

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 30-015-39812
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 Bradley 8 Fee
4. Well Location Unit Letter O : 150 feet from the SOUTH line and 2260 feet from the EAST line Section 8 Township 19S Range 26E NMPM County EDDY		8. Well Number 3H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3373'		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 BHL ☒		OTHER ☐	

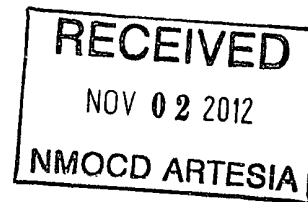
13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 19.15 7.14 NMAC For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

COG Operating LLC submitted APD for this well at this location:
SHL: 150 FSL 2260 FEL, Unit O
BHL: 330 FNL 2260 FEL, Unit B

COG Operating LLC respectfully requests permission to change the BHL to:
SHL: 150 FSL 2260 FEL, Unit O
BHL: 330 FNL 2301 FEL, Unit B

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 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 TITLE **Geologist** DATE **11/6/2012**

Conditions of Approval (if any):

GEODETIC COORDINATES
NAD 27 NME

SURFACE LOCATION
Y=606797 5 N
X=478847 8 E

LAT = 32 668168" N
LONG = 104 402071" W

BOTTOM HOLE LOCATION
Y=611643 7 N
X=478705 1 E

CORNER COORDINATES TABLE

A	- Y=611973 5 N, X=478369 2 E
B	- Y=611974 0 N, X=479684 1 E
C	- Y=606649.7 N, X=478466 0 E
D	- Y=606641 7 N, X=479788 6 E

Estimated Completed Interval:
330 FSL +
2260 FEL

GRID AZ = 358°18'49"
HORIZ DIST = 4849 7'

Producing Area

Project Area

330'

2301'

150'

2260'

SL

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

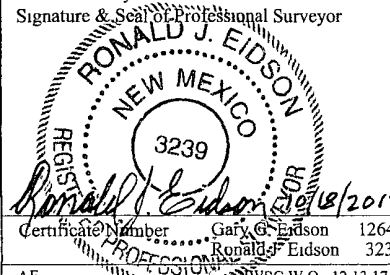
SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plot 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 3, 2011

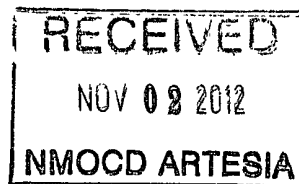
Date of Survey

Signature & Seal of Professional Surveyor



Certificate Number Gary C. Eidson 12641
Ronald J. Eidson 3239

AF JWSC W O 12 13 1746



COG Operating LLC

Eddy County, NM (NAN27 NME)

Bradley 8 Fee #3H

OH

Plan #2 8-3/4" Hole

Surface: 150' FSL, 2260' FEL, Sec 8, T19S, R26E, Unit O

PP: 330' FSL, 2260' FEL, Sec 8, T19S, R26E, Unit O

BHL: 330' FNL, 2301' FEL, Sec 8, T19S, R26E, Unit B

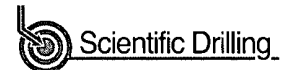
Standard Planning Report

01 November, 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 @ 3373 00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL Elev @ 3373 00usft
Site:	Bradley 8 Fee	North Reference:	Grid
Well:	#3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2 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		Northings:	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° 24' 23 005 W
		Grid Convergence:	-0 04 °

Well	#3H					
Well Position	+N/-S	-7 90 usft	Northings:	606,797 50 usft	Latitude:	32° 40' 5 405 N
	+E/-W	1,329 42 usft	Easting:	478,847 80 usft	Longitude:	104° 24' 7 454 W
Position Uncertainty		0 00 usft	Wellhead Elevation:		Ground Level:	3,373 00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2012	11/1/2012	7 94	60 38	48,633

Design:	Plan #2 8-3/4" Hole			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth	0 00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0 00	0 00	0 00	358 31

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	358 31	2,750 00	477 26	-14 05	12 00	12 00	0 00	358 31	
7,393 81	90 00	358 31	2,750 00	4,846 64	-142 71	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 @ 3373 00usft
Project	Eddy County, NM (NAN27 NME)	MD Reference	GL Elev @ 3373 00usft
Site	Bradley 8 Fee	North Reference	Grid
Well	#3H	Survey Calculation Method	Minimum Curvature
Wellbore	OH		
Design	Plan #2 8-3/4" Hole		

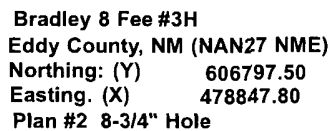
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
2,272 54	0 00	0 00	2,272 54	0 00	0 00	0 00	0 00	0 00	0 00	
KOP Start Build 12.00°/100'										
2,300 00	3 30	358 31	2,299 98	0 79	-0 02	0 79	12 00	12 00	0 00	
2,400 00	15 30	358 31	2,398 49	16 91	-0 50	16 91	12 00	12 00	0 00	
2,500 00	27 30	358 31	2,491 49	53 14	-1 56	53 17	12 00	12 00	0 00	
2,600 00	39 30	358 31	2,574 93	107 91	-3 18	107 96	12 00	12 00	0 00	
2,700 00	51 30	358 31	2,645 14	178 83	-5 27	178 91	12 00	12 00	0 00	
2,701 49	51 48	358 31	2,646 07	180 00	-5 30	180 07	12 00	12 00	0 00	
PP=330' FSL										
2,800 00	63 30	358 31	2,699 07	262 79	-7 74	262 90	12 00	12 00	0 00	
2,900 00	75 30	358 31	2,734 36	356 12	-10 49	356 27	12 00	12 00	0 00	
3,000 00	87 30	358 31	2,749 47	454 74	-13 39	454 94	12 00	12 00	0 00	
3,022 54	90 00	358 31	2,750 00	477 26	-14 05	477 47	12 00	12 00	0 00	
Land EOC hold 90.00°										
3,100 00	90 00	358 31	2,750 00	554 69	-16 33	554 93	0 00	0 00	0 00	
3,200 00	90 00	358 31	2,750 00	654 65	-19 28	654 93	0 00	0 00	0 00	
3,300 00	90 00	358 31	2,750 00	754 60	-22 22	754 93	0 00	0 00	0 00	
3,400 00	90 00	358 31	2,750 00	854 56	-25 16	854 93	0 00	0 00	0 00	
3,500 00	90 00	358 31	2,750 00	954 52	-28 11	954 93	0 00	0 00	0 00	
3,600 00	90 00	358 31	2,750 00	1,054 47	-31 05	1,054 93	0 00	0 00	0 00	
3,700 00	90 00	358 31	2,750 00	1,154 43	-33 99	1,154 93	0 00	0 00	0 00	
3,800 00	90 00	358 31	2,750 00	1,254 39	-36 94	1,254 93	0 00	0 00	0 00	
3,900 00	90 00	358 31	2,750 00	1,354 34	-39 88	1,354 93	0 00	0 00	0 00	
4,000 00	90 00	358 31	2,750 00	1,454 30	-42 82	1,454 93	0 00	0 00	0 00	
4,100 00	90 00	358 31	2,750 00	1,554 26	-45 77	1,554 93	0 00	0 00	0 00	
4,200 00	90 00	358 31	2,750 00	1,654 21	-48 71	1,654 93	0 00	0 00	0 00	
4,300 00	90 00	358 31	2,750 00	1,754 17	-51 65	1,754 93	0 00	0 00	0 00	
4,400 00	90 00	358 31	2,750 00	1,854 13	-54 60	1,854 93	0 00	0 00	0 00	
4,500 00	90 00	358 31	2,750 00	1,954 08	-57 54	1,954 93	0 00	0 00	0 00	
4,600 00	90 00	358 31	2,750 00	2,054 04	-60 48	2,054 93	0 00	0 00	0 00	
4,700 00	90 00	358 31	2,750 00	2,154 00	-63 43	2,154 93	0 00	0 00	0 00	
4,800 00	90 00	358 31	2,750 00	2,253 95	-66 37	2,254 93	0 00	0 00	0 00	
4,900 00	90 00	358 31	2,750 00	2,353 91	-69 31	2,354 93	0 00	0 00	0 00	
5,000 00	90 00	358 31	2,750 00	2,453 87	-72 26	2,454 93	0 00	0 00	0 00	
5,100 00	90 00	358 31	2,750 00	2,553 82	-75 20	2,554 93	0 00	0 00	0 00	
5,200 00	90 00	358 31	2,750 00	2,653 78	-78 14	2,654 93	0 00	0 00	0 00	
5,300 00	90 00	358 31	2,750 00	2,753 74	-81 09	2,754 93	0 00	0 00	0 00	
5,400 00	90 00	358 31	2,750 00	2,853 69	-84 03	2,854 93	0 00	0 00	0 00	
5,500 00	90 00	358 31	2,750 00	2,953 65	-86 97	2,954 93	0 00	0 00	0 00	
5,600 00	90 00	358 31	2,750 00	3,053 61	-89 92	3,054 93	0 00	0 00	0 00	
5,700 00	90 00	358 31	2,750 00	3,153 56	-92 86	3,154 93	0 00	0 00	0 00	
5,800 00	90 00	358 31	2,750 00	3,253 52	-95 80	3,254 93	0 00	0 00	0 00	
5,900 00	90 00	358 31	2,750 00	3,353 48	-98 75	3,354 93	0 00	0 00	0 00	
6,000 00	90 00	358 31	2,750 00	3,453 43	-101 69	3,454 93	0 00	0 00	0 00	
6,100 00	90 00	358 31	2,750 00	3,553 39	-104 63	3,554 93	0 00	0 00	0 00	
6,200 00	90 00	358 31	2,750 00	3,653 35	-107 58	3,654 93	0 00	0 00	0 00	
6,300 00	90 00	358 31	2,750 00	3,753 30	-110 52	3,754 93	0 00	0 00	0 00	
6,400 00	90 00	358 31	2,750 00	3,853 26	-113 46	3,854 93	0 00	0 00	0 00	
6,500 00	90 00	358 31	2,750 00	3,953 22	-116 41	3,954 93	0 00	0 00	0 00	
6,600 00	90 00	358 31	2,750 00	4,053 17	-119 35	4,054 93	0 00	0 00	0 00	
6,700 00	90 00	358 31	2,750 00	4,153 13	-122 29	4,154 93	0 00	0 00	0 00	
6,800 00	90 00	358 31	2,750 00	4,253 09	-125 24	4,254 93	0 00	0 00	0 00	

Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Well #3H
Company:	COG Operating LLC	TVD Reference:	GL Elev @ 3373 00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL Elev @ 3373 00usft
Site:	Bradley 8 Fee	North Reference:	Grid
Well:	#3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2 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	358 31	2,750 00	4,353 04	-128 18	4,354 93	0 00	0 00	0 00	
7,000 00	90 00	358 31	2,750 00	4,453 00	-131 12	4,454 93	0 00	0 00	0 00	
7,100 00	90 00	358 31	2,750 00	4,552 96	-134 07	4,554 93	0 00	0 00	0 00	
7,200 00	90 00	358 31	2,750 00	4,652 91	-137 01	4,654 93	0 00	0 00	0 00	
7,300 00	90 00	358 31	2,750 00	4,752 87	-139 95	4,754 93	0 00	0 00	0 00	
7,393 81	90 00	358 31	2,750 00	4,846 64	-142 71	4,848 74	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 08	180 00	-5 30	606,977 49	478,842 50	32° 40' 7 186 N	104° 24' 7 517 W	
- plan hits target center										
- Point										
PBHL	0 00	0 00	2,750 00	4,846 64	-142 71	611,643 70	478,705 10	32° 40' 53 360 N	104° 24' 9 160 W	
- plan hits target center										
- Point										

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+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 36	-10 01	Land EOC hold 90 00°	



Azimuths to Grid North
True North 0 04°
Magnetic North 7 97°

Magnetic Field
Strength 48633 2snT
Dip Angle 60 38°
Date 11/1/2012
Model BGGM2012

WELL DETAILS					
		Ground Level		3373 00	
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0 00	0 00	606797 50	478847 80	32° 40' 5 405 N	104° 24' 7 454 W

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
000	000	000	000	000	000	000	000	000	
2272 54	000	000	2272 54	000	000	000	000	000	
3022 54	90 00	358 31	2750 00	477 26	-14 05	12 00	358 31	477 46	
7393 81	90 00	358 31	2750 00	4846 64	-142 71	0 00	0 00	4848 74	PBHL

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
PP=330' FSL	2646 08	180 00	-5 30	606977 48	478842 50
PBHL	2750 00	4846 64	-142 71	611643 70	478705 10

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)
Date	NAD 1927 (NADCON CONUS)
Ellipsoid	Clarke 1866
Zone Name	New Mexico East 3001
Local Origin	Well #3H, Grd North
Latitude	32° 40' 5.405 N
Longitude	104° 24' 7.454 W
Grid East	478847.80
Grid North	606797.50
Scale Factor	1.000
Geomagnetic Model	BGGM2012
Sample Date	01-Nov-12
Magnetic Declination	7.94
Dip Angle from Horizontal	60.38°
Magnetic Field Strength	48633

To convert a Magnetic Direction to a Grid Direction: Add 7.97°
 To convert a Magnetic Direction to a True Direction: Add 7.94° East
 To convert a True Direction to a Grid Direction: Add 0.04°

