

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. 30-015-39641
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 Patton 5 Fee
4. Well Location Unit Letter M ; 380 feet from the SOUTH line and 330 feet from the WEST line Section 5 Township 19S Range 26E NMPM County EDDY		8. Well Number 8H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3363'		9. OGRID Number 229137
		10. Pool name or Wildcat Atoka; Glorieta-Yeso 3250

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 ☐

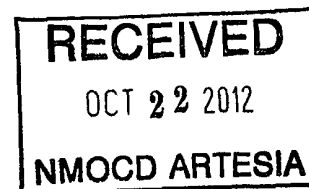
OTHER: **Revised Directional Plan** ☒

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 [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: [Signature] TITLE **Geologist** DATE **10/22/2012**
Conditions of Approval (if any):



COG Operating LLC

Eddy County, NM (NAN27 NME)

Patton 5 Fee #8H

OH

Plan #1 8-3/4" Hole

Surface: 380' FSL, 330' FWL, Sec 5, T19S, R26E, Unit M

BHL: 380' FSL, 330' FEL, Sec 5, T19S, R26E, Unit P

Standard Planning Report

16 October, 2012





Well #8H
GL Elev @ 3363.00usft
GL Elev @ 3363.00usft
Grid
Minimum Curvature

System Datum: Mean Sea Level
Using geodetic scale factor

Site Position:		Northing:	616,822.20 usft	Latitude:	32° 41' 44.586 N
From:	Map	Easting:	476,026.50 usft	Longitude:	104° 24' 40.546 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0 04 "

Well:	#8H					
Well Position	+N/-S	-4,470 10 usft	Northing:	612,352 50 usft	Latitude:	32° 41' 0 356 N
	+E/-W	38 30 usft	Easting:	476,064 80 usft	Longitude:	104° 24' 40.059 W
Position Uncertainty		0 00 usft	Wellhead Elevation:		Ground Level:	3,363.00 usft

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/11/2011	7.96	60.46	48,758

Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)
	0 00	0 00	0 00	89 98

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	89.98	2,750.00	0.18	477.46	12.00	12.00	0.00	89.98	
7,147.99	90.00	89.98	2,750.00	1.70	4,602.92	0.00	0.00	0.00	0.00	PBHL



Scientific Drilling
Planning Report



Date: EDM 5000.1 Single User Db
Company: COG Operating LLC
Project: Eddy County, NM (NAN27 NME)
Site: Patton 5 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 @ 3363.00usft
GL Elev @ 3363.00usft
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)	Built 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	89.98	2,299.98	0.00	0.79	0.79	12.00	12.00	0.00
2,400.00	15.30	89.98	2,398.49	0.01	16.91	16.91	12.00	12.00	0.00
2,500.00	27.30	89.98	2,491.49	0.02	53.17	53.17	12.00	12.00	0.00
2,600.00	39.30	89.98	2,574.93	0.04	107.96	107.96	12.00	12.00	0.00
2,700.00	51.30	89.98	2,645.14	0.07	178.91	178.91	12.00	12.00	0.00
2,800.00	63.30	89.98	2,699.07	0.10	262.90	262.90	12.00	12.00	0.00
2,900.00	75.30	89.98	2,734.36	0.13	356.27	356.27	12.00	12.00	0.00
3,000.00	87.30	89.98	2,749.47	0.17	454.94	454.94	12.00	12.00	0.00
3,022.54	90.00	89.98	2,750.00	0.18	477.47	477.47	12.00	12.00	0.00
Land EOC hold 90.00°									
3,100.00	90.00	89.98	2,750.00	0.20	554.93	554.93	0.00	0.00	0.00
3,200.00	90.00	89.98	2,750.00	0.24	654.93	654.93	0.00	0.00	0.00
3,300.00	90.00	89.98	2,750.00	0.28	754.93	754.93	0.00	0.00	0.00
3,400.00	90.00	89.98	2,750.00	0.32	854.93	854.93	0.00	0.00	0.00
3,500.00	90.00	89.98	2,750.00	0.35	954.93	954.93	0.00	0.00	0.00
3,600.00	90.00	89.98	2,750.00	0.39	1,054.93	1,054.93	0.00	0.00	0.00
3,700.00	90.00	89.98	2,750.00	0.43	1,154.93	1,154.93	0.00	0.00	0.00
3,800.00	90.00	89.98	2,750.00	0.46	1,254.93	1,254.93	0.00	0.00	0.00
3,900.00	90.00	89.98	2,750.00	0.50	1,354.93	1,354.93	0.00	0.00	0.00
4,000.00	90.00	89.98	2,750.00	0.54	1,454.93	1,454.93	0.00	0.00	0.00
4,100.00	90.00	89.98	2,750.00	0.57	1,554.93	1,554.93	0.00	0.00	0.00
4,200.00	90.00	89.98	2,750.00	0.61	1,654.93	1,654.93	0.00	0.00	0.00
4,300.00	90.00	89.98	2,750.00	0.65	1,754.93	1,754.93	0.00	0.00	0.00
4,400.00	90.00	89.98	2,750.00	0.69	1,854.93	1,854.93	0.00	0.00	0.00
4,500.00	90.00	89.98	2,750.00	0.72	1,954.93	1,954.93	0.00	0.00	0.00
4,600.00	90.00	89.98	2,750.00	0.76	2,054.93	2,054.93	0.00	0.00	0.00
4,700.00	90.00	89.98	2,750.00	0.80	2,154.93	2,154.93	0.00	0.00	0.00
4,800.00	90.00	89.98	2,750.00	0.83	2,254.93	2,254.93	0.00	0.00	0.00
4,900.00	90.00	89.98	2,750.00	0.87	2,354.93	2,354.93	0.00	0.00	0.00
5,000.00	90.00	89.98	2,750.00	0.91	2,454.93	2,454.93	0.00	0.00	0.00
5,100.00	90.00	89.98	2,750.00	0.94	2,554.93	2,554.93	0.00	0.00	0.00
5,200.00	90.00	89.98	2,750.00	0.98	2,654.93	2,654.93	0.00	0.00	0.00
5,300.00	90.00	89.98	2,750.00	1.02	2,754.93	2,754.93	0.00	0.00	0.00
5,400.00	90.00	89.98	2,750.00	1.05	2,854.93	2,854.93	0.00	0.00	0.00
5,500.00	90.00	89.98	2,750.00	1.09	2,954.93	2,954.93	0.00	0.00	0.00
5,600.00	90.00	89.98	2,750.00	1.13	3,054.93	3,054.93	0.00	0.00	0.00
5,700.00	90.00	89.98	2,750.00	1.17	3,154.93	3,154.93	0.00	0.00	0.00
5,800.00	90.00	89.98	2,750.00	1.20	3,254.93	3,254.93	0.00	0.00	0.00
5,900.00	90.00	89.98	2,750.00	1.24	3,354.93	3,354.93	0.00	0.00	0.00
6,000.00	90.00	89.98	2,750.00	1.28	3,454.93	3,454.93	0.00	0.00	0.00
6,100.00	90.00	89.98	2,750.00	1.31	3,554.93	3,554.93	0.00	0.00	0.00
6,200.00	90.00	89.98	2,750.00	1.35	3,654.93	3,654.93	0.00	0.00	0.00
6,300.00	90.00	89.98	2,750.00	1.39	3,754.93	3,754.93	0.00	0.00	0.00
6,400.00	90.00	89.98	2,750.00	1.42	3,854.93	3,854.93	0.00	0.00	0.00
6,500.00	90.00	89.98	2,750.00	1.46	3,954.93	3,954.93	0.00	0.00	0.00
6,600.00	90.00	89.98	2,750.00	1.50	4,054.93	4,054.93	0.00	0.00	0.00
6,700.00	90.00	89.98	2,750.00	1.53	4,154.93	4,154.93	0.00	0.00	0.00
6,800.00	90.00	89.98	2,750.00	1.57	4,254.93	4,254.93	0.00	0.00	0.00
6,900.00	90.00	89.98	2,750.00	1.61	4,354.93	4,354.93	0.00	0.00	0.00
7,000.00	90.00	89.98	2,750.00	1.65	4,454.93	4,454.93	0.00	0.00	0.00
7,100.00	90.00	89.98	2,750.00	1.68	4,554.93	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: #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 @ 3363.00usft
GL Elev @ 3363.00usft
Gnd
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)
7,147.99	90.00	89.98	2,750.00	1.70	4,602.92	4,602.92	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
bitumite target									
Shape									
PBHL	0.00	0.00	2,750.00	1.70	4,602.92	612,354.20	480,667.30	32° 41' 0.403 N	104° 23' 46.207 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	0.18	477.47	Land EOC hold 90.00°



Patton 5 Fee #8H
Eddy County, NM (NAN27 NME)
Northing: (Y) 612352.50
Easting: (X) 476064.80
Plan #1-8-3/4" Hole



Azimuths to Grid North
True North, 0.04°
Magnetic North, 8.00°

Magnetic Field
Strength 48758.0 nT
Dip Angle 60.48°
Date 11/11/2011
Model IGRF2010

To convert a Magnetic Direction to a Grid Direction, Add 8.00°
To convert a True Direction to a Grid Direction, Add 0.04°

WELL DETAILS:

	Ground Level	3363.00
+N/-S	0.00	
+E/-W	0.00	
Northing	612352.50	
Easting	476064.80	
Latitude	32° 41' 0.356 N 104° 24' 40.059 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	89.98	2750.00	0.18	477.46	12.00	89.98	477.46	
7147.99	90.00	89.98	2750.00	1.70	4602.92	0.00	0.00	4602.92	PBHL

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL	2750.00	1.70	4602.92	612354.20	480667.30

SITE DETAILS: Patton 5 Fee

Site Centre Northing: 616822.20
Easting: 476026.50

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 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 #8H, Grid North
Latitude: 32° 41' 0.356 N
Longitude: 104° 24' 40.059 W

Grid East: 476064.80
Grid North: 612352.50
Scale Factor: 1.000

Geomagnetic Model: IGRF2010
Sample Date: 11-Nov-11
Magnetic Declination: 7.96°
Dip Angle from Horizontal: 60.48°
Magnetic Field Strength: 48758

To convert a Magnetic Direction to a Grid Direction, Add 8.00°
To convert a Magnetic Direction to a True Direction, Add 7.96° East
To convert a True Direction to a Grid Direction, Add 0.04°

