

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		8. Well Name and No. BEECH 25 FEDERAL 9H
2. Name of Operator COG OPERATING LLC Contact: KELLY J HOLLY E-Mail: kholly@concho.com		9. API Well No. 30-015-40208
3a. Address ONE CONCHO CENTER 600 W ILLINOIS AVE MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-685-4384	10. Field and Pool, or Exploratory RED LAKE; GLORIETA YESO NE
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 25 T17S R27E Mer NMP SWSW 990FSL 180FWL		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	

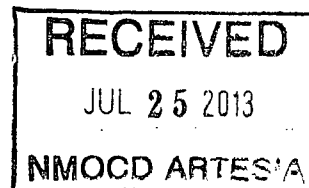
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths 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 recomple 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 TVD:

FROM: 3300' TVD & 6406' MD
TO: 3465' TVD & 6729' MD

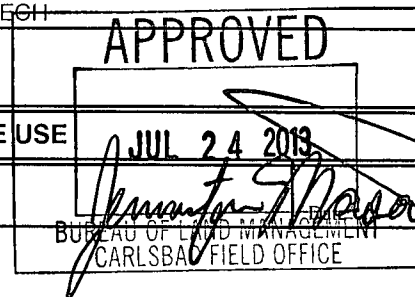
Attached is the revised C-102 and Directional Plan.

Accepted for record
NMOCD



Original COAs and Sundry COAs still stand
(7/9/13)
YES 7/25/2013

14. I hereby certify that the foregoing is true and correct. Electronic Submission #212445 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad Committed to AFMSS for processing by KURT SIMMONS on 07/12/2013 ()	
Name (Printed/Typed) KELLY J HOLLY	Title PERMITTING TECH
Signature (Electronic Submission)	Date 07/02/2013
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved By _____	Title _____
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 ****

Estimated
Completed
Interval:
990 FSL +
330 FWL



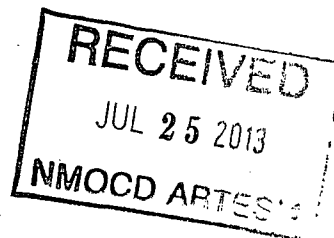
COG Operating LLC

Eddy County, New Mexico (NAD 27 NME)

Beech 25 Federal

#9H

OH



Plan: Plan #1 06-28-13

Surface: 990' FSL, 180' FWL, Sec 25, T17S, R27E, Unit M

PP: 990' FSL, 330' FWL, Sec 25, T17S, R27E, Unit M

BHL: 990' FSL, 1650' FEL, Sec 25, T17S, R27E, Unit O

Standard Planning Report

28 June, 2013





Phoenix Technology Services
Planning Report



Database:	GCR DB	Local Co-ordinate Reference:	Well #9H
Company:	COG Operating LLC	TVD Reference:	KB @ 3586.00usft
Project:	Eddy County, New Mexico (NAD 27 NME)	MD Reference:	KB @ 3586.00usft
Site:	Beech 25 Federal	North Reference:	Grid
Well:	#9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 06-28-13		

Project:	Eddy County, New Mexico (NAD 27 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:	Beech 25 Federal		
Site Position:		Northing:	654,947.50 usft
From:	Map	Easting:	528,762.70 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 48' 1.818382 N
		Longitude:	104° 14' 23.015413 W
		Grid Convergence:	0.05 °

Well:	#9H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level:
			3,586.00 usft

Wellbore:	OH		
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Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010_14	06/25/13	7.69	60.55	48,685

Design:	Plan #1 06-28-13		
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
			90.42

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	
2,969.77	0.00	0.00	2,969.77	0.00	0.00	0.00	0.00	0.00	0.00	
3,792.50	90.50	92.00	3,490.62	-18.34	525.10	11.00	11.00	0.00	92.00	
3,855.17	90.50	90.12	3,490.07	-19.50	587.75	3.00	0.00	-3.00	-89.99	
6,728.73	90.50	90.12	3,465.00	-25.50	3,461.20	0.00	0.00	0.00	0.00	PBHL-Beech 25 Fede



Phoenix Technology Services
Planning Report



Database:	GCR DB	Local Co-ordinate Reference:	Well #9H
Company:	COG Operating, LLC	TVD Reference:	KB @ 3586.00usft
Project:	Eddy County, New Mexico (NAD 27 NME)	MD Reference:	KB @ 3586.00usft
Site:	Beech 25 Federal	North Reference:	Grid:
Well:	#9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 06-28-13		

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	
2,969.77	0.00	0.00	2,969.77	0.00	0.00	0.00	0.00	0.00	0.00	
KOP Start Build 11.00										
3,000.00	3.33	92.00	2,999.98	-0.03	0.88	0.88	11.00	11.00	0.00	
3,100.00	14.33	92.00	3,098.65	-0.57	16.19	16.19	11.00	11.00	0.00	
3,200.00	25.33	92.00	3,192.58	-1.75	50.03	50.04	11.00	11.00	0.00	
3,300.00	36.33	92.00	3,278.32	-3.53	101.16	101.18	11.00	11.00	0.00	
3,375.39	44.62	92.00	3,335.62	-5.24	150.02	150.05	11.00	11.00	0.00	
PP-Beech 25 Federal #9H										
3,400.00	47.33	92.00	3,352.72	-5.86	167.70	167.74	11.00	11.00	0.00	
3,500.00	58.33	92.00	3,413.05	-8.63	247.21	247.27	11.00	11.00	0.00	
3,600.00	69.33	92.00	3,457.10	-11.76	336.77	336.84	11.00	11.00	0.00	
3,700.00	80.33	92.00	3,483.23	-15.12	433.07	433.17	11.00	11.00	0.00	
3,777.90	88.89	92.00	3,490.54	-17.83	510.51	510.63	11.00	11.00	0.00	
TL 3495 TVD @ 0 VZ 90.5° Inc										
3,792.50	90.50	92.00	3,490.62	-18.34	525.10	525.22	11.00	11.00	0.00	
LP Start DLS 3.00 TFO -89.99										
3,800.00	90.50	91.77	3,490.56	-18.58	532.59	532.72	3.00	0.00	-3.00	
3,855.17	90.50	90.12	3,490.07	-19.50	587.75	587.88	3.00	0.00	-3.00	
Start 2873.56 hold at 3855.17 MD										
3,900.00	90.50	90.12	3,489.68	-19.59	632.58	632.71	0.00	0.00	0.00	
4,000.00	90.50	90.12	3,488.81	-19.80	732.58	732.70	0.00	0.00	0.00	
4,100.00	90.50	90.12	3,487.94	-20.01	832.57	832.70	0.00	0.00	0.00	
4,200.00	90.50	90.12	3,487.07	-20.22	932.57	932.69	0.00	0.00	0.00	
4,300.00	90.50	90.12	3,486.19	-20.43	1,032.56	1,032.69	0.00	0.00	0.00	
4,400.00	90.50	90.12	3,485.32	-20.63	1,132.56	1,132.68	0.00	0.00	0.00	
4,500.00	90.50	90.12	3,484.45	-20.84	1,232.56	1,232.68	0.00	0.00	0.00	
4,600.00	90.50	90.12	3,483.57	-21.05	1,332.55	1,332.67	0.00	0.00	0.00	
4,700.00	90.50	90.12	3,482.70	-21.26	1,432.55	1,432.67	0.00	0.00	0.00	
4,800.00	90.50	90.12	3,481.83	-21.47	1,532.54	1,532.66	0.00	0.00	0.00	
4,900.00	90.50	90.12	3,480.96	-21.68	1,632.54	1,632.66	0.00	0.00	0.00	
5,000.00	90.50	90.12	3,480.08	-21.89	1,732.54	1,732.65	0.00	0.00	0.00	
5,100.00	90.50	90.12	3,479.21	-22.10	1,832.53	1,832.65	0.00	0.00	0.00	
5,200.00	90.50	90.12	3,478.34	-22.31	1,932.53	1,932.64	0.00	0.00	0.00	
5,300.00	90.50	90.12	3,477.47	-22.51	2,032.52	2,032.64	0.00	0.00	0.00	
5,400.00	90.50	90.12	3,476.59	-22.72	2,132.52	2,132.63	0.00	0.00	0.00	
5,500.00	90.50	90.12	3,475.72	-22.93	2,232.52	2,232.63	0.00	0.00	0.00	
5,600.00	90.50	90.12	3,474.85	-23.14	2,332.51	2,332.62	0.00	0.00	0.00	
5,700.00	90.50	90.12	3,473.98	-23.35	2,432.51	2,432.61	0.00	0.00	0.00	
5,800.00	90.50	90.12	3,473.10	-23.56	2,532.50	2,532.61	0.00	0.00	0.00	
5,900.00	90.50	90.12	3,472.23	-23.77	2,632.50	2,632.60	0.00	0.00	0.00	
6,000.00	90.50	90.12	3,471.36	-23.98	2,732.50	2,732.60	0.00	0.00	0.00	
6,100.00	90.50	90.12	3,470.49	-24.19	2,832.49	2,832.59	0.00	0.00	0.00	
6,200.00	90.50	90.12	3,469.61	-24.40	2,932.49	2,932.59	0.00	0.00	0.00	
6,300.00	90.50	90.12	3,468.74	-24.60	3,032.48	3,032.58	0.00	0.00	0.00	
6,400.00	90.50	90.12	3,467.87	-24.81	3,132.48	3,132.58	0.00	0.00	0.00	
6,500.00	90.50	90.12	3,467.00	-25.02	3,232.48	3,232.57	0.00	0.00	0.00	
6,600.00	90.50	90.12	3,466.12	-25.23	3,332.47	3,332.57	0.00	0.00	0.00	
6,700.00	90.50	90.12	3,465.25	-25.44	3,432.47	3,432.56	0.00	0.00	0.00	
6,728.73	90.50	90.12	3,465.00	-25.50	3,461.20	3,461.29	0.00	0.00	0.00	
TD at 6728.73 - PBHL-Beech 25 Federal #9H										



Phoenix Technology Services
Planning Report



Database:	GCR:DB	Local Co-ordinate Reference:	Well: #9H
Company:	COG Operating LLC	TVD Reference:	KB @ 3586.00usft
Project:	Eddy County, New Mexico (NAD 27 NME)	MD Reference:	KB @ 3586.00usft
Site:	Beech 25 Federal	North Reference:	Grid
Well:	#9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1: 06-28-13		

Design Targets									
Target Name	hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	
Shape		(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude Longitude
PP-Beech 25 Federal #8	- plan hits target center	0.00	0.00	3,335.60	-5.24	150.00	654,942.27	528,912.70	32° 48' 1.765231 N 104° 14' 21.258066 W
	- Point								
PBHL-Beech 25 Federal	- plan hits target center	0.00	0.00	3,465.00	-25.50	3,461.20	654,922.00	532,223.90	32° 48' 1.533911 N 104° 13' 42.464251 W
	- Point								

Formations						
Measured Depth	Vertical Depth			Dip		
(usft)	(usft)	Name	Lithology	(°)	Direction	(°)
3,777.90	3,490.54	TL, 3495' TVD @ 0 VZ, 90.5° Inc		-0.50	90.42	

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
(usft)	(usft)	(usft)	(usft)		
2,969.77	2,969.77	0.00	0.00	KOP Start Build 11.00	
3,792.50	3,490.62	-18.34	525.10	LP Start DLS 3.00 TFO -89.99	
3,855.17	3,490.07	-19.50	587.75	Start 2873.56 hold at 3855.17 MD	
6,728.73	3,465.00	-25.50	3,461.20	TD at 6728.73	



Project: Eddy County, New Mexico (NAD 27 NME)
Site: Beech 25 Federal
Well: #9H
Wellbore: OH
Design: Plan #1 06-28-13



PHOENIX
TECHNOLOGY SERVICES



Azimuths to Grid North
True North: -0.05°
Magnetic North: 7.64°
Magnetic Field
Strength: 48685.1nT
Dip Angle: 60.55°
Date: 06/25/2013
Model: IGRF2010_14

WELL DETAILS									
	+N/S	+E/W	Northing	Ground Level	3586.00	Latitude	Longitude		
	0.00	0.00	654947.50	528762.70		32° 48' 1.818382 N	104° 14' 23.015413 W		

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSecl
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2969.77	0.00	0.00	2969.77	0.00	0.00	0.00	0.00	0.00
3	3792.50	90.50	92.00	3490.62	-18.34	525.10	11.00	92.00	525.22
4	3855.17	90.50	90.12	3490.07	-19.50	587.75	3.00	-89.99	587.88
5	6728.73	90.50	90.12	3465.00	-25.50	3461.20	0.00	0.00	3461.29

DESIGN TARGET DETAILS									
Name	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude	Shape	
PP-Beech 25 Federal #9H	3335.60	-5.24	150.00	654942.26	528912.70	32° 48' 1.765231 N	104° 14' 21.258066 W	Point	
PBHL-Beech 25 Federal #9H	3465.00	-25.50	3461.20	654922.00	532223.90	32° 48' 1.533911 N	104° 13' 42.464250 W	Point	

PROJECT DETAILS: Eddy County, New Mexico (NAD 27 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: Beech 25 Federal									
Site Centre Northing: 654947.50									
Easting: 528762.70									
Positional Uncertainty: 0.00									
Convergence: 0.05									
Local North: Grid									

FORMATION TOP DETAILS									
TVDPath	MDPath	Formation	DipAngle	DipDir					
3490.54	3777.90	TL 3495° TVD @ 0 VZ, 90.5° Inc	-0.50	90.42					

Map System: US State Plane 1927 (Exact solution)	Geomagnetic Model: IGRF2010_14
Datum: NAD 1927 (NADCON CONUS)	Sample Date: 25-Jun-13
Ellipsoid: Clarke 1866	Magnetic Declination: 7.69°
Zone Name: New Mexico East 3001	Dip Angle from Horizontal: 60.55°
Local Origin: Well #9H, Grid North	Magnetic Field Strength: 48685
Latitude: 32° 48' 1.818382 N	To convert a Magnetic Direction to a Grid Direction, Add 7.64°
Longitude: 104° 14' 23.015413 W	To convert a Magnetic Direction to a True Direction, Add 7.69° East
Grid East: 528762.70	To convert a True Direction to a Grid Direction, Subtract 0.05°
Grid North: 654947.50	
Scale Factor: 1.0000	

LEGEND									
Plan #1 06-28-13									

