

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. 30-015-40214
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Clydesdale 1 Fee
8. Well Number 1H
9. OGRID Number 229137
10. Pool name or Wildcat Penasco Draw; SA-Yeso (Assoc) 50270

11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3434'
--

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 **A/1** : **380** feet from the **NORTH** line and **150** feet from the **EAST** line
Section **1** Township **19S** Range **25E** NMPM County **EDDY**

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3434'

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 TVD** ☒

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 Operating LLC respectfully requests permission to change TVD:

FROM: 2750'
TO: 2928'

A revised directional plan is attached for your review.

Spud Date:

Rig Release Date:

RECEIVED

DEC 26 2012

NMOCD ARTESIA

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 12/21/2012

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 [Signature] DATE 1/2/2013

Conditions of Approval (if any):



RECEIVED

DEC 26 2012

NMOCD ARTESIA

COG Operating LLC

Eddy County, NM (NAN27 NME)

Clydesdale 1 Fee #1H

OH

Plan #1 8-3/4" Hole

Surface: 380' FNL, 150' FEL, Sec 1, T19S, R25E, Unit A (Lot 1)

PP: 380' FNL, 330' FEL, Sec 1, T19S, R25E, Unit A (Lot 1)

BHL: 380' FNL, 330' FWL, Sec 1, T19S, R25E, Unit D (Lot 4)

Standard Planning Report

20 December, 2012



Scientific Drilling



Scientific Drilling
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #1H:
Company:	COG Operating LLC	TVD Reference:	GL @ 3434.00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL @ 3434.00usft
Site:	Clydesdale 1 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:	Clydesdale 1 Fee		
Site Position:		Northing:	614,960.50 usft
From:	Map	Easting:	470,388.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	32° 41' 26.118 N
		Longitude:	104° 25' 46.509 W
		Grid Convergence:	-0.05 °

Well:	#1H		
Well Position	+N/-S	1,879.77 usft	Northing:
	+E/-W	13.70 usft	Easting:
Position Uncertainty	0.00 usft		Wellhead Elevation:
			Ground Level:
			3,434.00 usft

Wellbore:	OH		
Magnetics:	Model Name	Sample Date	Declination
	BGGM2012	12/6/2012	7.94
			Dip Angle
			60.40
			Field Strength
			48,634

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
			(°)
			271.25

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	
2,451.14	0.00	0.00	2,451.14	0.00	0.00	0.00	0.00	0.00	0.00	
3,221.98	92.50	271.25	2,928.15	10.83	-498.17	12.00	12.00	0.00	271.25	
7,615.76	92.50	271.25	2,736.50	106.21	-4,886.74	0.00	0.00	0.00	0.00	PBHL

RECEIVED
DEC 26 2012
NMOCD ARTESIA



Scientific Drilling
Planning Report



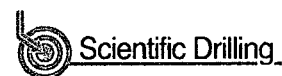
Database:	EDM 5000.1 Single:User.Db	Local Co-ordinate Reference:	Well #1H
Company:	COG Operating LLC	TVD Reference:	GL @ 3434.00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL @ 3434.00usft
Site:	Clydesdale 1 Fee	North Reference:	Grid:
Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 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
2,451.14	0.00	0.00	2,451.14	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start Build 12.00									
2,500.00	5.86	271.25	2,499.91	0.05	-2.50	2.50	12.00	12.00	0.00
2,600.00	17.86	271.25	2,597.60	0.50	-23.01	23.02	12.00	12.00	0.00
2,700.00	29.86	271.25	2,688.89	1.38	-63.38	63.40	12.00	12.00	0.00
2,800.00	41.86	271.25	2,769.78	2.65	-121.85	121.88	12.00	12.00	0.00
2,880.10	51.47	271.25	2,824.68	3.91	-180.03	180.07	12.00	12.00	0.00
PP=330' FEL									
2,900.00	53.86	271.25	2,836.75	4.26	-195.85	195.89	12.00	12.00	0.00
3,000.00	65.86	271.25	2,886.86	6.13	-282.15	282.22	12.00	12.00	0.00
3,100.00	77.86	271.25	2,917.94	8.19	-376.99	377.08	12.00	12.00	0.00
3,200.00	89.86	271.25	2,928.61	10.35	-476.21	476.32	12.00	12.00	0.00
3,221.98	92.50	271.25	2,928.15	10.83	-498.17	498.29	12.00	12.00	0.00
EOC Start 4393.78 hold at 3221.98 MD									
3,300.00	92.50	271.25	2,924.75	12.52	-576.10	576.24	0.00	0.00	0.00
3,400.00	92.50	271.25	2,920.39	14.69	-675.99	676.15	0.00	0.00	0.00
3,500.00	92.50	271.25	2,916.03	16.86	-775.87	776.05	0.00	0.00	0.00
3,600.00	92.50	271.25	2,911.67	19.03	-875.75	875.95	0.00	0.00	0.00
3,700.00	92.50	271.25	2,907.30	21.20	-975.63	975.86	0.00	0.00	0.00
3,800.00	92.50	271.25	2,902.94	23.38	-1,075.51	1,075.76	0.00	0.00	0.00
3,900.00	92.50	271.25	2,898.58	25.55	-1,175.39	1,175.67	0.00	0.00	0.00
4,000.00	92.50	271.25	2,894.22	27.72	-1,275.27	1,275.57	0.00	0.00	0.00
4,100.00	92.50	271.25	2,889.86	29.89	-1,375.15	1,375.48	0.00	0.00	0.00
4,200.00	92.50	271.25	2,885.49	32.06	-1,475.04	1,475.38	0.00	0.00	0.00
4,300.00	92.50	271.25	2,881.13	34.23	-1,574.92	1,575.29	0.00	0.00	0.00
4,400.00	92.50	271.25	2,876.77	36.40	-1,674.80	1,675.19	0.00	0.00	0.00
4,500.00	92.50	271.25	2,872.41	38.57	-1,774.68	1,775.10	0.00	0.00	0.00
4,600.00	92.50	271.25	2,868.05	40.74	-1,874.56	1,875.00	0.00	0.00	0.00
4,700.00	92.50	271.25	2,863.68	42.91	-1,974.44	1,974.91	0.00	0.00	0.00
4,800.00	92.50	271.25	2,859.32	45.08	-2,074.32	2,074.81	0.00	0.00	0.00
4,900.00	92.50	271.25	2,854.96	47.25	-2,174.20	2,174.72	0.00	0.00	0.00
5,000.00	92.50	271.25	2,850.60	49.43	-2,274.09	2,274.62	0.00	0.00	0.00
5,100.00	92.50	271.25	2,846.24	51.60	-2,373.97	2,374.53	0.00	0.00	0.00
5,200.00	92.50	271.25	2,841.87	53.77	-2,473.85	2,474.43	0.00	0.00	0.00
5,300.00	92.50	271.25	2,837.51	55.94	-2,573.73	2,574.34	0.00	0.00	0.00
5,400.00	92.50	271.25	2,833.15	58.11	-2,673.61	2,674.24	0.00	0.00	0.00
5,500.00	92.50	271.25	2,828.79	60.28	-2,773.49	2,774.15	0.00	0.00	0.00
5,600.00	92.50	271.25	2,824.43	62.45	-2,873.37	2,874.05	0.00	0.00	0.00
5,700.00	92.50	271.25	2,820.06	64.62	-2,973.25	2,973.96	0.00	0.00	0.00
5,800.00	92.50	271.25	2,815.70	66.79	-3,073.14	3,073.86	0.00	0.00	0.00
5,900.00	92.50	271.25	2,811.34	68.96	-3,173.02	3,173.77	0.00	0.00	0.00
6,000.00	92.50	271.25	2,806.98	71.13	-3,272.90	3,273.67	0.00	0.00	0.00
6,100.00	92.50	271.25	2,802.62	73.30	-3,372.78	3,373.58	0.00	0.00	0.00
6,200.00	92.50	271.25	2,798.25	75.48	-3,472.66	3,473.48	0.00	0.00	0.00
6,300.00	92.50	271.25	2,793.89	77.65	-3,572.54	3,573.38	0.00	0.00	0.00
6,400.00	92.50	271.25	2,789.53	79.82	-3,672.42	3,673.29	0.00	0.00	0.00
6,500.00	92.50	271.25	2,785.17	81.99	-3,772.30	3,773.19	0.00	0.00	0.00
6,600.00	92.50	271.25	2,780.81	84.16	-3,872.18	3,873.10	0.00	0.00	0.00
6,700.00	92.50	271.25	2,776.44	86.33	-3,972.07	3,973.00	0.00	0.00	0.00
6,800.00	92.50	271.25	2,772.08	88.50	-4,071.95	4,072.91	0.00	0.00	0.00
6,900.00	92.50	271.25	2,767.72	90.67	-4,171.83	4,172.81	0.00	0.00	0.00
7,000.00	92.50	271.25	2,763.36	92.84	-4,271.71	4,272.72	0.00	0.00	0.00



Scientific Drilling

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #1H
Company:	COG Operating LLC	TVD Reference:	GL @ 3434.00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL @ 3434.00usft
Site:	Clydesdale 1.Fee	North Reference:	Grid
Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 8-3/4" Hole		

Planned Survey

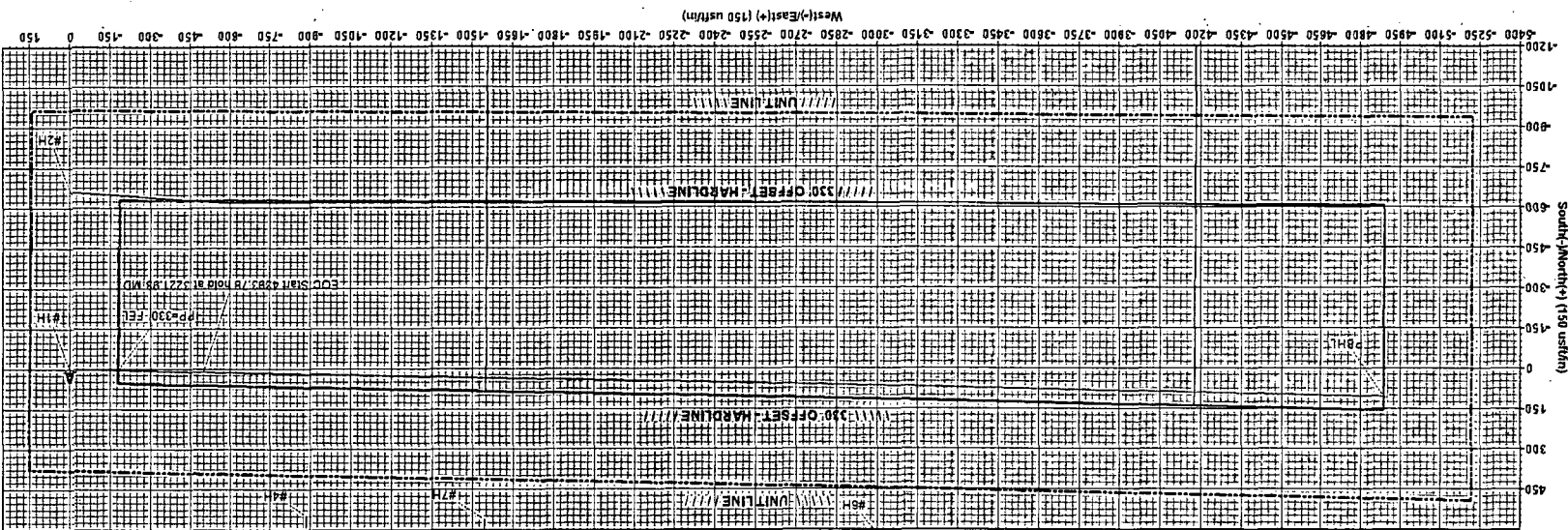
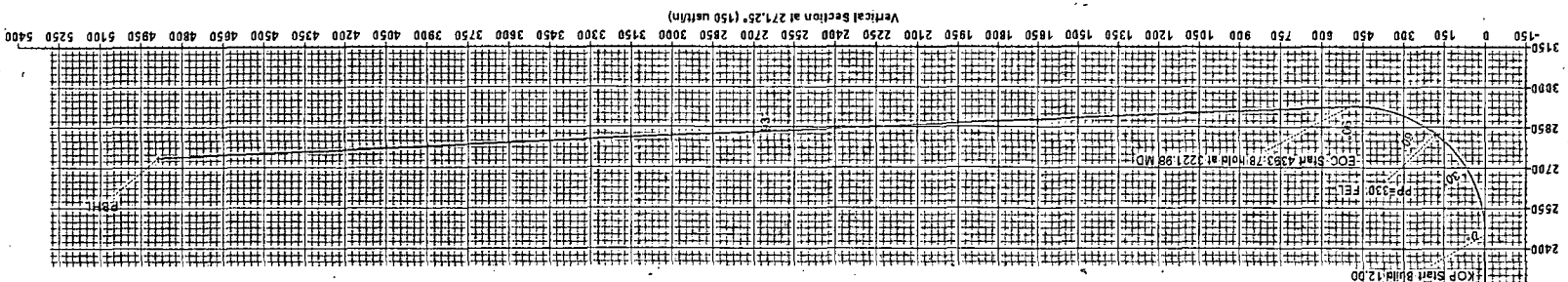
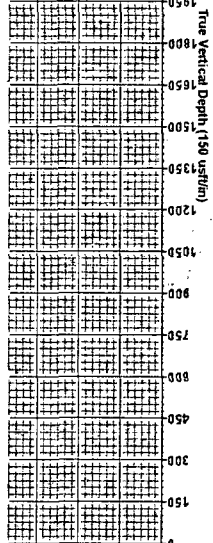
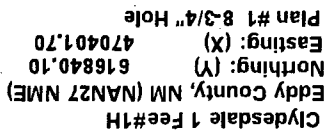
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,100.00	92.50	271.25	2,759.00	95.01	-4,371.59	4,372.62	0.00	0.00	0.00
7,200.00	92.50	271.25	2,754.64	97.18	-4,471.47	4,472.53	0.00	0.00	0.00
7,300.00	92.50	271.25	2,750.27	99.35	-4,571.35	4,572.43	0.00	0.00	0.00
7,400.00	92.50	271.25	2,745.91	101.53	-4,671.23	4,672.34	0.00	0.00	0.00
7,500.00	92.50	271.25	2,741.55	103.70	-4,771.12	4,772.24	0.00	0.00	0.00
7,600.00	92.50	271.25	2,737.19	105.87	-4,871.00	4,872.15	0.00	0.00	0.00
7,615.76	92.50	271.25	2,736.50	106.21	-4,886.74	4,887.89	0.00	0.00	0.00
PBHL									

Design Targets

Target Name	hit/miss target	Shape	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL	- plan hits target center	- Point	0.00	0.00	2,736.50	106.21	-4,886.74	616,946.30	465,515.40	32° 41' 45.721 N	104° 26' 43.551 W
PP=330' FEL	- plan hits target center	- Point	0.00	0.00	2,824.66	3.91	-180.00	616,844.02	470,221.72	32° 41' 44.755 N	104° 25' 48.475 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			Comment
2,451.14	2,451.14	+N/-S (usft)	0.00	+E/-W (usft)	0.00
3,221.98	2,928.15		10.83		-498.17
KOP Start Build 12.00					
EOC Start 4393.78 hold at 3221.98 MD					

[illegible]

PROJECT DETAILS: Eddy County, NM (MAN27 NME)
Modelle System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 30D1
System Datum: Mean Sea Level

SITE DETAILS: Cnydesdale 1 Fee
Site Centre Northing: 6149860.50
Easting: 470388.00
Positional Uncertainty: 0.00
Convergence: -0.05
Local North: Grid

Geometric Model: BUCM0712
Sample Date: 06-Dec-12
Magnetic Declination: 7.94°
Dip Angle from Horizontal: 50.40°
Magnetic Field Strength: 48534
To convert Magnetic Direction to a Grid Direction, Add 7.99°
To convert a Magnetic Direction to a True Direction, Add 7.94° East
To convert a True Direction to a Grid Direction, Add 0.05°

Zone Name: New Mexico East 3001
Local Origin: Wall #1H, Grid North
Latitude: 32° 47' 44.718 N
Longitude: 104° 25' 46.359 W
Grid East: 470401.70
Grid North: 676849.10
Scale Factor: 1.000

Map System: US State Plans 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866

Magnetic North, 7.99°
 Azimuth to Grid North
 True North, 0.05°
 Magnetic Field
 Strength: 0.0033 stat
 Dip Angle: 50.60°
 Decl: 7.620212
 To convert a True Direction to a Grid Direction, Add 7.99°
 To convert a Magnetic Direction to a Grid Direction, Add 0.05°
 Model: BGG62012



Scientific Drilling