

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 NMLC028784A
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 NMNM88525X
3a. Address ONE CONCHO CENTER 600 W ILLINOIS AVENUE MIDLAND, TX 79701	3b. Phone No (include area code) Ph: 432-685-4384	8. Well Name and No BURCH KEELY UNIT 543
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 13 T17S R29E SWSW 376FSL 1153FWL		9. API Well No 30-015-39565-00-X1
		10. Field and Pool, or Exploratory BURCH KEELY-GLORIETA-UPPER
		11. County or Parish, and State EDDY COUNTY, NM

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

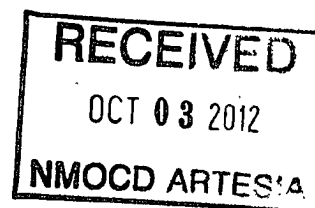
TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ 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 recomplete 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 Operating LLC submitted APD for this well at this location.
SHL: 376' FSL & 1153' FWL, Unit M

COG Operating LLC respectfully requests permission to add a BHL:
SHL: 376' FSL & 1153' FWL, Unit M
BHL: 10' FSL & 1295' FWL, Unit M

A revised C-102, 1 mile map and directional plan are attached



Accepted for record

NMOCD *tes 10/4/2012*

14. I hereby certify that the foregoing is true and correct	
Electronic Submission #139749 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad Committed to AFMSS for processing by KURT SIMMONS on 06/14/2012 (12KMS2309SE)	
Name (Printed/Typed) KELLY J HOLLY	Title PERMITTING TECH
Signature (Electronic Submission)	Date 06/05/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHRISTOPHER WALLS	Title PETROLEUM ENGINEER	Date 10/01/2012
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

Accepted for record

NMOCD

705
10/4/12

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-39565	Pool Code 97918	Pool Name Burch Keely; Glorieta-Upper Yeso
Property Code 308086	Property Name BURCH KEELY UNIT	Well Number 543
OGRID No. 229137	Operator Name COG PERATING, LLC	Elevation 3611'

Surface Location

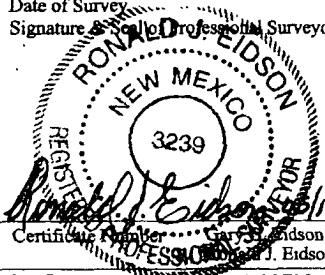
UL or lot No. M	Section 13	Township 17-S	Range 29-E	Lot Idn	Feet from the 376	North/South line SOUTH	Feet from the 1153	East/West line WEST	County EDDY
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Bottom Hole Location If Different From Surface

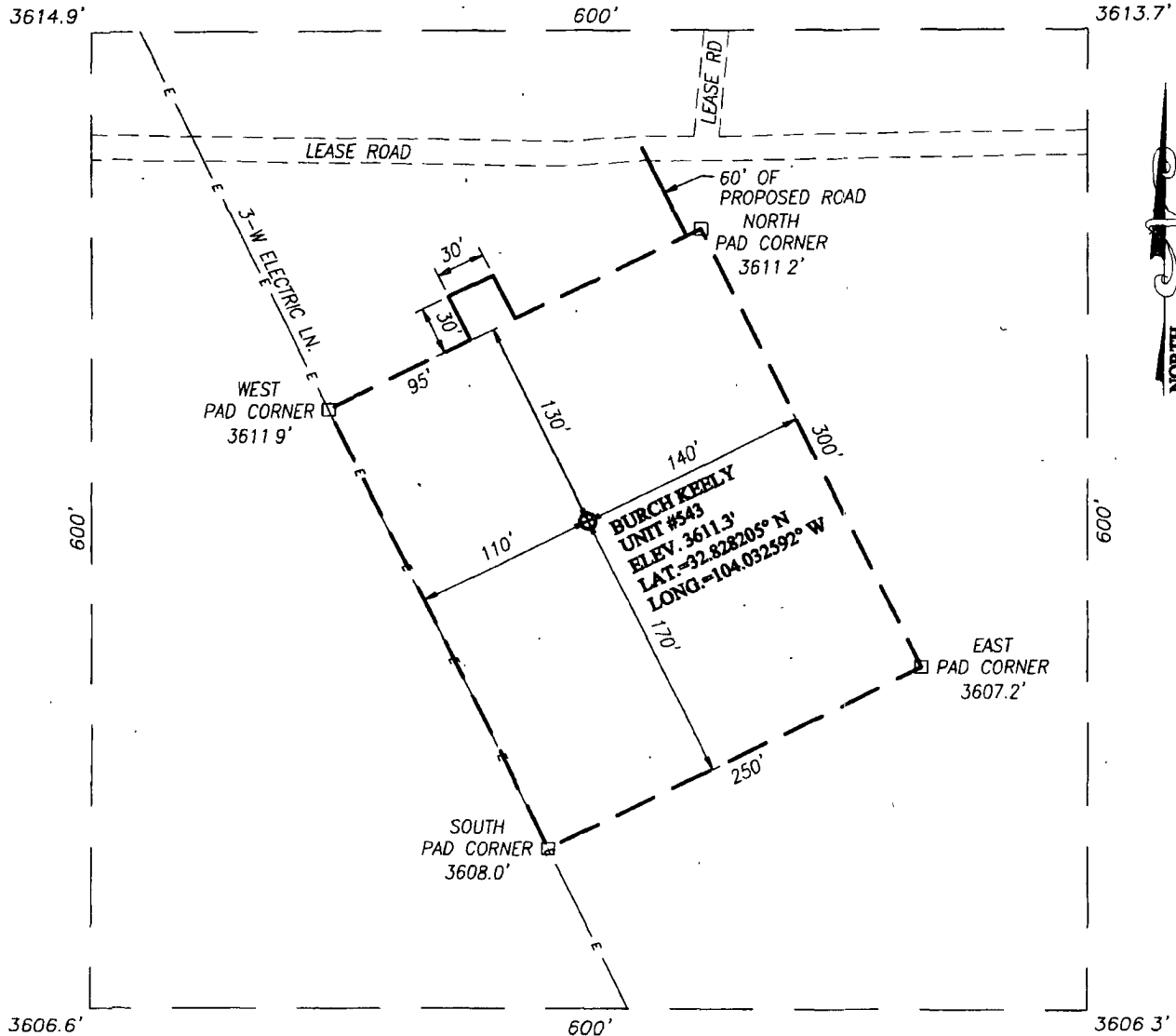
UL or lot No. M	Section 13	Township 17-S	Range 29-E	Lot Idn	Feet from the 10	North/South line SOUTH	Feet from the 1295	East/West line WEST	County EDDY
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Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

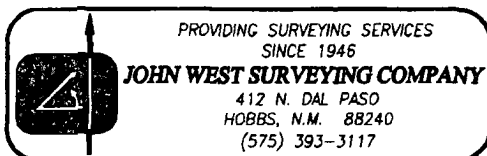
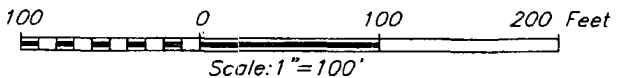
DETAIL 3614.9' 3613.7' 600' 3606.6' 3606.3' A H H H B SEE DETAIL 1295' 1153' 376' 10' BH Estimated completed interval: 84 FSL + 1247 FWL GRID AZ = 158°40'29" HORIZ. DIST. = 392.7'	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=665143.6 N X=592380.7 E LAT.=32.828205° N LONG.=104.032592° W BOTTOM HOLE LOCATION Y=664777.9 N X=592523.5 E CORNER COORDINATES A-Y=666084.2 N; X=591225.5 E B-Y=666087.4 N; X=592545.3 E C-Y=664768.0 N; X=592548.4 E D-Y=664765.0 N; X=591228.9 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  6-5-12 Signature Date Kelly J. Holly Printed Name kholly@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. AUGUST 6, 2011 Date of Survey Signature of Registered Professional Surveyor  3239 Certification Number 12641 Professional Surveyor J. Eidson 3239 DSS/DSR JWSC W.O. 12.13 0927
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SECTION 13, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF U.S. HWY. #82 AND CO. RD. #215 (KEWANEE), GO NORTH ON CO. RD. #215 APPROX. 0.5 MILES. TURN RIGHT AND GO EAST APPROX. 0.2 MILES. THIS LOCATION STAKE IS APPROX. 225 FEET SOUTH OF LEASE ROAD.

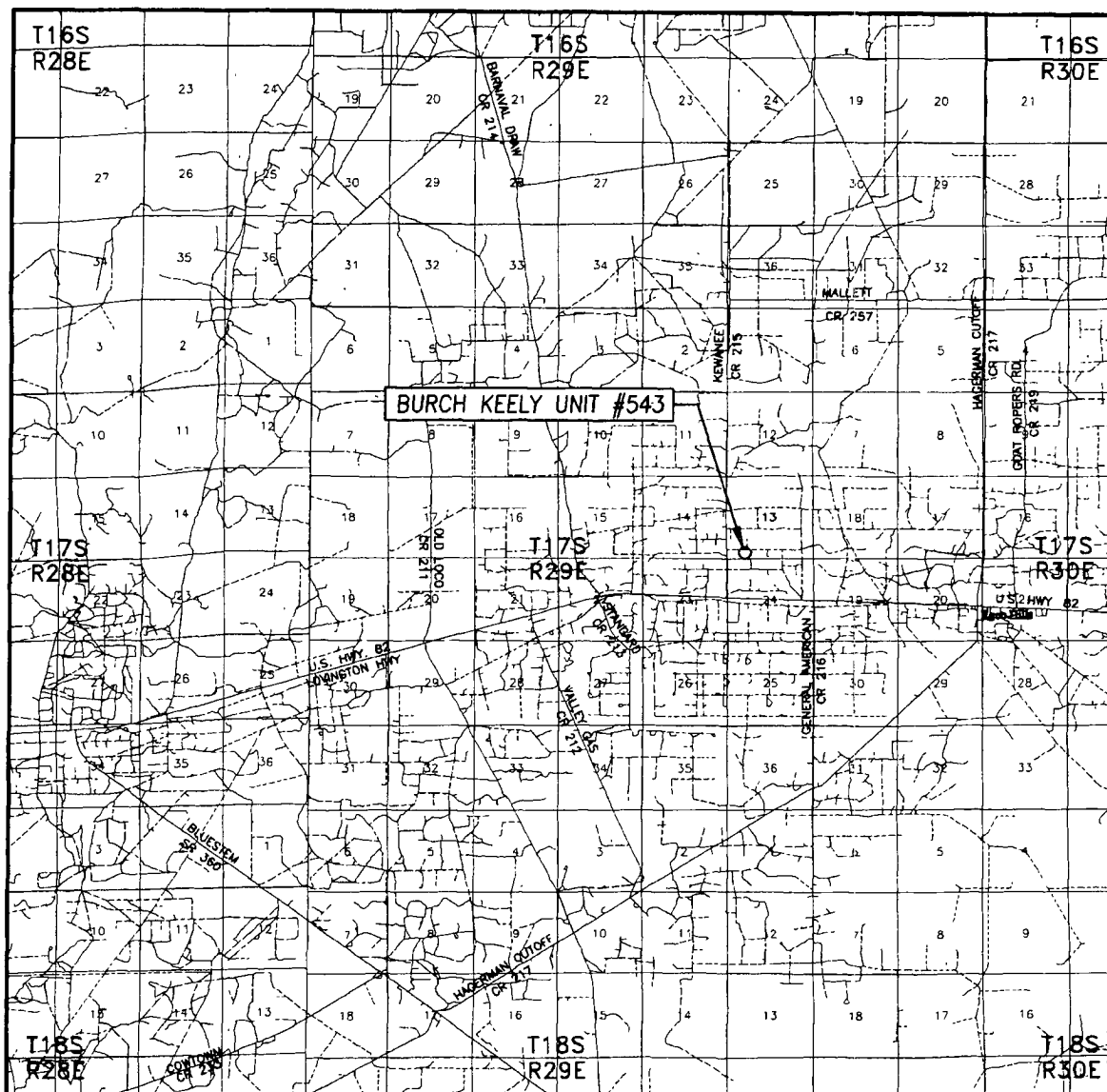


COG OPERATING, LLC

BURCH KEELY UNIT #543 WELL
 LOCATED 376 FEET FROM THE SOUTH LINE
 AND 1153 FEET FROM THE WEST LINE OF SECTION 13,
 TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO

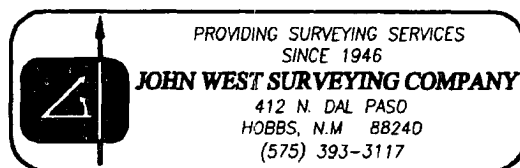
Survey Date: 8/6/11	Sheet 1 of 1 Sheets
W.O. Number: 11.11.1350	Dr By: DSS
Date: 8/12/11	Rel. W.O. 11111350
	Scale: 1"=100'

VICINITY MAP

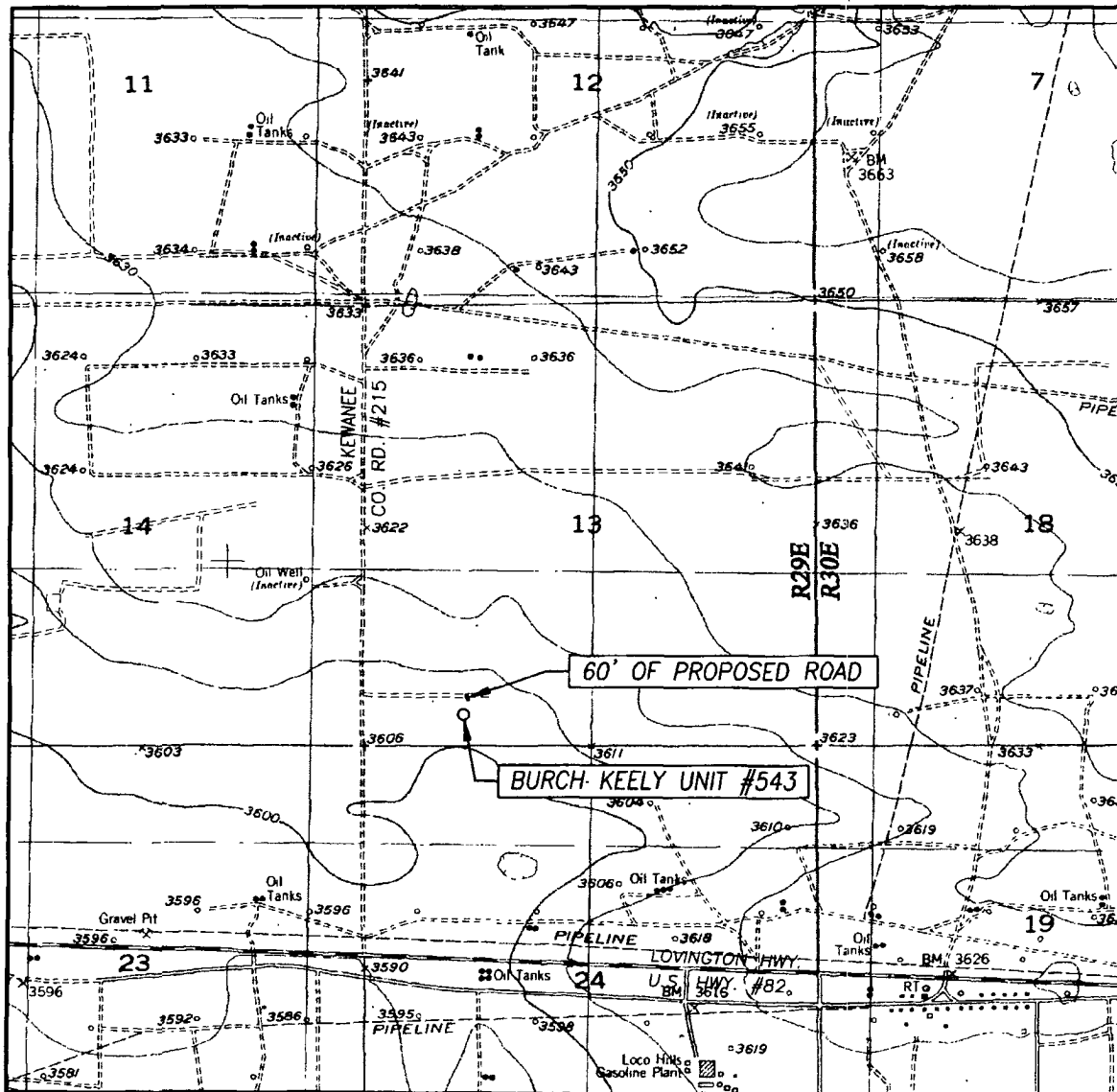


SCALE: 1" = 2 MILES

SEC. 13 TWP. 17-S RGE. 29-E
SURVEY _____ N.M.P.M. _____
COUNTY EDDY STATE NEW MEXICO
DESCRIPTION 376' FSL & 1153' FWL
ELEVATION _____ 3611' _____
OPERATOR COG OPERATING, LLC
LEASE BURCH KEELY UNIT



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
RED LAKE SE, N.M. - 10'

SEC. 13 TWP. 17-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

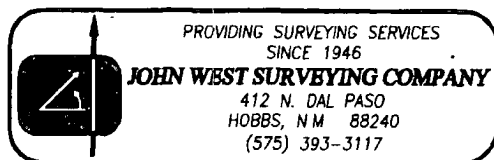
DESCRIPTION 376' FSL & 1153' FWL

ELEVATION 3611'

OPERATOR COG OPERATING, INC.

LEASE BURCH KEELY UNIT

U.S.G.S. TOPOGRAPHIC MAP
RED LAKE SE, N.M.





COG Operating LLC

Eddy County, NM (NAN27 NME)

Burch Keely Unit #543

OH

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

Surface: 376' FSL, 1153' FWL, Sec 13, T17S, R29E, Unit M

BHL: 10' FSL, 1295' FWL, Sec 13, T17S, R29E, Unit M

Top of Paddock = 292' South of Surface & 114' East of Surface @ 4100' TVD

Standard Planning Report

01 June, 2012





Scientific Drilling International, Inc.
Planning Report



EDM 5000.1 Single User Db	Site Burch Keely Unit #543
COG Operating LLC	GL @ 3611.00usft
Eddy County, NM (NAN27 NME)	GL @ 3611.00usft
Burch Keely Unit #543	Grid
Burch Keely Unit #543	Minimum Curvature
OH	
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: Burch Keely Unit #543					
Site Position:	Northings:	665,143.60 usft	Latitude:	32° 49' 41.539 N	
From: Map	Easting:	592,380.70 usft	Longitude:	104° 1' 57.331 W	
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.16°

Well: Burch Keely Unit #543						
Well Position	+N/-S	0.00 usft	Northings:	665,143.60 usft	Latitude:	32° 49' 41.539 N
	+E/-W	0.00 usft	Easting:	592,380.70 usft	Longitude:	104° 1' 57.331 W
Position Uncertainty	0.00 usft	Wellhead Elevation:		Ground Level:	3,611.00 usft	

Wellbore: OH					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(mT)
	IGRF2010	06/01/12	7.73	60.64	48.831

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	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	158.67

Plan Section:										
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	
1,470.97	6.42	158.67	1,470.30	-16.73	6.53	2.00	2.00	49.43	158.67	
4,821.68	6.42	158.67	4,800.00	-365.70	142.80	0.00	0.00	0.00	0.00	PBHL-BKU #543



Scientific Drilling International, Inc.
Planning Report



EDM 5000.1 Single User Db
COG Operating LLC
Eddy County, NM (NAN27 NME)
Burch Keely Unit #543
Burch Keely Unit #543
OH
Plan #1 - 7-7/8" Hole

Site Burch Keely Unit #543
GL @ 3811.00usft
GL @ 3811.00usft
Grid
Minimum Curvature

Depth (ft)	Interval (ft)	Interval (ft)	Interval (ft)	Interval (ft)	Interval (ft)	Interval (ft)	Interval (ft)	Interval (ft)	Interval (ft)
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 Build 2.00"/100'									
1,200.00	1.00	158.67	1,200.00	-0.41	0.16	0.44	2.00	2.00	0.00
1,300.00	3.00	158.67	1,299.93	-3.66	1.43	3.93	2.00	2.00	0.00
1,400.00	5.00	158.67	1,399.68	-10.15	3.97	10.90	2.00	2.00	0.00
1,470.97	6.42	158.67	1,470.30	-16.73	6.53	17.96	2.00	2.00	0.00
Hold 6.42"									
1,500.00	6.42	158.67	1,499.15	-19.75	7.71	21.21	0.00	0.00	0.00
1,600.00	6.42	158.67	1,598.52	-30.17	11.78	32.39	0.00	0.00	0.00
1,700.00	6.42	158.67	1,697.89	-40.58	15.85	43.57	0.00	0.00	0.00
1,800.00	6.42	158.67	1,797.27	-51.00	19.91	54.75	0.00	0.00	0.00
1,900.00	6.42	158.67	1,896.64	-61.41	23.98	65.93	0.00	0.00	0.00
2,000.00	6.42	158.67	1,996.01	-71.83	28.05	77.11	0.00	0.00	0.00
2,100.00	6.42	158.67	2,095.38	-82.24	32.11	88.29	0.00	0.00	0.00
2,200.00	6.42	158.67	2,194.76	-92.66	36.18	99.47	0.00	0.00	0.00
2,300.00	6.42	158.67	2,294.13	-103.07	40.25	110.65	0.00	0.00	0.00
2,400.00	6.42	158.67	2,393.50	-113.49	44.32	121.83	0.00	0.00	0.00
2,500.00	6.42	158.67	2,492.88	-123.90	48.38	133.01	0.00	0.00	0.00
2,600.00	6.42	158.67	2,592.25	-134.32	52.45	144.19	0.00	0.00	0.00
2,700.00	6.42	158.67	2,691.62	-144.73	56.52	155.37	0.00	0.00	0.00
2,800.00	6.42	158.67	2,791.00	-155.15	60.58	166.58	0.00	0.00	0.00
2,900.00	6.42	158.67	2,890.37	-165.56	64.65	177.74	0.00	0.00	0.00
3,000.00	6.42	158.67	2,989.74	-175.98	68.72	188.92	0.00	0.00	0.00
3,100.00	6.42	158.67	3,089.12	-186.39	72.78	200.10	0.00	0.00	0.00
3,200.00	6.42	158.67	3,188.49	-196.81	76.85	211.28	0.00	0.00	0.00
3,300.00	6.42	158.67	3,287.86	-207.22	80.92	222.46	0.00	0.00	0.00
3,400.00	6.42	158.67	3,387.23	-217.64	84.98	233.64	0.00	0.00	0.00
3,500.00	6.42	158.67	3,486.61	-228.05	89.05	244.82	0.00	0.00	0.00
3,600.00	6.42	158.67	3,585.98	-238.46	93.12	256.00	0.00	0.00	0.00
3,700.00	6.42	158.67	3,685.35	-248.88	97.18	267.18	0.00	0.00	0.00
3,800.00	6.42	158.67	3,784.73	-259.29	101.25	278.36	0.00	0.00	0.00
3,900.00	6.42	158.67	3,884.10	-269.71	105.32	289.54	0.00	0.00	0.00
4,000.00	6.42	158.67	3,983.47	-280.12	109.38	300.72	0.00	0.00	0.00
4,100.00	6.42	158.67	4,082.85	-290.54	113.45	311.90	0.00	0.00	0.00
4,117.26	6.42	158.67	4,100.00	-292.34	114.15	313.83	0.00	0.00	0.00
Top of Paddock									
4,200.00	6.42	158.67	4,182.22	-300.95	117.52	323.08	0.00	0.00	0.00
4,300.00	6.42	158.67	4,281.59	-311.37	121.58	334.26	0.00	0.00	0.00
4,400.00	6.42	158.67	4,380.96	-321.78	125.65	345.45	0.00	0.00	0.00
4,500.00	6.42	158.67	4,480.34	-332.20	129.72	356.63	0.00	0.00	0.00
4,600.00	6.42	158.67	4,579.71	-342.61	133.78	367.81	0.00	0.00	0.00
4,700.00	6.42	158.67	4,679.08	-353.03	137.85	378.99	0.00	0.00	0.00
4,800.00	6.42	158.67	4,778.46	-363.44	141.92	390.17	0.00	0.00	0.00
4,821.68	6.42	158.67	4,800.00	-365.70	142.80	392.59	0.00	0.00	0.00
PBHL-BKU #543									



Scientific Drilling International, Inc.
Planning Report



Database	EDM 5000.1 Single User Db	Local Coordinates Reference	Site Burch Keely Unit #543
Company	COG Operating LLC	East Reference	GL @ 3611.00usft
Project	Eddy County, NM (NAN27 NME)	Site Reference	GL @ 3611.00usft
Site	Burch Keely Unit #543	North Reference	Grid
Well	Burch Keely Unit #543	Survey Information Method	Minimum Curvature
Well Name	OH		
Design	Plan #1 - 7-7/8" Hole		

Target Point									
Horizontal Point Name	Distance (ft)	Offset (ft)	True (usft)	MLB (usft)	FEW (usft)	North (usft)	East (usft)	Latitude	Longitude
PBHL-BKU #543	0.00	0.00	4,800.00	-365.70	142.80	664,777.90	592,523.50	32° 49' 37.916 N	104° 1' 55.670 W
- plan hits target center									
- Circle (radius 10.00)									

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 (°)	Dip Direction (°)	
4,117.26	4,100.00	Top of Paddock		0.00		

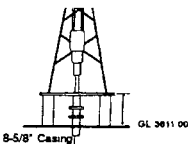
Run Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates (usft)		Comment	
		MLB	FEW		
1,150.00	1,150.00	0.00	0.00	Start Build 2.00"/100'	
1,470.97	1,470.30	-16.73	6.53	Hold 6.42°	



Burch Keely Unit #543
Eddy County, NM (NAN27 NME)
Northing (Y) 665143.60
Easting (X) 592380.70
Plan #1 - 7-7/8" Hole



Adjustments to Grid North
True North: 0.18°
Magnetic North: 7.56°
Magnetic Field
Strength: 48531.3nT
Dip Angle: 60.64°
Date: 05/01/2013
Model: IGRF2010



WELL DETAILS

Burch Keely Unit #543

	+N-S	+E-W	Northing	Ground Level	3611.00	Latitude	Longitude	Spot
	0.00	0.00	665143.60	592380.70		32° 46' 41.530 N	104° 1' 57.331 W	

SITE DETAILS:

Burch Keely Unit #543
Site Center Northing: 665143.60
Easting: 592380.70
Positional Uncertainty: 0.00
Convergence: 0.18
Local North: Grid

SECTION DETAILS

Sec	MD	Inc	Adj	TVD	+N-S	+E-W	Dip	TFace	VSeal	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1159.00	0.00	0.00	1159.00	0.00	0.00	0.00	0.00	0.00	
3	1470.87	6.42	158.97	1470.30	-16.73	6.83	2.00	158.97	17.66	
4	4821.86	6.42	158.97	4800.00	-385.70	142.80	0.00	0.00	362.69	PBHL-BKU #543

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape
PBHL-BKU #543	4800.00	-385.70	142.80	664777.90	592323.50	32° 46' 37.816 N	104° 1' 55.870 W	Circle (Radius: 10.00)

- plan into target center

FORMATION TOP DETAILS

TVDPath	MDPath	Formation	DipAngle	DipDir
4100.00	4117.26	Top of Padlock	0.00	

CASING DETAILS

TVD	MD	Name	Size
1050.00	1050.00	8-5/8" Casing	8-5/8"

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

