:

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 **10/22/2012**

Type or print name **Kelly J. Holly** Email address: **kholly@concho.com** PHONE: **432-685-4384**
For State Use Only

APPROVED BY:  TITLE **Geologist** DATE **10/24/2012**

Conditions of Approval (if any):



COG Operating LLC

Eddy County, NM (NAN27 NME)

Falabella 31 Fee #8H

OH

Plan #1 8-3/4" Hole

Surface: 150' FSL, 380' FEL, Sec 31, T18S, R26E, Unit P

PP: 330' FSL, 380' FEL, Sec 31, T18S, R26E, Unit P

BHL: 330' FNL, 380' FEL, Sec 31, T18S, R26E, Unit A

Standard Planning Report

16 October, 2012





Scientific Drilling
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #8H
Company:	COG Operating LLC	TVD Reference:	GL Elev @ 3391.00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL Elev @ 3391.00usft
Site:	Falabella 31 Fee	North Reference:	Grid
Well:	#8H	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:	#8H		
Well Position	+N/-S	-14.10 usft	Northing:
	+E/-W	4,379.39 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	
		Latitude:	32° 41' 49.817 N
		Longitude:	104° 24' 48 891 W
		Ground Level:	3,391 00 usft

Wellbore:	OH		
Magnetics:	Model Name	Sample Date	Declination
	IGRF2010	10/10/2011	(°)
			7.97
			Dip Angle
			(°)
			60 47
			Field Strength
			(nT)
			48,774

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
	(usft)	(usft)	(usft)
	0 00	0.00	0 00
			Direction
			(°)
			359 66

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/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	
3,022 54	90 00	359.66	2,750 00	477 46	-2 87	12 00	12.00	0 00	359 66	
7,415 60	90 00	359 66	2,750 00	4,870 44	-29.30	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: #8H
Wellbore: OH
Design: Plan #1 8-3/4" Hole

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Well #8H
GL Elev @ 3391.00usft
GL Elev @ 3391.00usft
Grid
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°/100'									
2,300.00	3.30	359.66	2,299.98	0.79	0.00	0.79	12.00	12.00	0.00
2,400.00	15.30	359.66	2,398.49	16.91	-0.10	16.91	12.00	12.00	0.00
2,500.00	27.30	359.66	2,491.49	53.16	-0.32	53.17	12.00	12.00	0.00
2,600.00	39.30	359.66	2,574.93	107.96	-0.65	107.96	12.00	12.00	0.00
2,700.00	51.30	359.66	2,645.14	178.90	-1.08	178.91	12.00	12.00	0.00
2,701.42	51.47	359.66	2,646.03	180.01	-1.08	180.01	12.00	12.00	0.00
PP=330' FSL									
2,800.00	63.30	359.66	2,699.07	262.89	-1.58	262.90	12.00	12.00	0.00
2,900.00	75.30	359.66	2,734.36	356.26	-2.14	356.27	12.00	12.00	0.00
3,000.00	87.30	359.66	2,749.47	454.93	-2.74	454.94	12.00	12.00	0.00
3,022.54	90.00	359.66	2,750.00	477.46	-2.87	477.47	12.00	12.00	0.00
Land EOC hold 90.00°									
3,100.00	90.00	359.66	2,750.00	554.92	-3.34	554.93	0.00	0.00	0.00
3,200.00	90.00	359.66	2,750.00	654.92	-3.94	654.93	0.00	0.00	0.00
3,300.00	90.00	359.66	2,750.00	754.92	-4.54	754.93	0.00	0.00	0.00
3,400.00	90.00	359.66	2,750.00	854.91	-5.14	854.93	0.00	0.00	0.00
3,500.00	90.00	359.66	2,750.00	954.91	-5.75	954.93	0.00	0.00	0.00
3,600.00	90.00	359.66	2,750.00	1,054.91	-6.35	1,054.93	0.00	0.00	0.00
3,700.00	90.00	359.66	2,750.00	1,154.91	-6.95	1,154.93	0.00	0.00	0.00
3,800.00	90.00	359.66	2,750.00	1,254.91	-7.55	1,254.93	0.00	0.00	0.00
3,900.00	90.00	359.66	2,750.00	1,354.91	-8.15	1,354.93	0.00	0.00	0.00
4,000.00	90.00	359.66	2,750.00	1,454.90	-8.75	1,454.93	0.00	0.00	0.00
4,100.00	90.00	359.66	2,750.00	1,554.90	-9.35	1,554.93	0.00	0.00	0.00
4,200.00	90.00	359.66	2,750.00	1,654.90	-9.96	1,654.93	0.00	0.00	0.00
4,300.00	90.00	359.66	2,750.00	1,754.90	-10.56	1,754.93	0.00	0.00	0.00
4,400.00	90.00	359.66	2,750.00	1,854.90	-11.16	1,854.93	0.00	0.00	0.00
4,500.00	90.00	359.66	2,750.00	1,954.89	-11.76	1,954.93	0.00	0.00	0.00
4,600.00	90.00	359.66	2,750.00	2,054.89	-12.36	2,054.93	0.00	0.00	0.00
4,700.00	90.00	359.66	2,750.00	2,154.89	-12.96	2,154.93	0.00	0.00	0.00
4,800.00	90.00	359.66	2,750.00	2,254.89	-13.57	2,254.93	0.00	0.00	0.00
4,900.00	90.00	359.66	2,750.00	2,354.89	-14.17	2,354.93	0.00	0.00	0.00
5,000.00	90.00	359.66	2,750.00	2,454.89	-14.77	2,454.93	0.00	0.00	0.00
5,100.00	90.00	359.66	2,750.00	2,554.88	-15.37	2,554.93	0.00	0.00	0.00
5,200.00	90.00	359.66	2,750.00	2,654.88	-15.97	2,654.93	0.00	0.00	0.00
5,300.00	90.00	359.66	2,750.00	2,754.88	-16.57	2,754.93	0.00	0.00	0.00
5,400.00	90.00	359.66	2,750.00	2,854.88	-17.18	2,854.93	0.00	0.00	0.00
5,500.00	90.00	359.66	2,750.00	2,954.88	-17.78	2,954.93	0.00	0.00	0.00
5,600.00	90.00	359.66	2,750.00	3,054.87	-18.38	3,054.93	0.00	0.00	0.00
5,700.00	90.00	359.66	2,750.00	3,154.87	-18.98	3,154.93	0.00	0.00	0.00
5,800.00	90.00	359.66	2,750.00	3,254.87	-19.58	3,254.93	0.00	0.00	0.00
5,900.00	90.00	359.66	2,750.00	3,354.87	-20.18	3,354.93	0.00	0.00	0.00
6,000.00	90.00	359.66	2,750.00	3,454.87	-20.79	3,454.93	0.00	0.00	0.00
6,100.00	90.00	359.66	2,750.00	3,554.87	-21.39	3,554.93	0.00	0.00	0.00
6,200.00	90.00	359.66	2,750.00	3,654.86	-21.99	3,654.93	0.00	0.00	0.00
6,300.00	90.00	359.66	2,750.00	3,754.86	-22.59	3,754.93	0.00	0.00	0.00
6,400.00	90.00	359.66	2,750.00	3,854.86	-23.19	3,854.93	0.00	0.00	0.00
6,500.00	90.00	359.66	2,750.00	3,954.86	-23.79	3,954.93	0.00	0.00	0.00
6,600.00	90.00	359.66	2,750.00	4,054.86	-24.40	4,054.93	0.00	0.00	0.00
6,700.00	90.00	359.66	2,750.00	4,154.85	-25.00	4,154.93	0.00	0.00	0.00
6,800.00	90.00	359.66	2,750.00	4,254.85	-25.60	4,254.93	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: Falabella 31 Fee
Well: #8H
Wellbore: OH
Design: Plan #1 8-3/4" Hole

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Well #8H
GL Elev @ 3391.00usft
GL Elev @ 3391.00usft
Grid
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)
6,900.00	90.00	359.66	2,750.00	4,354.85	-26.20	4,354.93	0.00	0.00	0.00
7,000.00	90.00	359.66	2,750.00	4,454.85	-26.80	4,454.93	0.00	0.00	0.00
7,100.00	90.00	359.66	2,750.00	4,554.85	-27.40	4,554.93	0.00	0.00	0.00
7,200.00	90.00	359.66	2,750.00	4,654.85	-28.01	4,654.93	0.00	0.00	0.00
7,300.00	90.00	359.66	2,750.00	4,754.84	-28.61	4,754.93	0.00	0.00	0.00
7,400.00	90.00	359.66	2,750.00	4,854.84	-29.21	4,854.93	0.00	0.00	0.00
7,415.60	90.00	359.66	2,750.00	4,870.44	-29.30	4,870.53	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
PP=330' FSL	0.00	360.00	2,646.02	180.02	-1.08	617,531.31	475,312.72	32° 41' 51.598 N	104° 24' 48.905 W
- plan misses target center by 0.01usft at 2701.42usft MD (2646.03 TVD, 180.02 N, -1.08 E)									
- Point									
PBHL	0.00	0.00	2,750.00	4,870.44	-29.30	622,221.30	475,284.50	32° 42' 38.008 N	104° 24' 49.277 W
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2,272.54	2,272.54	0.00	0.00	KOP Start Build 12.00°/100'
3,022.54	2,750.00	477.46	-2.87	Land EOC hold 90.00°



Falabella 31 Fee #8H
Eddy County, NM (NAN27 NME)
Northing: (Y) 617351.30
Easting: (X) 475313.80
Plan #1 8-3/4" Hole



Azimuths to Grd North
True North 0.04°
Magnetic North 8.01°

Magnetic Field
Strength 48774.5nT
Dip Angle 60.47°
Date 10/10/2011
Model IGRF2010

To convert a Magnetic Direction to a Grd Direction, Add 8.01°
To convert a True Direction to a Grd Direction, Add 0.04°

WELL DETAILS:					
		Ground Level	3391.00		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	617351.30	475313.80	32° 41' 49.817 N	104° 24' 48.891 W

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dip	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	359.66	2750.00	477.46	-2.67	12.00	359.66	477.46	
7415.60	90.00	359.66	2750.00	4870.44	-29.30	0.00	0.00	4870.53	PBHL

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
PP=330' FSL	2646.02	180.02	-1.08	617531.30	475312.72
PBHL	2750.00	4870.44	-29.30	622221.30	475284.50

SITE DETAILS		Falabella 31 Fee
Site Centre	Northing	617365.40
	Easting	470934.80
Positional Uncertainty		0.00
Convergence		-0.05
Local North		Grid

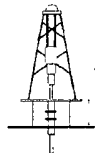
Map System	US State Plane 1927 (Exact solution)
Datum	NAD 1927 (NADCON CONUS)
Ellipsoid	Clarke 1866
Zone Name	New Mexico East 3001
Local Origin	Well #8H, Grd North
Latitude	32° 41' 49.817 N
Longitude	104° 24' 48.891 W

Grd East 475313.80
Grd North 617351.30
Scale Factor 1.000

Geomagnetic Model IGRF2010
Sample Date 10-Oct-11
Magnetic Declination 7.97°
Dip Angle from Horizontal 60.47°
Magnetic Field Strength 48774

To convert a Magnetic Direction to a Grd Direction, Add 8.01°
To convert a Magnetic Direction to a True Direction, Add 7.97° East
To convert a True Direction to a Grd Direction, Add 0.04°

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 3391.00

Auto P/Ws
19-48 October 18 2012
Scientific Drilling
2034 Trade Drive
Midland TX 79703

