

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

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)		WELL API NO. 30-015-40123
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☐ FEE ☒
2. Name of Operator COG Operating LLC		6. State Oil & Gas Lease No.
3. Address of Operator One Concho Center - 600 W Illinois Ave Midland, TX 79701		7. Lease Name or Unit Agreement Name Clydesdale 1 Fee
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		8. Well Number 3H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3417'		9. OGRID Number 229137
		10. Pool name or Wildcat Penasco Draw; SA-Yeso (Assoc) 50270

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 ☐ OTHER: Change BHL ☒	SUBSEQUENT REPORT OF: REMEDIAL WORK ☐ ALTERING CASING ☐ COMMENCE DRILLING OPNS. ☐ P AND A ☐ CASING/CEMENT JOB ☐ OTHER: ☐
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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 submitted APD for this well at this location:
SHL: 1700 FNL 150 FEL, Unit H
BHL: 1700 FNL 330 FWL, Unit E

COG Operating LLC respectfully requests permission to change the BHL to:
SHL: 1700 FNL 150 FEL, Unit H
BHL: 1753 FNL 330 FWL, Unit E

Revision is due to skewed section and avoiding a non-standard location.

A revised Directional Plan and C102 is attached for your review.

Spud Date:

Rig Release Date:

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

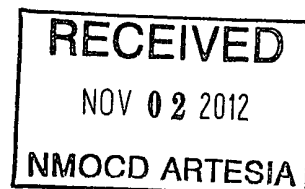
SIGNATURE [Signature] TITLE Permitting Tech DATE 11-1-12

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 11/6/2012

Conditions of Approval (if any):



DISTRICT I
1625 N French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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811 S First St., Artesia, NM 88210
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DISTRICT III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

RECEIVED

NOV 02 2012

INMOCD ARTESIA

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-40123	Pool Code 50270	Pool Name Penasco Draw; SA-Yeso (Assoc)
Property Code	Property Name CLYDESDALE 1 FEE	Well Number 3H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3417'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	1	19-S	25-E		1700	NORTH	150	EAST	EDDY

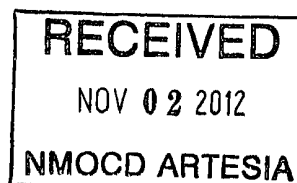
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	1	19-S	25-E		1753	NORTH	330	WEST	EDDY

Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

CORNER COORDINATES TABLE A - Y=615959.5 N, X=465180.6 E B - Y=615891.9 N, X=470544.8 E C - Y=614585.6 N, X=465174.0 E D - Y=614567.1 N, X=470535.1 E GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=615520.3 N X=470392.1 E LAT.=32.692127° N LONG.=104.429574° W BOTTOM HOLE LOCATION Y=615573.7 N X=465508.6 E	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>[Signature]</i> 11-1-12 Signature Date Kelly J..Holly Printed Name kholly@concho.com E-mail Address SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. FEBRUARY 22, 2012 Date of Survey Signature & Seal of Professional Surveyor: <i>[Signature]</i> RONALD J. EIDSON 3239 Certificate Number Gary G. Eidson 12641 Ronald J. Eidson 3239 AF JWSC W.O. 12 13 1750
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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:	From: Map	Northings:	614,960 50 usft
		Easting:	470,388 00 usft
		Latitude:	32° 41' 26 118 N
		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	Northings:
	+E/-W	4 10 usft	Easting:
			Latitude:
			Longitude:
Position Uncertainty	0 00 usft	Wellhead Elevation:	Ground Level:

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	10/10/2011	7 97
			Dip Angle
			(°)
			Field Strength
			(nT)
			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
	(usft)	(usft)	(usft)
	0 00	0 00	0 00
			Direction
			(°)
			270.63

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(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	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	12 00	0 00
2,400 00	15 30	270 63	2,398 49	0 18	-16.91	16 91	12 00	12 00	12 00	0 00
2,500 00	27 30	270 63	2,491 49	0.58	-53.16	53 17	12 00	12 00	12 00	0 00
2,600 00	39 30	270 63	2,574 93	1 18	-107 95	107 96	12 00	12 00	12 00	0 00
2,700 00	51 30	270 63	2,645 14	1.96	-178.90	178 91	12 00	12 00	12 00	0 00
2,701 41	51.46	270.63	2,646 02	1 97	-180.00	180 01	12 00	12 00	12 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	12 00	0 00
2,900 00	75 30	270 63	2,734 36	3 90	-356 25	356 27	12 00	12 00	12 00	0 00
3,000 00	87.30	270 63	2,749 47	4 97	-454 91	454 94	12.00	12 00	12 00	0 00
3,022 54	90 00	270.63	2,750 00	5 22	-477 44	477.47	12.00	12 00	12 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		

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	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									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PP=330' FSL	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
- plan hits target center									
- Point									
PBHL	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
- 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"/100'
3,022 54	2,750 00	10 38	-477 36	Land EOC hold 90 00°



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



Azimuths to Grid North
True North 0.05°
Magnetic North 8.03°
Magnetic Field
Strength 48769.5nT
Dip Angle 60.46°
Date 10/10/2011
Model IGRF2010

To convert a Magnetic Direction to a Grid Direction, Add 8.03°
To convert a True Direction to a Grid Direction, Add 0.05°

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	
2272.54	0.00	0.00	2272.54	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	Easting	470388.00
Positional Uncertainty	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°	

