

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No NMLC029020M
2. Name of Operator COG OPERATING LLC		6. If Indian, Allottee or Tribe Name
Contact: KELLY J HOLLY E-Mail: kholly@conchoresources.com		7. If Unit or CA/Agreement, Name and/or No
3a. Address 550 WEST TEXAS AVENUE SUITE 100 MIDLAND, TX 79701	3b. Phone No (include area code) Ph: 432-685-4384	8. Well Name and No. CARMEN 3 FEDERAL COM 11H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 3 T17S R30E SWNW Lot E 1650FNL 330FWL		9. API Well No 30-015-39288-00-X1
		10. Field and Pool, or Exploratory LOCO HILLS
		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

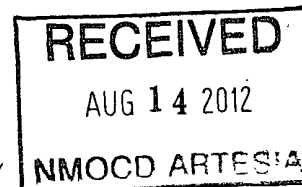
TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original APD
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

COG Operating LLC respectfully requests permission to change the Horizontal TVD Depth:

FROM: 4800'
TO: 5650'

A revised Directional Plan is attached for your review.



14. I hereby certify that the foregoing is true and correct	
Electronic Submission #144764 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad Committed to AFMSS for processing by KURT SIMMONS on 08/03/2012 (12KMS2713SE)	
Name (Printed/Typed) KELLY J HOLLY	Title PERMITTING TECH
Signature (Electronic Submission)	Date 08/03/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHRISTOPHER WALLS	Title PETROLEUM ENGINEER	Date 08/13/2012
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
Office Carlsbad		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****



COG Operating LLC

Eddy County, NM (NAN27 NME)

Carmen 3 Federal Com #11H

OH

Plan #2 8-3/4" Hole

Surface: 1650' FNL, 330' FWL, Sec 3, T17S, R30E, Unit E

BHL: 1650' FNL, 330' FEL, Sec 3, T17S, R30E, Unit H

Standard Planning Report

03 August, 2012





Scientific Drilling International, Inc.
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site: Carmen 3 Federal Com
Company:	COG Operating LLC	TVD Reference:	GL Elev @ 3726.00usft
Project:	Eddy County, NM (NAN27-NME)	MD Reference:	GL Elev @ 3726.00usft
Site:	Carmen 3 Federal Com	North Reference:	Grid
Well:	#11H	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		

Site:	Carmen 3 Federal Com		
Site Position:	Map	Northings:	679,000.90 usft
From:		Easting:	612,549.70 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 51' 58.029 N
		Longitude:	103° 58' 0.398 W
		Grid Convergence:	0.20 °

Well:	#11H					
Well Position	+N/-S	0.00 usft	Northing:	679,000.90 usft	Latitude:	32° 51' 58.029 N
	+E/-W	0.00 usft	Easting:	612,549.70 usft	Longitude:	103° 58' 0.398 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,726.00 usft

Wellbore:	OH				
Magnetics:	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	08/03/12	7.68	60.68	48,843

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	89.82

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	
5,172.54	0 00	0.00	5,172.54	0.00	0.00	0.00	0 00	0.00	0.00	
5,922.54	90.00	89.82	5,650.00	1.49	477.46	12.00	12 00	0.00	89.82	
10,064.99	90 00	89.82	5,650 00	14.40	4,619 90	0 00	0.00	0 00	0.00	PBHL-Carmen 3 Fed



Scientific Drilling International, Inc.
Planning Report

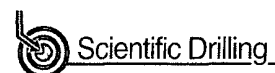


Database:	EDM:5000.1 Single User Db	Local Co-ordinate Reference:	Site: Carmen, 3 Federal Com
Company:	COG Operating, LLC	TVD Reference:	GL Elev @ 3726.00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL Elev @ 3726.00usft
Site:	Carmen, 3 Federal Com	North Reference:	Grid
Well:	#11H	Survey Calculation 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
1,350.00	0.00	0.00	1,350.00	0.00	0.00	0.00	0.00	0.00	0.00
9-5/8" Casing									
5,172.54	0.00	0.00	5,172.54	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start Build 12.00									
5,200.00	3.30	89.82	5,199.98	0.00	0.79	0.79	12.00	12.00	0.00
5,300.00	15.30	89.82	5,298.49	0.05	16.91	16.91	12.00	12.00	0.00
5,400.00	27.30	89.82	5,391.49	0.17	53.16	53.17	12.00	12.00	0.00
5,500.00	39.30	89.82	5,474.93	0.34	107.96	107.96	12.00	12.00	0.00
5,600.00	51.30	89.82	5,545.14	0.56	178.91	178.91	12.00	12.00	0.00
5,700.00	63.30	89.82	5,599.07	0.82	262.90	262.90	12.00	12.00	0.00
5,800.00	75.30	89.82	5,634.36	1.11	356.27	356.27	12.00	12.00	0.00
5,900.00	87.30	89.82	5,649.47	1.42	454.94	454.94	12.00	12.00	0.00
5,922.54	90.00	89.82	5,650.00	1.49	477.46	477.46	12.00	12.00	0.00
EOG Start 4142.46 hold at 5922.54 MD									
6,000.00	90.00	89.82	5,650.00	1.73	554.93	554.93	0.00	0.00	0.00
6,100.00	90.00	89.82	5,650.00	2.04	654.93	654.93	0.00	0.00	0.00
6,200.00	90.00	89.82	5,650.00	2.35	754.93	754.93	0.00	0.00	0.00
6,300.00	90.00	89.82	5,650.00	2.66	854.93	854.93	0.00	0.00	0.00
6,400.00	90.00	89.82	5,650.00	2.98	954.93	954.93	0.00	0.00	0.00
6,500.00	90.00	89.82	5,650.00	3.29	1,054.92	1,054.93	0.00	0.00	0.00
6,600.00	90.00	89.82	5,650.00	3.60	1,154.92	1,154.93	0.00	0.00	0.00
6,700.00	90.00	89.82	5,650.00	3.91	1,254.92	1,254.93	0.00	0.00	0.00
6,800.00	90.00	89.82	5,650.00	4.22	1,354.92	1,354.93	0.00	0.00	0.00
6,900.00	90.00	89.82	5,650.00	4.53	1,454.92	1,454.93	0.00	0.00	0.00
7,000.00	90.00	89.82	5,650.00	4.85	1,554.92	1,554.93	0.00	0.00	0.00
7,100.00	90.00	89.82	5,650.00	5.16	1,654.92	1,654.93	0.00	0.00	0.00
7,200.00	90.00	89.82	5,650.00	5.47	1,754.92	1,754.93	0.00	0.00	0.00
7,300.00	90.00	89.82	5,650.00	5.78	1,854.92	1,854.93	0.00	0.00	0.00
7,400.00	90.00	89.82	5,650.00	6.09	1,954.92	1,954.93	0.00	0.00	0.00
7,500.00	90.00	89.82	5,650.00	6.41	2,054.92	2,054.93	0.00	0.00	0.00
7,600.00	90.00	89.82	5,650.00	6.72	2,154.92	2,154.93	0.00	0.00	0.00
7,700.00	90.00	89.82	5,650.00	7.03	2,254.92	2,254.93	0.00	0.00	0.00
7,800.00	90.00	89.82	5,650.00	7.34	2,354.92	2,354.93	0.00	0.00	0.00
7,900.00	90.00	89.82	5,650.00	7.65	2,454.92	2,454.93	0.00	0.00	0.00
8,000.00	90.00	89.82	5,650.00	7.96	2,554.92	2,554.93	0.00	0.00	0.00
8,100.00	90.00	89.82	5,650.00	8.28	2,654.92	2,654.93	0.00	0.00	0.00
8,200.00	90.00	89.82	5,650.00	8.59	2,754.92	2,754.93	0.00	0.00	0.00
8,300.00	90.00	89.82	5,650.00	8.90	2,854.92	2,854.93	0.00	0.00	0.00
8,400.00	90.00	89.82	5,650.00	9.21	2,954.92	2,954.93	0.00	0.00	0.00
8,500.00	90.00	89.82	5,650.00	9.52	3,054.91	3,054.93	0.00	0.00	0.00
8,600.00	90.00	89.82	5,650.00	9.83	3,154.91	3,154.93	0.00	0.00	0.00
8,700.00	90.00	89.82	5,650.00	10.15	3,254.91	3,254.93	0.00	0.00	0.00
8,800.00	90.00	89.82	5,650.00	10.46	3,354.91	3,354.93	0.00	0.00	0.00
8,900.00	90.00	89.82	5,650.00	10.77	3,454.91	3,454.93	0.00	0.00	0.00
9,000.00	90.00	89.82	5,650.00	11.08	3,554.91	3,554.93	0.00	0.00	0.00
9,100.00	90.00	89.82	5,650.00	11.39	3,654.91	3,654.93	0.00	0.00	0.00
9,200.00	90.00	89.82	5,650.00	11.70	3,754.91	3,754.93	0.00	0.00	0.00
9,300.00	90.00	89.82	5,650.00	12.02	3,854.91	3,854.93	0.00	0.00	0.00
9,400.00	90.00	89.82	5,650.00	12.33	3,954.91	3,954.93	0.00	0.00	0.00
9,500.00	90.00	89.82	5,650.00	12.64	4,054.91	4,054.93	0.00	0.00	0.00
9,600.00	90.00	89.82	5,650.00	12.95	4,154.91	4,154.93	0.00	0.00	0.00
9,700.00	90.00	89.82	5,650.00	13.26	4,254.91	4,254.93	0.00	0.00	0.00



Scientific Drilling International, Inc.
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site: Carmen 3 Federal Com
Company:	COG Operating LLC	TVD Reference:	GL Elev @ 3726.00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL Elev @ 3726.00usft
Site:	Carmen 3 Federal Com	North Reference:	Grid
Well:	#11H	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)
9,800.00	90.00	89.82	5,650.00	13.57	4,354.91	4,354.93	0.00	0.00	0.00
9,900.00	90.00	89.82	5,650.00	13.89	4,454.91	4,454.93	0.00	0.00	0.00
10,000.00	90.00	89.82	5,650.00	14.20	4,554.91	4,554.93	0.00	0.00	0.00
10,064.99	90.00	89.82	5,650.00	14.40	4,619.90	4,619.92	0.00	0.00	0.00
PBHL - PBHL-Carmen 3 Fed #11H									

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-Carmen 3 Fed #1	0.00	0.00	5,650.00	14.40	4,619.90	679,015.30	617,169.60	32° 51' 58.010 N	103° 57' 6.232 W
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	/Name		Casing Diameter (")	Hole Diameter (")
1,350.00	1,350.00	9-5/8" Casing		9-5/8	12-1/4

Plan Annotations						
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment		
		+N/-S (usft)	+E/-W (usft)			
5,172.54	5,172.54	0.00	0.00	KOP Start Build 12.00		
5,922.54	5,650.00	1.49	477.46	EOC Start 4142.46 hold at 5922 54 MD		
10,064.99	5,650.00	14.40	4,619.90	PBHL		



Azimuths to Grid North
True North -020°
Magnetic North 7 48°

Magnetic Field
Strength 48843 3nT
Dip Angle 60 68°
Date 08/03/2012
Model IGRF2010

Carmen 3 Federal Com #11H
Eddy County, NM (NAN27 NME)
Northing: (Y) 679000.90
Easting: (X) 612549.70
Plan #2 8-3/4" Hole

WELL DETAILS.

		Ground Level	3726 00		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0 00	0 00	679000 90	612549 70	32° 51' 58 028 N	103° 58' 0 398 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	
5172.54	0.00	0.00	5172.54	0.00	0.00	0.00	0.00	0.00	
5922.54	90.00	89.82	5650.00	1.49	477.46	12.00	89.82	477.46	
10064.99	90.00	89.82	5650.00	14.40	4619.90	0.00	0.00	4619.92	PBHL

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL-Carmen 3 Fed #11H	5650 00	14.40	4619.90	679015 30	617169.60

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

SITE DETAILS: Carmen 3 Federal Com
Site Centre Northing 679000.90
Easting 612549.70

Positional Uncertainty 0.00
Convergence 0.20
Local North Grid

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

Local Origin Site Carmen 3 Federal Com , Grid North

Latitude 32° 51' 58 028 N
Longitude 103° 58' 0 398 W

Grid East 612549.70
Grid North 679000.90
Scale Factor 1.000

Geomagnetic Model IGRF2010
Sample Date 03-Aug-12
Magnetic Declination 7 68°
Dip Angle from Horizontal 60 68°
Magnetic Field Strength 48843

To convert Magnetic North to Grid, Add 7 48°
To convert Magnetic North to True North, Add 7 68° East
To convert True North to Grid, Subtract 0 20°

