

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

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

Form C-103
Revised August 1, 2011

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. 30-015-39811
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 <u>N</u> 150 feet from the <u>SOUTH</u> line and <u>1700</u> feet from the <u>WEST</u> line Section <u>8</u> Township <u>19S</u> Range <u>26E</u> NMPM County <u>EDDY</u>		8 Well Number 2H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3373'		9 OGRID Number 229137
		10. Pool name or Wildcat Atoka; Glorieta-Yeso 3250

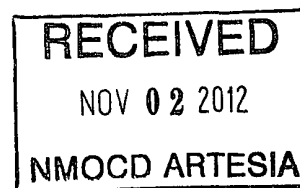
12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO: 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: 150 FSL 1700 FWL, Unit N
BHL: 330 FNL 1700 FWL, Unit C

COG Operating LLC respectfully requests permission to change the BHL to:
SHL: 150 FSL 1700 FWL, Unit N
BHL: 330 FNL 1646 FWL, Unit C



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 (505) 393-6161 Fax (505) 393-0720

DISTRICT II
811 S First St., Artesia, NM 88210
Phone (505) 748-1283 Fax (505) 748-9720

DISTRICT III
1000 Rio Brizos 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
NMOCD 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 30-015-39811	Pool Code 3250	Pool Name Atoka; Glorieta-Yeso
Property Code	Property Name BRADLEY 8 FEE	Well Number 2H
OGRID No 229137	Operator Name COG OPERATING, LLC	Elevation 3373'

Surface Location

UL or lot No	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	8	19-S	26-E		150	SOUTH	1700	WEST	EDDY

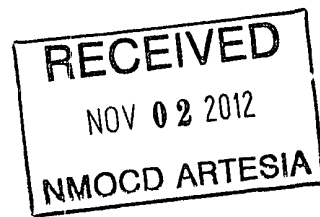
Bottom Hole Location If Different From Surface

UL or lot No	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	8	19-S	26-E		330	NORTH	1646	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

	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=606805 4 N X=477518 5 E LAT = 32 668187" N LONG = 104 406390" W BOTTOM HOLE LOCATION Y=611643 2 N X=477389 7 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 Signature 11-1-12 Date Kelly J. Holly Printed Name kholly@concho.com E-mail Address
	CORNER COORDINATES TABLE A - Y=611972 9 N, X=477054 2 E B - Y=611973 5 N, X=478369 2 E C - Y=606657 7 N, X=477143 4 E D - Y=606649 7 N, X=478466 0 E	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 3, 2011 Date of Survey Signature & Seal of Professional Surveyor Ronald J. Eidson Certificate Number Gary G. Eidson 12641 Ronald J. Eidson 3239 AF JWSC W O 12 13 1745



COG Operating LLC

Eddy County, NM (NAN27 NME)

Bradley 8 Fee #2H

OH

Plan #2 8-3/4" Hole

Surface: 150' FSL, 1700' FWL, Sec 8, T19S, R26E, Unit N

PP: 330' FSL, 1700' FWL, Sec 8, T19S, R26E, Unit N

BHL: 330' FNL, 1646' FWL, Sec 8, T19S, R26E, Unit C

Standard Planning Report

01 November, 2012





Scientific Drilling
Planning Report



Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Well #2H
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:	#2H	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		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° 24' 23 005 W
		Grid Convergence:	-0 04 °

Well#	#2H					
Well Position	+N/-S	0 00 usft	Northing:	606,805 40 usft	Latitude	32° 40' 5 474 N
	+E/-W	0 00 usft	Easting	477,518 50 usft	Longitude:	104° 24' 23 005 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) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0 00	0 00	0 00	358 47

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	
2,272 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 47	2,750 00	477 30	-12 71	12 00	12 00	0 00	358 47	
7,385 02	90 00	358 47	2,750 00	4,838 24	-128 81	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 #2H
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:	#2H	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 47	2,299 98	0 79	-0 02	0 79	12 00	12 00	0 00
2,400 00	15 30	358 47	2,398 49	16 91	-0 45	16 91	12 00	12 00	0 00
2,500 00	27 30	358 47	2,491 49	53 15	-1 41	53 17	12 00	12 00	0 00
2,600 00	39 30	358 47	2,574 93	107 92	-2 87	107 96	12 00	12 00	0 00
2,700 00	51 30	358 47	2,645 14	178 84	-4 76	178 91	12 00	12 00	0 00
2,701 48	51 47	358 47	2,646 06	180 00	-4 79	180 06	12 00	12 00	0 00
PP=330' FSL									
2,800 00	63 30	358 47	2,699 07	262 81	-7 00	262 90	12 00	12 00	0 00
2,900 00	75 30	358 47	2,734 36	356 14	-9 48	356 27	12 00	12 00	0 00
3,000 00	87 30	358 47	2,749 47	454 78	-12 11	454 94	12 00	12 00	0 00
3,022 54	90 00	358 47	2,750 00	477 30	-12 71	477 47	12 00	12 00	0 00
Land EOC hold 90 00°									
3,100 00	90 00	358 47	2,750 00	554 73	-14 77	554 93	0 00	0 00	0 00
3,200 00	90 00	358 47	2,750 00	654 70	-17 43	654 93	0 00	0 00	0 00
3,300 00	90 00	358 47	2,750 00	754 66	-20 09	754 93	0 00	0 00	0 00
3,400 00	90 00	358 47	2,750 00	854 63	-22 75	854 93	0 00	0 00	0 00
3,500 00	90 00	358 47	2,750 00	954 59	-25 41	954 93	0 00	0 00	0 00
3,600 00	90 00	358 47	2,750 00	1,054 56	-28 08	1,054 93	0 00	0 00	0 00
3,700 00	90 00	358 47	2,750 00	1,154 52	-30 74	1,154 93	0 00	0 00	0 00
3,800 00	90 00	358 47	2,750 00	1,254 49	-33 40	1,254 93	0 00	0 00	0 00
3,900 00	90 00	358 47	2,750 00	1,354 45	-36 06	1,354 93	0 00	0 00	0 00
4,000 00	90 00	358 47	2,750 00	1,454 41	-38 72	1,454 93	0 00	0 00	0 00
4,100 00	90 00	358 47	2,750 00	1,554 38	-41 38	1,554 93	0 00	0 00	0 00
4,200 00	90 00	358 47	2,750 00	1,654 34	-44 04	1,654 93	0 00	0 00	0 00
4,300 00	90 00	358 47	2,750 00	1,754 31	-46 71	1,754 93	0 00	0 00	0 00
4,400 00	90 00	358 47	2,750 00	1,854 27	-49 37	1,854 93	0 00	0 00	0 00
4,500 00	90 00	358 47	2,750 00	1,954 24	-52 03	1,954 93	0 00	0 00	0 00
4,600 00	90 00	358 47	2,750 00	2,054 20	-54 69	2,054 93	0 00	0 00	0 00
4,700 00	90 00	358 47	2,750 00	2,154 17	-57 35	2,154 93	0 00	0 00	0 00
4,800 00	90 00	358 47	2,750 00	2,254 13	-60 01	2,254 93	0 00	0 00	0 00
4,900 00	90 00	358 47	2,750 00	2,354 10	-62 67	2,354 93	0 00	0 00	0 00
5,000 00	90 00	358 47	2,750 00	2,454 06	-65 34	2,454 93	0 00	0 00	0 00
5,100 00	90 00	358 47	2,750 00	2,554 02	-68 00	2,554 93	0 00	0 00	0 00
5,200 00	90 00	358 47	2,750 00	2,653 99	-70 66	2,654 93	0 00	0 00	0 00
5,300 00	90 00	358 47	2,750 00	2,753 95	-73 32	2,754 93	0 00	0 00	0 00
5,400 00	90 00	358 47	2,750 00	2,853 92	-75 98	2,854 93	0 00	0 00	0 00
5,500 00	90 00	358 47	2,750 00	2,953 88	-78 64	2,954 93	0 00	0 00	0 00
5,600 00	90 00	358 47	2,750 00	3,053 85	-81 30	3,054 93	0 00	0 00	0 00
5,700 00	90 00	358 47	2,750 00	3,153 81	-83 97	3,154 93	0 00	0 00	0 00
5,800 00	90 00	358 47	2,750 00	3,253 78	-86 63	3,254 93	0 00	0 00	0 00
5,900 00	90 00	358 47	2,750 00	3,353 74	-89 29	3,354 93	0 00	0 00	0 00
6,000 00	90 00	358 47	2,750 00	3,453 71	-91 95	3,454 93	0 00	0 00	0 00
6,100 00	90 00	358 47	2,750 00	3,553 67	-94 61	3,554 93	0 00	0 00	0 00
6,200 00	90 00	358 47	2,750 00	3,653 64	-97 27	3,654 93	0 00	0 00	0 00
6,300 00	90 00	358 47	2,750 00	3,753 60	-99 93	3,754 93	0 00	0 00	0 00
6,400 00	90 00	358 47	2,750 00	3,853 56	-102 60	3,854 93	0 00	0 00	0 00
6,500 00	90 00	358 47	2,750 00	3,953 53	-105 26	3,954 93	0 00	0 00	0 00
6,600 00	90 00	358 47	2,750 00	4,053 49	-107 92	4,054 93	0 00	0 00	0 00
6,700 00	90 00	358 47	2,750 00	4,153 46	-110 58	4,154 93	0 00	0 00	0 00
6,800 00	90 00	358 47	2,750 00	4,253 42	-113 24	4,254 93	0 00	0 00	0 00



Scientific Drilling
Planning Report



Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Well #2H
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:	#2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2 8-3/4" Hole		

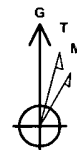
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,900 00	90 00	358 47	2,750 00	4,353 39	-115 90	4,354 93	0 00	0 00	0 00
7,000 00	90 00	358 47	2,750 00	4,453 35	-118 56	4,454 93	0 00	0 00	0 00
7,100 00	90 00	358 47	2,750 00	4,553 32	-121 23	4,554 93	0 00	0 00	0 00
7,200 00	90 00	358 47	2,750 00	4,653 28	-123 89	4,654 93	0 00	0 00	0 00
7,300 00	90 00	358 47	2,750 00	4,753 25	-126 55	4,754 93	0 00	0 00	0 00
7,385 02	90 00	358 47	2,750 00	4,838 24	-128 81	4,839 95	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 07	180 00	-4 79	606,985 39	477,513 71	32° 40' 7 255 N	104° 24' 23 063 W
- plan hits target center									
- Point									
PBHL	0 00	0 00	2,750 00	4,838 24	-128 81	611,643 20	477,389 70	32° 40' 53 347 N	104° 24' 24 551 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	477 41	-7 35	Land EOC hold 90 00°



Bradley 8 Fee #2H
Eddy County, NM (NAN27 NME)
Northing: (Y) 606805.40
Easting: (X) 477518.50
Plan #2 8-3/4" Hole



To convert a Magnetic Direction to a Grd Direction Add 7.98°
To convert a True Direction to a Grd Direction Add 0.04°

Azimuths to Grd North
True North 0.04°
Magnetic North 7.98°

Magnetic Field
Strength 48632 μ s/nT
Dip Angle 60.38°
Date 11/1/2012
Model BGM2012

WELL DETAILS					
		Ground Level	3373.00		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	606805.40	477518.50	32° 40' 5.474 N	104° 24' 23.005 W

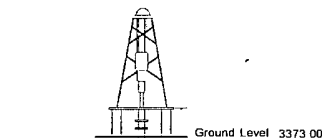
SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2272.54	0.00	0.00	2272.54	0.00	0.00	0.00	0.00	0.00	
3022.54	90.00	358.47	2750.00	477.30	-12.71	12.00	358.47	477.46	
7385.02	90.00	358.47	2750.00	4838.24	-128.81	0.00	0.00	4839.95	PBHL

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
PP=330° FSL	2646.07	180.00	-4.79	606985.38	477513.71
PBHL	2750.00	4838.24	-128.81	611643.20	477389.70

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 #2H Grd North
Latitude	32° 40' 5.474 N
Longitude	104° 24' 23.005 W
Grd East	477518.50
Grd North	606805.40
Scale Factor	1.000
Geomagnetic Model	BGM2012
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 Grd Direction Add 7.98°	
To convert a Magnetic Direction to a True Direction Add 7.94° East	
To convert a True Direction to a Grd Direction Add 0.04°	



Julio Patis
01 Nov 2012 01:20:12
Scientific Drilling
2034 Trade Drive
Midland TX 79703

