

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

Form C-103
Revised August 1, 2011

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

WELL API NO. 30-015-39814
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Patton 5 Fee
8. Well Number 1H
9. OGRID Number 229137
10. Pool name or Wildcat Atoka; Glorieta-Yeso 3250
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3381'

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 D : 380 feet from the NORTH line and 330 feet from the WEST line Section 5 Township 19S Range 26E NMPM County EDDY	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3381'	

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 ☐

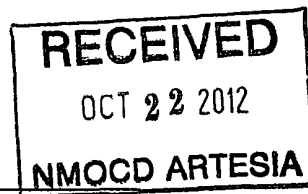
OTHER: **Revised Directional Plan** ☒

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** E-mail address: **kholly@concho.com** PHONE: **432-685-4384**

For State Use Only

APPROVED BY: TITLE **Geologist** DATE **10/22/2012**

Conditions of Approval (if any):



COG Operating LLC

**Eddy County, NM (NAN27 NME)
Patton 5 Fee #1H**

OH

Plan #1 8-3/4" Hole

Surface: 380' FNL, 330' FWL, Sec 5, T19S, R26E, Unit 4

BHL: 380' FNL, 330' FEL, Sec 5, T19S, R26E, Unit 1

Standard Planning Report

16 October, 2012





Scientific Drilling
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #1H
Company:	COG Operating LLC	TVD Reference:	GL Elev @ 3381.00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL Elev @ 3381.00usft
Site:	Patton 5 Fee	North Reference:	Grid
Well:	#1H	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:	Patton 5 Fee		
Site Position:		Northing:	616,822.20 usft
From:	Map	Easting:	476,026.50 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	32° 41' 44.586 N
		Longitude:	104° 24' 40.546 W
		Grid Convergence:	-0.04°

Well:	#1H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	3,381.00 usft
		Latitude:	32° 41' 44.586 N
		Longitude:	104° 24' 40.546 W
		Ground Level:	

Wellbore:	OH		
Magnetics:	Model Name	Sample Date	Declination
	IGRF2010	12/22/2011	(°)
			7.94
			Dip Angle
			(°)
			60.48
			Field Strength
			(nT)
			48,754

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
			(°)
			89.64

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	89.64	2,750.00	2.98	477.46	12.00	12.00	0.00	89.64	
7,164.58	90.00	89.64	2,750.00	28.80	4,619.42	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: Patton 5 Fee
Well: #1H
Wellbore: OH
Design: Plan #1 8-3/4" Hole

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #1H
GL Elev @ 3381.00usft
GL Elev @ 3381.00usft
Grnd
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	89.64	2,299.98	0.00	0.79	0.79	12.00	12.00	0.00
2,400.00	15.30	89.64	2,398.49	0.11	16.91	16.91	12.00	12.00	0.00
2,500.00	27.30	89.64	2,491.49	0.33	53.16	53.17	12.00	12.00	0.00
2,600.00	39.30	89.64	2,574.93	0.67	107.96	107.96	12.00	12.00	0.00
2,700.00	51.30	89.64	2,645.14	1.12	178.90	178.91	12.00	12.00	0.00
2,800.00	63.30	89.64	2,699.07	1.64	282.89	282.90	12.00	12.00	0.00
2,900.00	75.30	89.64	2,734.36	2.22	356.26	356.27	12.00	12.00	0.00
3,000.00	87.30	89.64	2,749.47	2.84	454.93	454.94	12.00	12.00	0.00
3,022.54	90.00	89.64	2,750.00	2.98	477.46	477.47	12.00	12.00	0.00
Land EOC hold 90.00°									
3,100.00	90.00	89.64	2,750.00	3.46	554.92	554.93	0.00	0.00	0.00
3,200.00	90.00	89.64	2,750.00	4.08	654.92	654.93	0.00	0.00	0.00
3,300.00	90.00	89.64	2,750.00	4.71	754.91	754.93	0.00	0.00	0.00
3,400.00	90.00	89.64	2,750.00	5.33	854.91	854.93	0.00	0.00	0.00
3,500.00	90.00	89.64	2,750.00	5.95	954.91	954.93	0.00	0.00	0.00
3,600.00	90.00	89.64	2,750.00	6.58	1,054.91	1,054.93	0.00	0.00	0.00
3,700.00	90.00	89.64	2,750.00	7.20	1,154.91	1,154.93	0.00	0.00	0.00
3,800.00	90.00	89.64	2,750.00	7.82	1,254.91	1,254.93	0.00	0.00	0.00
3,900.00	90.00	89.64	2,750.00	8.45	1,354.90	1,354.93	0.00	0.00	0.00
4,000.00	90.00	89.64	2,750.00	9.07	1,454.90	1,454.93	0.00	0.00	0.00
4,100.00	90.00	89.64	2,750.00	9.69	1,554.90	1,554.93	0.00	0.00	0.00
4,200.00	90.00	89.64	2,750.00	10.32	1,654.90	1,654.93	0.00	0.00	0.00
4,300.00	90.00	89.64	2,750.00	10.94	1,754.90	1,754.93	0.00	0.00	0.00
4,400.00	90.00	89.64	2,750.00	11.57	1,854.89	1,854.93	0.00	0.00	0.00
4,500.00	90.00	89.64	2,750.00	12.19	1,954.89	1,954.93	0.00	0.00	0.00
4,600.00	90.00	89.64	2,750.00	12.81	2,054.89	2,054.93	0.00	0.00	0.00
4,700.00	90.00	89.64	2,750.00	13.44	2,154.89	2,154.93	0.00	0.00	0.00
4,800.00	90.00	89.64	2,750.00	14.06	2,254.89	2,254.93	0.00	0.00	0.00
4,900.00	90.00	89.64	2,750.00	14.68	2,354.88	2,354.93	0.00	0.00	0.00
5,000.00	90.00	89.64	2,750.00	15.31	2,454.88	2,454.93	0.00	0.00	0.00
5,100.00	90.00	89.64	2,750.00	15.93	2,554.88	2,554.93	0.00	0.00	0.00
5,200.00	90.00	89.64	2,750.00	16.55	2,654.88	2,654.93	0.00	0.00	0.00
5,300.00	90.00	89.64	2,750.00	17.18	2,754.88	2,754.93	0.00	0.00	0.00
5,400.00	90.00	89.64	2,750.00	17.80	2,854.87	2,854.93	0.00	0.00	0.00
5,500.00	90.00	89.64	2,750.00	18.42	2,954.87	2,954.93	0.00	0.00	0.00
5,600.00	90.00	89.64	2,750.00	19.05	3,054.87	3,054.93	0.00	0.00	0.00
5,700.00	90.00	89.64	2,750.00	19.67	3,154.87	3,154.93	0.00	0.00	0.00
5,800.00	90.00	89.64	2,750.00	20.29	3,254.87	3,254.93	0.00	0.00	0.00
5,900.00	90.00	89.64	2,750.00	20.92	3,354.86	3,354.93	0.00	0.00	0.00
6,000.00	90.00	89.64	2,750.00	21.54	3,454.86	3,454.93	0.00	0.00	0.00
6,100.00	90.00	89.64	2,750.00	22.16	3,554.86	3,554.93	0.00	0.00	0.00
6,200.00	90.00	89.64	2,750.00	22.79	3,654.86	3,654.93	0.00	0.00	0.00
6,300.00	90.00	89.64	2,750.00	23.41	3,754.86	3,754.93	0.00	0.00	0.00
6,400.00	90.00	89.64	2,750.00	24.04	3,854.85	3,854.93	0.00	0.00	0.00
6,500.00	90.00	89.64	2,750.00	24.66	3,954.85	3,954.93	0.00	0.00	0.00
6,600.00	90.00	89.64	2,750.00	25.28	4,054.85	4,054.93	0.00	0.00	0.00
6,700.00	90.00	89.64	2,750.00	25.91	4,154.85	4,154.93	0.00	0.00	0.00
6,800.00	90.00	89.64	2,750.00	26.53	4,254.85	4,254.93	0.00	0.00	0.00
6,900.00	90.00	89.64	2,750.00	27.15	4,354.85	4,354.93	0.00	0.00	0.00
7,000.00	90.00	89.64	2,750.00	27.78	4,454.84	4,454.93	0.00	0.00	0.00
7,100.00	90.00	89.64	2,750.00	28.40	4,554.84	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: Patton 5 Fee
Well: #1H
Wellbore: OH
Design: Plan #1 8-3/4" Hole

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #1H
GL Elev @ 3381.00usft
GL Elev @ 3381.00usft
Grid
Minimum Curvature

Planned Survey

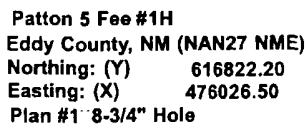
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,164.58	90.00	89.64	2,750.00	28.80	4,619.42	4,619.51	0.00	0.00	0.00
PBHL									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Infinite target									
- Shape									
PBHL	0.00	0.00	2,750.00	28.80	4,619.42	616,851.00	480,645.50	32° 41' 44.902 N	104° 23' 46.493 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 12.00/100'
3,022.54	2,750.00	2.98	477.46	Land EOC hold 90.00°



Magnetic Field
Strength 48754 1snT
Dip Angle 80.46°
Date 12/22/2011
Model IGRF2010

To convert a Magnetic Direction to a Grid Direction, Add 7 98°
To convert a True Direction to a Grid Direction, Add 0 04°

WELL DETAILS									
		Ground Level		3381 00					
*N/-S	*E/-W	Northing	Easting	Latitude	Longitude				
0 00	0 00	618222 20	476026 50	32° 41' 44 586 N	104° 24' 40 546 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	
2272.54	0 00	0 00	2272.54	0 00	0 00	0 00	0 00	0 00	
3022.54	90 00	89 64	2750.00	2 98	477 46	12 00	89 64	477 46	
7164.58	90 00	89 64	2750.00	28 80	4619 42	0 00	0 00	4619 51	PBHL

DESIGN TARGET DETAILS					
Name	TVD	*N/-S	*E/-W	Northing	Easting
PBHL	2750 00	28 80	4619 42	616851 00	480645 50

SITE DETAILS: Patton 5 Fee
Site Centre Northing 616822 20
Easting 476028 50

Positional Uncertainty 0 00
Convergence -0 04
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 1886
Zone New Mexico East 3001

System Datum Mean Sea Level

Map System	US State Plane 1927 (Eads solution)
Datum	NAD 1927 (NADCON CONUS)
Ellipsoid	Clarke 1868
Zone Name	New Mexico East 3001
Local Origin	Wall #1H, Gnd North
Latitude	32° 41' 44.588 N
Longitude	104° 24' 40.546 W
Gnd East	476026.50
Gnd North	618522.20
Scale Factor	1.000
Geomagnetic Model	IGRF2010
Sample Date	22-Dec-11
Magnetic Declination	7.54°
Dip Angle from Horizontal	80.5°
Magnetic Field Strength	48754

To convert a Magnetic Direction to a Gnd Direction, Add 7.58°
 To convert a Magnetic Declination to a True Declination, Add 7.94° East
 To convert a True Direction to a Gnd Direction, Add 0.94°

