

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised August 1, 2011

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-39949
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Burkett 16 State
8. Well Number 15
9. OGRID Number 229137
10. Pool name or Wildcat Fren; Glorieta Yeso 26770
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3853'

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
COG Operating LLC

3. Address of Operator
550 W Texas Suite 100 Midland, TX 79701

4. Well Location

Unit Letter **B**: **330** feet from the **NORTH** line and **1650** feet from the **EAST** line
Section **16** Township **17S** Range **31E** NMPM County **EDDY**

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3853'

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

OTHER: **Change Cement** ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

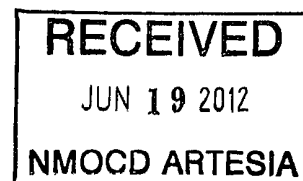
COG Operating respectfully requests permission to change the name of this well to BURKETT 16 STATE #15H.

COG Operating submitted APD for this well at this location:
SHL: 330 FNL 1650 FEL, Unit B

COG Operating respectfully requests permission to add BHL and change the location of this well to:
SHL: 815 FNL 1685 FEL, Unit B
BHL: 330 FNL 330 FWL, Unit D

Reason for change of location is to avoid a Non-Standard Location.

A Revised C-102 and Directional plan is attached for your review.



Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE TITLE **Permitting Tech** DATE **6/19/2012**

Type or print name **Kelly J. Holly** E-mail address: **kholly@concho.com** PHONE: **432-685-4384**
For State Use Only

APPROVED BY: TITLE **Geologist** DATE **6/19/2012**

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 30-015-39949	Pool Code 26770	Pool Name Fren; Glorieta Yeso
Property Code 39075	Property Name BURKETT 16 STATE	Well Number 15H
OGRID No 229137	Operator Name COG OPERATING, LLC	Elevation 3853'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	16	17-S	31-E		815	NORTH	1685	EAST	EDDY

Bottom Hole Location If Different From Surface

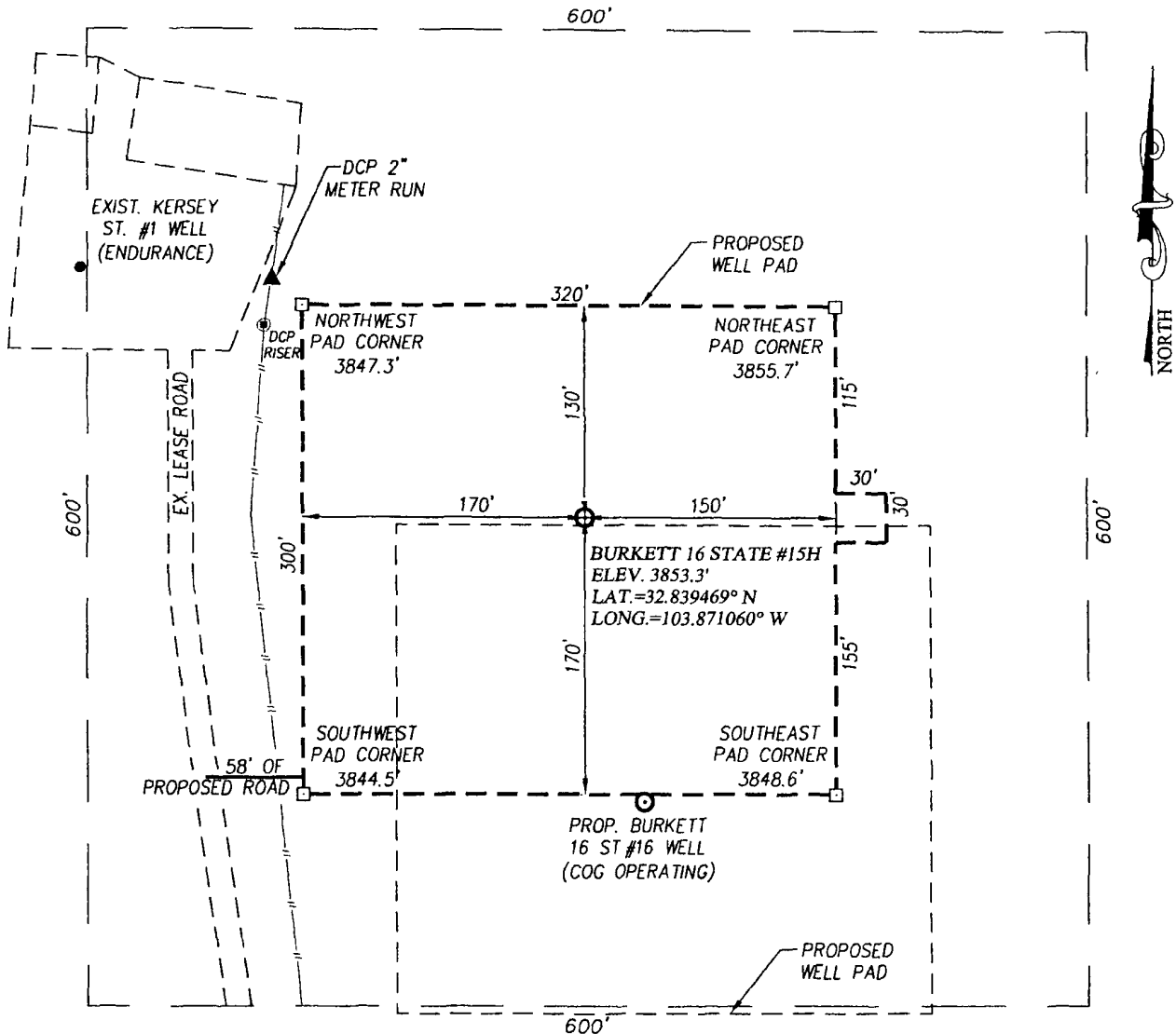
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	16	17-S	31-E		330	NORTH	330	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No
120			

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

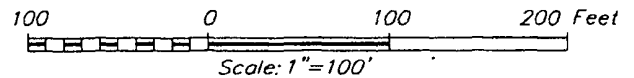
PRODUCING AREA GRID AZ = 278°04'39" HORIZ. DIST. = 3303.2' GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=669420.6 N X=641982.1 E LAT = 32.839469° N LONG = 103.871060° W BOTTOM HOLE LOCATION Y=669884.6 N X=638712.5 E CORNER COORDINATES A) Y=670212.4 N; X=638380.7 E B) Y=670237.8 N; X=642341.7 E C) Y=668918.6 N; X=642348.9 E D) Y=668892.8 N; X=638388.2 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> 6-19-12 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. May 9, 2012 Date of Survey <i>[Signature]</i> Signature & Seal of Professional Surveyor: RONALD J. EIDSON NEW MEXICO 3239 Certificate Number 12641 Professional Surveyor Eidson 3239 AF/DSR JWSC W.O. 12 11.0727
---	--

SECTION 16, TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY NEW MEXICO



DIRECTIONS TO LOCATION

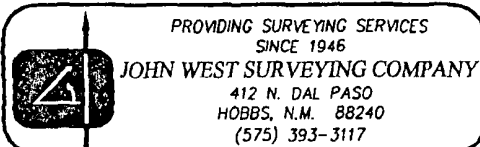
FROM THE INTERSECTION OF U.S. HWY #82 (LOVINGTON HWY.) AND CO. RD. #223 (SWEET GUM), FOLLOW CO. RD. #223 NORTH APPROX. 1.3 MILES, TURN RIGHT AND GO EAST APPROX. 0.1 MILES TURN LEFT AND GO NORTH APPROX. 0.1 MILES TO Y. TURN RIGHT AND GO NORTHEAST APPROX. 0.1 MILES TO INTERSECTION. TURN LEFT AND GO NORTHWEST APPROX. 0.3 MILES. THE LOCATION STAKE IS NORTHEAST APPROX. 250 FEET.



COG OPERATING, LLC

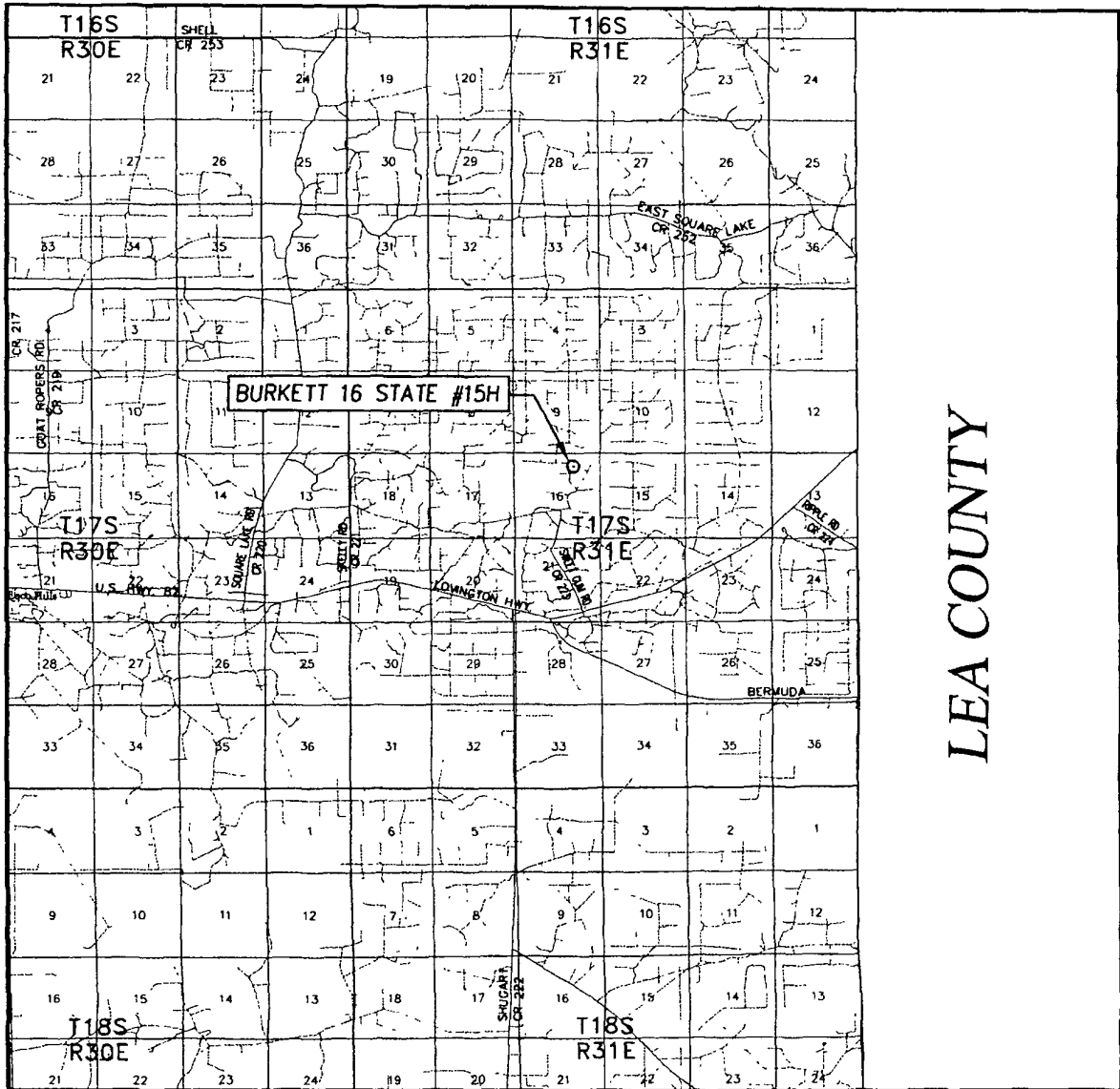
BURKETT 16 STATE #15H WELL
LOCATED 815 FEET FROM THE NORTH LINE
AND 1685 FEET FROM THE EAST LINE OF SECTION 16,
TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO

Survey Date: 05/09/2012	Sheet 1 of 1 Sheets
W.O. Number: 12.11.0727	Dr. By: AF/DSR
Date: 5/15/2012	Rel. W.O.: 11.11.2743
12110727	Scale: 1"=100'



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

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 16 TWP. 17-S RGE. 31-E

SURVEY N.M.P.M.

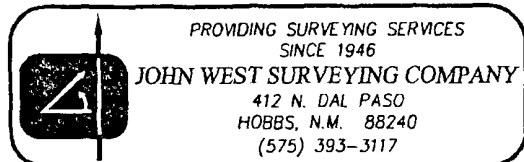
COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 815' FNL & 1685' FEL

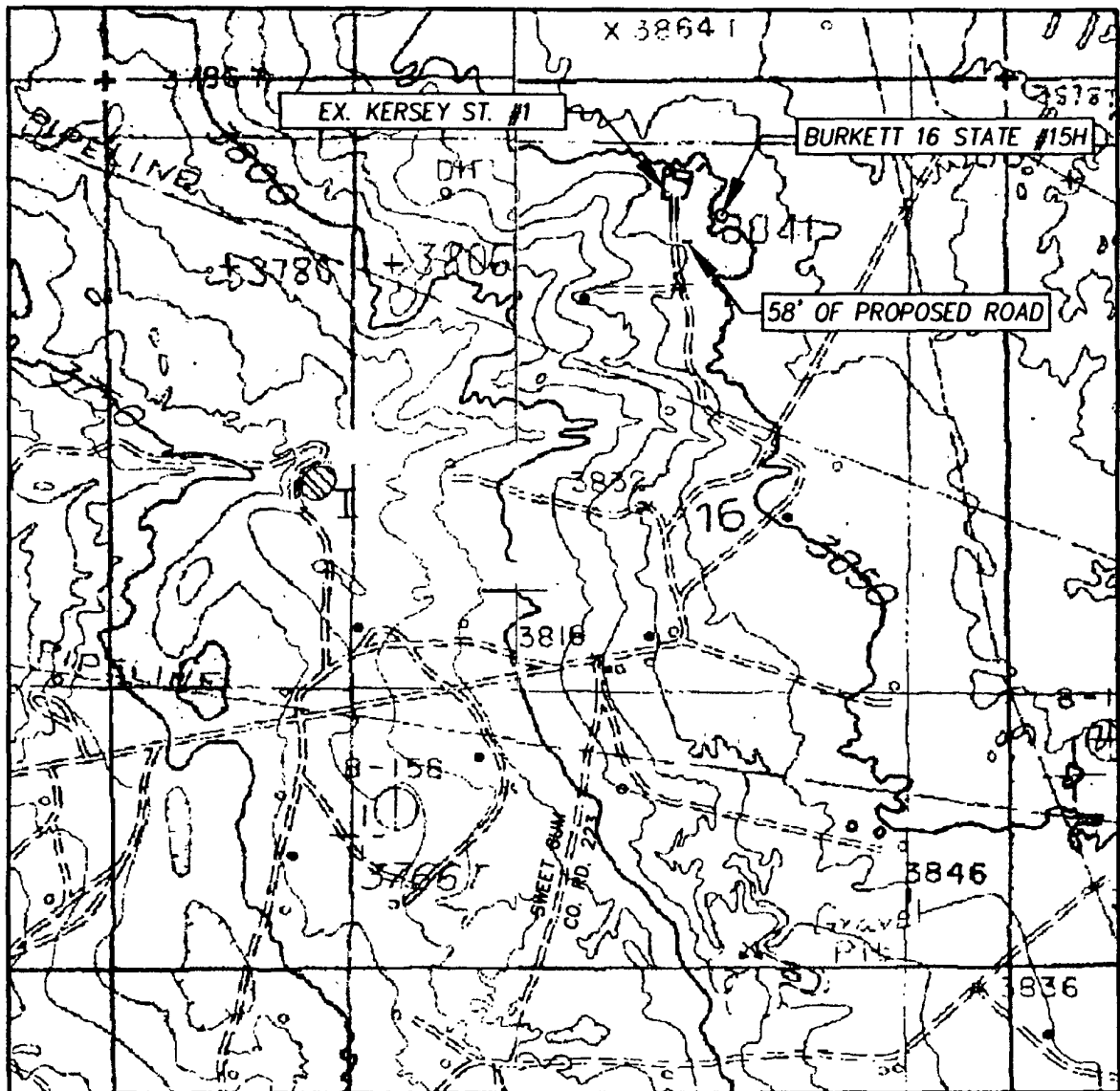
ELEVATION 3853'

OPERATOR COG OPERATING, LLC

LEASE BURKETT 16 STATE



LOCATION VERIFICATION MAP



SCALE: 1" = 1000'

SEC. 16 TWP. 17-S RGE. 31-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 815' FNL & 1685' FEL

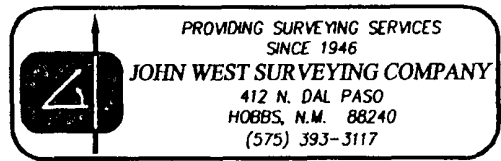
ELEVATION 3853'

OPERATOR COG OPERATING, LLC

LEASE BURKETT 16 STATE

U.S.G.S. TOPOGRAPHIC MAP
MALJAMAR, N.M.

CONTOUR INTERVAL:
MALJAMAR, N.M. - 10'
LOCO HILLS, N.M. - 10'



COG Operating LLC

Eddy County, NM

Burkett 16 State 15H

Burkett 16 State 15H

Wellbore #1

Plan: Plan #1

Surface: 815' FNL, 1685' FEL, Sec 16, T17S, R31E, Unit B
BHL: 330' FNL, 330' FWL, Sec 16, T17S, R31E, Unit D

Standard Survey Report

13 June, 2012

Survey Report

Company:	COG Operating LLC	Local Co-ordinate Reference:	Site Burkett 16 State 15H
Project:	Eddy County, NM	TVD Reference:	WELL @ 3871.00ft (Original Well Elev)
Site:	Burkett 16 State 15H	MD Reference:	WELL @ 3871.00ft (Original Well Elev)
Well:	Burkett 16 State 15H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Houston R5000 Database

Project:	Eddy County, NM		
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:	Burkett 16 State 15H				
Site Position:		Northing:	669,420.60 ft	Latitude:	32.83946531
From:	Map	Easting:	641,982.10 ft	Longitude:	-103.87106385
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.25 °

Well:	Burkett 16 State 15H					
Well Position	+N/-S	0.00 ft	Northing:	669,420.60 ft	Latitude:	32.83946531
	+E/-W	0.00 ft	Easting:	641,982.10 ft	Longitude:	-103.87106385
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,853.00 ft	

Wellbore:	Wellbore #1					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength	
	IGRF2010	6/13/2012	(°)	(°)	(nT)	
			7.65	60.68	48,851	

Design:	Plan #1					
Audit Notes:						
Version:	Phase:	PLAN	Tie On Depth:	0.00		
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction		
	(ft)	(ft)	(ft)	(°)		
	0.00	0.00	0.00	278.08		

Survey Tool Program:	Date: 6/13/2012			
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
0.00	9,197.43	Plan #1 (Wellbore #1)	MWD	MWD - Standard

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,622.54	0.00	0.00	5,622.54	0.00	0.00	0.00	0.00	0.00	0.00
KOP - Start Build @ 12.00°/100'									
5,700.00	9.30	278.08	5,699.66	0.88	-6.21	6.27	12.00	12.00	0.00
5,800.00	21.30	278.08	5,795.94	4.58	-32.28	32.60	12.00	12.00	0.00
5,900.00	33.30	278.08	5,884.64	11.01	-77.60	78.38	12.00	12.00	0.00
6,000.00	45.30	278.08	5,981.89	19.89	-140.19	141.59	12.00	12.00	0.00
6,100.00	57.30	278.08	6,024.31	30.84	-217.31	219.49	12.00	12.00	0.00
6,200.00	69.30	278.08	6,069.16	43.37	-305.60	308.66	12.00	12.00	0.00
6,300.00	81.30	278.08	6,094.50	56.93	-401.19	405.21	12.00	12.00	0.00
6,372.54	90.00	278.08	6,100.00	67.09	-472.73	477.46	12.00	12.00	0.00

Survey Report

Company: COG Operating LLC
 Project: Eddy County, NM
 Site: Burkett 16 State 15H
 Well: Burkett 16 State 15H
 Wellbore: Wellbore #1
 Design: Plan #1

Local Co-ordinate Reference: Site Burkett 16 State 15H
 TVD Reference: WELL @ 3871.00ft (Original Well Elev)
 MD Reference: WELL @ 3871 00ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: Houston R5000 Database

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (1/100ft)	Bulk Rate (1/100ft)	Turn Rate (1/100ft)
Landing Point - Hold @ 90.00° INC, 278.08° AZ									
6,400.00	90.00	278.08	6,100.00	70.95	-499.92	504.93	0.00	0.00	0.00
6,500.00	90.00	278.08	6,100.00	85.00	-598.93	604.93	0.00	0.00	0.00
6,600.00	90.00	278.08	6,100.00	99.05	-697.94	704.93	0.00	0.00	0.00
6,700.00	90.00	278.08	6,100.00	113.10	-796.94	804.93	0.00	0.00	0.00
6,800.00	90.00	278.08	6,100.00	127.15	-895.95	904.93	0.00	0.00	0.00
6,900.00	90.00	278.08	6,100.00	141.20	-994.96	1,004.93	0.00	0.00	0.00
7,000.00	90.00	278.08	6,100.00	155.25	-1,093.97	1,104.93	0.00	0.00	0.00
7,100.00	90.00	278.08	6,100.00	169.30	-1,192.98	1,204.93	0.00	0.00	0.00
7,200.00	90.00	278.08	6,100.00	183.35	-1,291.98	1,304.93	0.00	0.00	0.00
7,300.00	90.00	278.08	6,100.00	197.40	-1,390.99	1,404.93	0.00	0.00	0.00
7,400.00	90.00	278.08	6,100.00	211.45	-1,490.00	1,504.93	0.00	0.00	0.00
7,500.00	90.00	278.08	6,100.00	225.50	-1,589.01	1,604.93	0.00	0.00	0.00
7,600.00	90.00	278.08	6,100.00	239.55	-1,688.02	1,704.93	0.00	0.00	0.00
7,700.00	90.00	278.08	6,100.00	253.60	-1,787.02	1,804.93	0.00	0.00	0.00
7,800.00	90.00	278.08	6,100.00	267.65	-1,886.03	1,904.93	0.00	0.00	0.00
7,900.00	90.00	278.08	6,100.00	281.70	-1,985.04	2,004.93	0.00	0.00	0.00
8,000.00	90.00	278.08	6,100.00	295.75	-2,084.05	2,104.93	0.00	0.00	0.00
8,100.00	90.00	278.08	6,100.00	309.80	-2,183.06	2,204.93	0.00	0.00	0.00
8,200.00	90.00	278.08	6,100.00	323.86	-2,282.06	2,304.93	0.00	0.00	0.00
8,300.00	90.00	278.08	6,100.00	337.91	-2,381.07	2,404.93	0.00	0.00	0.00
8,400.00	90.00	278.08	6,100.00	351.96	-2,480.08	2,504.93	0.00	0.00	0.00
8,500.00	90.00	278.08	6,100.00	366.01	-2,579.09	2,604.93	0.00	0.00	0.00
8,600.00	90.00	278.08	6,100.00	380.06	-2,678.10	2,704.93	0.00	0.00	0.00
8,700.00	90.00	278.08	6,100.00	394.11	-2,777.10	2,804.93	0.00	0.00	0.00
8,800.00	90.00	278.08	6,100.00	408.16	-2,876.11	2,904.93	0.00	0.00	0.00
8,900.00	90.00	278.08	6,100.00	422.21	-2,975.12	3,004.93	0.00	0.00	0.00
9,000.00	90.00	278.08	6,100.00	436.26	-3,074.13	3,104.93	0.00	0.00	0.00
9,100.00	90.00	278.08	6,100.00	450.31	-3,173.14	3,204.93	0.00	0.00	0.00
9,197.43	90.00	278.08	6,100.00	464.00	-3,269.60	3,302.36	0.00	0.00	0.00

TD @ 9197.43' MD, 6100.00' TVD - PBHL (Burkett 16 State 15H Plan 1)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N-S (ft)	+E-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL (Burkett 16 State	0.00	0.00	6,100.00	464.00	-3,269.60	669,884.60	638,712.50	32 84077955	-103 88170244
- plan hits target center									
- Point									

Survey Report

Company: COG Operating LLC
Project: Eddy County, NM
Site: Burkett 16 State 15H
Well: Burkett 16 State 15H
Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference: Site Burkett 16 State 15H
TVD Reference: WELL @ 3871 00ft (Original Well Elev)
MD Reference: WELL @ 3871 00ft (Original Well Elev)
North Reference: Gnd
Survey Calculation Method: Minimum Curvature
Database: Houston R5000 Database

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/S (ft)	+E/W (ft)	
5623	5623	0	0	KOP - Start Build @ 12 00°/100'
6373	6100	67	-473	Landing Point - Hold @ 90.00° INC, 278.08° AZ
9197	6100	464	-3270	TD @ 9197.43' MD, 6100 00' TVD

Checked By: _____ Approved By: _____ Date: _____



COG Operating LLC
Burkett 16 State 15H
Eddy County, NM
Plan #1



Surface Location		Ground Elev: 3853.00 WELL @ 3871.00ft (Original Well Elev)			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	669420.60	641982.10	32.83946531	-103.87106385

TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL (Burkett 16 State 15H Plan 1)	6100.00	464.00	-3269.60	669884.60	638712.50	32.84077955	-103.88170244

SECTION DETAILS										
Sec	MD	Inc	Asi	TVD	+N/-S	+E/-W	Diag	TFace	VSecl	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	5622.54	0.00	0.00	5622.54	0.00	0.00	0.00	0.00	0.00	KOP - Start Build @ 12.00°100'
3	6372.54	90.00	278.08	6100.00	67.09	-472.73	12.00	278.08	477.46	Landing Point - Hold @ 90.00°INC, 278.08°AZ
4	9197.43	90.00	278.08	6100.00	464.00	-3269.60	0.00	0.00	3302.36	TD @ 9197.43' MD, 6100.00' TVD

