

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. 30-015-40123
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Clydesdale 1 Fee
8. Well Number 3H
9. OGRID Number 229137
10. Pool name or Wildcat 50270 Penasco Draw; SA-Yeso (ASSOC)
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3417'

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 **H** : **1700** feet from the **NORTH** line and **150** feet from the **EAST** line
 Section **1** Township **19S** Range **25E** NMPM County **EDDY**

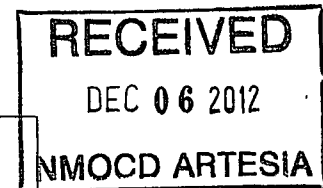
12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
OTHER: Change Casing Program <input checked="" type="checkbox"/>		OTHER: <input type="checkbox"/>	

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 a 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 2750' TVD 3023' MD. Drill a 7-7/8" lateral to new BHL @ 2750' TVD 7429' 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 *Robyn Odom* TITLE Regulatory Analyst DATE 12/04/2012
 Type or print name Robyn M. Odom E-mail address: Rodom@concho.com PHONE: 432-685-4385

For State Use Only
 APPROVED BY: *T. C. Shepard* TITLE Geologist DATE 12-6-2012
 Conditions of Approval (if any):



RECEIVED
DEC 06 2012
NMOCD ARTESIA

COG Operating LLC

Eddy County, NM (NAN27 NME)
Clydesdale 1 Fee #3H

OH

Plan #3 8-3/4" Hole

Surface: 1700' FNL, 150' FEL, Sec 1, T19S, R25E, Unit H

PP: 1700' FNL, 330' FEL, Sec 1, T19S, R25E, Unit H

BHL: 1753' FNL, 330' FWL, Sec 1, T19S, R25E, Unit E

Standard Planning Report

31 October, 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 @ 3400.00usft
Project:	Eddy County, NM (NAN27-NME)	MD Reference:	GL Elev @ 3400.00usft
Site:	Clydesdale 1 Fee	North Reference:	Grid
Well:	#3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3 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:	Clydesdale 1 Fee				
Site Position:		Northing:	614,960.50 usft	Latitude:	32° 41' 26.118 N
From:	Map	Easting:	470,388.00 usft	Longitude:	104° 25' 46.509 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.05 °

Well:	#3H					
Well Position	+N-S	559.85 usft	Northing:	615,520.30 usft	Latitude:	32° 41' 31.658 N
	+E-W	4.10 usft	Easting:	470,392.10 usft	Longitude:	104° 25' 46.467 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,400.00 usft

Wellbore:	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	10/10/2011	(°)	(°)	(nT)
			7.97	60.46	48,770

Design:	Plan #3 8-3/4" Hole			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	270.63

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	
2,272.54	0.00	0.00	2,272.54	0.00	0.00	0.00	0.00	0.00	0.00	
3,022.54	90.00	270.63	2,750.00	5.22	-477.44	12.00	12.00	0.00	270.63	
7,429.30	90.00	270.63	2,750.00	53.40	-4,883.94	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 @ 3400.00usft
Project:	Eddy County, NM (NAN27-NME)	MD Reference:	GL Elev @ 3400.00usft
Site:	Clydesdale 1 Fee	North Reference:	Grid
Well:	#3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3 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	0.00
2,272.54	0.00	0.00	2,272.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start Build 12.00°/100'										
2,300.00	3.30	270.63	2,299.98	0.01	-0.79	0.79	12.00	12.00	0.00	0.00
2,400.00	15.30	270.63	2,398.49	0.18	-16.91	16.91	12.00	12.00	0.00	0.00
2,500.00	27.30	270.63	2,491.49	0.58	-53.16	53.17	12.00	12.00	0.00	0.00
2,600.00	39.30	270.63	2,574.93	1.18	-107.95	107.96	12.00	12.00	0.00	0.00
2,700.00	51.30	270.63	2,645.14	1.96	-178.90	178.91	12.00	12.00	0.00	0.00
2,701.41	51.46	270.63	2,646.02	1.97	-180.00	180.01	12.00	12.00	0.00	0.00
PP=330° FEL										
2,800.00	63.30	270.63	2,699.07	2.87	-262.88	262.90	12.00	12.00	0.00	0.00
2,900.00	75.30	270.63	2,734.36	3.90	-356.25	356.27	12.00	12.00	0.00	0.00
3,000.00	87.30	270.63	2,749.47	4.97	-454.91	454.94	12.00	12.00	0.00	0.00
3,022.54	90.00	270.63	2,750.00	5.22	-477.44	477.47	12.00	12.00	0.00	0.00
Land EOC hold 90.00°										
3,100.00	90.00	270.63	2,750.00	6.07	-554.90	554.93	0.00	0.00	0.00	0.00
3,200.00	90.00	270.63	2,750.00	7.16	-654.89	654.93	0.00	0.00	0.00	0.00
3,300.00	90.00	270.63	2,750.00	8.25	-754.88	754.93	0.00	0.00	0.00	0.00
3,400.00	90.00	270.63	2,750.00	9.35	-854.88	854.93	0.00	0.00	0.00	0.00
3,500.00	90.00	270.63	2,750.00	10.44	-954.87	954.93	0.00	0.00	0.00	0.00
3,600.00	90.00	270.63	2,750.00	11.53	-1,054.87	1,054.93	0.00	0.00	0.00	0.00
3,700.00	90.00	270.63	2,750.00	12.63	-1,154.86	1,154.93	0.00	0.00	0.00	0.00
3,800.00	90.00	270.63	2,750.00	13.72	-1,254.85	1,254.93	0.00	0.00	0.00	0.00
3,900.00	90.00	270.63	2,750.00	14.81	-1,354.85	1,354.93	0.00	0.00	0.00	0.00
4,000.00	90.00	270.63	2,750.00	15.91	-1,454.84	1,454.93	0.00	0.00	0.00	0.00
4,100.00	90.00	270.63	2,750.00	17.00	-1,554.84	1,554.93	0.00	0.00	0.00	0.00
4,200.00	90.00	270.63	2,750.00	18.10	-1,654.83	1,654.93	0.00	0.00	0.00	0.00
4,300.00	90.00	270.63	2,750.00	19.19	-1,754.82	1,754.93	0.00	0.00	0.00	0.00
4,400.00	90.00	270.63	2,750.00	20.28	-1,854.82	1,854.93	0.00	0.00	0.00	0.00
4,500.00	90.00	270.63	2,750.00	21.38	-1,954.81	1,954.93	0.00	0.00	0.00	0.00
4,600.00	90.00	270.63	2,750.00	22.47	-2,054.81	2,054.93	0.00	0.00	0.00	0.00
4,700.00	90.00	270.63	2,750.00	23.56	-2,154.80	2,154.93	0.00	0.00	0.00	0.00
4,800.00	90.00	270.63	2,750.00	24.66	-2,254.79	2,254.93	0.00	0.00	0.00	0.00
4,900.00	90.00	270.63	2,750.00	25.75	-2,354.79	2,354.93	0.00	0.00	0.00	0.00
5,000.00	90.00	270.63	2,750.00	26.84	-2,454.78	2,454.93	0.00	0.00	0.00	0.00
5,100.00	90.00	270.63	2,750.00	27.94	-2,554.78	2,554.93	0.00	0.00	0.00	0.00
5,200.00	90.00	270.63	2,750.00	29.03	-2,654.77	2,654.93	0.00	0.00	0.00	0.00
5,300.00	90.00	270.63	2,750.00	30.12	-2,754.77	2,754.93	0.00	0.00	0.00	0.00
5,400.00	90.00	270.63	2,750.00	31.22	-2,854.76	2,854.93	0.00	0.00	0.00	0.00
5,500.00	90.00	270.63	2,750.00	32.31	-2,954.75	2,954.93	0.00	0.00	0.00	0.00
5,600.00	90.00	270.63	2,750.00	33.40	-3,054.75	3,054.93	0.00	0.00	0.00	0.00
5,700.00	90.00	270.63	2,750.00	34.50	-3,154.74	3,154.93	0.00	0.00	0.00	0.00
5,800.00	90.00	270.63	2,750.00	35.59	-3,254.74	3,254.93	0.00	0.00	0.00	0.00
5,900.00	90.00	270.63	2,750.00	36.68	-3,354.73	3,354.93	0.00	0.00	0.00	0.00
6,000.00	90.00	270.63	2,750.00	37.78	-3,454.72	3,454.93	0.00	0.00	0.00	0.00
6,100.00	90.00	270.63	2,750.00	38.87	-3,554.72	3,554.93	0.00	0.00	0.00	0.00
6,200.00	90.00	270.63	2,750.00	39.96	-3,654.71	3,654.93	0.00	0.00	0.00	0.00
6,300.00	90.00	270.63	2,750.00	41.06	-3,754.71	3,754.93	0.00	0.00	0.00	0.00
6,400.00	90.00	270.63	2,750.00	42.15	-3,854.70	3,854.93	0.00	0.00	0.00	0.00
6,500.00	90.00	270.63	2,750.00	43.24	-3,954.69	3,954.93	0.00	0.00	0.00	0.00
6,600.00	90.00	270.63	2,750.00	44.34	-4,054.69	4,054.93	0.00	0.00	0.00	0.00
6,700.00	90.00	270.63	2,750.00	45.43	-4,154.68	4,154.93	0.00	0.00	0.00	0.00
6,800.00	90.00	270.63	2,750.00	46.52	-4,254.68	4,254.93	0.00	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 @ 3400'00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL Elev @ 3400'00usft
Site:	Clydesdale 1 Fee	North Reference:	Grid
Well:	#3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3 8-3/4" Hole		

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	270.63	2,750.00	47.62	-4,354.67	4,354.93	0.00	0.00	0.00
7,000.00	90.00	270.63	2,750.00	48.71	-4,454.66	4,454.93	0.00	0.00	0.00
7,100.00	90.00	270.63	2,750.00	49.80	-4,554.66	4,554.93	0.00	0.00	0.00
7,200.00	90.00	270.63	2,750.00	50.90	-4,654.65	4,654.93	0.00	0.00	0.00
7,300.00	90.00	270.63	2,750.00	51.99	-4,754.65	4,754.93	0.00	0.00	0.00
7,400.00	90.00	270.63	2,750.00	53.08	-4,854.64	4,854.93	0.00	0.00	0.00
7,429.30	90.00	270.63	2,750.00	53.40	-4,883.94	4,884.23	0.00	0.00	0.00

PBHL

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 - Point	0.00	360.00	2,646.02	1.97	-180.00	615,522.27	470,212.12	32° 41' 31.675 N	104° 25' 48.573 W
PBHL - plan hits target center - Point	0.00	0.00	2,750.00	53.40	-4,883.94	615,573.70	465,508.60	32° 41' 32.138 N	104° 26' 43.614 W

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	10.38	-477.36	Land EOC hold 90.00°



Azimuths to Grid North
 True North: 0.05°
 Magnetic North: 8.03°
 Magnetic Field Strength: 48759.5nT
 Dip Angle: 60.46°
 Date: 10/10/2011
 Model: IGRF2010

Clydesdale 1 Fee #3H.
 Eddy County, NM (NAN27 NME)
 Northing: (Y) 615520.30
 Easting: (X) 470392.10
 Plan #3 8-3/4" Hole

WELL DETAILS:						
Ground Level: 3400.00						
+N-S	+E-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	615520.30	470392.10	32° 41' 31.658 N	104° 25' 46.467 W	

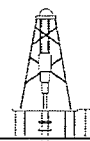
SECTION DETAILS									
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2272.54	0.00	0.00	2272.54	0.00	0.00	0.00	0.00	0.00	0.00
3022.54	90.00	270.63	2750.00	5.22	-477.44	12.00	270.63	477.46	
7429.30	90.00	270.63	2750.00	53.40	-4883.94	0.00	0.00	4884.23	PBHL

DESIGN TARGET DETAILS					
Name	TVD	+N-S	+E-W	Northing	Easting
PP=330' FEL	2646.02	1.97	-180.00	615522.27	470212.12
PBHL	2750.00	53.40	-4883.94	615573.70	465508.60

SITE DETAILS: Clydesdale 1 Fee	
Site Centre Northing:	614960.50
Easting:	470388.00
Positional Uncertainty:	0.00
Convergence:	-0.05
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° 41' 31.658 N
Longitude:	104° 25' 46.467 W
Grid East:	470392.10
Grid North:	615520.30
Scale Factor:	1.000
Geomagnetic Model:	IGRF2010
Sample Date:	10-Oct-11
Magnetic Declination:	7.97°
Dip Angle from Horizontal:	60.46°
Magnetic Field Strength:	48770
To convert a Magnetic Direction to a Grid Direction, Add 8.03°	
To convert a Magnetic Direction to a True Direction, Add 7.97° East	
To convert a True Direction to a Grid Direction, Add 0.05°	



Ground Level: 3400.00

