

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

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-39813	
5. Indicate Type of Lease STATE ☐ FEE ☒	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name Bradley 8 Fee	
8. Well Number 4H	
9. OGRID Number 229137	
10. Pool name or Wildcat Atoka; Glorieta-Yeso 3250	

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 **P** : **160** feet from the **SOUTH** line and **1040** feet from the **EAST** line

Section **8** Township **19S** Range **26E** NMPM County **EDDY**

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3370'

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 BHL**



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 submitted APD for this well at this location:

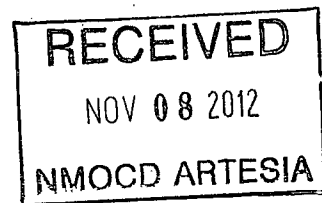
SHL: 160 FSL 1040 FEL, Unit P

BHL: 330 FNL 1040 FEL, Unit A

COG Operating LLC respectfully requests permission to change the BHL to:

SHL: 160 FSL 1040 FEL, Unit P

BHL: 330 FNL 986 FEL, Unit A



Revision is due to skewed section and avoiding a non-standard location. Estimated Completed Interval is within the 330' hard line due to skewed section.

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 TITLE **Permitting Tech** DATE **11/7/2012**

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 **11/15/2012**

Conditions of Approval (if any):

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

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

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

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-39813	Pool Code 3250	Pool Name Atoka; Glorieta-Yeso
Property Code	Property Name BRADLEY 8 FEE	Well Number 4H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3370'

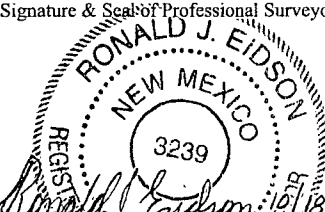
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	8	19-S	26-E		160	SOUTH	1040	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
A	8	19-S	26-E		330	NORTH	986	EAST	EDDY
Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.						

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

GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=606800.0 N X=480067.8 E LAT.=32.668177° N LONG.=104.398106° W BOTTOM HOLE LOCATION Y=611644.2 N X=480020.6 E	CORNER COORDINATES TABLE A - Y=611974.0 N, X=479684.1 E B - Y=611974.5 N, X=480999.1 E C - Y=606641.7 N, X=479788.6 E D - Y=606633.7 N, X=481111.2 E Estimated Completed Interval: 543 FSL + 1000 FEL	GRD. AZ. = 359°26'29" HORIZ. DIST. = 4845.8 160' 1040'	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.  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. NOVEMBER 4, 2011 Date of Survey Signature & Seal of Professional Surveyor:  Certificate Number Gary G. Eidson 12641 Ronald J. Eidson 3239 AF WSC W.O.: 12.13.1747

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT General Land Office Records

Search Documents Reference Center Support Shopping Cart

Search Documents Results List Survey Details

DM ID: 123634 Survey Type: Original Survey State: New Mexico

Survey Plat Details Plat Image Related Documents

Sheet: 1 Description: ---

TOWNSHIP N: 19 SOUTH RANGE N: 26 EAST OF THE NEW MEXICO P

JavaScript Viewer Plugin Viewer Basic Viewer

Note: We are currently experiencing problems with image conversions for our Plat images. We are working to have this resolved.
The plat PDF and JP2 links have been temporarily disabled, but the SID format is still available for download.
To view SID files, you can use the free GeoViewer from LizardTech. Check out our [Viewing And Printing Images Guide](#) for more information.

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COG Operating LLC

Eddy County, NM (NAN27 NME)

Bradley 8 Fee #4H

OH

Plan #3 8-3/4" Hole

Surface: 160' FSL, 1040' FEL, Sec 8, T19S, R26E, Unit P

PP: 543' FSL, 1000' FEL, Sec 8, T19S, R26E, Unit P

BHL: 330' FNL, 986' FEL, Sec 8, T19S, R26E, Unit A

Standard Planning Report

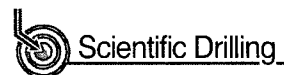
01 November, 2012





Scientific Drilling

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #4H
Company:	COG Operating LLC	TVD Reference:	GL Elev @ 3370.00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL Elev @ 3370.00usft
Site:	Bradley 8 Fee	North Reference:	Grid
Well:	#4H	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:	Bradley 8 Fee		
Site Position:		Northing:	606,805.40 usft
From:	Map	Easting:	477,518.50 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 40' 5.474 N
		Longitude:	104° 23' 53.005 W
		Grid Convergence:	-0.04 °

Well:	#4H		
Well Position	+N/-S	-5.40 usft	Northing: 606,800.00 usft
	+E/-W	2,549.53 usft	Easting: 480,067.80 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level: 3,370.00 usft
		Latitude:	32° 40' 5.437 N
		Longitude:	104° 23' 53.181 W

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	BGGM2012	11/1/2012	(°)
			7.93
			Dip Angle
			(°)
			60.38
			Field Strength
			(nT)
			48,634

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: 359.44
			(°)

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	



Scientific Drilling
Planning Report



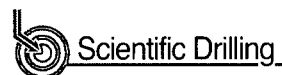
Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #4H
Company:	COG Operating LLC	TVD Reference:	GL Elev @ 3370.00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL Elev @ 3370.00usft
Site:	Bradley 8 Fee	North Reference:	Grid
Well:	#4H	Survey Calculation Method:	Minimum Curvature
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
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°/100'									
2,300.00	3.30	6.00	2,299.98	0.79	0.08	0.78	12.00	12.00	0.00
2,400.00	15.30	6.00	2,398.49	16.82	1.77	16.80	12.00	12.00	0.00
2,500.00	27.30	6.00	2,491.49	52.87	5.56	52.82	12.00	12.00	0.00
2,600.00	39.30	6.00	2,574.93	107.37	11.28	107.25	12.00	12.00	0.00
2,700.00	51.30	6.00	2,645.14	177.92	18.70	177.73	12.00	12.00	0.00
2,800.00	63.30	6.00	2,699.08	261.45	27.48	261.17	12.00	12.00	0.00
2,900.00	75.30	6.00	2,734.37	354.31	37.24	353.93	12.00	12.00	0.00
2,929.57	78.84	6.00	2,740.98	382.97	40.25	382.56	12.00	12.00	0.00
PP=330' FSL									
3,000.00	87.30	6.00	2,749.47	452.44	47.55	451.96	12.00	12.00	0.00
3,022.54	90.00	6.00	2,750.00	474.85	49.91	474.34	12.00	12.00	0.00
Land EOC hold 90.00°									
3,100.00	90.00	3.68	2,750.00	552.03	56.44	551.45	3.00	0.00	-3.00
3,200.00	90.00	0.68	2,750.00	651.94	60.24	651.33	3.00	0.00	-3.00
3,272.09	90.00	358.51	2,750.00	724.03	59.73	723.41	3.00	0.00	-3.00
3,300.00	90.00	358.51	2,750.00	751.93	59.00	751.32	0.00	0.00	0.00
3,400.00	90.00	358.51	2,750.00	851.90	56.41	851.31	0.00	0.00	0.00
3,500.00	90.00	358.51	2,750.00	951.86	53.82	951.29	0.00	0.00	0.00
3,600.00	90.00	358.51	2,750.00	1,051.83	51.22	1,051.28	0.00	0.00	0.00
3,700.00	90.00	358.51	2,750.00	1,151.79	48.63	1,151.27	0.00	0.00	0.00
3,800.00	90.00	358.51	2,750.00	1,251.76	46.03	1,251.25	0.00	0.00	0.00
3,900.00	90.00	358.51	2,750.00	1,351.73	43.44	1,351.24	0.00	0.00	0.00
4,000.00	90.00	358.51	2,750.00	1,451.69	40.84	1,451.23	0.00	0.00	0.00
4,100.00	90.00	358.51	2,750.00	1,551.66	38.25	1,551.21	0.00	0.00	0.00
4,200.00	90.00	358.51	2,750.00	1,651.63	35.66	1,651.20	0.00	0.00	0.00
4,300.00	90.00	358.51	2,750.00	1,751.59	33.06	1,751.19	0.00	0.00	0.00
4,400.00	90.00	358.51	2,750.00	1,851.56	30.47	1,851.17	0.00	0.00	0.00
4,500.00	90.00	358.51	2,750.00	1,951.53	27.87	1,951.16	0.00	0.00	0.00
4,600.00	90.00	358.51	2,750.00	2,051.49	25.28	2,051.15	0.00	0.00	0.00
4,700.00	90.00	358.51	2,750.00	2,151.46	22.69	2,151.13	0.00	0.00	0.00
4,800.00	90.00	358.51	2,750.00	2,251.42	20.09	2,251.12	0.00	0.00	0.00
4,900.00	90.00	358.51	2,750.00	2,351.39	17.50	2,351.11	0.00	0.00	0.00
5,000.00	90.00	358.51	2,750.00	2,451.36	14.90	2,451.10	0.00	0.00	0.00
5,100.00	90.00	358.51	2,750.00	2,551.32	12.31	2,551.08	0.00	0.00	0.00
5,200.00	90.00	358.51	2,750.00	2,651.29	9.71	2,651.07	0.00	0.00	0.00
5,300.00	90.00	358.51	2,750.00	2,751.26	7.12	2,751.06	0.00	0.00	0.00
5,400.00	90.00	358.51	2,750.00	2,851.22	4.53	2,851.04	0.00	0.00	0.00
5,500.00	90.00	358.51	2,750.00	2,951.19	1.93	2,951.03	0.00	0.00	0.00
5,600.00	90.00	358.51	2,750.00	3,051.15	-0.66	3,051.02	0.00	0.00	0.00
5,700.00	90.00	358.51	2,750.00	3,151.12	-3.26	3,151.00	0.00	0.00	0.00
5,800.00	90.00	358.51	2,750.00	3,251.09	-5.85	3,250.99	0.00	0.00	0.00
5,900.00	90.00	358.51	2,750.00	3,351.05	-8.44	3,350.98	0.00	0.00	0.00
6,000.00	90.00	358.51	2,750.00	3,451.02	-11.04	3,450.96	0.00	0.00	0.00
6,100.00	90.00	358.51	2,750.00	3,550.99	-13.63	3,550.95	0.00	0.00	0.00
6,200.00	90.00	358.51	2,750.00	3,650.95	-16.23	3,650.94	0.00	0.00	0.00
6,300.00	90.00	358.51	2,750.00	3,750.92	-18.82	3,750.92	0.00	0.00	0.00
6,400.00	90.00	358.51	2,750.00	3,850.89	-21.42	3,850.91	0.00	0.00	0.00
6,500.00	90.00	358.51	2,750.00	3,950.85	-24.01	3,950.90	0.00	0.00	0.00
6,600.00	90.00	358.51	2,750.00	4,050.82	-26.60	4,050.89	0.00	0.00	0.00
6,700.00	90.00	358.51	2,750.00	4,150.78	-29.20	4,150.87	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: Bradley 8 Fee
Well: #4H
Wellbore: OH
Design: Plan #3 8-3/4" Hole

Local Co-ordinate Reference: Well #4H
TVD Reference: GL Elev @ 3370.00usft
MD Reference: GL Elev @ 3370.00usft
North Reference: Grid
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)
6,800.00	90.00	358.51	2,750.00	4,250.75	-31.79	4,250.86	0.00	0.00	0.00
6,900.00	90.00	358.51	2,750.00	4,350.72	-34.39	4,350.85	0.00	0.00	0.00
7,000.00	90.00	358.51	2,750.00	4,450.68	-36.98	4,450.83	0.00	0.00	0.00
7,100.00	90.00	358.51	2,750.00	4,550.65	-39.58	4,550.82	0.00	0.00	0.00
7,200.00	90.00	358.51	2,750.00	4,650.62	-42.17	4,650.81	0.00	0.00	0.00
7,300.00	90.00	358.51	2,750.00	4,750.58	-44.76	4,750.79	0.00	0.00	0.00
7,394.09	90.00	358.51	2,750.00	4,844.64	-47.20	4,844.87	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	2,740.99	383.00	40.25	607,182.97	480,108.05	32° 40' 9.227 N	104° 23' 52.713 W
- plan hits target center									
- Point									
PBHL	0.00	0.00	2,750.00	4,844.64	-47.20	611,644.20	480,020.60	32° 40' 53.373 N	104° 23' 53.768 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2,272.54	2,272.54	0.00	0.00	KOP Start Build 12.00°/100'
3,022.54	2,750.00	477.45	-4.65	Land EOC hold 90.00°



Bradley 8 Fee #4H
Eddy County, NM (NAN27 NME)
Northing: (Y) 606800.00
Easting: (X) 480067.80
Plan #3 8-3/4" Hole



Azimuths to Grid North
True North: 0.04°
Magnetic North: 7.97°

Magnetic Field
Strength: 48633.75nT
Dip Angle: 60.38°
Date: 11/1/2012
Model: BGGM2012

To convert a Magnetic Direction to a Grid Direction, Add 7.97°
To convert a True Direction to a Grid Direction, Add 0.03°

WELL DETAILS:						
			Ground Level:	3370.00		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	606800.00	480067.80	32° 40' 5.437 N	104° 23' 53.181 W	

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	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	

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
PP=330° FSL	2740.99	383.00	40.25	607182.97	480108.05
PBHL	2750.00	4844.64	-47.20	611644.20	480020.60

SITE DETAILS: Bradley 8 Fee
Site Centre Northing: 606805.40
Easting: 477518.50

Positional Uncertainty: 0.00
Convergence: -0.04
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

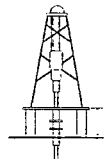
Local Origin: Well #4H, Grid North

Latitude: 32° 40' 5.437 N
Longitude: 104° 23' 53.181 W

Grid East: 480067.80
Grid North: 606800.00
Scale Factor: 1.000

Geomagnetic Model: BGGM2012
Sample Date: 01-Nov-12
Magnetic Declination: 7.93°
Dip Angle from Horizontal: 60.38°
Magnetic Field Strength: 48634

To convert a Magnetic Direction to a Grid Direction, Add 7.97°
To convert a Magnetic Direction to a True Direction, Add 7.93° East
To convert a True Direction to a Grid Direction, Add 0.03°



GL Elev @ 3370.00usft
Ground Level

Julio Pita
14.33 November 01 2012
Scientific Drilling
2034 Trade Drive
Mallard, TX 79703

