

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. 30-015-39264
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 Hearse 36 State
8. Well Number 4H
9. OGRID Number 229137
10. Pool name or Wildcat N Seven Rivers; Glorieta-Yeso 97565
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3401' GR

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 **O** : **330** feet from the **SOUTH** line and **1700** feet from the **EAST** line
Section **36** 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 an 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" pilot hole to 4200' MD, log and plug back to KOP with 1000 sacks of class "C". Kick off at 2350' MD and drill curve to 2871' TVD 3177' MD. Drill lateral to 7244' MD, 2800' TVD. Run a 5 1/2" 17# L-80 casing to TD cement to surface with 800 sacks.

Directional Plan Attached.

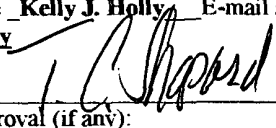
Spud Date: Rig Release Date:

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

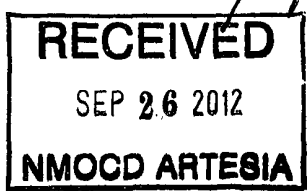
SIGNATURE  TITLE Permitting Tech DATE 09/26/12

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

For State Use Only

APPROVED BY:  TITLE Biologist DATE 9/26/2012

Conditions of Approval (if any):





COG Operating LLC

Eddy County, NM (NAN27 NME)

Hearse 36 State #4H

OH

Plan #3 8-3/4" Hole

Standard Planning Report

26 September, 2012





Scientific Drilling
Planning Report



Database: EDM 5000 1 Single User Db
Company: COG Operating LLC
Project: Eddy County, NM (NAN27 NME)
Site: Hearse 36 State
Well: #4H
Wellbore: OH
Design: Plan #3 8-3/4" Hole

Local Co-ordinate Reference: Well #4H
TVD Reference: RF @ 3414.00usft (JW #4)
MD Reference: RF @ 3414.00usft (JW #4)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	Hearse 36 State				
Site Position:		Northing:	585,861.50 usft	Latitude:	32° 36' 38.148 N
From:	Map	Easting:	468,775.50 usft	Longitude:	104° 26' 5.053 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.05 °

Well	#4H					
Well Position	+N-S	0.00 usft	Northing:	585,861.50 usft	Latitude:	32° 36' 38.148 N
	+E-W	0.00 usft	Easting:	468,775.50 usft	Longitude:	104° 26' 5.053 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,401.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/26/2012	7.85	60.36	48,624

Design	Plan #3 8-3/4" 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	0.00	

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)	TPO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,350.00	0.00	0.00	2,350.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,177.21	91.00	0.00	2,870.75	529.92	0.00	11.00	11.00	0.00	0.00	
7,241.22	91.00	0.00	2,799.80	4,593.31	0.00	0.00	0.00	0.00	0.00	PBHL



Scientific Drilling
Planning Report



Database: EDM 5000.1 Single User Db
Company: COG Operating LLC
Project: Eddy County, NM (NAN27 NME)
Site: Hearse 36 State
Well: #4H
Wellbore: OH
Design: Plan #3 8-3/4" Hole

Local Co-ordinates Reference: Well #4H
TVD Reference: RF @ 3414 00usft (JW #4)
MD Reference: RF @ 3414 00usft (JW #4)
North Reference: Grd
Survey Calculation Method: Minimum Curvature

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
2,350 00	0 00	0 00	2,350 00	0 00	0 00	0 00	0 00	0 00	0 00
KOP Start Build 11.00									
2,400 00	5 50	0 00	2,399 92	2 40	0 00	2 40	11 00	11 00	0 00
2,500 00	16 50	0 00	2,497 93	21 45	0 00	21 45	11 00	11 00	0 00
2,600 00	27 50	0 00	2,590 51	58 86	0 00	58 86	11 00	11 00	0 00
2,700 00	38 50	0 00	2,674 25	113 24	0 00	113 24	11 00	11 00	0 00
2,800 00	49 50	0 00	2,746 06	182 61	0 00	182 61	11 00	11 00	0 00
2,900 00	60 50	0 00	2,803 33	264 40	0 00	264 40	11 00	11 00	0 00
3,000 00	71 51	0 00	2,843 93	355 62	0 00	355 62	11 00	11 00	0 00
3,100 00	82 51	0 00	2,866 38	452 91	0 00	452 91	11 00	11 00	0 00
3,177 21	91 00	0 00	2,870 75	529 92	0 00	529 92	11 00	11 00	0 00
EOC Start 4064.01 hold at 3177.21 MD									
3,200 00	91 00	0 00	2,870 35	552 71	0 00	552 71	0 00	0 00	0 00
3,300 00	91 00	0 00	2,868 60	652 69	0 00	652 69	0 00	0 00	0 00
3,400 00	91 00	0 00	2,866 86	752 68	0 00	752 68	0 00	0 00	0 00
3,500 00	91 00	0 00	2,865 11	852 66	0 00	852 66	0 00	0 00	0 00
3,600 00	91 00	0 00	2,863 37	952 65	0 00	952 65	0 00	0 00	0 00
3,700 00	91 00	0 00	2,861 62	1,052 63	0 00	1,052 63	0 00	0 00	0 00
3,800 00	91 00	0 00	2,859 88	1,152 62	0 00	1,152 62	0 00	0 00	0 00
3,900 00	91 00	0 00	2,858 13	1,252 60	0 00	1,252 60	0 00	0 00	0 00
4,000 00	91 00	0 00	2,856 38	1,352 59	0 00	1,352 59	0 00	0 00	0 00
4,100 00	91 00	0 00	2,854 64	1,452 57	0 00	1,452 57	0 00	0 00	0 00
4,200 00	91 00	0 00	2,852 89	1,552 56	0 00	1,552 56	0 00	0 00	0 00
4,300 00	91 00	0 00	2,851 15	1,652 54	0 00	1,652 54	0 00	0 00	0 00
4,400 00	91 00	0 00	2,849 40	1,752 53	0 00	1,752 53	0 00	0 00	0 00
4,500 00	91 00	0 00	2,847 66	1,852 51	0 00	1,852 51	0 00	0 00	0 00
4,600 00	91 00	0 00	2,845 91	1,952 50	0 00	1,952 50	0 00	0 00	0 00
4,700 00	91 00	0 00	2,844 16	2,052 48	0 00	2,052 48	0 00	0 00	0 00
4,800 00	91 00	0 00	2,842 42	2,152 47	0 00	2,152 47	0 00	0 00	0 00
4,900 00	91 00	0 00	2,840 67	2,252 45	0 00	2,252 45	0 00	0 00	0 00
5,000 00	91 00	0 00	2,838 93	2,352 44	0 00	2,352 44	0 00	0 00	0 00
5,100 00	91 00	0 00	2,837 18	2,452 42	0 00	2,452 42	0 00	0 00	0 00
5,200 00	91 00	0 00	2,835 44	2,552 40	0 00	2,552 40	0 00	0 00	0 00
5,300 00	91 00	0 00	2,833 69	2,652 39	0 00	2,652 39	0 00	0 00	0 00
5,400 00	91 00	0 00	2,831 94	2,752 37	0 00	2,752 37	0 00	0 00	0 00
5,500 00	91 00	0 00	2,830 20	2,852 36	0 00	2,852 36	0 00	0 00	0 00
5,600 00	91 00	0 00	2,828 45	2,952 34	0 00	2,952 34	0 00	0 00	0 00
5,700 00	91 00	0 00	2,826 71	3,052 33	0 00	3,052 33	0 00	0 00	0 00
5,800 00	91 00	0 00	2,824 96	3,152 31	0 00	3,152 31	0 00	0 00	0 00
5,900 00	91 00	0 00	2,823 21	3,252 30	0 00	3,252 30	0 00	0 00	0 00
6,000 00	91 00	0 00	2,821 47	3,352 28	0 00	3,352 28	0 00	0 00	0 00
6,100 00	91 00	0 00	2,819 72	3,452 27	0 00	3,452 27	0 00	0 00	0 00
6,200 00	91 00	0 00	2,817 98	3,552 25	0 00	3,552 25	0 00	0 00	0 00
6,300 00	91 00	0 00	2,816 23	3,652 24	0 00	3,652 24	0 00	0 00	0 00
6,400 00	91 00	0 00	2,814 49	3,752 22	0 00	3,752 22	0 00	0 00	0 00
6,500 00	91 00	0 00	2,812 74	3,852 21	0 00	3,852 21	0 00	0 00	0 00
6,600 00	91 00	0 00	2,810 99	3,952 19	0 00	3,952 19	0 00	0 00	0 00
6,700 00	91 00	0 00	2,809 25	4,052 18	0 00	4,052 18	0 00	0 00	0 00
6,800 00	91 00	0 00	2,807 50	4,152 16	0 00	4,152 16	0 00	0 00	0 00
6,900 00	91 00	0 00	2,805 76	4,252 15	0 00	4,252 15	0 00	0 00	0 00
7,000 00	91 00	0 00	2,804 01	4,352 13	0 00	4,352 13	0 00	0 00	0 00
7,100 00	91 00	0 00	2,802 27	4,452 12	0 00	4,452 12	0 00	0 00	0 00
7,200 00	91 00	0 00	2,800 52	4,552 10	0 00	4,552 10	0 00	0 00	0 00



Scientific Drilling
Planning Report



Database: EDM 5000 1 Single User Db
 Company: COG Operating LLC
 Project: Eddy County, NM (NAN27 NME)
 Site: Hearse 36 State
 Well: #4H
 Wellbore: OH
 Design: Plan #3 8-3/4" Hole

Local Co-ordinate Reference: Well #4H
 TVD Reference: RF @ 3414 00usft (JW #4)
 MD Reference: RF @ 3414 00usft (JW #4)
 North Reference: Grd
 Survey Calculation Method: Minimum Curvature

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)
7,241.22	91.00	0.00	2,799.80	4,593.31	0.00	4,593.31	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
- hit/miss target									
- Shape									
PBHL	0.00	360.00	2,799.80	4,593.31	0.00	590,454.40	468,775.50	32° 37' 23.599 N	104° 26' 5.104 W
- plan hits target center									
- Point									

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,415.00	0.00	TL		-1.00	0.00

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
2,350.00	2,350.00	0.00	0.00	KOP Start Build 11.00
3,177.21	2,870.75	529.92	0.00	EOC Start 4064.01 hold at 3177.21 MD



Hearse 36 State #4H
 Eddy County, NM (NAN27 NME)
 Northing: (Y) 585861.50
 Easting: (X) 468775.50
 Plan #3 8-3/4" Hole



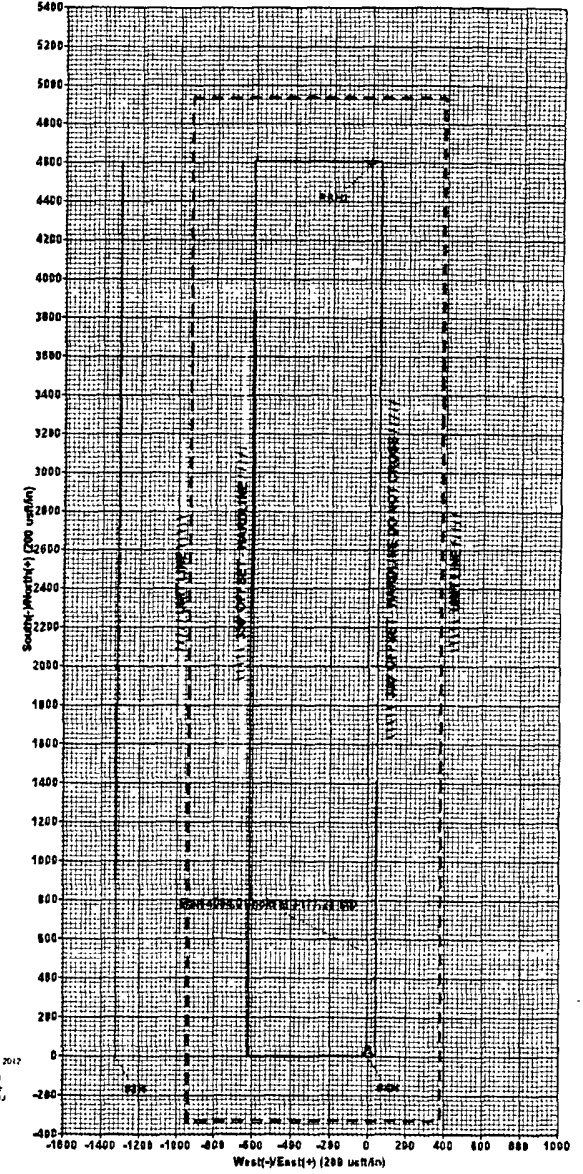
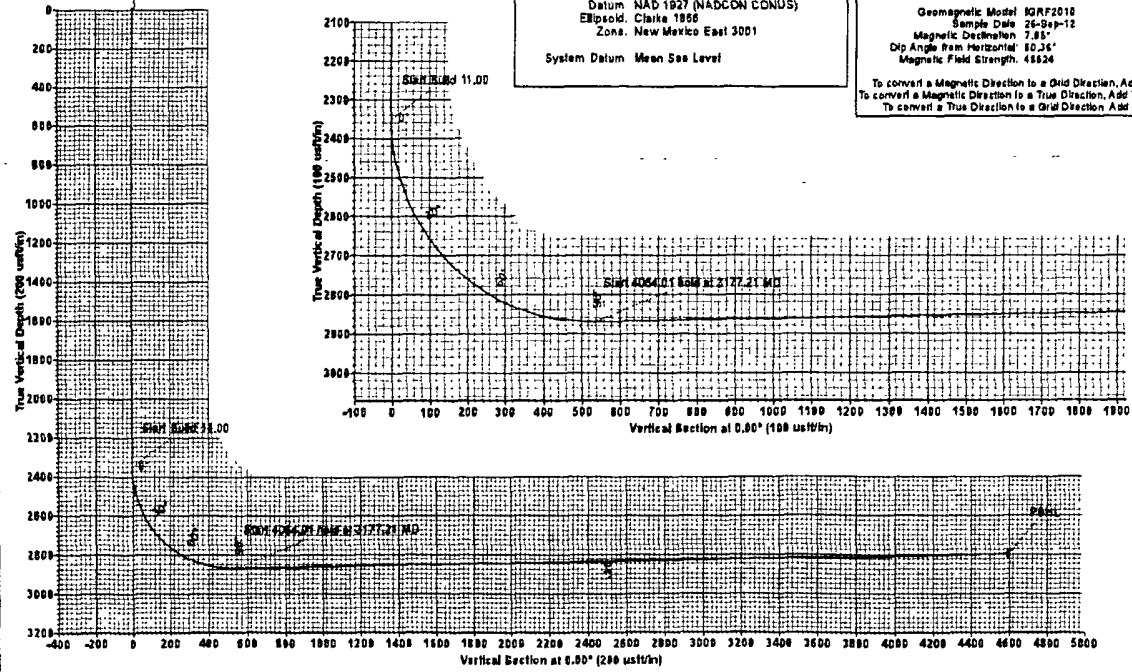
Azimuth to Grid North
 True North 0.05°
 Magnetic North 7.81°
 Magnetic Field
 Strength 48524.2nT
 Dip Angle 68.38°
 Date 9/26/2012
 Model IGRF2010

To convert a Magnetic Direction to a Grid Direction, Add 7.91°
 To convert a True Direction to a Grid Direction, Add 0.05°

WELL DETAILS:						
+N-S	+E-W	Ground Level	3401.00			
0.00	0.00	Northing	585861.50	Easting	468775.50	Latitude Longitude
					32° 36' 38.148 N	104° 26' 5.053 W
SECTION DETAILS						
MD	Inc	Azi	TVD	+N-S	+E-W	Flag TFace VSect Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00 0.00
2350.00	0.00	0.00	2350.00	0.00	0.00	0.00 0.00 0.00
1177.21	81.00	0.00	2870.75	528.92	0.00	11.00 0.00 329.92
7241.22	81.00	0.00	2769.80	4593.31	0.00	0.00 0.00 4593.31 PBHL
DESIGN TARGET DETAILS						
Name	TVD	+N-S	+E-W	Northing	Easting	
PBHL	2769.80	4593.31	0.00	580454.40	468775.50	
SITE DETAILS: Hearse 36 State				Map System: US State Plane 1927 (Exact solution)		
Site Centre Northing 585861.50				Datum: NAD 1927 (NADCON CONUS)		
Easting 468775.50				Ellipsoid: Clarke 1866		
Positional Uncertainty 0.00				Zone Name: New Mexico East 3001		
Convergence -0.05				Local Origin: Well #4H Grid North		
Local North Grid				Latitude: 32° 36' 38.148 N		
				Longitude: 104° 26' 5.053 W		
				Grid East: 468775.50		
				Grid North: 585861.50		
				Scale Factor: 1.000		
PROJECT DETAILS: Eddy County NM (NAN27 NME)				Geomagnetic Model: IGRF2010		
Geodetic System: US State Plane 1927 (Exact solution)				Sample Date: 26-Sep-12		
Datum: NAD 1927 (NADCON CONUS)				Magnetic Declination: 7.85°		
Ellipsoid: Clarke 1866				Dip Angle from Horizontal: 68.38°		
Zone: New Mexico East 3001				Magnetic Field Strength: 48524		
System Datum: Mean Sea Level				To convert a Magnetic Direction to a Grid Direction, Add 7.91° To convert a Magnetic Direction to a True Direction, Add 7.85° East To convert a True Direction to a Grid Direction, Add 0.05°		



RF @ 3414.00surf (JW #)
 Ground Level: 3401.00



JUL 26 PM
 11:24 Reprinted 26 2012
 Scientific Drilling
 2104 Trans Drive
 Midland TX 79701