

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. 30-015-39974
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Paint 32 Fee
8. Well Number 3H
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 M : 1040 feet from the SOUTH line and 190 feet from the WEST line Section 32 Township 18S Range 26E NMPM County EDDY	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3393'	

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: ☐	

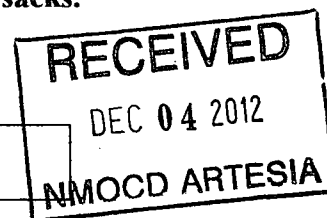
13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

COG proposes to drill an 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 3203' MD. Drill a 7-7/8" lateral to new BHL @ 2750' TVD 7311' MD. Run a 5 1/2" 17# L-80 casing to TD cement to surface with 800 sacks.

A 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.

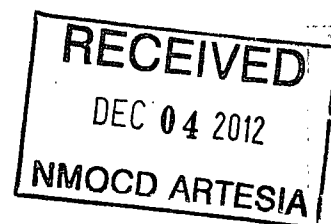
SIGNATURE [Signature] TITLE Permitting Tech DATE 11/29/2012

Type or print name Kelly J. Holly E-mail address: kholly@concho.com PHONE: 432-685-4384

For State Use Only

APPROVED BY: [Signature] TITLE Geologist DATE 12/4/2012

Conditions of Approval (if any):



COG Operating LLC

Eddy County, NM (NAN27 NME)

Paint 32 Fee #3H

OH

Plan #2 8-3/4" Hole

Surface: 1040' FSL, 190' FWL, Sec 32, T18S, R26E, Unit M

PP: 990' FSL, 532' FWL, Sec 32, T18S, R26E, Unit M

BHL: 990' FSL, 330' FEL, Sec 32, T18S, R26E, Unit P

Standard Planning Report

26 October, 2012





Scientific Drilling

Planning Report



Database: EDM 5000.1 Single User Db
Company: COG Operating LLC
Project: Eddy County, NM (NAN27 NME)
Site: Paint 32 Fee
Well: #3H
Wellbore: OH
Design: Plan #2 8-3/4" Hole

Local Co-ordinate Reference: Well #3H
TVD Reference: GL @ 3393.00usft
MD Reference: GL @ 3393.00usft
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	Paint 32 Fee		
Site Position:		Northing:	619,410.60 usft
From:	Map	Easting:	475,871.20 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 42' 10.199 N
		Longitude:	104° 24' 42.385 W
		Grid Convergence:	-0.04 °

Well	#3H		
Well Position	+N-S	-1,169.71 usft	Northing:
	+E-W	6.90 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level:
			3,393.00 usft
			Latitude:
			32° 41' 58.625 N
			Longitude:
			104° 24' 42.294 W

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	2/20/2012	7.92
			Dip Angle
			60.46
			Field Strength
			48,740
			(nT)

Design	Plan #2 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
			(°)
			90.24

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	
2,272.50	0.00	0.00	2,272.50	0.00	0.00	0.00	0.00	0.00	0.00	
3,022.56	90.00	95.00	2,750.00	-41.62	475.68	12.00	12.00	0.00	95.00	
3,202.56	90.00	89.60	2,750.00	-48.84	655.47	3.00	0.00	-3.00	-90.00	
7,311.41	90.00	89.60	2,750.00	-20.15	4,764.22	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: Paint 32 Fee
Well: #3H
Wellbore: OH
Design: Plan #2 8-3/4" Hole

Local Co-ordinate Reference: Well #3H
TVD Reference: GL @ 3393.00usft
MD Reference: GL @ 3393.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

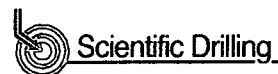
Planned Survey

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
2,272.50	0.00	0.00	2,272.50	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start Build 12.00									
2,300.00	3.30	95.00	2,299.98	-0.07	0.79	0.79	12.00	12.00	0.00
2,400.00	15.30	95.00	2,398.49	-1.47	16.86	16.86	12.00	12.00	0.00
2,500.00	27.30	95.00	2,491.49	-4.63	52.98	52.99	12.00	12.00	0.00
2,600.00	39.30	95.00	2,574.92	-9.41	107.57	107.60	12.00	12.00	0.00
2,700.00	51.30	95.00	2,645.14	-15.59	178.24	178.31	12.00	12.00	0.00
2,800.00	63.30	95.00	2,699.07	-22.91	261.91	262.01	12.00	12.00	0.00
2,886.56	73.68	95.00	2,730.76	-29.92	342.03	342.15	12.00	12.00	0.00
PP									
2,900.00	75.29	95.00	2,734.36	-31.05	354.93	355.06	12.00	12.00	0.00
3,000.00	87.29	95.00	2,749.47	-39.65	453.22	453.39	12.00	12.00	0.00
3,022.56	90.00	95.00	2,750.00	-41.62	475.68	475.85	12.00	12.00	0.00
EOC Start DLS 3.00 TFO -90.00									
3,100.00	90.00	92.68	2,750.00	-46.80	552.95	553.14	3.00	0.00	-3.00
3,200.00	90.00	89.68	2,750.00	-48.85	652.92	653.12	3.00	0.00	-3.00
3,202.56	90.00	89.60	2,750.00	-48.84	655.47	655.67	3.00	0.00	-3.00
Start 4108.85 hold at 3202.56 MD									
3,300.00	90.00	89.60	2,750.00	-48.16	752.91	753.11	0.00	0.00	0.00
3,400.00	90.00	89.60	2,750.00	-47.46	852.91	853.10	0.00	0.00	0.00
3,500.00	90.00	89.60	2,750.00	-46.76	952.91	953.10	0.00	0.00	0.00
3,600.00	90.00	89.60	2,750.00	-46.06	1,052.91	1,053.09	0.00	0.00	0.00
3,700.00	90.00	89.60	2,750.00	-45.36	1,152.90	1,153.09	0.00	0.00	0.00
3,800.00	90.00	89.60	2,750.00	-44.67	1,252.90	1,253.08	0.00	0.00	0.00
3,900.00	90.00	89.60	2,750.00	-43.97	1,352.90	1,353.07	0.00	0.00	0.00
4,000.00	90.00	89.60	2,750.00	-43.27	1,452.90	1,453.07	0.00	0.00	0.00
4,100.00	90.00	89.60	2,750.00	-42.57	1,552.89	1,553.06	0.00	0.00	0.00
4,200.00	90.00	89.60	2,750.00	-41.87	1,652.89	1,653.05	0.00	0.00	0.00
4,300.00	90.00	89.60	2,750.00	-41.18	1,752.89	1,753.05	0.00	0.00	0.00
4,400.00	90.00	89.60	2,750.00	-40.48	1,852.89	1,853.04	0.00	0.00	0.00
4,500.00	90.00	89.60	2,750.00	-39.78	1,952.88	1,953.04	0.00	0.00	0.00
4,600.00	90.00	89.60	2,750.00	-39.08	2,052.88	2,053.03	0.00	0.00	0.00
4,700.00	90.00	89.60	2,750.00	-38.38	2,152.88	2,153.02	0.00	0.00	0.00
4,800.00	90.00	89.60	2,750.00	-37.68	2,252.88	2,253.02	0.00	0.00	0.00
4,900.00	90.00	89.60	2,750.00	-36.99	2,352.87	2,353.01	0.00	0.00	0.00
5,000.00	90.00	89.60	2,750.00	-36.29	2,452.87	2,453.00	0.00	0.00	0.00
5,100.00	90.00	89.60	2,750.00	-35.59	2,552.87	2,553.00	0.00	0.00	0.00
5,200.00	90.00	89.60	2,750.00	-34.89	2,652.87	2,652.99	0.00	0.00	0.00
5,300.00	90.00	89.60	2,750.00	-34.19	2,752.87	2,752.99	0.00	0.00	0.00
5,400.00	90.00	89.60	2,750.00	-33.50	2,852.86	2,852.98	0.00	0.00	0.00
5,500.00	90.00	89.60	2,750.00	-32.80	2,952.86	2,952.97	0.00	0.00	0.00
5,600.00	90.00	89.60	2,750.00	-32.10	3,052.86	3,052.97	0.00	0.00	0.00
5,700.00	90.00	89.60	2,750.00	-31.40	3,152.86	3,152.96	0.00	0.00	0.00
5,800.00	90.00	89.60	2,750.00	-30.70	3,252.85	3,252.95	0.00	0.00	0.00
5,900.00	90.00	89.60	2,750.00	-30.00	3,352.85	3,352.95	0.00	0.00	0.00
6,000.00	90.00	89.60	2,750.00	-29.31	3,452.85	3,452.94	0.00	0.00	0.00
6,100.00	90.00	89.60	2,750.00	-28.61	3,552.85	3,552.93	0.00	0.00	0.00
6,200.00	90.00	89.60	2,750.00	-27.91	3,652.84	3,652.93	0.00	0.00	0.00
6,300.00	90.00	89.60	2,750.00	-27.21	3,752.84	3,752.92	0.00	0.00	0.00
6,400.00	90.00	89.60	2,750.00	-26.51	3,852.84	3,852.92	0.00	0.00	0.00
6,500.00	90.00	89.60	2,750.00	-25.82	3,952.84	3,952.91	0.00	0.00	0.00
6,600.00	90.00	89.60	2,750.00	-25.12	4,052.83	4,052.90	0.00	0.00	0.00
6,700.00	90.00	89.60	2,750.00	-24.42	4,152.83	4,152.90	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: Paint 32 Fee
Well: #3H
Wellbore: OH
Design: Plan #2 8-3/4" Hole

Local Co-ordinate Reference: Well #3H
TVD Reference: GL @ 3393.00usft
MD Reference: GL @ 3393.00usft
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)
6,800.00	90.00	89.60	2,750.00	-23.72	4,252.83	4,252.89	0.00	0.00	0.00
6,900.00	90.00	89.60	2,750.00	-23.02	4,352.83	4,352.88	0.00	0.00	0.00
7,000.00	90.00	89.60	2,750.00	-22.32	4,452.82	4,452.88	0.00	0.00	0.00
7,100.00	90.00	89.60	2,750.00	-21.63	4,552.82	4,552.87	0.00	0.00	0.00
7,200.00	90.00	89.60	2,750.00	-20.93	4,652.82	4,652.87	0.00	0.00	0.00
7,300.00	90.00	89.60	2,750.00	-20.23	4,752.82	4,752.86	0.00	0.00	0.00
7,311.41	90.00	89.60	2,750.00	-20.15	4,764.22	4,764.27	0.00	0.00	0.00
PBHL									

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
PP	0.00	0.00	2,730.76	-29.92	342.00	618,211.09	476,220.07	32° 41' 58.332 N	104° 24' 38.292 W
- plan hits target center									
- Point									
PBHL	0.00	0.00	2,750.00	-20.15	4,764.22	618,220.86	480,641.90	32° 41' 58.457 N	104° 23' 46.544 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
2,272.50	2,272.50	0.00	0.00	KOP Start Build 12.00
3,022.56	2,750.00	-41.62	475.68	EOC Start DLS 3.00 TFO -90.00
3,202.56	2,750.00	-48.84	655.47	Start 4108.85 hold at 3202.56 MD



Azimuths to Grid North
True North: 0.04°
Magnetic North: 7.95°
Magnetic Field
Strength: 48740.0nT
Dip Angle: 60.45°
Date: 2/20/2012
Model: IGRF2010

To convert a Magnetic Direction to a Grid Direction, Add 7.97°
To convert a True Direction to a Grid Direction, Add 0.04°

Paint 32 Fee #3H
Eddy County, NM (NAN27 NME)
Northing: (Y) 618241.00
Easting: (X) 475878.10
Plan #2 8-3/4" Hole

WELL DETAILS:									
Ground Level: 3393.00									
+N-S	+E-W	Northing	Easting	Latitude	Longitude				
0.00	0.00	618241.00	475878.10	32° 41' 58.825 N	104° 24' 42.294 W				
SECTION DETAILS									
MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2272.50	0.00	0.00	2272.50	0.00	0.00	0.00	0.00	0.00	
3022.56	90.00	95.00	2750.00	-41.62	475.68	12.00	95.00	475.85	
3202.56	90.00	89.60	2750.00	-48.84	655.47	3.00	-90.00	655.67	
7311.41	90.00	89.60	2750.00	-20.15	4764.22	0.00	0.00	4764.27	PBHL
DESIGN TARGET DETAILS									
Name	TVD	+N-S	+E-W	Northing	Easting				
PP	2730.76	-28.92	342.00	618211.08	476220.07				
PBHL	2750.00	-20.15	4764.22	618220.85	480641.99				

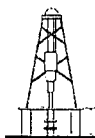
SITE DETAILS: Paint 32 Fee
Site Centre Northing: 619410.60
Easting: 475871.20
Positional Uncertainty: 0.00
Convergence: -0.04
Local North: Grid

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: Wall #3H, Grid North
Latitude: 32° 41' 58.825 N
Longitude: 104° 24' 42.294 W
Grid East: 475878.10
Grid North: 618241.00
Scale Factor: 1.000

Geomagnetic Model: IGRF2010
Sample Date: 20-Feb-12
Magnetic Declination: 7.92°
Dip Angle from Horizontal: 60.45°
Magnetic Field Strength: 48740

To convert a Magnetic Direction to a Grid Direction, Add 7.97°
To convert a Magnetic Direction to a True Direction, Add 7.92° East
To convert a True Direction to a Grid Direction, Add 0.04°



Ground Level: 3393.00

