

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

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 : 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 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 7433' 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:

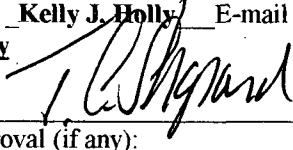
Rig Release Date:

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

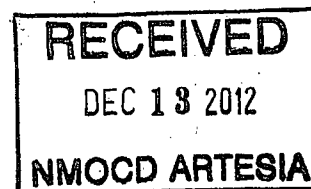
SIGNATURE  TITLE **Permitting Tech** DATE **12/12/2012**

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

For State Use Only

APPROVED BY:  TITLE **Geologist** DATE **12/13/2012**

Conditions of Approval (if any):





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

06 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	(°)
			Dip Angle
			(°)
			Field Strength
			(nT)
			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	
2,272.54	0.00	0.00	2,272.54	0.00	0.00	0.00	0.00	0.00	0.00	
3,022.54	90.00	271.25	2,750.00	10.37	-477.35	12.00	12.00	0.00	271.25	
7,432.96	90.00	271.25	2,750.00	106.21	-4,886.74	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 #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
2,272.54	0.00	0.00	2,272.54	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start Build 12.00									
2,300.00	3.30	271.25	2,299.98	0.02	-0.79	0.79	12.00	12.00	0.00
2,400.00	15.30	271.25	2,398.49	0.37	-16.91	16.91	12.00	12.00	0.00
2,500.00	27.30	271.25	2,491.49	1.16	-53.15	53.17	12.00	12.00	0.00
2,600.00	39.30	271.25	2,574.93	2.35	-107.94	107.96	12.00	12.00	0.00
2,700.00	51.30	271.25	2,645.14	3.89	-178.86	178.91	12.00	12.00	0.00
2,701.45	51.47	271.25	2,646.05	3.91	-180.00	180.04	12.00	12.00	0.00
PP=330° FEL									
2,800.00	63.30	271.25	2,699.07	5.71	-262.84	262.90	12.00	12.00	0.00
2,900.00	75.30	271.25	2,734.36	7.74	-356.19	356.27	12.00	12.00	0.00
3,000.00	87.30	271.25	2,749.47	9.89	-454.83	454.94	12.00	12.00	0.00
3,022.54	90.00	271.25	2,750.00	10.37	-477.35	477.46	12.00	12.00	0.00
EOC Start 4410.43 hold at 3022.54 MD									
3,100.00	90.00	271.25	2,750.00	12.06	-554.80	554.93	0.00	0.00	0.00
3,200.00	90.00	271.25	2,750.00	14.23	-654.78	654.93	0.00	0.00	0.00
3,300.00	90.00	271.25	2,750.00	16.40	-754.75	754.93	0.00	0.00	0.00
3,400.00	90.00	271.25	2,750.00	18.58	-854.73	854.93	0.00	0.00	0.00
3,500.00	90.00	271.25	2,750.00	20.75	-954.70	954.93	0.00	0.00	0.00
3,600.00	90.00	271.25	2,750.00	22.92	-1,054.68	1,054.93	0.00	0.00	0.00
3,700.00	90.00	271.25	2,750.00	25.10	-1,154.66	1,154.93	0.00	0.00	0.00
3,800.00	90.00	271.25	2,750.00	27.27	-1,254.63	1,254.93	0.00	0.00	0.00
3,900.00	90.00	271.25	2,750.00	29.44	-1,354.61	1,354.93	0.00	0.00	0.00
4,000.00	90.00	271.25	2,750.00	31.61	-1,454.59	1,454.93	0.00	0.00	0.00
4,100.00	90.00	271.25	2,750.00	33.79	-1,554.56	1,554.93	0.00	0.00	0.00
4,200.00	90.00	271.25	2,750.00	35.96	-1,654.54	1,654.93	0.00	0.00	0.00
4,300.00	90.00	271.25	2,750.00	38.13	-1,754.52	1,754.93	0.00	0.00	0.00
4,400.00	90.00	271.25	2,750.00	40.31	-1,854.49	1,854.93	0.00	0.00	0.00
4,500.00	90.00	271.25	2,750.00	42.48	-1,954.47	1,954.93	0.00	0.00	0.00
4,600.00	90.00	271.25	2,750.00	44.65	-2,054.44	2,054.93	0.00	0.00	0.00
4,700.00	90.00	271.25	2,750.00	46.82	-2,154.42	2,154.93	0.00	0.00	0.00
4,800.00	90.00	271.25	2,750.00	49.00	-2,254.40	2,254.93	0.00	0.00	0.00
4,900.00	90.00	271.25	2,750.00	51.17	-2,354.37	2,354.93	0.00	0.00	0.00
5,000.00	90.00	271.25	2,750.00	53.34	-2,454.35	2,454.93	0.00	0.00	0.00
5,100.00	90.00	271.25	2,750.00	55.52	-2,554.33	2,554.93	0.00	0.00	0.00
5,200.00	90.00	271.25	2,750.00	57.69	-2,654.30	2,654.93	0.00	0.00	0.00
5,300.00	90.00	271.25	2,750.00	59.86	-2,754.28	2,754.93	0.00	0.00	0.00
5,400.00	90.00	271.25	2,750.00	62.04	-2,854.26	2,854.93	0.00	0.00	0.00
5,500.00	90.00	271.25	2,750.00	64.21	-2,954.23	2,954.93	0.00	0.00	0.00
5,600.00	90.00	271.25	2,750.00	66.38	-3,054.21	3,054.93	0.00	0.00	0.00
5,700.00	90.00	271.25	2,750.00	68.55	-3,154.18	3,154.93	0.00	0.00	0.00
5,800.00	90.00	271.25	2,750.00	70.73	-3,254.16	3,254.93	0.00	0.00	0.00
5,900.00	90.00	271.25	2,750.00	72.90	-3,354.14	3,354.93	0.00	0.00	0.00
6,000.00	90.00	271.25	2,750.00	75.07	-3,454.11	3,454.93	0.00	0.00	0.00
6,100.00	90.00	271.25	2,750.00	77.25	-3,554.09	3,554.93	0.00	0.00	0.00
6,200.00	90.00	271.25	2,750.00	79.42	-3,654.07	3,654.93	0.00	0.00	0.00
6,300.00	90.00	271.25	2,750.00	81.59	-3,754.04	3,754.93	0.00	0.00	0.00
6,400.00	90.00	271.25	2,750.00	83.76	-3,854.02	3,854.93	0.00	0.00	0.00
6,500.00	90.00	271.25	2,750.00	85.94	-3,954.00	3,954.93	0.00	0.00	0.00
6,600.00	90.00	271.25	2,750.00	88.11	-4,053.97	4,054.93	0.00	0.00	0.00
6,700.00	90.00	271.25	2,750.00	90.28	-4,153.95	4,154.93	0.00	0.00	0.00
6,800.00	90.00	271.25	2,750.00	92.46	-4,253.93	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 #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)
6,900.00	90.00	271.25	2,750.00	94.63	-4,353.90	4,354.93	0.00	0.00	0.00
7,000.00	90.00	271.25	2,750.00	96.80	-4,453.88	4,454.93	0.00	0.00	0.00
7,100.00	90.00	271.25	2,750.00	98.97	-4,553.85	4,554.93	0.00	0.00	0.00
7,200.00	90.00	271.25	2,750.00	101.15	-4,653.83	4,654.93	0.00	0.00	0.00
7,300.00	90.00	271.25	2,750.00	103.32	-4,753.81	4,754.93	0.00	0.00	0.00
7,400.00	90.00	271.25	2,750.00	105.49	-4,853.78	4,854.93	0.00	0.00	0.00
7,432.96	90.00	271.25	2,750.00	106.21	-4,886.74	4,887.89	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)	
	Shape								Latitude Longitude
PP=330' FEL		0.00	0.00	2,646.05	3.91	-180.00	616,844.02	470,221.72	32° 41' 44.755 N 104° 25' 48.475 W
- plan hits target center									
- Point									
PBHL		0.00	0.00	2,750.00	106.21	-4,886.74	616,946.30	465,515.40	32° 41' 45.721 N 104° 26' 43.551 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
3,022.54	2,750.00	10.37	-477.35	EOC Start 4410.43 hold at 3022.54 MD

