

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. 30-015-40122
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 Tarpan 33 Fee
4. Well Location Unit Letter N : 150 feet from the SOUTH line and 1700 feet from the WEST line Section 33 Township 18S Range 26E NMPM County EDDY		8. Well Number 3H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3380'		9. OGRID Number 229137
		10. Pool name or Wildcat Atoka; Glorieta-Yeso 3250

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
OTHER: Change casing program ☒		OTHER: ☐	

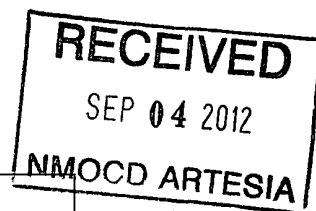
13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

COG proposes to drill a 11" hole to 1200' w/fresh water, run 8 5/8" 32# J-55 and cement to surface with 600 sacks. Drill a 7 7/8" hole to 2597' MD and kick off and drill curve to 2939' TVD 7682' MD. Run a 5 1/2" 17# L-80 casing to TD cement to surface with 800 sacks.

Directional Plan Attached.

Spud Date:

Rig Release Date:

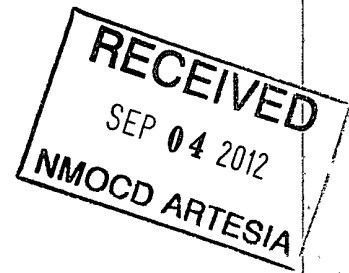


I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kacie Connally TITLE Permitting Tech DATE 8/31/12

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 9/4/2012
Conditions of Approval (if any):



COG Operating LLC

Eddy County, NM (NAN27 NME)

Tarpan 33 Fee #3H

OH

Plan #1 7-7/8" Hole

Surface: 150' FSL, 1700' FWL, Sec 33, T18S, R26E, Unit N

BHL: 380' FNL, 1700' FWL, Sec 33, T18S, R26E, Unit C

Standard Planning Report

31 August, 2012





Scientific Drilling International, Inc.
Planning Report



Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Well #3H
Company:	COG Operating LLC	TVD Reference:	RF @ 3393 00usft (JW #4)
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	RF @ 3393 00usft (JW #4)
Site:	Tarpan 33 Fee	North Reference:	Grid
Well:	#3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 7-7/8" 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	Tarpan 33 Fee			
Site Position:		Northing:	617,393 40 usft	Latitude: 32° 41' 50 280 N
From:	Map	Easting:	482,672 90 usft	Longitude: 104° 23' 22 771 W
Position Uncertainty:	0 00 usft	Slot Radius:	13-3/16 "	Grid Convergence: -0 03 °

Well	#3H			
Well Position	+N/-S	0 00 usft	Northing:	617,393 40 usft
	+E/-W	0 00 usft	Easting:	482,672 90 usft
Position Uncertainty	0 00 usft		Wellhead Elevation:	
			Ground Level:	3,380 00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	08/31/12	7 85	60 45	48,689

Design	Plan #1 7-7/8" Hole			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0 00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0 00	0 00	0 00	359 90

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	
2,596 84	0 00	0 00	2,596 84	0 00	0 00	0 00	0 00	0 00	0 00	
3,436 84	92 40	359 90	3,117 25	542 68	-0 92	11 00	11 00	-0 01	359 90	
7,682 32	92 40	359 90	2,939 45	4,784 43	-8 10	0 00	0 00	0 00	0 00	PBHL-Tarpan 33 Fee



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Planning Report



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Company:	COG Operating LLC	TVD Reference:	RF @ 3393 00usft (JW #4)
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	RF @ 3393 00usft (JW #4)
Site:	Tarpan 33 Fee	North Reference:	Grid
Well:	#3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 7-7/8" 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
2,596.84	0 00	0 00	2,596.84	0 00	0 00	0 00	0 00	0 00	0 00
KOP Start DLS 11.00 TFO 359.90									
2,600 00	0 35	359 90	2,600 00	0 01	0 00	0 01	11 00	11 00	0 00
2,700 00	11 35	359 90	2,699 33	10 18	-0 02	10 18	11 00	11 00	0 00
2,800 00	22 35	359 90	2,794 89	39.12	-0 07	39 12	11 00	11 00	0 00
2,900 00	33 35	359 90	2,883 17	85 76	-0 15	85 76	11 00	11 00	0 00
3,000 00	44 35	359 90	2,960 93	148 39	-0 25	148 39	11 00	11 00	0 00
3,100 00	55 35	359 90	3,025 32	224 71	-0 38	224 71	11 00	11 00	0 00
3,200 00	66 35	359 90	3,073 96	311 90	-0 53	311.90	11 00	11 00	0 00
3,300 00	77 35	359 90	3,105 06	406 78	-0 69	406 78	11 00	11 00	0 00
3,400 00	88 35	359.90	3,117 49	505.85	-0 86	505 85	11 00	11 00	0 00
3,436.84	92 40	359 90	3,117 25	542.68	-0 92	542 69	11 00	11.00	0 00
EOC Start 4245.48 hold at 3436.84 MD									
3,500 00	92 40	359 90	3,114.61	605 79	-1 03	605 79	0 00	0 00	0 00
3,600 00	92 40	359 90	3,110 42	705 70	-1 19	705 70	0 00	0 00	0 00
3,700 00	92 40	359 90	3,106 23	805 61	-1.36	805 61	0 00	0 00	0 00
3,800 00	92 40	359 90	3,102 04	905 52	-1 53	905.52	0 00	0 00	0 00
3,900 00	92 40	359 90	3,097 86	1,005 43	-1 70	1,005 44	0 00	0 00	0 00
4,000 00	92 40	359 90	3,093 67	1,105 35	-1 87	1,105 35	0 00	0 00	0 00
4,100 00	92 40	359 90	3,089 48	1,205 26	-2 04	1,205 26	0 00	0 00	0 00
4,200 00	92 40	359 90	3,085 29	1,305 17	-2 21	1,305 17	0 00	0 00	0 00
4,300 00	92 40	359 90	3,081 10	1,405 08	-2 38	1,405 09	0 00	0 00	0 00
4,400 00	92 40	359 90	3,076 92	1,505 00	-2 55	1,505 00	0 00	0 00	0 00
4,500 00	92 40	359 90	3,072 73	1,604 91	-2 72	1,604 91	0 00	0 00	0 00
4,600 00	92 40	359 90	3,068.54	1,704 82	-2 89	1,704 82	0 00	0 00	0 00
4,700 00	92 40	359 90	3,064 35	1,804 73	-3 06	1,804 73	0 00	0 00	0 00
4,800 00	92 40	359 90	3,060 16	1,904 64	-3 22	1,904 65	0 00	0 00	0 00
4,900 00	92 40	359 90	3,055 98	2,004 56	-3 39	2,004 56	0 00	0 00	0 00
5,000 00	92 40	359 90	3,051.79	2,104 47	-3 56	2,104 47	0 00	0 00	0 00
5,100 00	92 40	359 90	3,047 60	2,204 38	-3 73	2,204 38	0 00	0 00	0 00
5,200 00	92 40	359 90	3,043 41	2,304 29	-3 90	2,304 30	0 00	0 00	0 00
5,300 00	92 40	359 90	3,039 22	2,404 20	-4 07	2,404 21	0 00	0 00	0 00
5,400 00	92 40	359 90	3,035 04	2,504 12	-4 24	2,504 12	0 00	0 00	0 00
5,500 00	92 40	359 90	3,030 85	2,604 03	-4 41	2,604 03	0 00	0 00	0 00
5,600 00	92 40	359 90	3,026 66	2,703.94	-4 58	2,703 94	0 00	0 00	0 00
5,700 00	92 40	359.90	3,022 47	2,803 85	-4 75	2,803 86	0 00	0 00	0 00
5,800 00	92 40	359 90	3,018 28	2,903 77	-4 92	2,903 77	0 00	0 00	0 00
5,900 00	92 40	359 90	3,014 10	3,003 68	-5 09	3,003 68	0 00	0 00	0 00
6,000 00	92 40	359 90	3,009 91	3,103 59	-5 25	3,103 59	0 00	0 00	0 00
6,100 00	92 40	359 90	3,005 72	3,203 50	-5 42	3,203 51	0 00	0 00	0 00
6,200 00	92 40	359 90	3,001 53	3,303.41	-5 59	3,303 42	0 00	0 00	0 00
6,300 00	92 40	359 90	2,997 34	3,403.33	-5 76	3,403 33	0 00	0 00	0 00
6,400 00	92 40	359 90	2,993 15	3,503 24	-5 93	3,503 24	0 00	0 00	0 00
6,500 00	92 40	359 90	2,988 97	3,603 15	-6 10	3,603 16	0 00	0 00	0 00
6,600 00	92 40	359 90	2,984 78	3,703 06	-6 27	3,703.07	0 00	0 00	0 00
6,700 00	92 40	359.90	2,980 59	3,802 97	-6 44	3,802 98	0 00	0 00	0 00
6,800 00	92 40	359 90	2,976 40	3,902 89	-6 61	3,902 89	0 00	0 00	0 00
6,900 00	92 40	359.90	2,972 21	4,002 80	-6 78	4,002 80	0 00	0 00	0 00
7,000 00	92 40	359.90	2,968 03	4,102 71	-6 95	4,102 72	0 00	0 00	0 00
7,100 00	92 40	359 90	2,963 84	4,202 62	-7 12	4,202 63	0 00	0 00	0 00
7,200 00	92 40	359 90	2,959 65	4,302 53	-7 28	4,302 54	0 00	0 00	0 00
7,300 00	92 40	359 90	2,955 46	4,402 45	-7 45	4,402 45	0 00	0 00	0 00
7,400 00	92 40	359 90	2,951 27	4,502 36	-7 62	4,502 37	0 00	0 00	0 00



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Planning Report



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Company:	COG Operating LLC	TVD Reference:	RF @ 3393 00usft (JW #4)
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	RF @ 3393 00usft (JW #4)
Site:	Tarpan 33 Fee	North Reference:	Grid
Well:	#3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 7-7/8" 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)
7,500 00	92.40	359 90	2,947 09	4,602 27	-7 79	4,602 28	0 00	0 00	0 00
7,600 00	92.40	359 90	2,942 90	4,702 18	-7 96	4,702 19	0.00	0 00	0 00
7,682 32	92.40	359 90	2,939 45	4,784 43	-8 10	4,784 44	0.00	0 00	0 00
PBHL-Tarpan 33 Fee #3H									

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									
PBHL-Tarpan 33 Fee #3	0 00	360 00	2,939 45	4,784 43	-8 10	622,177 40	482,664 80	32° 42' 37 621 N	104° 23' 22 895 W
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,596 84	2,596 84	0 00	0.00	KOP Start DLS 11 00 TFO 359.90
3,436 84	3,117 25	542 68	-0 92	EOC Start 4245 48 hold at 3436 84 MD



Tarpan 33 Fee #3H
Eddy County, NM (NAN27 NME)
Northing: (Y) 617393.40
Easting: (X) 482672.90
Plan #1 7-7/8" Hole



Azimuths to Grid North -
True North 0 03°
Magnetic North 7 88°
Magnetic Field
Strength 48688 8snT
Dip Angle 60 45°
Date 08/31/2012
Model IGRF2010

To convert Magnetic North to Grid, Add 7 88°
To convert True North to Grid, Add 0 03°

WELL DETAILS.

		Ground Level	3380 00		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0 00	0 00	617393 40	482672 90	32° 41' 50 280 N	104° 23' 22 771 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Target
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
2596 84	0 00	0 00	2596 84	0 00	0 00	0 00	0 00	0 00	
3436 84	92 40	359 90	3117 25	542 68	-0 92	11 00	359 90	542 69	
7682 32	92 40	359 90	2939 45	4784 43	-8 10	0 00	0 00	4784 44	PBHL

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL-Tarpan 33 Fee #3H	2939 45	4784 43	-8 10	622177 40	482664 80

SITE DETAILS: Tarpan 33 Fee
Site Centre Northing 617393 40
Easting 482672 90

Positional Uncertainty 0 00
Convergence -0 03
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

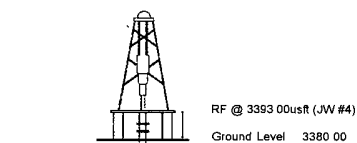
Map System US State Plane 1927 (Exact solution)
Datum NAD 1927 (NADCON CONUS)
Ellipsoid Clarke 1866
Zone Name New Mexico East 3001

Local Origin Well #3H, Grd North
Latitude 32° 41' 50 280 N
Longitude 104° 23' 22 771 W

Grd East 482672 90
Grd North 617393 40
Scale Factor 1 000

Geomagnetic Model IGRF2010
Sample Date 31-Aug-12
Magnetic Declination 7 85°
Dip Angle from Horizontal 60 45°
Magnetic Field Strength 48689

To convert Magnetic North to Grid, Add 7 88°
To convert Magnetic North to True North, Add 7 85° East
To convert True North to Grid, Add 0 03°



John Price
13 55, August 31 2012
Scientific Drilling
2034 Trade Drive
Midland, TX 79703

