

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. NMLC028731B
2. Name of Operator COG OPERATING LLC		6. If Indian, Allottee or Tribe Name
Contact: KACIE CONNALLY E-Mail: kconnally@concho.com		7. If Unit or CA/Agreement, Name and/or No NMNM111789X
3a. Address 550 WEST TEXAS AVENUE SUITE 100 MIDLAND, TX 79701	3b. Phone No (include area code) Ph: 432.221.0336	8. Well Name and No DODD FEDERAL UNIT 583
4. Location of Well (Footage, Sec., T, R, M., or Survey Description) Sec 11 T17S R29E Lot M 915FSL 400FWL		9. API Well No 30-015-39602-00-X1
		10. Field and Pool, or Exploratory DODD - GLORIETA-UPPER YESO
		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 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 submitted APD for this well at this location:

915' FSL & 400' FWL, Sec 11, T17S, R29E, Unit M

COG Operating respectfully requests permission to add a BHL:

SHL: 915' FSL & 400' FWL, Sec 11, T17S, R29E, Unit M

BHL: 990' FSL & 10' FWL, Sec 11, T17S, R29E, Unit M

Reason for adding the BHL is due to a change in the Plan of Development.

Accepted for record

NMOCD-1054/13/2012

RECEIVED

APR 12 2012

NMOCD ARTESIA

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #132158 verified by the BLM Well Information System

For COG OPERATING LLC, sent to the Carlsbad

Committed to AFMSS for processing by DEBORAH MCKINNEY on 03/07/2012 (12DLM0669SE)

Name (Printed/Typed) KACIE CONNALLY

Title PERMITTING TECH

Signature (Electronic Submission)

Date 03/05/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By TED MORGAN

Title PETROLEUM ENGINEER

Date 03/10/2012

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 ****

DISTRICT I
1825 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1263 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6176 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

Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT
Form C-102

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-39602		Pool Code	Pool Name Dodd; Glorieta-Upper Yeso
Property Code 308195	Property Name DODD FEDERAL UNIT		Well Number 583
OGRID No. 229137	Operator Name COG OPERATING, LLC		Elevation 3625'

Surface Location									
UL or lot No. M	Section 11	Township 17-S	Range 29-E	Lot Idn	Feet from the 915	North/South line SOUTH	Feet from the 400	East/West line WEST	County EDDY

Bottom Hole Location If Different From Surface									
UL or lot No. M	Section 11	Township 17-S	Range 29-E	Lot Idn	Feet from the 990	North/South line SOUTH	Feet from the 10	East/West line WEST	County EDDY
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

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

CORNER COORDINATES TABLE Ⓐ - Y=671366.7 N, X=585926.1 E Ⓑ - Y=671365.6 N, X=587247.9 E Ⓒ - Y=670044.6 N, X=585932.4 E Ⓓ - Y=670044.3 N, X=587252.8 E GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=670959.2 N X=586327.9 E LAT.=32.844236° N LONG.=104.052246° W BOTTOM HOLE LOCATION Y=671034.3 N X=585937.7 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. <u>Kacie Connally</u> 2-23-12 Signature Date Kacie Connally Printed Name Kconnally@concho.com E-mail Address	
Penetration Point 917 FSL + 78 FWL GRID AZ.=280°53'34" HORIZ. DIST.=397.5' SEE DETAIL DETAIL 3627.1' 3624.7' 3624.2' 3624.5'		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 JULY 18, 2011 Date of Survey Signature & Seal of Professional Surveyor: RONALD J. EIDSON NEW MEXICO 3239 Certificate Number 12641 Ronald J. Eidson 3239 AF WSC W.O.: 12.13.0227	



COG Operating LLC

Eddy County, NM (NAN27 NME)

Dodd Federal Unit #583

Dodd Federal Unit #583

OH

Plan: Plan #1 - 7-7/8" Hole

SHL = 915' FSL & 400' FWL

BHL = 990' FSL & 10' FWL

Top of Paddock = 62' North of Surface & 324' West of Surface @ 4000' TVD

Standard Planning Report

20 February, 2012





SDI
Planning Report



Database:	EDM:5000.1 Single User Db	Local Co-ordinate Reference:	Site: Dodd Federal Unit #583
Company:	COG Operating LLC	TVD Reference:	GL @ 3625.00usft
Project:	Eddy County, NM/(NAN27,NME)	MD Reference:	GL @ 3625.00usft
Site:	Dodd Federal Unit #583	North Reference:	Grid
Well:	Dodd Federal Unit #583	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 - 7/7/8" 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:	Dodd Federal Unit #583		
Site Position:		Northing:	670,959.20 usft
From:	Map	Easting:	586,327.90 usft
Position Uncertainty:	0.00 usft	Slot Radius:	0"
		Latitude:	32° 50' 39.251 N
		Longitude:	104° 3' 8.086 W
		Grid Convergence:	0.15°

Well:	Dodd Federal Unit #583		
Well Position	+N/-S	0.00 usft	Northing: 670,959.20 usft
	+E/-W	0.00 usft	Easting: 586,327.90 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level: 3,625.00 usft

Wellbore:	OH
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/20/12	7.77	60.66	48,866

Design:	Plan #1 - 7/7/8" Hole
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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	280.89

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	
1,150.00	0.00	0.00	1,150.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,501.30	7.03	280.89	1,500.42	4.07	-21.13	2.00	2.00	-22.52	280.89	
4,573.95	7.03	280.89	4,550.00	75.10	-390.20	0.00	0.00	0.00	0.00	PBHL-Dodd Fed Unit



SDI
Planning Report



Database:	EDM:5000.1 Single User Db	Local Co-ordinate Reference:	Site: Dodd Federal Unit #583
Company:	COG Operating LLC	TVD Reference:	GL @ 3625.00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL @ 3625.00usft
Site:	Dodd Federal Unit #583	North Reference:	Grid
Well:	Dodd Federal Unit #583	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 - 7-7/8" 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	
1,050.00	0.00	0.00	1,050.00	0.00	0.00	0.00	0.00	0.00	0.00	
8-5/8" Casing										
1,150.00	0.00	0.00	1,150.00	0.00	0.00	0.00	0.00	0.00	0.00	
Start DLS 2.00°/100'										
1,200.00	1.00	280.89	1,200.00	0.08	-0.43	0.44	2.00	2.00	0.00	
1,300.00	3.00	280.89	1,299.93	0.74	-3.86	3.93	2.00	2.00	0.00	
1,400.00	5.00	280.89	1,399.68	2.06	-10.70	10.90	2.00	2.00	0.00	
1,500.00	7.00	280.89	1,499.13	4.04	-20.97	21.35	2.00	2.00	0.00	
1,501.30	7.03	280.89	1,500.42	4.07	-21.13	21.51	2.00	2.00	0.00	
Hold 7.03°										
1,600.00	7.03	280.89	1,598.38	6.35	-32.98	33.59	0.00	0.00	0.00	
1,700.00	7.03	280.89	1,697.63	8.66	-44.99	45.82	0.00	0.00	0.00	
1,800.00	7.03	280.89	1,796.88	10.97	-57.00	58.05	0.00	0.00	0.00	
1,900.00	7.03	280.89	1,896.13	13.28	-69.02	70.28	0.00	0.00	0.00	
2,000.00	7.03	280.89	1,995.38	15.59	-81.03	82.51	0.00	0.00	0.00	
2,100.00	7.03	280.89	2,094.62	17.91	-93.04	94.75	0.00	0.00	0.00	
2,200.00	7.03	280.89	2,193.87	20.22	-105.05	106.98	0.00	0.00	0.00	
2,300.00	7.03	280.89	2,293.12	22.53	-117.06	119.21	0.00	0.00	0.00	
2,400.00	7.03	280.89	2,392.37	24.84	-129.07	131.44	0.00	0.00	0.00	
2,500.00	7.03	280.89	2,491.62	27.15	-141.08	143.67	0.00	0.00	0.00	
2,600.00	7.03	280.89	2,590.87	29.47	-153.10	155.91	0.00	0.00	0.00	
2,700.00	7.03	280.89	2,690.12	31.78	-165.11	168.14	0.00	0.00	0.00	
2,800.00	7.03	280.89	2,789.37	34.09	-177.12	180.37	0.00	0.00	0.00	
2,900.00	7.03	280.89	2,888.62	36.40	-189.13	192.60	0.00	0.00	0.00	
3,000.00	7.03	280.89	2,987.87	38.71	-201.14	204.83	0.00	0.00	0.00	
3,100.00	7.03	280.89	3,087.12	41.02	-213.15	217.07	0.00	0.00	0.00	
3,200.00	7.03	280.89	3,186.36	43.34	-225.17	229.30	0.00	0.00	0.00	
3,300.00	7.03	280.89	3,285.61	45.65	-237.18	241.53	0.00	0.00	0.00	
3,400.00	7.03	280.89	3,384.86	47.96	-249.19	253.76	0.00	0.00	0.00	
3,500.00	7.03	280.89	3,484.11	50.27	-261.20	265.99	0.00	0.00	0.00	
3,600.00	7.03	280.89	3,583.36	52.58	-273.21	278.23	0.00	0.00	0.00	
3,700.00	7.03	280.89	3,682.61	54.90	-285.22	290.46	0.00	0.00	0.00	
3,800.00	7.03	280.89	3,781.86	57.21	-297.24	302.69	0.00	0.00	0.00	
3,900.00	7.03	280.89	3,881.11	59.52	-309.25	314.92	0.00	0.00	0.00	
4,000.00	7.03	280.89	3,980.36	61.83	-321.26	327.16	0.00	0.00	0.00	
4,019.79	7.03	280.89	4,000.00	62.29	-323.64	329.58	0.00	0.00	0.00	
Top of Paddock										
4,100.00	7.03	280.89	4,079.61	64.14	-333.27	339.39	0.00	0.00	0.00	
4,200.00	7.03	280.89	4,178.85	66.45	-345.28	351.62	0.00	0.00	0.00	
4,300.00	7.03	280.89	4,278.10	68.77	-357.29	363.85	0.00	0.00	0.00	
4,400.00	7.03	280.89	4,377.35	71.08	-369.31	376.08	0.00	0.00	0.00	
4,500.00	7.03	280.89	4,476.60	73.39	-381.32	388.32	0.00	0.00	0.00	
4,573.95	7.03	280.89	4,550.00	75.10	-390.20	397.36	0.00	0.00	0.00	
PBHL: Dodd Fed Unit #583										



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Dodd Federal Unit #583
Company:	COG Operating LLC	TVD Reference:	GL @ 3625.00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL @ 3625.00usft
Site:	Dodd Federal Unit #583	North Reference:	Grid
Well:	Dodd Federal Unit #583	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 - 7-7/8" Hole		

Design Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	
Shape									Latitude Longitude
PBHL-Dodd Fed Unit #5	- plan hits target center - Circle (radius 10.00)	0.00	0.01	4,550.00	75.10	-390.20	671,034.30	585,937.70	32° 50' 40.004 N 104° 3' 12.657 W

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,050.00	1,050.00	8-5/8" Casing	8-5/8	12-1/4

Formations				
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)
4,019.79	4,000.00	Top of Paddock		0.00

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,150.00	1,150.00	0.00	0.00	Start DLS 2.00°/100'
1,501.30	1,500.42	4.07	-21.13	Hold 7.03°



Azimuths to Grid North
True North -0 15°
Magnetic North 7 62°
Grid North
Strength 48866 5mT
Dip Angle 60 60°
Date 02/20/2012
Model IGRF2010

Dodd Federal Unit #583
Eddy County, NM (NAN27 NME)
Northing: (Y) 670959.20
Easting: (X) 586327.90
Plan #1 - 7-7/8" Hole

WELL DETAILS: Dodd Federal Unit #583

	Ground Level	3625 00				
+N/S	+E/W	Northing	Easting	Latitude	Longitude	Slot
0 00	0 00	670959 20	586327 90	32° 50' 39 25" N	104° 3' 8 06" W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Diag	TFace	VSec	Target
1	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
2	1150 00	0 00	0 00	1150 00	0 00	0 00	0 00	0 00	0 00	
3	1501 30	7 03	280 89	1500 42	4 07	-21 13	2 00	280 89	21 51	
4	4573 95	7 03	280 89	4550 00	75 10	390 20	0 00	0 00	397 36	PBHL-Dodd Fed Unit #583

DESIGN TARGET DETAILS

Name	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude	Shape
PBHL-Dodd Fed Unit #583	4550 00	75 10	-390 20	671034 30	586937 7032° 50' 40 04" N	104° 3' 12 65" W		Circle (Radius 10 00)
- plan hits target center								

SITE DETAILS Dodd Federal Unit #583

Site Centre Northing 670959 20
Easting 586327 90
Positional Uncertainty 0 00
Convergence 0 15
Local North Grid

PROJECT DETAILS Eddy County, NM (NAN27 NME)

Geoid 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

FORMATION TOP DETAILS

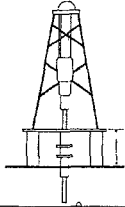
TVDPath	MDPath	Formation	DipAngle	DipDir
4000 00	4019 79	Top of Paddock	0 00	

CASING DETAILS

TVD	MD	Name	Size
1050 00	1050 00	8 5/8" Casing	8-5/8"

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 Dodd Federal Unit #583 Grid North
Latitude 32° 50' 39 25" N
Longitude 104° 3' 8 06" W
Grid East 586327 90
Grid North 670959 20
Scale Factor 1 000

Geomagnetic Model IGRF2010
Sample Date 20 Feb-12
Magnetic Declination 7 77°
Dip Angle from Horizontal 60 60°
Magnetic Field Strength 48866
To convert a Magnetic Direction to a Grid Direction Add 7 62°
To convert a Magnetic Direction to a True Direction Add 7 77° East
To convert a True Direction to a Grid Direction Subtract 0 15°



GL 3625 00

