

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. 30-015-39812	
5. Indicate Type of Lease STATE ☐ FEE ☒	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name Bradley 8 Fee	
8. Well Number 3H	
9. OGRID Number 229137	
10. Pool name or Wildcat Atoka; Glorieta-Yeso 3250	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3373'	

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 **O** : **150** feet from the **SOUTH** line and **2260** feet from the **EAST** line
Section **8** Township **19S** Range **26E** NMPM County **EDDY**

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-55 and cement to surface. Drill a 7-7/8" hole to 2273' MD and kick off and drill curve to 2750' TVD 3023' MD. Drill a 7-7/8" lateral to new BHL @ 2750' TVD 7394' 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:

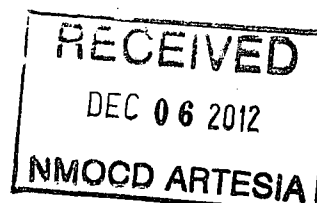
Rig Release Date:

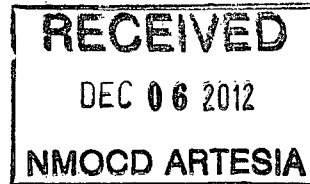
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kacie Connally TITLE Permitting Tech DATE 12/4/2012

Type or print name Kacie Connally E-mail address: kconnally@concho.com PHONE: 432-221-0336
For State Use Only

APPROVED BY: T. C. Shepard TITLE Geologist DATE 12/6/2012
Conditions of Approval (if any):





COG Operating LLC

Eddy County, NM (NAN27 NME)

Bradley 8 Fee #3H

OH

Plan #2 8-3/4" Hole

Surface: 150' FSL, 2260' FEL, Sec 8, T19S, R26E, Unit O

PP: 330' FSL, 2260' FEL, Sec 8, T19S, R26E, Unit O

BHL: 330' FNL, 2301' FEL, Sec 8, T19S, R26E, Unit B

Standard Planning Report

01 November, 2012





Scientific Drilling
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #3H
Company:	COG Operating LLC	TVD Reference:	GL Elev @ 3373.00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL Elev @ 3373.00usft
Site:	Bradley 8 Fee	North Reference:	Grid
Well:	#3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2 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	Bradley 8 Fee		
Site Position:	Map	Northing:	606,805.40 usft
From:		Easting:	477,518.50 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 40' 5.474 N
		Longitude:	104° 24' 23.005 W
		Grid Convergence:	-0.04 °

Well	#3H		
Well Position	+N/-S	-7.90 usft	Northing:
	+E/-W	1,329.42 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level:

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	BGGM2012	11/1/2012	7.94
			Dip Angle
			60.38
			Field Strength
			48,633

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
			358.31

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	358.31	2,750.00	477.26	-14.05	12.00	12.00	0.00	358.31	
7,393.81	90.00	358.31	2,750.00	4,846.64	-142.71	0.00	0.00	0.00	0.00	PBHL



Scientific Drilling
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #3H
Company:	COG Operating LLC	TVD Reference:	GL Elev @ 3373.00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL Elev @ 3373.00usft
Site:	Bradley 8 Fee	North Reference:	Grid
Well:	#3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2 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)
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	358.31	2,299.98	0.79	-0.02	0.79	12.00	12.00	0.00
2,400.00	15.30	358.31	2,398.49	16.91	-0.50	16.91	12.00	12.00	0.00
2,500.00	27.30	358.31	2,491.49	53.14	-1.56	53.17	12.00	12.00	0.00
2,600.00	39.30	358.31	2,574.93	107.91	-3.18	107.96	12.00	12.00	0.00
2,700.00	51.30	358.31	2,645.14	178.83	-5.27	178.91	12.00	12.00	0.00
2,701.49	51.48	358.31	2,646.07	180.00	-5.30	180.07	12.00	12.00	0.00
PP=330' FSL									
2,800.00	63.30	358.31	2,699.07	262.79	-7.74	262.90	12.00	12.00	0.00
2,900.00	75.30	358.31	2,734.36	356.12	-10.49	356.27	12.00	12.00	0.00
3,000.00	87.30	358.31	2,749.47	454.74	-13.39	454.94	12.00	12.00	0.00
3,022.54	90.00	358.31	2,750.00	477.26	-14.05	477.47	12.00	12.00	0.00
Land EOC hold 90.00°									
3,100.00	90.00	358.31	2,750.00	554.69	-16.33	554.93	0.00	0.00	0.00
3,200.00	90.00	358.31	2,750.00	654.65	-19.28	654.93	0.00	0.00	0.00
3,300.00	90.00	358.31	2,750.00	754.60	-22.22	754.93	0.00	0.00	0.00
3,400.00	90.00	358.31	2,750.00	854.56	-25.16	854.93	0.00	0.00	0.00
3,500.00	90.00	358.31	2,750.00	954.52	-28.11	954.93	0.00	0.00	0.00
3,600.00	90.00	358.31	2,750.00	1,054.47	-31.05	1,054.93	0.00	0.00	0.00
3,700.00	90.00	358.31	2,750.00	1,154.43	-33.99	1,154.93	0.00	0.00	0.00
3,800.00	90.00	358.31	2,750.00	1,254.39	-36.94	1,254.93	0.00	0.00	0.00
3,900.00	90.00	358.31	2,750.00	1,354.34	-39.88	1,354.93	0.00	0.00	0.00
4,000.00	90.00	358.31	2,750.00	1,454.30	-42.82	1,454.93	0.00	0.00	0.00
4,100.00	90.00	358.31	2,750.00	1,554.26	-45.77	1,554.93	0.00	0.00	0.00
4,200.00	90.00	358.31	2,750.00	1,654.21	-48.71	1,654.93	0.00	0.00	0.00
4,300.00	90.00	358.31	2,750.00	1,754.17	-51.65	1,754.93	0.00	0.00	0.00
4,400.00	90.00	358.31	2,750.00	1,854.13	-54.60	1,854.93	0.00	0.00	0.00
4,500.00	90.00	358.31	2,750.00	1,954.08	-57.54	1,954.93	0.00	0.00	0.00
4,600.00	90.00	358.31	2,750.00	2,054.04	-60.48	2,054.93	0.00	0.00	0.00
4,700.00	90.00	358.31	2,750.00	2,154.00	-63.43	2,154.93	0.00	0.00	0.00
4,800.00	90.00	358.31	2,750.00	2,253.95	-66.37	2,254.93	0.00	0.00	0.00
4,900.00	90.00	358.31	2,750.00	2,353.91	-69.31	2,354.93	0.00	0.00	0.00
5,000.00	90.00	358.31	2,750.00	2,453.87	-72.26	2,454.93	0.00	0.00	0.00
5,100.00	90.00	358.31	2,750.00	2,553.82	-75.20	2,554.93	0.00	0.00	0.00
5,200.00	90.00	358.31	2,750.00	2,653.78	-78.14	2,654.93	0.00	0.00	0.00
5,300.00	90.00	358.31	2,750.00	2,753.74	-81.09	2,754.93	0.00	0.00	0.00
5,400.00	90.00	358.31	2,750.00	2,853.69	-84.03	2,854.93	0.00	0.00	0.00
5,500.00	90.00	358.31	2,750.00	2,953.65	-86.97	2,954.93	0.00	0.00	0.00
5,600.00	90.00	358.31	2,750.00	3,053.61	-89.92	3,054.93	0.00	0.00	0.00
5,700.00	90.00	358.31	2,750.00	3,153.56	-92.86	3,154.93	0.00	0.00	0.00
5,800.00	90.00	358.31	2,750.00	3,253.52	-95.80	3,254.93	0.00	0.00	0.00
5,900.00	90.00	358.31	2,750.00	3,353.48	-98.75	3,354.93	0.00	0.00	0.00
6,000.00	90.00	358.31	2,750.00	3,453.43	-101.69	3,454.93	0.00	0.00	0.00
6,100.00	90.00	358.31	2,750.00	3,553.39	-104.63	3,554.93	0.00	0.00	0.00
6,200.00	90.00	358.31	2,750.00	3,653.35	-107.58	3,654.93	0.00	0.00	0.00
6,300.00	90.00	358.31	2,750.00	3,753.30	-110.52	3,754.93	0.00	0.00	0.00
6,400.00	90.00	358.31	2,750.00	3,853.26	-113.46	3,854.93	0.00	0.00	0.00
6,500.00	90.00	358.31	2,750.00	3,953.22	-116.41	3,954.93	0.00	0.00	0.00
6,600.00	90.00	358.31	2,750.00	4,053.17	-119.35	4,054.93	0.00	0.00	0.00
6,700.00	90.00	358.31	2,750.00	4,153.13	-122.29	4,154.93	0.00	0.00	0.00
6,800.00	90.00	358.31	2,750.00	4,253.09	-125.24	4,254.93	0.00	0.00	0.00



Scientific Drilling
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #3H
Company:	COG Operating LLC	TVD Reference:	GL Elev @ 3373.00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL Elev @ 3373.00usft
Site:	Bradley 8 Fee	North Reference:	Grid
Well:	#3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2 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	90.00	358.31	2,750.00	4,353.04	-128.18	4,354.93	0.00	0.00	0.00
7,000.00	90.00	358.31	2,750.00	4,453.00	-131.12	4,454.93	0.00	0.00	0.00
7,100.00	90.00	358.31	2,750.00	4,552.96	-134.07	4,554.93	0.00	0.00	0.00
7,200.00	90.00	358.31	2,750.00	4,652.91	-137.01	4,654.93	0.00	0.00	0.00
7,300.00	90.00	358.31	2,750.00	4,752.87	-139.95	4,754.93	0.00	0.00	0.00
7,393.81	90.00	358.31	2,750.00	4,846.64	-142.71	4,848.74	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 - hit/miss target - Shape	0.00	360.00	2,646.08	180.00	-5.30	606,977.49	478,842.50	32° 40' 7.186 N	104° 24' 7.517 W
PBHL - plan hits target center - Point	0.00	0.00	2,750.00	4,846.64	-142.71	611,643.70	478,705.10	32° 40' 53.360 N	104° 24' 9.160 W

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	477.36	-10.01	Land EOC hold 90.00°



Azimuths to Grid North
True North: 0.04°
Magnetic North: 7.97°

Magnetic Field
Strength: 48633.2nT
Dip Angle: 60.38°
Date: 11/1/2012
Model: BGGM2012

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

Bradley 8 Fee #3H
Eddy County, NM (NAN27 NME)
Northing: (Y) 606797.50
Easting: (X) 478847.80
Plan #2 8-3/4" Hole

WELL DETAILS:						
			Ground Level:	3373.00		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	606797.50	478847.80	32° 40' 5.405 N	104° 24' 7.454 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	358.31	2750.00	477.26	-14.05	12.00	358.31	477.46	
7393.81	90.00	358.31	2750.00	4846.64	-142.71	0.00	0.00	4848.74	PBHL

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
PP=330' FSL	2646.08	180.00	-5.30	606977.48	478842.50
PBHL	2750.00	4846.64	-142.71	611643.70	478705.10

SITE DETAILS: Bradley 8 Fee	
Site Centre Northing: 606805.40	Easting: 477518.50
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 #3H, Grid North	
Latitude: 32° 40' 5.405 N	Longitude: 104° 24' 7.454 W
Grid East: 478847.80	Grid North: 606797.50
Scale Factor: 1.000	
Geomagnetic Model: BGGM2012	Sample Date: 01-Nov-12
Magnetic Declination: 7.94°	Dip Angle from Horizontal: 60.38°
Magnetic Field Strength: 48633	
To convert a Magnetic Direction to a Grid Direction, Add 7.97°	
To convert a Magnetic Direction to a True Direction, Add 7.94° East	
To convert a True Direction to a Grid Direction, Add 0.04°	

