

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 abandoned well. Use form 3160-3 (APD) for such proposals.

OCD Artesia

5. Lease Serial No
NMLC028784C

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 5242. Name of Operator
COG OPERATING LLCContact KELLY J HOLLY
E-Mail. kholly@conchoresources.com9. API Well No
30-015-39518-00-X13a. Address
550 WEST TEXAS AVENUE SUITE 100
MIDLAND, TX 797013b. Phone No (include area code)
Ph: 432-685-438410. Field and Pool, or Exploratory
GRAYBURG JACKSON

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

Sec 13 T17S R29E SENE Lot H 1690FNL 1308FEL

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.

1690' FNL & 1308' FEL, SEC 13, T17S, R29E, Unit H

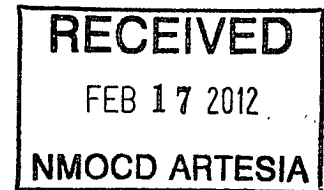
SRDade 02/15/2012
Accepted for record
NMOCD

COG Operating respectfully requests permission to add a BHL:

SHL: 1690' FNL & 1308' FEL, Sec 13, T17S, R29E, Unit H

BHL: 1650' FNL & 990' FEL, Sec 13, T17S, R29E, Unit H

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



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

Electronic Submission #128564 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 (12JLH0333SE)

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 CHRISTOPHER WALLS

Title PETROLEUM ENGINEER

Date 02/15/2012

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 30-015-39518	Pool Code 28509	Pool Name Grayburg Jackson; SR-Q-G-SA
Property Code 308086	Property Name BURCH KEELY UNIT	Well Number 524
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3637'

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		1690	NORTH	1308	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		1650	NORTH	990	EAST	EDDY

Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
-----------------------	-----------------	--------------------	-----------

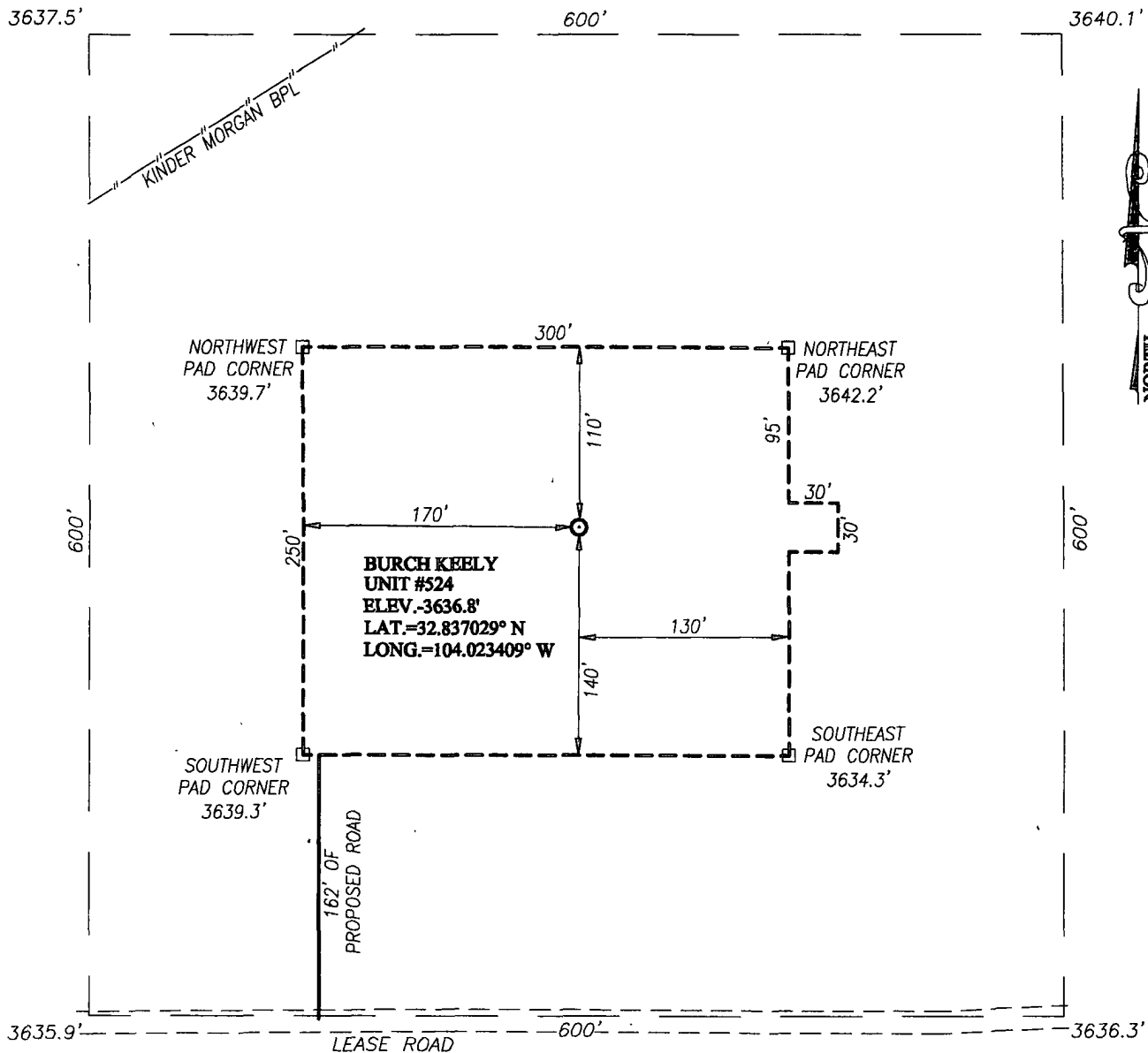
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

GRID AZ. = 82°41'17" HORZ. DIST. = 320.5' DETAIL 3637.5' 3640.1' 3635.9' 3636.3' 600' 600' GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=668361.9 N X=595192.2 E LAT = 32.837029° N LONG. = 104.023409° W CORNER COORDINATES TABLE ① - Y=668732.6 N, X=595178.5 E ② - Y=668735.8 N, X=596498.7 E ③ - Y=667413.6 N, X=595181.5 E ④ - Y=667417.1 N, X=596503.2 E		Bottom Hole Location Y=668402.7 N X=595510.1 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. Signature: Date: 1-18-2012 Printed Name: Kelly J. Holly E-mail Address: kholly@concho.com
Penetration Point 1659 FNL + 980 FEL		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 Signature & Seal of Professional Surveyor: Certificate Number: Gary G. Eidson 12641 Ronald J. Eidson 3239 ACR RELINQUISHED WSC W.O. 11.13.2697	

SECTION 13, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M.

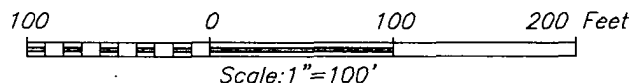
EDDY COUNTY

NEW MEXICO



DIRECTIONS TO LOCATION

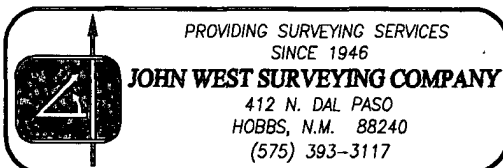
FROM THE INTERSECTION OF U.S. HWY. #82 AND CO. RD. #215 (KEWANEE), GO NORTH ON CO. RD. #215 APPROX. 1.0 MILE. TURN RIGHT AND GO EAST APPROX. 0.8 MILES. THE LOCATION STAKE IS APPROX. 300 FEET NORTH OF LEASE ROAD.



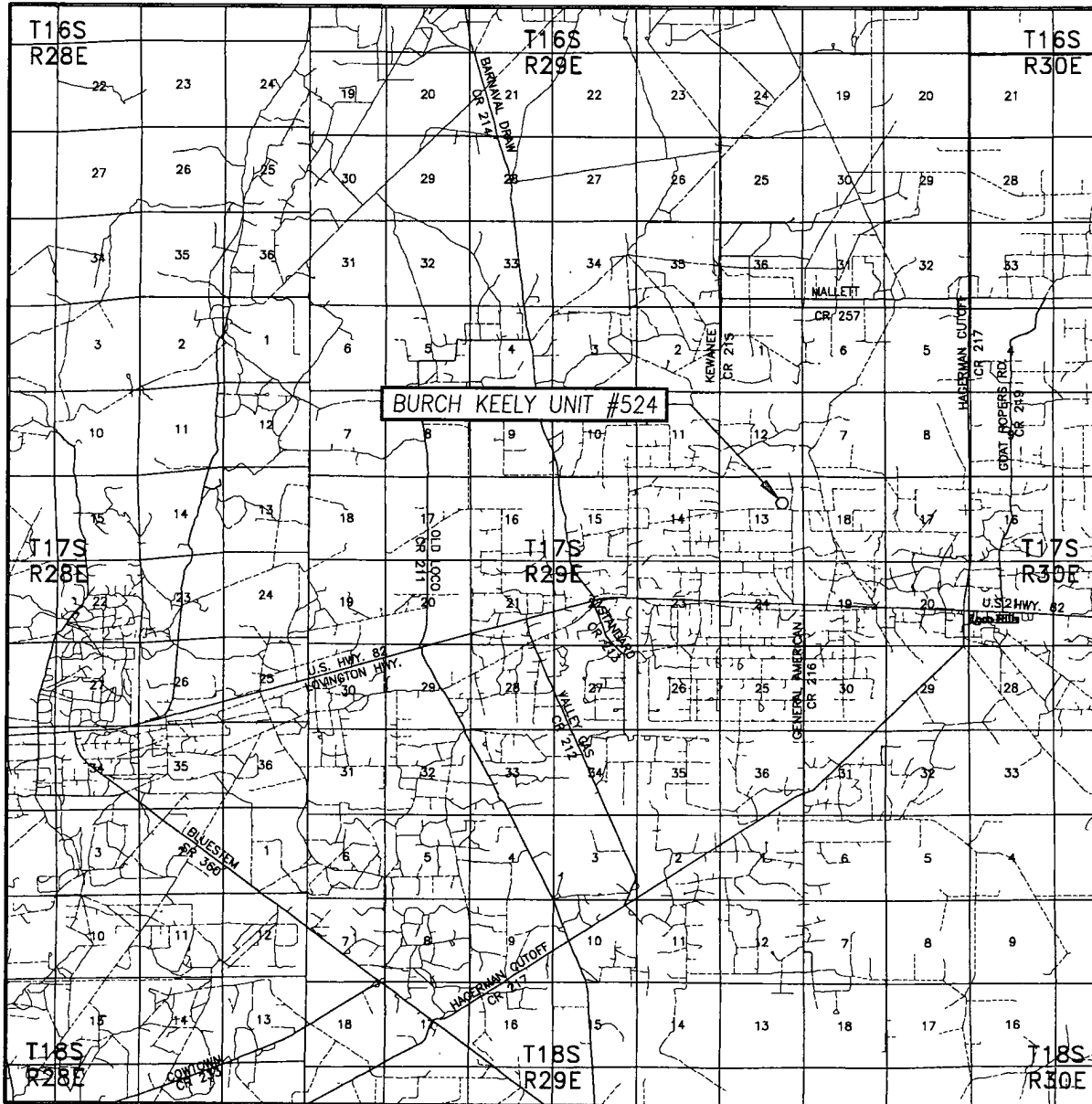
COG OPERATING, LLC

BURCH KEELY UNIT #524 WELL
LOCATED 1690 FEET FROM THE NORTH LINE
AND 1308 FEET FROM THE EAST LINE OF SECTION 13,
TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO

Survey Date: 7/20/11	Sheet 1 of 1 Sheets
W.O. Number: 11.11.1032	Dr By: LA
Date: 8/1/11	Rel. W.O.: 11111032
	Rev 1: N/A
	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 1690' FNL & 1308' FEL

ELEVATION 3637'

OPERATOR COG OPERATING, LLC

LEASE BURCH KEELY UNIT

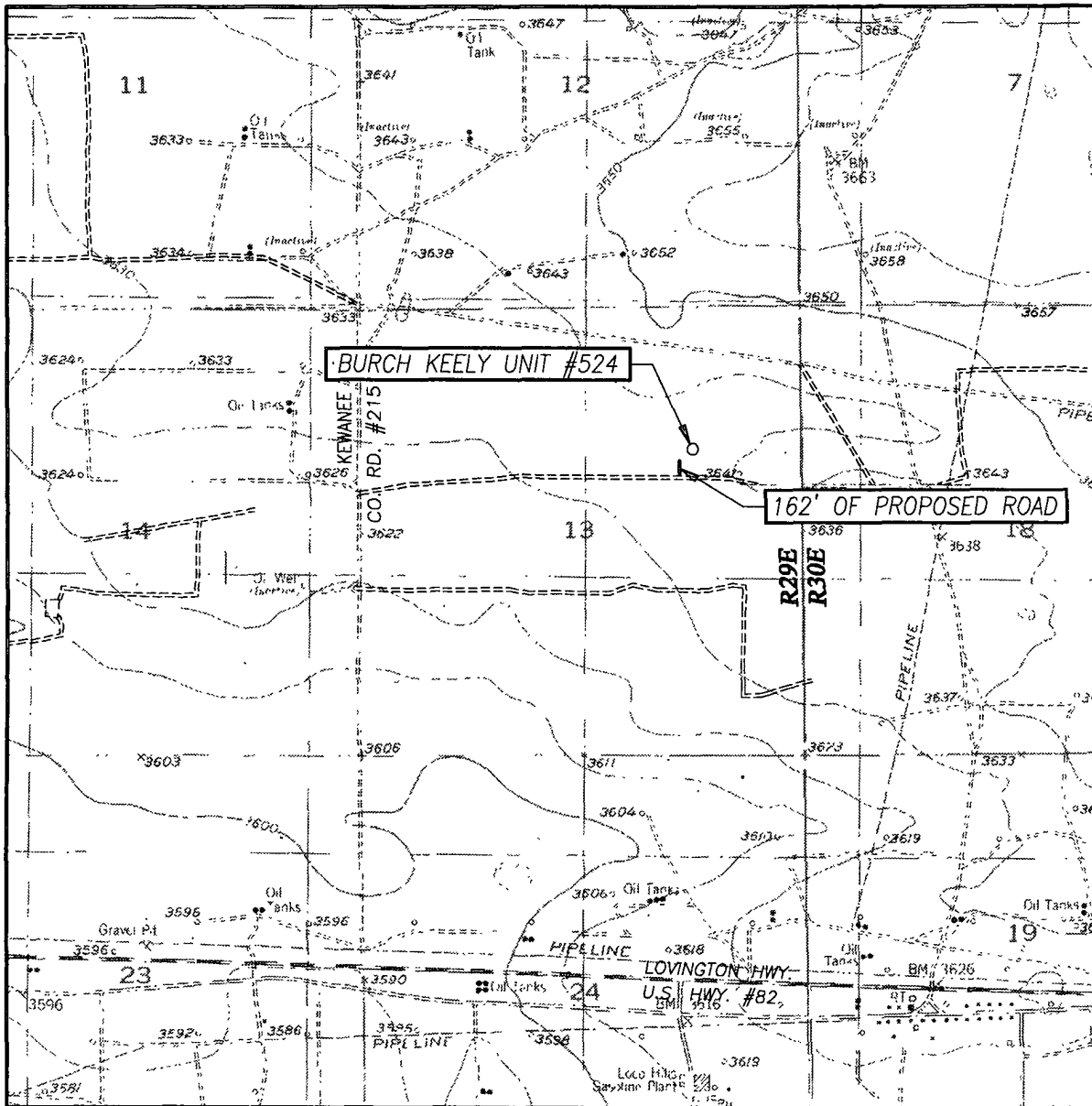


PROVIDING SURVEYING SERVICES
SINCE 1946

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 1690' FNL & 1308' FEL

ELEVATION 3637'

OPERATOR COG OPERATING, INC.

LEASE BURCH KEELY UNIT

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



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(575) 393-3117



COG Operating LLC

Eddy County, NM (NAN27 NME)

Burch Keely Unit #524

Burch Keely Unit #524

OH

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

SHL = 1690' FNL & 1308' FEL

BHL = 1660' FNL & 980' FEL

Top of Paddock = 1660' FNL & 980' FEL @ 4100' TVD

Standard Planning Report

13 January, 2012



Scientific Drilling
Directional Drilling Operations



SDI
Planning Report



EDM 5000.1 Single User Db COG Operating LLC Eddy County, NM (NAN27 NME) Burch Keely Unit #524 Burch Keely Unit #524 OH Plan #1 - 7-7/8" Hole	Site Burch Keely Unit #524 GL @ 3637.00usft GL @ 3637.00usft Grid Minimum Curvature
--	---

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 #524			
Site Position:	Northings:	668,361.90 usft	Latitude: 32° 50' 13.304 N
From: Map	Easting:	595,192.20 usft	Longitude: 104° 1' 24.271 W
Position Uncertainty:	Slot Radius:	13-3/16"	Grid Convergence: 0 17°

Burch Keely Unit #524			
Well Position	+N/-S	0.00 usft	Northings: 668,361.90 usft
	+E/-W	0.00 usft	Easting: 595,192.20 usft
Position Uncertainty		0.00 usft	Wellhead Elevation: 3,637.00 usft

OH			
IGRF2010	2012/01/13	7 77	60 66
			48,878

Plan #1 - 7-7/8" Hole			
Audit Notes:	Phase:	PLAN	Tie On Depth: 0 00
Version:			
	0.00	0.00	0.00
			84 63

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
1,512 80	7.26	84 63	1,511.83	2 15	22.84	2.00	2.00	0.00	84.63
3,757.12	7.26	84 63	3,738.17	28 65	305 06	0.00	0.00	0.00	0 00
4,119.91	0.00	0.00	4,100.00	30 80	327 90	2 00	-2 00	0.00	180 00 TG1-BKU #524
4,819.91	0 00	0.00	4,800.00	30 80	327 90	0.00	0.00	0.00	0 00 PBHL-BKU #524



SDI
Planning Report



EDM 5000.1 Single User Db
COG Operating LLC
Eddy County, NM (NAN27 NME)
Burch Keely Unit #524
Burch Keely Unit #524
OH
Plan #1 - 7-7/8" Hole

Site Burch Keely Unit #524
GL @ 3637.00usft
GL @ 3637.00usft
Grid
Minimum Curvature

Depth	Time	Rate	Time	Rate	Time	Rate	Time	Rate	Time
0.00	0 00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
North HL-BKU #524 - West HL-BKU #524									
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	84.63	1,200.00	0 04	0.43	0.44	2.00	2.00	0.00
1,300.00	3.00	84.63	1,299.93	0 37	3.91	3.93	2.00	2.00	0.00
1,400.00	5.00	84.63	1,399.68	1 02	10.85	10.90	2.00	2.00	0.00
1,500.00	7.00	84.63	1,499.13	2 00	21.26	21.35	2.00	2.00	0.00
1,512.80	7.26	84.63	1,511.83	2 15	22.84	22.94	2.00	2.00	0.00
Hold 7.26"									
1,600.00	7.26	84.63	1,598.33	3 18	33.81	33.96	0.00	0.00	0.00
1,700.00	7.26	84.63	1,697.53	4 36	46.38	46.59	0.00	0.00	0.00
1,800.00	7.26	84.63	1,796.73	5.54	58.96	59.22	0.00	0.00	0.00
1,900.00	7.26	84.63	1,895.93	6.72	71.53	71.85	0.00	0.00	0.00
2,000.00	7.26	84.63	1,995.13	7.90	84.11	84.48	0.00	0.00	0.00
2,100.00	7.26	84.63	2,094.33	9 08	96.68	97.11	0.00	0.00	0.00
2,200.00	7.26	84.63	2,193.53	10 26	109.26	109.74	0.00	0.00	0.00
2,300.00	7.26	84.63	2,292.73	11 44	121.83	122.37	0.00	0.00	0.00
2,400.00	7.26	84.63	2,391.93	12 62	134.40	135.00	0.00	0.00	0.00
2,500.00	7.26	84.63	2,491.13	13 81	146.98	147.63	0.00	0.00	0.00
2,600.00	7.26	84.63	2,590.32	14 99	159.55	160.26	0.00	0.00	0.00
2,700.00	7.26	84.63	2,689.52	16 17	172.13	172.89	0.00	0.00	0.00
2,800.00	7.26	84.63	2,788.72	17.35	184.70	185.52	0.00	0.00	0.00
2,900.00	7.26	84.63	2,887.92	18 53	197.28	198.15	0.00	0.00	0.00
3,000.00	7.26	84.63	2,987.12	19.71	209.85	210.78	0.00	0.00	0.00
3,100.00	7.26	84.63	3,086.32	20 89	222.43	223.41	0.00	0.00	0.00
3,200.00	7.26	84.63	3,185.52	22.07	235.00	236.04	0.00	0.00	0.00
3,300.00	7.26	84.63	3,284.72	23 26	247.58	248.67	0.00	0.00	0.00
3,400.00	7.26	84.63	3,383.92	24 44	260.15	261.30	0.00	0.00	0.00
3,500.00	7.26	84.63	3,483.12	25 62	272.73	273.93	0.00	0.00	0.00
3,600.00	7.26	84.63	3,582.32	26 80	285.30	286.56	0.00	0.00	0.00
3,700.00	7.26	84.63	3,681.52	27 98	297.88	299.19	0.00	0.00	0.00
3,757.12	7.26	84.63	3,738.18	28 65	305.06	306.40	0.00	0.00	0.00
Start Drop 2.00"/100'									
3,800.00	6.40	84.63	3,780.75	29 13	310.13	311.50	2.00	-2.00	0.00
3,900.00	4.40	84.63	3,880.31	30 01	319.50	320.91	2.00	-2.00	0.00
4,000.00	2.40	84.63	3,980.12	30.57	325.40	326.83	2.00	-2.00	0.00
4,100.00	0.40	84.63	4,080.09	30 79	327.83	329.27	2.00	-2.00	0.00
4,119.91	0.00	0.00	4,100.00	30.80	327.90	329.34	2.00	-2.00	0.00
Hold 0.00" - Top of Paddock - TG1-BKU #524									
4,819.91	0.00	0.00	4,800.00	30 80	327.90	329.34	0.00	0.00	0.00
PBHL-BKU #524									



SDI
Planning Report



EDM 5000.1 Single User Db
COG Operating LLC
Eddy County, NM (NAN27 NME)
Burch Keely Unit #524
Burch Keely Unit #524
OH
Plan #1 - 7-7/8" Hole

Site Burch Keely Unit #524
GL @ 3637.00usft
GL @ 3637.00usft
Grid
Minimum Curvature

North HL-BKU #524	0 00	0.00	-1.00	40 80	317 90	668,402.70	595,510 10	32° 50' 13 699 N	104° 1' 20.544 W
- plan misses target center by 320.51usft at 0.00usft MD (0 00 TVD, 0 00 N, 0 00 E)									
- Rectangle (sides W100.00 H0.00 D0.00)									
West HL-BKU #524	0 00	0.00	-1.00	40 80	317 90	668,402 70	595,510 10	32° 50' 13 699 N	104° 1' 20.544 W
- plan misses target center by 320.51usft at 0.00usft MD (0 00 TVD, 0 00 N, 0 00 E)									
- Rectangle (sides W0.00 H100.00 D0.00)									
TG1-BKU #524	0 00	0 01	4,100.00	30 80	327 90	668,392.70	595,520 10	32° 50' 13.599 N	104° 1' 20 427 W
- plan hits target center									
- Point									
PBHL-BKU #524	0 00	0 00	4,800.00	30 80	327 90	668,392.70	595,520.10	32° 50' 13.599 N	104° 1' 20.427 W
- plan hits target center									
- Circle (radius 10 00)									

1,050.00 1,050.00 8-5/8" Casing

8-5/8 12-1/4

4,119.91 4,100.00 Top of Paddock

0 00

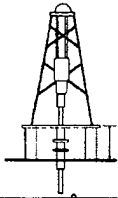
1,150.00	1,150.00	0.00	0 00	Start Build 2.00°/100'
1,512.80	1,511.83	2 15	22 84	Hold 7.26°
3,757 12	3,738 18	28 65	305 06	Start Drop 2.00°/100'
4,119.91	4,100.00	30 80	327 90	Hold 0.00°



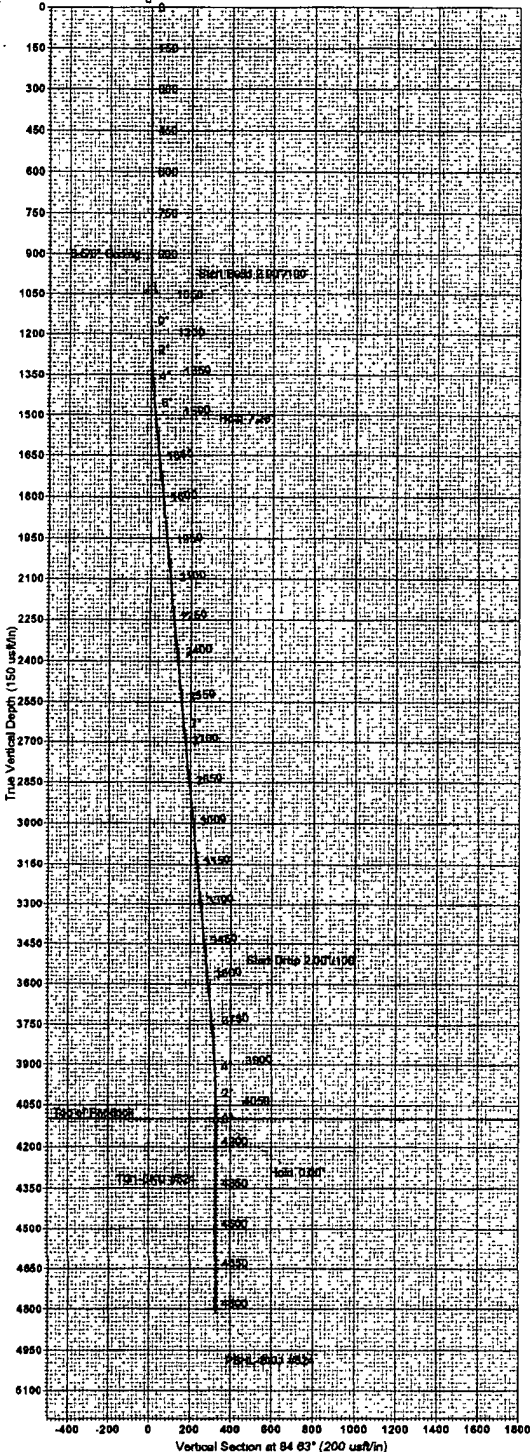
Burch Keely Unit #524
Eddy County, NM (NAN27 NME)
Northing: (Y) 668361.90
Easting: (X) 595192.20
Plan #1 - 7-7/8" Hole



Azimuth to Grid North
True North -0.17°
Magnetic North 7.60°
Magnetic Field
Strength 488.75 μ T
Dip Angle 80.80°
Date 2012/01/13
Model KRSF-2010



GL 3037.00



WELL DETAILS Burch Keely Unit #524

	+N-S	+E-W	Northing	Ground Level	Easting	Latitude	Longitude	Spot
	0.00	0.00	668361.90	3037.00	595192.20	32° 50' 13.304 N	104° 1' 24.271 W	

SECTION DETAILS

Sec	MD	Inc	Adj	TVD	+N-S	+E-W	Dip	TFace	VFace	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	1512.90	7.28	84.63	1511.83	2.15	22.84	2.00	84.63	22.84	
4	3757.12	7.28	84.63	3756.17	28.66	305.08	0.00	0.00	305.40	
5	4119.91	0.00	0.00	4100.00	30.80	327.90	2.00	180.00	329.34	TG1-BKU #524
6	4819.91	0.00	0.00	4800.00	30.80	327.90	0.00	0.00	329.34	PB4-BKU #524

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape
North H-BKU #524	-1.00	40.80	317.80	668402.70	595510.1022	50° 13' 59.004" N	104° 1' 20.544" W	Rectangle (Sides 1.00 00 W100 00)
- plan miss target center by 320.51usf at 0.00usf MD (0.00 TVD, 0.00 N, 0.00 E)								
West H-BKU #524	-1.00	40.80	317.80	668402.70	595510.1022	50° 13' 59.004" N	104° 1' 20.544" W	Rectangle (Sides 1.00 00 W100 00)
- plan miss target center by 320.51usf at 0.00usf MD (0.00 TVD, 0.00 N, 0.00 E)								
TG1-BKU #524	4100.00	30.80	327.90	668362.70	595620.1002	50° 13' 59.004" N	104° 1' 20.427" W	Point
- plan miss target center								
PB4-BKU #524	4800.00	30.80	327.90	668362.70	595520.1002	50° 13' 59.004" N	104° 1' 20.427" W	Circle (Radius 10.00)
- plan miss target center								

SITE DETAILS Burch Keely Unit #524

Site Centre Northing 668361.90
Easting 595192.20

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)
Elevation Clarke 1866
Zone New Mexico East 3001
System Datum Mean Sea Level

FORMATION TOP DETAILS

TVDPath	MDPath	Formation	DipAngle	DipDir
4100.00	4119.91	Top of Paddock	0.00	

CASING DETAILS

TVD	MD	Name	Size
1060.00	1050.00	8-5/8" Casing	8-5/8"

LEGEND

Plan #1 - 7-7/8" Hole

