

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM 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. NMLC029415B
2. Name of Operator COG OPERATING LLC		6. If Indian, Allottee or Tribe Name
Contact: KELLY J HOLLY E-Mail: kholly@concho.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address ONE CONCHO CENTER 600 W ILLINOIS AVE MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-685-4384	8. Well Name and No. PUCKETT 13 FEDERAL COM 6H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 13 T17S R31E Mer NMP NWNE 36FNL 1627FEL		9. API Well No. 30-015-40736
		10. Field and Pool, or Exploratory FREN; GLORIETA YESO-EAST
		11. County or Parish, and State EDDY COUNTY, NM

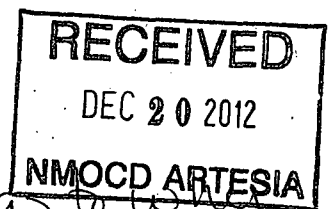
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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 A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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 recompletion 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 proposes to drill an 11" hole to 1200' w/fresh water, run 8 5/8" 32# J-55 and cement to surface. Drill a 7 7/8" hole to 6123' MD and kick off and drill curve to 6600' TVD 6873' MD. Drill a 7 7/8" lateral to new BHL @ 6600' TVD 11,309' MD. Run a 7 x 5 1/2" 17# L-80 casing to TD cement to surface with 800 sacks.

Directional plan is attached for your review.



appears to be set in the salt, with no explanation as to why it was.

Accepted for record
NMOC D 12/5/2012

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #161639 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad Committed to AFMS for processing by KURT SIMMONS on 12/11/2012 ()	
Name (Printed/Typed) KELLY J HOLLY	Title PERMITTING TECH
Signature (Electronic Submission)	Date 12/04/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By	Title	Date 12/13/2012
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	

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.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

COG Operating LLC

Eddy County, NM

Puckett 13 Federal Com 6H

Puckett 13 Federal Com 6H

Wellbore #1

Surface: 36' FNL, 1627' FEL, Sec 13, T17S, R31E, Unit B

BHL: 330' FSL, 1650' FEL, Sec 13, T17S, R31E, Unit O

PP: 330' FNL, 1628' FEL, Sec 13 T17S R31E, Unit B

Plan: Plan #1

Standard Planning Report

12 April, 2012

Crescent Directional Drilling

Planning Report

Database: R5000 Houston DB
Company: COG Operating LLC
Project: Eddy County, NM
Site: Puckett 13 Federal Com 6H
Well: Puckett 13 Federal Com 6H
Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference: Site Puckett 13 Federal Com 6H
TVD Reference: WELL @ 3981.00ft (Original Well Elev)
MD Reference: WELL @ 3981.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project:	Eddy County, NM		
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	Puckett 13 Federal Com 6H				
Site Position:		Northing:	670,312.40 ft	Latitude:	32° 50' 30.17 N
From:	Map	Easting:	657,876.90 ft	Longitude:	103° 49' 9.48 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.26 °

Well	Puckett 13 Federal Com 6H					
Well Position	+N-S	0.00 ft	Northing:	670,312.40 ft	Latitude:	32° 50' 30.17 N
	+E-W	0.00 ft	Easting:	657,876.90 ft	Longitude:	103° 49' 9.48 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	3,963.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/3/2012	7.65	60.70	48,877

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	179.94

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TPO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,122.54	0.00	0.00	6,122.54	0.00	0.00	0.00	0.00	0.00	0.00	
6,872.54	90.00	179.94	6,600.00	-477.46	0.51	12.00	12.00	0.00	179.94	
11,308.97	90.00	179.94	6,600.00	-4,913.90	5.30	0.00	0.00	0.00	0.00	0.00 PBHL (Puckett 13 Fed

Crescent Directional Drilling Planning Report

Database: R5000 Houston DB
Company: COG Operating LLC
Project: Eddy County, NM
Site: Puckett 13 Federal Com 6H
Well: Puckett 13 Federal Com 6H
Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
SID Reference:
North Reference:
Survey Calculation Method:

Site Puckett 13 Federal Com 6H
WELL @ 3981.00ft (Original Well Elev)
WELL @ 3981.00ft (Original Well Elev)
Grid
Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,122.54	0.00	0.00	6,122.54	0.00	0.00	0.00	0.00	0.00	0.00
KOP - Start Build @ 12.00°/100'									
6,200.00	9.30	179.94	6,199.66	-6.27	0.01	6.27	12.00	12.00	0.00
6,300.00	21.30	179.94	6,295.94	-32.60	0.04	32.60	12.00	12.00	0.00
6,400.00	33.30	179.94	6,384.65	-78.38	0.08	78.38	12.00	12.00	0.00
6,500.00	45.30	179.94	6,461.89	-141.59	0.15	141.59	12.00	12.00	0.00
6,600.00	57.30	179.94	6,524.31	-219.49	0.24	219.49	12.00	12.00	0.00
6,684.23	67.40	179.94	6,563.35	-294.00	0.32	294.00	12.00	12.00	0.00
PP @ 6684.23 SID, 6563.35 TVD, 67.40 INC, 179.94 AZ, 294.00 VS									
6,700.00	69.30	179.94	6,569.16	-308.66	0.33	308.66	12.00	12.00	0.00
6,800.00	81.30	179.94	6,594.50	-405.21	0.44	405.21	12.00	12.00	0.00
6,872.54	90.00	179.94	6,600.00	-477.46	0.51	477.46	12.00	12.00	0.00
Landing Point - Hold @ 80.00° INC, 179.94° AZ									
6,900.00	90.00	179.94	6,600.00	-504.93	0.54	504.93	0.00	0.00	0.00
7,000.00	90.00	179.94	6,600.00	-604.93	0.65	604.93	0.00	0.00	0.00
7,100.00	90.00	179.94	6,600.00	-704.93	0.76	704.93	0.00	0.00	0.00
7,200.00	90.00	179.94	6,600.00	-804.93	0.87	804.93	0.00	0.00	0.00
7,300.00	90.00	179.94	6,600.00	-904.93	0.98	904.93	0.00	0.00	0.00
7,400.00	90.00	179.94	6,600.00	-1,004.93	1.08	1,004.93	0.00	0.00	0.00
7,500.00	90.00	179.94	6,600.00	-1,104.93	1.19	1,104.93	0.00	0.00	0.00
7,600.00	90.00	179.94	6,600.00	-1,204.93	1.30	1,204.93	0.00	0.00	0.00
7,700.00	90.00	179.94	6,600.00	-1,304.93	1.41	1,304.93	0.00	0.00	0.00
7,800.00	90.00	179.94	6,600.00	-1,404.93	1.52	1,404.93	0.00	0.00	0.00
7,900.00	90.00	179.94	6,600.00	-1,504.93	1.62	1,504.93	0.00	0.00	0.00
8,000.00	90.00	179.94	6,600.00	-1,604.93	1.73	1,604.93	0.00	0.00	0.00
8,100.00	90.00	179.94	6,600.00	-1,704.93	1.84	1,704.93	0.00	0.00	0.00
8,200.00	90.00	179.94	6,600.00	-1,804.93	1.95	1,804.93	0.00	0.00	0.00
8,300.00	90.00	179.94	6,600.00	-1,904.93	2.05	1,904.93	0.00	0.00	0.00
8,400.00	90.00	179.94	6,600.00	-2,004.93	2.16	2,004.93	0.00	0.00	0.00
8,500.00	90.00	179.94	6,600.00	-2,104.93	2.27	2,104.93	0.00	0.00	0.00
8,600.00	90.00	179.94	6,600.00	-2,204.93	2.38	2,204.93	0.00	0.00	0.00
8,700.00	90.00	179.94	6,600.00	-2,304.93	2.49	2,304.93	0.00	0.00	0.00
8,800.00	90.00	179.94	6,600.00	-2,404.93	2.59	2,404.93	0.00	0.00	0.00
8,900.00	90.00	179.94	6,600.00	-2,504.93	2.70	2,504.93	0.00	0.00	0.00
9,000.00	90.00	179.94	6,600.00	-2,604.93	2.81	2,604.93	0.00	0.00	0.00
9,100.00	90.00	179.94	6,600.00	-2,704.93	2.92	2,704.93	0.00	0.00	0.00
9,200.00	90.00	179.94	6,600.00	-2,804.93	3.03	2,804.93	0.00	0.00	0.00
9,300.00	90.00	179.94	6,600.00	-2,904.93	3.13	2,904.93	0.00	0.00	0.00
9,400.00	90.00	179.94	6,600.00	-3,004.93	3.24	3,004.93	0.00	0.00	0.00
9,500.00	90.00	179.94	6,600.00	-3,104.93	3.35	3,104.93	0.00	0.00	0.00
9,600.00	90.00	179.94	6,600.00	-3,204.93	3.46	3,204.93	0.00	0.00	0.00
9,700.00	90.00	179.94	6,600.00	-3,304.93	3.56	3,304.93	0.00	0.00	0.00
9,800.00	90.00	179.94	6,600.00	-3,404.93	3.67	3,404.93	0.00	0.00	0.00
9,900.00	90.00	179.94	6,600.00	-3,504.93	3.78	3,504.93	0.00	0.00	0.00
10,000.00	90.00	179.94	6,600.00	-3,604.93	3.89	3,604.93	0.00	0.00	0.00
10,100.00	90.00	179.94	6,600.00	-3,704.93	4.00	3,704.93	0.00	0.00	0.00
10,200.00	90.00	179.94	6,600.00	-3,804.93	4.10	3,804.93	0.00	0.00	0.00
10,300.00	90.00	179.94	6,600.00	-3,904.93	4.21	3,904.93	0.00	0.00	0.00
10,400.00	90.00	179.94	6,600.00	-4,004.93	4.32	4,004.93	0.00	0.00	0.00
10,500.00	90.00	179.94	6,600.00	-4,104.93	4.43	4,104.93	0.00	0.00	0.00
10,600.00	90.00	179.94	6,600.00	-4,204.93	4.54	4,204.93	0.00	0.00	0.00
10,700.00	90.00	179.94	6,600.00	-4,304.93	4.64	4,304.93	0.00	0.00	0.00
10,800.00	90.00	179.94	6,600.00	-4,404.93	4.75	4,404.93	0.00	0.00	0.00

Crescent Directional Drilling

Planning Report

Database: R5000 Houston DB
Company: COG Operating LLC
Project: Eddy County, NM
Site: Puckett 13 Federal Com 6H
Well: Puckett 13 Federal Com 6H
Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference: Site Puckett 13 Federal Com 6H
TVD Reference: WELL @ 3981.00ft (Original Well Elev)
MD Reference: WELL @ 3981.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,900.00	90.00	179.94	6,600.00	-4,504.93	4.86	4,504.93	0.00	0.00	0.00
11,000.00	90.00	179.94	6,600.00	-4,604.93	4.97	4,604.93	0.00	0.00	0.00
11,100.00	90.00	179.94	6,600.00	-4,704.93	5.07	4,704.93	0.00	0.00	0.00
11,200.00	90.00	179.94	6,600.00	-4,804.93	5.18	4,804.93	0.00	0.00	0.00
11,300.00	90.00	179.94	6,600.00	-4,904.93	5.29	4,904.93	0.00	0.00	0.00
11,308.97	90.00	179.94	6,600.00	-4,913.90	5.30	4,913.90	0.00	0.00	0.00

TD @ 11308.97' MD, 6600.00' TVD - PBHL (Puckett 13 Federal Com 6H Plan 1)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N-S (ft)	+E-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Initial target									
- Shape									
PBHL (Puckett-13 Federal Com 6H)	0.00	0.00	6,600.00	-4,913.90	5.30	665,398.50	657,882.20	32° 49' 41.55 N	103° 49' 9.70 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N-S (ft)	+E-W (ft)	
6,122.54	6,122.54	0.00	0.00	KOP - Start Build @ 12.00°/100'
6,684.23	6,563.35	-294.00	0.32	PP @ 6684.23 MD, 6563.35 TVD, 67.40 INC, 179.94 AZ, 294.00 VS
6,872.54	6,600.00	-477.46	0.51	Landing Point - Hold @ 90.00° INC, 179.94° AZ
11,308.97	6,600.00	-4,913.90	5.30	TD @ 11308.97' MD, 6600.00' TVD