

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. NMLC028784C
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 550 WEST TEXAS AVENUE SUITE 100 MIDLAND, TX 79701	3b. Phone No. (include area code) Ph. 432-685-4384	8. Well Name and No. BURCH KEELY UNIT 530
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 13 T17S R29E SENE Lot H 2310FNL 1043FEL		9. API Well No. 30-015-39519-00-X1
		10. Field and Pool, or Exploratory GRAYBURG JACKSON
		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.

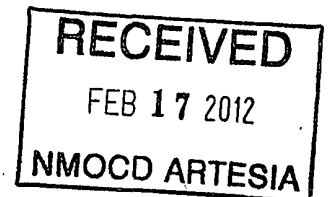
2310' FNL & 1043' FEL, SEC 13, T17S, R29E, Unit H

COG Operating respectfully requests permission to add a BHL:

SHL: 2310' FNL & 1043' FEL, Sec 13, T17S, R29E, Unit H

BHL: 2400' FNL & 770' FEL, Sec 13, T17S, R29E, Unit H

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

APDade 02/20/2012
Accepted for record
NMOCD

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #128558 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad Committed to AFMSS for processing by JAMES (JIM) HUGHES on 01/18/2012 (12JLH0332SE)	
Name (Printed/Typed) KELLY J HOLLY	Title PERMITTING TECH
Signature (Electronic Submission)	Date 01/18/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>CHRISTOPHER WALLS</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>02/15/2012</u>
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 <u>Carlsbad</u>

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.

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	Pool Code	Pool Name
30-015-39519	28509	Grayburg Jackson; SR-Q-G-SA
Property Code	Property Name	Well Number
308086	BURCH KEELY UNIT	530
OGRID No.	Operator Name	Elevation
229137	COG OPERATING, LLC	3634'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	13	17-S	29-E		2310	NORTH	1043	EAST	EDDY

Bottom Hole Location If Different From Surface

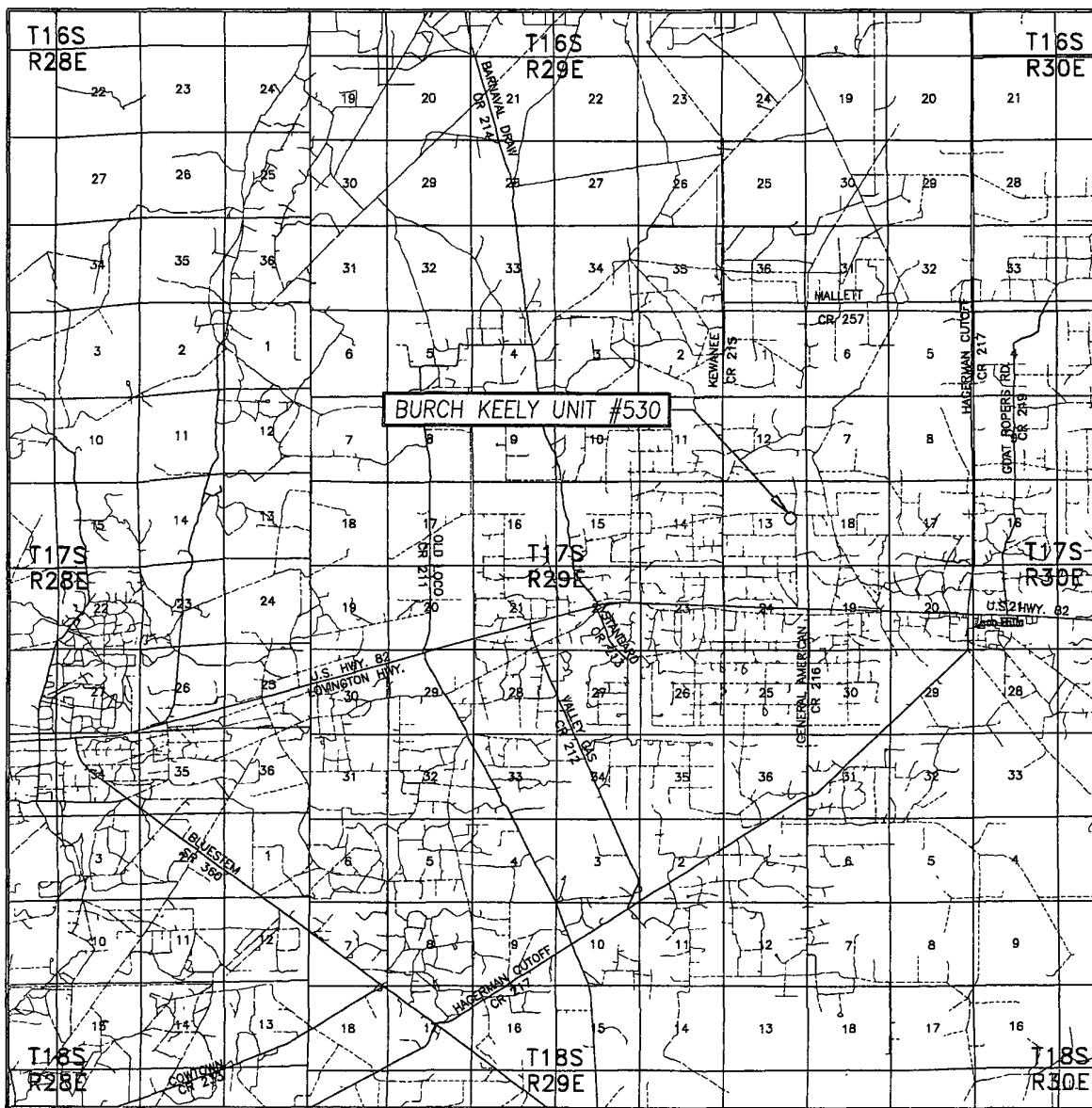
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	13	17-S	29-E		2400	NORTH	770	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
40			

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		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. 1-18-2012 Signature Date Kelly J. Holly Printed Name kholly@concho.com E-mail Address
GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=667742.6 N X=595459.1 E LAT.=32.835325° N LONG.=104.022546° W	GRID AZ.=108°04'30" HORIZ. DIST.=287.7'	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 20, 2011 Date of Survey Professional Surveyor: Signature & Seal of Professional Surveyor: Certificate Number Gary G. Eidson 12641 Randy J. Eidson 3239 ACR REL. 11.13.2698 JWSC W.O. 11.13.2698
BOTTOM HOLE LOCATION Y=667653.4 N X=595732.5 E	CORNER COORDINATES TABLE Ⓐ - Y=668732.6 N, X=595178.5 E Ⓑ - Y=668735.8 N, X=596498.7 E Ⓒ - Y=667413.6 N, X=595181.5 E Ⓓ - Y=667417.1 N, X=596503.2 E	

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 2310' FNL & 1043' FEL

ELEVATION 3634'

OPERATOR COG OPERATING, LLC

LEASE BURCH KEELY UNIT

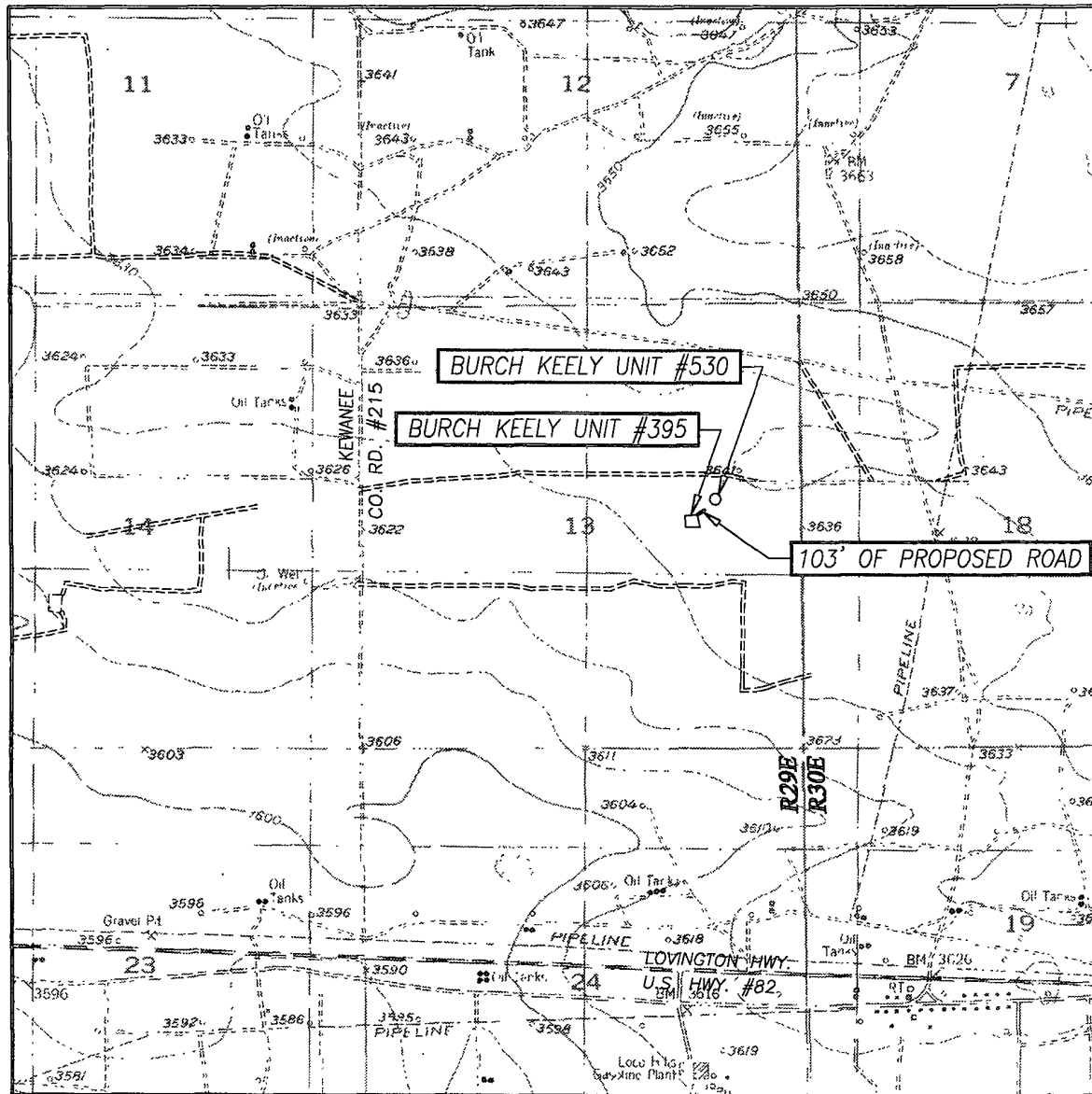


PROVIDING SURVEYING SERVICES
SINCE 1946

JOHN WEST SURVEYING COMPANY

412 N. DAL PASO
HOBBS, N.M. 88240
(575) 393-3117

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

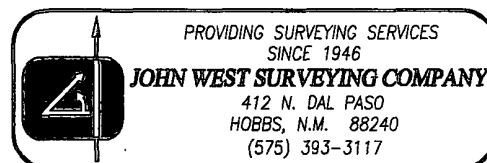
DESCRIPTION 2310' FNL & 1043' FEL

ELEVATION 3634'

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 #530

Burch Keely Unit #530

OH

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

SHL = 2310' FNL & 1043' FEL

BHL = 2400' FNL & 770' FEL

Top of Paddock = 2400' FNL & 770' FEL @ 4100' TVD

Standard Planning Report

13 January, 2012





SDI
Planning Report



EDM 5000.1 Single User Db	Site Burch Keely Unit #530
COG Operating LLC	GL @ 3634.00usft
Eddy County, NM (NAN27 NME)	GL @ 3634.00usft
Burch Keely Unit #530	Grid
Burch Keely Unit #530	Minimum Curvature
OH	
Plan #1 - 7-7/8" Hole	

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	

Burch Keely Unit #530					
Site Position:		Northings:	667,742.60 usft	Latitude:	32° 50' 7.168 N
From:	Map	Easting:	595,459.10 usft	Longitude:	104° 1' 21.164 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.17 °

Burch Keely Unit #530						
Well Position	+N/-S	0.00 usft	Northings:	667,742.60 usft	Latitude:	32° 50' 7.168 N
	+E/-W	0.00 usft	Easting:	595,459.10 usft	Longitude:	104° 1' 21.164 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,634.00 usft

OH					
IGRF2010	2012/01/13	7.77	60.66	48.875	

Plan #1 - 7-7/8" Hole				
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
	0.00	0.00	0.00	108.07

Depth (ft)	Time (min)	Rate (ft/min)	Depth (ft)	Time (min)	Rate (ft/min)	Depth (ft)	Time (min)	Rate (ft/min)	Depth (ft)
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
1,461.00	6.22	108.07	1,460.39	-5.23	16.03	2.00	2.00	0.00	108.07
3,804.02	6.22	108.07	3,789.61	-83.97	257.37	0.00	0.00	0.00	0.00
4,115.01	0.00	0.01	4,100.00	-89.20	273.40	2.00	-2.00	0.00	180.00 TG1-BKU #530
4,815.01	0.00	0.01	4,800.00	-89.20	273.40	0.00	0.00	0.00	0.01 PBHL-BKU #530



SDI
Planning Report



EDM 5000.1 Single User Db	Site Burch Keely Unit #530
COG Operating LLC	GL @ 3634.00usft
Eddy County, NM (NAN27 NME)	GL @ 3634.00usft
Burch Keely Unit #530	Grid
Burch Keely Unit #530	Minimum Curvature
OH	
Plan #1 - 7-7/8" Hole	

Depth	Interval	Angle	Rate	True	Apparent	Vertical	Horizontal	Vertical	Horizontal
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
9-5/8" 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	108.07	1,200.00	-0.14	0.41	0.44	2.00	2.00	0.00
1,300.00	3.00	108.07	1,299.93	-1.22	3.73	3.93	2.00	2.00	0.00
1,400.00	5.00	108.07	1,399.68	-3.38	10.36	10.90	2.00	2.00	0.00
1,461.00	6.22	108.07	1,460.39	-5.23	16.03	16.86	2.00	2.00	0.00
Hold 6.22°									
1,500.00	6.22	108.07	1,499.16	-6.54	20.05	21.09	0.00	0.00	0.00
1,600.00	6.22	108.07	1,598.57	-9.90	30.35	31.92	0.00	0.00	0.00
1,700.00	6.22	108.07	1,697.98	-13.26	40.65	42.76	0.00	0.00	0.00
1,800.00	6.22	108.07	1,797.39	-16.62	50.95	53.59	0.00	0.00	0.00
1,900.00	6.22	108.07	1,896.81	-19.98	61.25	64.43	0.00	0.00	0.00
2,000.00	6.22	108.07	1,996.22	-23.34	71.55	75.26	0.00	0.00	0.00
2,100.00	6.22	108.07	2,095.63	-26.70	81.85	86.10	0.00	0.00	0.00
2,200.00	6.22	108.07	2,195.04	-30.07	92.15	96.93	0.00	0.00	0.00
2,300.00	6.22	108.07	2,294.45	-33.43	102.45	107.77	0.00	0.00	0.00
2,400.00	6.22	108.07	2,393.86	-36.79	112.75	118.60	0.00	0.00	0.00
2,500.00	6.22	108.07	2,493.27	-40.15	123.05	129.44	0.00	0.00	0.00
2,600.00	6.22	108.07	2,592.68	-43.51	133.35	140.27	0.00	0.00	0.00
2,700.00	6.22	108.07	2,692.10	-46.87	143.65	151.10	0.00	0.00	0.00
2,800.00	6.22	108.07	2,791.51	-50.23	153.95	161.94	0.00	0.00	0.00
2,900.00	6.22	108.07	2,890.92	-53.59	164.25	172.77	0.00	0.00	0.00
3,000.00	6.22	108.07	2,990.33	-56.95	174.55	183.61	0.00	0.00	0.00
3,100.00	6.22	108.07	3,089.74	-60.31	184.85	194.44	0.00	0.00	0.00
3,200.00	6.22	108.07	3,189.15	-63.67	195.15	205.28	0.00	0.00	0.00
3,300.00	6.22	108.07	3,288.56	-67.03	205.45	216.11	0.00	0.00	0.00
3,400.00	6.22	108.07	3,387.98	-70.39	215.75	226.95	0.00	0.00	0.00
3,500.00	6.22	108.07	3,487.39	-73.75	226.05	237.78	0.00	0.00	0.00
3,600.00	6.22	108.07	3,586.80	-77.11	236.35	248.62	0.00	0.00	0.00
3,700.00	6.22	108.07	3,686.21	-80.47	246.65	259.45	0.00	0.00	0.00
3,800.00	6.22	108.07	3,785.62	-83.83	256.95	270.28	0.00	0.00	0.00
3,804.02	6.22	108.07	3,789.62	-83.97	257.37	270.72	0.00	0.00	0.00
Start Drop 2.00°/100'									
3,900.00	4.30	108.07	3,885.19	-86.70	265.73	279.52	2.00	-2.00	0.00
4,000.00	2.30	108.07	3,985.02	-88.48	271.21	285.27	2.00	-2.00	0.00
4,100.00	0.30	108.07	4,084.99	-89.19	273.36	287.54	2.00	-2.00	0.00
4,115.01	0.00	0.01	4,100.00	-89.20	273.40	287.58	2.00	-2.00	0.00
Hold 0.00° - Top of Paddock - TG1-SKU #530									
4,815.01	0.00	0.01	4,800.00	-89.20	273.40	287.58	0.00	0.00	0.00
PBHL-SKU #530									



SDI
Planning Report



EDM 5000.1 Single User Db	Site Burch Keely Unit #530
COG Operating LLC	GL @ 3634.00usft
Eddy County, NM (NAN27 NME)	GL @ 3634.00usft
Burch Keely Unit #530	Grid
Burch Keely Unit #530	Minimum Curvature
OH	
Plan #1 - 7-7/8" Hole	

Well Name	Depth (ft)	Interval (ft)	True Depth (ft)	True Azimuth (°)	True Inclination (°)	True Azimuth (°)	True Inclination (°)	True Azimuth (°)	True Inclination (°)
TG1-BKU #530	0.00	0.01	4,100.00	-89.20	273.40	667,653.40	595,732.50	32° 50' 6.278 N	104° 1' 17.963 W
- plan hits target center									
- Point									
PBHL-BKU #530	0.00	0.00	4,800.00	-89.20	273.40	667,653.40	595,732.50	32° 50' 6.278 N	104° 1' 17.963 W
- plan hits target center									
- Circle (radius 10.00)									

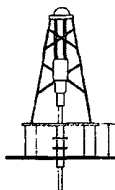
Well Name	Depth (ft)	Interval (ft)	True Depth (ft)	True Azimuth (°)	True Inclination (°)	True Azimuth (°)	True Inclination (°)	True Azimuth (°)	True Inclination (°)
	1,050.00	1,050.00	8-5/8" Casing			8-5/8	12-1/4		

Well Name	Depth (ft)	Interval (ft)	True Depth (ft)	True Azimuth (°)	True Inclination (°)	True Azimuth (°)	True Inclination (°)	True Azimuth (°)	True Inclination (°)
	4,115.01	4,100.00	Top of Paddock				0.00		

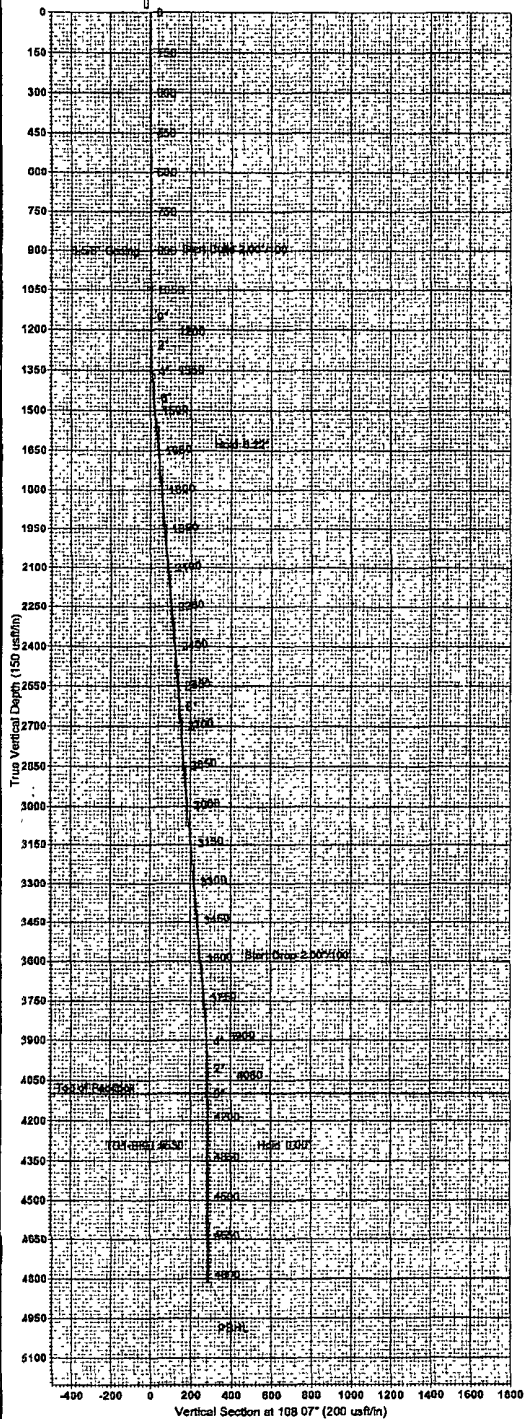
Well Name	Depth (ft)	Interval (ft)	True Depth (ft)	True Azimuth (°)	True Inclination (°)	True Azimuth (°)	True Inclination (°)	True Azimuth (°)	True Inclination (°)
	1,150.00	1,150.00	0.00	0.00	Start Build 2.00°/100'				
	1,481.00	1,480.39	-5.23	16.03	Hold 6.22°				
	3,804.02	3,789.62	-83.97	257.37	Start Drop 2.00°/100'				
	4,115.01	4,100.00	-89.20	273.40	Hold 0.00°				



Burch Keely Unit #530
Eddy County, NM (NAN27 NME)
Northing: (Y) 667742.60
Easting: (X) 595459.10
Plan #1 - 7-7/8" Hole



GL 3634.00



To convert a Magnetic Direction to a Grid Direction, Add 7.60°
To convert a True Direction to a Grid Direction, Subtract 0.17°

Atmosphere to Grid North
True North -0.17°
Magnetic North 7.60°
Magnetic Field
Strength 48674.8nT
Dip Angle 60.86°
Date 2012/01/13
Model IGRF2010

WELL DETAILS: Burch Keely Unit #530

Well ID	Well Name	Ground Level	Easting	Latitude	Longitude	Site
W-6	W-6	3634.00	595459.10	32° 50' 7.188 N	104° 1' 21.104 W	

SECTION DETAILS

Sec	MD	Inc	Alt	TVD	W-6	W-6	Deg	Face	V-sec	Target
1	1150.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1461.00	8.22	108.07	1460.39	-8.23	16.03	2.00	108.07	16.03	
3	3804.02	8.22	108.07	3769.61	-80.97	267.37	0.00	0.00	270.72	TG1-BKU 6530
4	4118.01	0.00	0.00	4100.00	-80.97	273.40	2.00	160.00	207.68	
5	4615.01	0.00	0.00	4600.00	-80.97	273.40	0.00	0.00	267.56	PD-L-BKU 6530

DESIGN TARGET DETAILS

Name	TVD	W-6	W-6	Northing	Easting	Latitude	Longitude	Shape
TG1-BKU 6530	4100.00	-80.97	273.40	667742.60	595732.50	32° 50' 6.278 N	104° 1' 17.653 W	Point
PD-L-BKU 6530	4500.00	-80.97	273.40	667653.40	595732.50	32° 50' 6.278 N	104° 1' 17.653 W	Circle (Radius 10.00)

SITE DETAILS: Burch Keely Unit #530

Site Center Northing: 667742.60
Easting: 595459.10
Positional Uncertainty: 0.00
Convergence: 0.17
Local North: Grid

PROJECT DETAILS: Eddy County, NM (NAN27 NME)

Geodetic System: US State Plane 1927 (East edition)
Datum: NAD 1927 (NADCON CONUS)
Elevation: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

FORMATION TOP DETAILS

TVDPath	MDPath	Formation	DipAngle	DipDir
4100.00	4115.01	Top of Pedestal	0.00	

CASING DETAILS

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

LEGEND

Plan #1 - 7-7/8" Hole

