

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 Artesia abandoned well. Use form 3160-3 (APD) for such proposals.5 Lease Serial No.
NMLC028793A

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.7 If Unit or CA/Agreement, Name and/or No.
NMNM88525X

1 Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8 Well Name and No
BURCH KEELY UNIT 651

2. Name of Operator

COG OPERATING LLC

Contact: ROBYN ODOM

E-Mail: rododm@conchoresources.com

9 API Well No
30-015-40278-00-X1

3a. Address

550 WEST TEXAS AVENUE SUITE 100
MIDLAND, TX 79701

3b. Phone No. (include area code)

Ph: 432-685-4385

10. Field and Pool, or Exploratory
BURCH KEELY-GLORIETA-UPPER

4 Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 19 T17S R30E Lot 2 1474FNL 922FWL

11. County or Parish, and State

EDDY COUNTY, NM

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

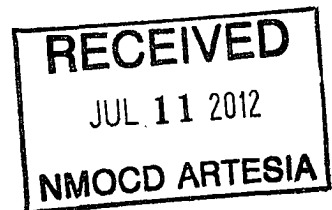
TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ 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 respectfully requests permission to change this location to:
SHL: 1474'FNL & 922'FWL, Lot 2
BHL: 1650'FNL & 990'FWL, Lot 2

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

Attached is an updated C-102 and Directional Plan



Accepted for record
NMOCD

10/5/12/2012

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

Electronic Submission #140377 verified by the BLM Well Information System

For COG OPERATING LLC, sent to the Carlsbad

Committed to AFMSS for processing by KURT SIMMONS on 06/18/2012 (12KMS2363SE)

Name (Printed/Typed) ROBYN ODOM

Title PERSON RESPONSIBLE

Signature

(Electronic Submission)

Date

06/12/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHRISTOPHER WALLS

Title PETROLEUM ENGINEER

Date 07/09/2012

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
1625 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) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos 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

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-40278	Pool Code 97918	Pool Name BURCH KEELY; GLORIETA-UPPER YESO
Property Code 308086	Property Name BURCH KEELY UNIT	Well Number 651
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3624'

Surface Location

UL or lot No	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	19	17-S	30-E		1474	NORTH	922	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
2	19	17-S	30-E		1650	NORTH	990	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
37.43			

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

LOT 1 37.43 AC LOT 2 37.43 AC LOT 3 37.43 AC LOT 4 37.41 AC Penetration Point 1660' FNL + 981' FEL DETAIL 3617.0' 3622.6' 600' 3625.3' 3627.3' GRID AZ = 158°34'29" HORIZ. DIST. = 188.8' SURFACE LOCATION Y=663306.6 N X=597436.6 E LAT = 32°23'11" N LONG. = 104°01'51" W BOTTOM HOLE LOCATION Y=663130.9 N X=597505.5 E CORNER COORDINATES TABLE (A) - Y=663458.1 N, X=596514.0 E (B) - Y=663462.7 N, X=597790.6 E (C) - Y=662139.4 N, X=596521.1 E (D) - Y=662143.7 N, X=597795.8 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. <i>[Signature]</i> 6/11/2012 Signature Date Robyn M. Odom Printed Name Rodom@concho.com E-mail Address 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. JANUARY 16, 2012 Date of Survey Signature & Seal of Professional Surveyor: <i>[Signature]</i> Certificate Number: Gary G. Eidson 12641 OFF. Reg. No. 3239 AF WSC W.O. 12.13.0562
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COG Operating LLC

Eddy County, NM (NAN27 NME)

Burch Keely Unit #651

OH

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

SHL = 1474' FNL & 922' FWL

BHL = 1660' FNL & 980' FWL

Top of Paddock Top = 1660' FNL & 980' FWL @ 4000' TVD

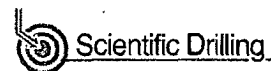
Standard Planning Report

17 May, 2012





Scientific Drilling International, Inc.
Planning Report



Database: EDM 5000 1 Single User Db
Company: COG Operating LLC
Project: Eddy County, NM (NAN27 NME)
Site: Burch Keely Unit #651
Well: Burch Keely Unit #651
Wellbore: OH
Design: Plan #1 - 7-7/8" Hole

Local Co-ordinate Reference: Site Burch Keely Unit #651
TVD Reference: GL @ 3624 00usft
MD Reference: GL @ 3624 00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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:	Burch Keely Unit #651		
Site Position:		Northing:	663,306.60 usft
From:	Map	Easting:	597,436.60 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 49' 23.215 N
		Longitude:	104° 0' 58.143 W
		Grid Convergence:	0.17 °

Well:	Burch Keely Unit #651		
Well Position:	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty:	0.00 usft	Wellhead Elevation:	
		Latitude:	32° 49' 23.215 N
		Longitude:	104° 0' 58.143 W
		Ground Level:	3,624.00 usft

Wellbore:	OH		
Magnetics:	Model Name	Sample Date	Declination
	IGRF2010	05/17/12	7.72
			Dip Angle
			60.64
			Field Strength
			48,834

Design:	Plan #1 - 7-7/8" Hole		
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
			Direction
			162.40

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(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	
1,150.00	0.00	0.00	1,150.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,361.12	4.22	162.40	1,360.93	-7.41	2.35	2.00	2.00	0.00	162.40	
3,795.87	4.22	162.40	3,789.07	-178.29	58.55	0.00	0.00	0.00	0.00	
4,006.99	0.00	0.00	4,000.00	-185.70	58.90	2.00	-2.00	0.00	180.00	T1-BKU #651
4,806.99	0.00	0.00	4,800.00	-185.70	58.90	0.00	0.00	0.00	0.00	PBHL-BKU #651



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Site: Burch Keely Unit #651
Well: Burch Keely Unit #651
Wellbore: OH
Design: Plan #1 - 7-7/8" Hole

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

Site Burch Keely Unit #651
GL @ 3624.00usft
GL @ 3624 00usft
Grid
Minimum Curvature

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"									
1,150.00	0.00	0.00	1,150.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start Build 2.00°/100'									
1,200.00	1.00	162.40	1,200.00	-0.42	0.13	0.44	2.00	2.00	0.00
1,300.00	3.00	162.40	1,299.93	-3.74	1.19	3.93	2.00	2.00	0.00
1,361.12	4.22	162.40	1,360.93	-7.41	2.35	7.78	2.00	2.00	0.00
Hold 4.22°									
1,400.00	4.22	162.40	1,399.70	-10.14	3.22	10.64	0.00	0.00	0.00
1,500.00	4.22	162.40	1,499.43	-17.16	5.44	18.00	0.00	0.00	0.00
1,600.00	4.22	162.40	1,599.18	-24.18	7.67	25.36	0.00	0.00	0.00
1,700.00	4.22	162.40	1,698.89	-31.20	9.89	32.73	0.00	0.00	0.00
1,800.00	4.22	162.40	1,798.62	-38.21	12.12	40.09	0.00	0.00	0.00
1,900.00	4.22	162.40	1,898.35	-45.23	14.35	47.45	0.00	0.00	0.00
2,000.00	4.22	162.40	1,998.07	-52.25	16.57	54.82	0.00	0.00	0.00
2,100.00	4.22	162.40	2,097.80	-59.27	18.80	62.18	0.00	0.00	0.00
2,200.00	4.22	162.40	2,197.53	-66.29	21.02	69.54	0.00	0.00	0.00
2,300.00	4.22	162.40	2,297.28	-73.30	23.25	76.90	0.00	0.00	0.00
2,400.00	4.22	162.40	2,396.99	-80.32	25.48	84.27	0.00	0.00	0.00
2,500.00	4.22	162.40	2,496.72	-87.34	27.70	91.63	0.00	0.00	0.00
2,600.00	4.22	162.40	2,596.45	-94.36	29.93	98.99	0.00	0.00	0.00
2,700.00	4.22	162.40	2,696.17	-101.38	32.15	106.35	0.00	0.00	0.00
2,800.00	4.22	162.40	2,795.90	-108.40	34.38	113.72	0.00	0.00	0.00
2,900.00	4.22	162.40	2,895.63	-115.41	36.61	121.08	0.00	0.00	0.00
3,000.00	4.22	162.40	2,995.36	-122.43	38.83	128.44	0.00	0.00	0.00
3,100.00	4.22	162.40	3,095.09	-129.45	41.08	135.81	0.00	0.00	0.00
3,200.00	4.22	162.40	3,194.82	-136.47	43.28	143.17	0.00	0.00	0.00
3,300.00	4.22	162.40	3,294.55	-143.49	45.51	150.53	0.00	0.00	0.00
3,400.00	4.22	162.40	3,394.28	-150.51	47.74	157.89	0.00	0.00	0.00
3,500.00	4.22	162.40	3,494.00	-157.52	49.96	165.26	0.00	0.00	0.00
3,600.00	4.22	162.40	3,593.73	-164.54	52.19	172.62	0.00	0.00	0.00
3,700.00	4.22	162.40	3,693.46	-171.56	54.42	179.98	0.00	0.00	0.00
3,795.87	4.22	162.40	3,789.07	-178.29	56.55	187.04	0.00	0.00	0.00
Start Drop 2.00°/100'									
3,800.00	4.14	162.40	3,793.19	-178.58	56.64	187.34	2.00	-2.00	0.00
3,900.00	2.14	162.40	3,893.03	-183.80	58.30	192.82	2.00	-2.00	0.00
4,000.00	0.14	162.40	3,993.01	-185.69	58.90	194.81	2.00	-2.00	0.00
4,006.99	0.00	0.00	4,000.00	-185.70	58.90	194.82	2.00	-2.00	0.00
Hold 0.00° - Top of Paddock - T1-BKU #651									
4,806.99	0.00	0.00	4,800.00	-185.70	58.90	194.82	0.00	0.00	0.00
PBHL-BKU #651									



Scientific Drilling International, Inc.

Planning Report



Database: EDM 5000 1 Single User Db
Company: COG Operating LLC
Project: Eddy County, NM (NAN27 NME)
Site: Burch Keely Unit #651
Well: Burch Keely Unit #651
Wellbore: OH
Design: Plan #1 - 7-7/8" Hole

Local Co-ordinate Reference: Site Burch Keely Unit #651
TVD Reference: GL @ 3624 00usft
MD Reference: GL @ 3624 00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets

Target Name	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
T1-BKU #651	0 00	0 00	4,000 00	-185 70	58.90	663,120 90	597,495 50	32° 49' 21.375 N	104° 0' 57.460 W
- plan hits target center									
- Circle (radius 10 00)									
PBHL-BKU #651	0 00	0 00	4,800 00	-185 70	58 90	663,120 90	597,495 50	32° 49' 21.375 N	104° 0' 57.460 W
- plan hits target center									
- Circle (radius 10 00)									

Casing Points

Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter
(usft)	(usft)		(")	(")
1,050 00	1,050 00	8 5/8"	8-5/8	12-1/4

Formations

Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(usft)	(usft)			(°)	(°)
4,006.99	4,000 00	Top of Paddock		0 00	

Plan Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
1,150 00	1,150 00	0 00	0 00	KOP Start Build 2.00°/100'
1,361.12	1,360 93	-7 41	2 35	Hold 4 22°
3,795 87	3,789.07	-178.29	56.55	Start Drop 2 00°/100'
4,006 99	4,000 00	-185 70	58 90	Hold 0 00°



Azimuths to Grid North
True North -0 17°
Magnetic North 7 55°

Magnetic Field
Strength: 48834 1snT
Dip Angle: 60 64°
Date: 05/17/2012
Model: IGRF2010

Burch Keely Unit #651
Eddy County, NM (NAN27 NME)
Northing: (Y) 663306.60
Easting: (X) 597436.60
Plan #1 - 7-7/8" Hole

WELL DETAILS: Burch Keely Unit #651

+N/-S	+E/-W	Northing	Ground Level	3624 00	Latitude	Longitude
0.00	0.00	663306.60	Easting	597436.60	23 21 5 N	104° 0' 58 143 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	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	1361.12	4.22	162.40	1360.93	-7.41	2.35	2.00	162.40	7.78	
4	3795.87	4.22	162.40	3789.07	-178.29	56.55	0.00	0.00	187.04	
5	4006.99	0.00	0.00	4000.00	-185.70	58.90	2.00	180.00	194.82	T1-BKU #651
6	4806.99	0.00	0.00	4800.00	-185.70	58.90	0.00	0.00	194.82	PBHL-BKU #651

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
T1-BKU #651	4000.00	-185.70	58.90	663120.90	597495.582°	49' 21 375 N	104° 0' 57 460 W
- plan hits target center							
PBHL-BKU #651	4800.00	-185.70	58.90	663120.90	597495.582°	49' 21 375 N	104° 0' 57 460 W
- plan hits target center							

SITE DETAILS: Burch Keely Unit #651

Site Centre Northing: 663306.60
Easting: 597436.60

Positional Uncertainty: 0.00
Convergence: 0.17
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

FORMATION TOP DETAILS

TVDPath	MDPath	Formation	DipAngle	DipDir
4000.00	4006.99	Top of Paddock	0.00	

LEGEND

— Plan #1 - 7-7/8" Hole

