

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

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

Form C-103
Revised August 1, 2011

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.)		WELL API NO. 30-015-39949
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator COG Operating, LLC		6. State Oil & Gas Lease No.
3. Address of Operator One Concho Center, 600 W Illinois Ave, Midland, TX 79701		7. Lease Name or Unit Agreement Name Burkett 16 State
4. Well Location Unit Letter <u>D</u> <u>330</u> feet from the <u>NORTH</u> line and <u>490</u> feet from the <u>WEST</u> line Section <u>16</u> Township <u>17S</u> Range <u>31E</u> NMPM County <u>EDDY</u>		8. Well Number <u>15H</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3792'		9. OGRID Number 229137
		10. Pool name or Wildcat Fren; Glorieta Yeso

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

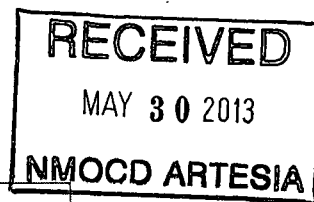
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
OTHER: Change BHL ☒		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 LLC respectfully requests permission to change the BHL to:

SHL: 330' FNL & 490 FWL, Section 16, T17S, R31E, Unit D
BHL: 330' FNL & 1651 FEL, Section 16, T17S, R31E, Unit B

An amended plat and new 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 Kelly J Holly TITLE Permitting Tech DATE 04/29/2013

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

For State Use Only

APPROVED BY: TC Shepard TITLE Geologist DATE 5/30/2013

Conditions of Approval (if any):

DISTRICT I
1635 N. French Dr., Hobbs, NM 88240
Phone: (505) 393-6161 Fax: (505) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (505) 748-1283 Fax: (505) 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 BURKEIT 16 STATE	Well Number 15H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3792'

Surface Location

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	490	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
B	16	17-S	31-E		330	NORTH	1651	EAST	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

	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 released 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. 4-29-13 Signature Date Kelly J. Holly Printed Name kholly@concho.com E-mail Address												
GEODEIC COORDINATES NAD 27 NME SURFACE LOCATION Y = 669885.7 N X = 638872.5 E BOTTOM HOLE LOCATION Y = 669905.8 N X = 642013.3 E CORNER COORDINATES TABLE <table border="1"> <tr><td>A</td><td>Y = 670212.4 N, X = 638380.7 E</td></tr> <tr><td>B</td><td>Y = 670237.8 N, X = 642341.7 E</td></tr> <tr><td>C</td><td>Y = 670246.2 N, X = 643662.0 E</td></tr> <tr><td>D</td><td>Y = 668927.2 N, X = 643669.6 E</td></tr> <tr><td>E</td><td>Y = 668918.6 N, X = 642348.9 E</td></tr> <tr><td>F</td><td>Y = 668892.8 N, X = 638388.2 E</td></tr> </table>	A	Y = 670212.4 N, X = 638380.7 E	B	Y = 670237.8 N, X = 642341.7 E	C	Y = 670246.2 N, X = 643662.0 E	D	Y = 668927.2 N, X = 643669.6 E	E	Y = 668918.6 N, X = 642348.9 E	F	Y = 668892.8 N, X = 638388.2 E	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. OCTOBER 02, 2012 Date of Survey Gary G. Edson Signature & Seal of Professional Surveyor Certificate Number: Gary G. Edson 12641 Ronald J. Edson 3239 DSR Ref: W.O. 11/10/12 WSC: W.O. 12/13/0955
A	Y = 670212.4 N, X = 638380.7 E												
B	Y = 670237.8 N, X = 642341.7 E												
C	Y = 670246.2 N, X = 643662.0 E												
D	Y = 668927.2 N, X = 643669.6 E												
E	Y = 668918.6 N, X = 642348.9 E												
F	Y = 668892.8 N, X = 638388.2 E												

RECEIVED
MAY 30 2013
NMOCD ARTESIA

Plan Proposal

FOR

COG Operating, LLC
Burkett 16 State #15H
Eddy Co., NM

Design #1.

Presented By:

Aaron Boger
Account Manager

Bret Wolford
Well Planner

RECEIVED

MAY 30 2013

NMOCD ARTESIA

SHL

330' FNL & 490' FWL

Penetration Point

330' FNL & 490' FWL

PBHL

330' FNL & 1651' FEL

Sec.16-T17S-R31E

ARTESIA



Project: Eddy County(NM27E)
Site: Sec.16-T17S-R31E
Well: Burkett 16 State #15H
Wellbore: Wellbore #1
Design: Design #1
Lat: 32° 50' 26.824 N
Long: 103° 52' 52.238 W
GL: 3792.00
KB: WELL @ 3806.00usft

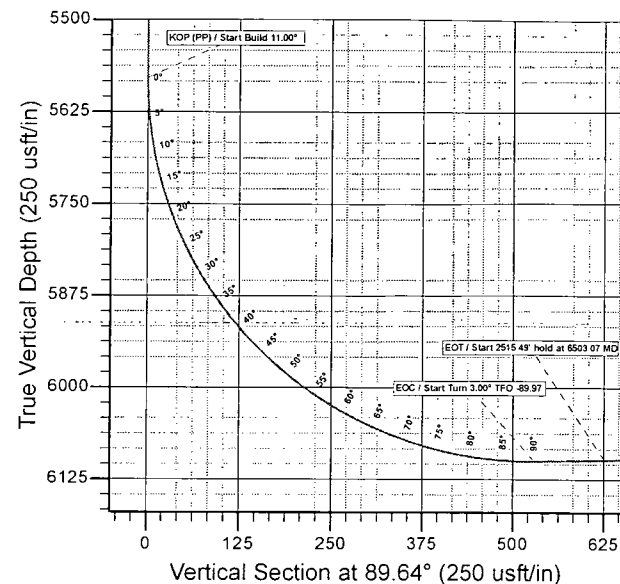
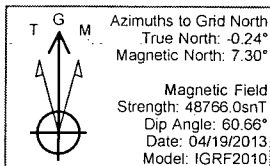
Archer

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5579.21	0.00	0.00	5579.21	0.00	0.00	0.00	0.00	0.00	KOP (PP) / Start Build 11.00"
6406.48	91.00	92.00	6100.00	-18.50	529.64	11.00	92.00	529.51	EOC / Start Turn 3.00" TFO -89.97
6503.07	91.00	89.10	6098.31	-18.42	626.20	3.00	-89.97	626.06	EOT / Start 2515.49' hold at 6503.07 MD
9018.56	91.00	89.10	6054.41	20.00	3141.00	0.00	0.00	3141.06	TD at 9018.56

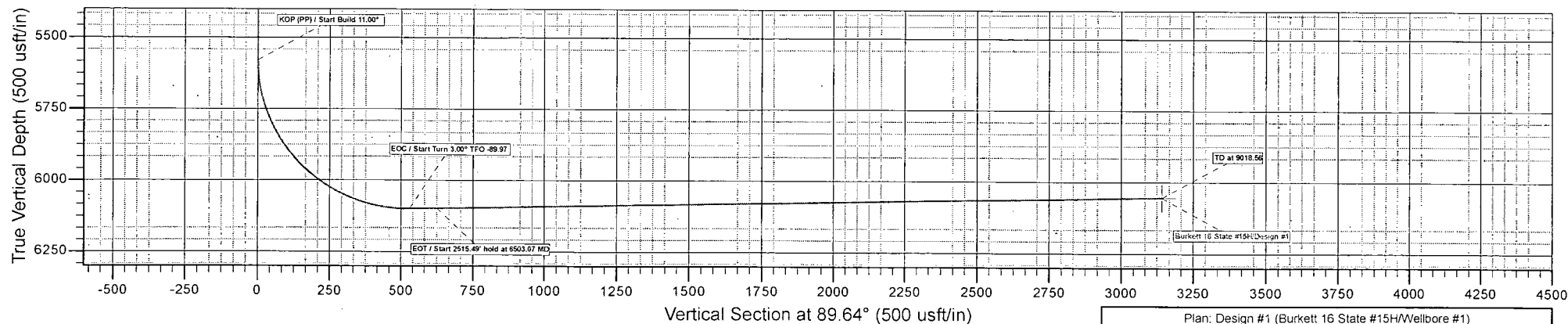
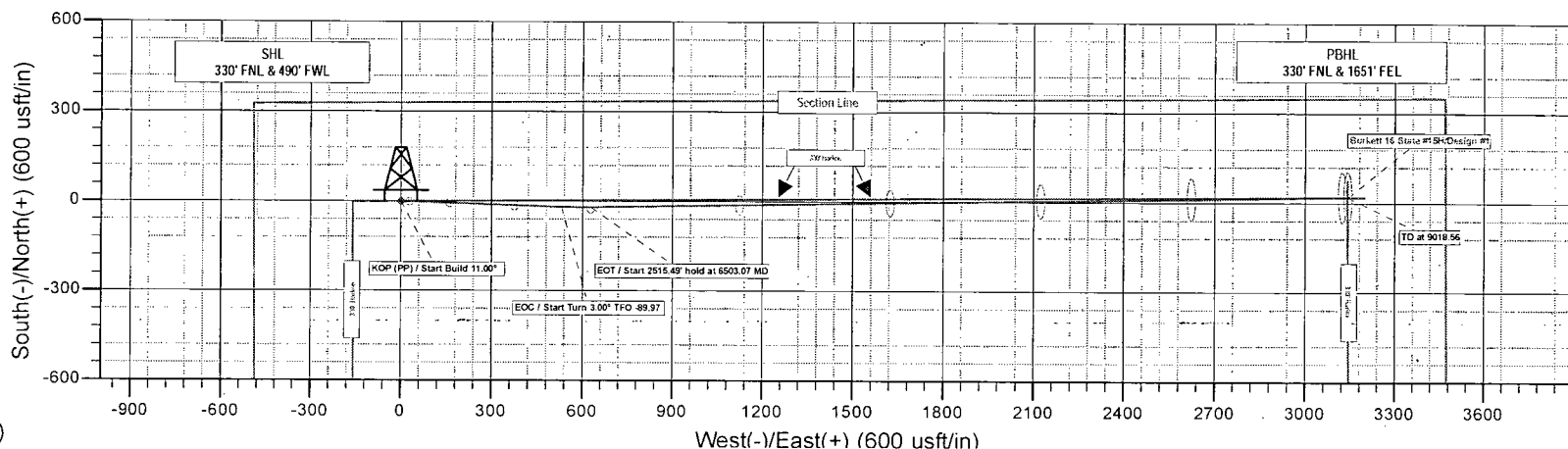
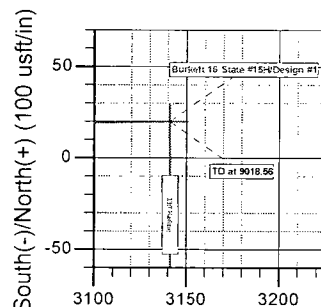
WELL DETAILS: Burkett 16 State #15H									
+N/-S	+E/-W	Northing	Ground Level:	Easting	Latitude	Longitude	Slot		
0.00	0.00	669885.700	3792.00	638872.500	32° 50' 26.824 N	103° 52' 52.238 W			

PROJECT DETAILS: Eddy County(NM27E)	
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	

WELLBORE TARGET DETAILS (LAT/LONG)							
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape	Point
Burkett 16 St 15H PBHL	6054.41	20.00	3141.00	32° 50' 26.887 N	103° 52' 15.422 W		



SITE DETAILS: Sec.16-T17S-R31E	
Site Centre Latitude: 32° 50' 26.824 N	
Longitude: 103° 52' 52.238 W	
Positional Uncertainty: 0.00	
Convergence: 0.25	
Local North: Grid	





COG Operating, LLC

Eddy County(NM27E)

Sec.16-T17S-R31E

Burkett 16 State #15H

Wellbore #1

Plan: Design #1

Standard Planning Report

19 April, 2013

Archer

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Burkett 16 State #15H
Company:	COG Operating, LLC	TVD Reference:	WELL @ 3806.00usft
Project:	Eddy County(NM27E)	MD Reference:	WELL @ 3806.00usft
Site:	Sec.16-T17S-R31E	North Reference:	Grid
Well:	Burkett 16 State #15H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Eddy County(NM27E)		
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	Sec.16-T17S-R31E		
Site Position:		Northing:	669,885.700 usft
From:	Map	Easting:	638,872.500 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	32° 50' 26.824 N
		Longitude:	103° 52' 52.238 W
		Grid Convergence:	0.25 °

Well	Burkett 16 State #15H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 50' 26.824 N
		Longitude:	103° 52' 52.238 W
		Ground Level:	3,792.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	04/19/13	7.55
			Dip Angle
			60.66
			Field Strength
			48,766

Design	Design #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	6,020.00	0.00	0.00
			Direction
			(°)
			89.64

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,579.21	0.00	0.00	5,579.21	0.00	0.00	0.00	0.00	0.00	0.00	
6,406.48	91.00	92.00	6,100.00	-18.50	529.64	11.00	11.00	0.00	92.00	
6,503.07	91.00	89.10	6,098.31	-19.42	626.20	3.00	0.00	-3.00	-89.97	Burkett 16 St 15H PB
9,018.56	91.00	89.10	6,054.41	20.00	3,141.00	0.00	0.00	0.00	0.00	Burkett 16 St 15H PB



Archer
Planning Report



Database: EDM 5000.1 Single User Db
Company: COG Operating, LLC
Project: Eddy County(NM27E)
Site: Sec.16-T17S-R31E
Well: Burkett 16 State #15H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Burkett 16 State #15H
TVD Reference: WELL @ 3806.00usft
MD Reference: WELL @ 3806.00usft
North Reference: Grid
Survey Calculation Method: 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
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

Database: EDM 5000.1 Single User Db
 Company: COG Operating, LLC
 Project: Eddy County(NM27E)
 Site: Sec.16-T17S-R31E
 Well: Burkett 16 State #15H
 Wellbore: Wellbore #1
 Design: Design #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well Burkett 16 State #15H

WELL @ 3806.00usft

WELL @ 3806.00usft

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)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP (PP) / Start Build 11.00°									
5,579.21	0.00	0.00	5,579.21	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	2.29	92.00	5,599.99	-0.01	0.41	0.41	11.00	11.00	0.00
5,650.00	7.79	92.00	5,649.78	-0.17	4.80	4.80	11.00	11.00	0.00
5,700.00	13.29	92.00	5,698.92	-0.49	13.93	13.93	11.00	11.00	0.00
5,750.00	18.79	92.00	5,746.96	-0.97	27.73	27.73	11.00	11.00	0.00
5,800.00	24.29	92.00	5,793.45	-1.61	46.07	46.06	11.00	11.00	0.00
5,850.00	29.79	92.00	5,837.97	-2.40	68.78	68.76	11.00	11.00	0.00
5,900.00	35.29	92.00	5,880.10	-3.34	95.64	95.62	11.00	11.00	0.00
5,950.00	40.79	92.00	5,919.47	-4.41	126.42	126.39	11.00	11.00	0.00
6,000.00	46.29	92.00	5,955.70	-5.62	160.83	160.79	11.00	11.00	0.00
6,050.00	51.79	92.00	5,988.47	-6.93	198.55	198.50	11.00	11.00	0.00
6,100.00	57.29	92.00	6,017.46	-8.35	239.23	239.17	11.00	11.00	0.00
6,150.00	62.79	92.00	6,042.43	-9.87	282.50	282.44	11.00	11.00	0.00
6,200.00	68.29	92.00	6,063.12	-11.45	327.97	327.89	11.00	11.00	0.00
6,250.00	73.79	92.00	6,079.36	-13.10	375.21	375.12	11.00	11.00	0.00
6,300.00	79.29	92.00	6,091.00	-14.80	423.79	423.69	11.00	11.00	0.00
6,350.00	84.79	92.00	6,097.92	-16.53	473.26	473.14	11.00	11.00	0.00
6,400.00	90.29	92.00	6,100.07	-18.27	523.16	523.03	11.00	11.00	0.00
EOC / Start Turn 3.00° TFO -89.97									
6,406.48	91.00	92.00	6,100.00	-18.50	529.64	529.51	11.00	11.00	0.00
EOT / Start 2515.49° hold at 6503.07 MD									
6,503.07	91.00	89.10	6,098.31	-19.42	626.20	626.06	3.00	0.00	-3.00
6,600.00	91.00	89.10	6,096.62	-17.90	723.10	722.97	0.00	0.00	0.00
6,700.00	91.00	89.10	6,094.88	-16.34	823.07	822.95	0.00	0.00	0.00
6,800.00	91.00	89.10	6,093.13	-14.77	923.05	922.93	0.00	0.00	0.00
6,900.00	91.00	89.10	6,091.39	-13.20	1,023.02	1,022.91	0.00	0.00	0.00
7,000.00	91.00	89.10	6,089.64	-11.64	1,122.99	1,122.89	0.00	0.00	0.00
7,100.00	91.00	89.10	6,087.90	-10.07	1,222.96	1,222.87	0.00	0.00	0.00
7,200.00	91.00	89.10	6,086.15	-8.50	1,322.94	1,322.85	0.00	0.00	0.00
7,300.00	91.00	89.10	6,084.41	-6.93	1,422.91	1,422.84	0.00	0.00	0.00
7,400.00	91.00	89.10	6,082.66	-5.37	1,522.88	1,522.82	0.00	0.00	0.00
7,500.00	91.00	89.10	6,080.92	-3.80	1,622.85	1,622.80	0.00	0.00	0.00
7,600.00	91.00	89.10	6,079.17	-2.23	1,722.83	1,722.78	0.00	0.00	0.00
7,700.00	91.00	89.10	6,077.42	-0.67	1,822.80	1,822.76	0.00	0.00	0.00
7,800.00	91.00	89.10	6,075.68	0.90	1,922.77	1,922.74	0.00	0.00	0.00
7,900.00	91.00	89.10	6,073.93	2.47	2,022.74	2,022.72	0.00	0.00	0.00
8,000.00	91.00	89.10	6,072.19	4.04	2,122.72	2,122.70	0.00	0.00	0.00
8,100.00	91.00	89.10	6,070.44	5.60	2,222.69	2,222.68	0.00	0.00	0.00
8,200.00	91.00	89.10	6,068.70	7.17	2,322.66	2,322.66	0.00	0.00	0.00
8,300.00	91.00	89.10	6,066.95	8.74	2,422.63	2,422.64	0.00	0.00	0.00
8,400.00	91.00	89.10	6,065.21	10.31	2,522.61	2,522.62	0.00	0.00	0.00
8,500.00	91.00	89.10	6,063.46	11.87	2,622.58	2,622.60	0.00	0.00	0.00
8,600.00	91.00	89.10	6,061.72	13.44	2,722.55	2,722.58	0.00	0.00	0.00
8,700.00	91.00	89.10	6,059.97	15.01	2,822.52	2,822.56	0.00	0.00	0.00
8,800.00	91.00	89.10	6,058.23	16.57	2,922.50	2,922.54	0.00	0.00	0.00
8,900.00	91.00	89.10	6,056.48	18.14	3,022.47	3,022.52	0.00	0.00	0.00
9,000.00	91.00	89.10	6,054.74	19.71	3,122.44	3,122.50	0.00	0.00	0.00
TD at 9018.56 - Burkett 16 St 15H PBHL									
9,018.56	91.00	89.10	6,054.41	20.00	3,141.00	3,141.06	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Burkett 16 State #15H
Company:	COG Operating, LLC	TVD Reference:	WELL @ 3806.00usft
Project:	Eddy County(NM27E)	MD Reference:	WELL @ 3806.00usft
Site:	Sec:16-T17S-R31E	North Reference:	Grid
Well:	Burkett 16 State #15H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets

Target Name

- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
Burkett 16 St 15H PBHL	0.00	0.00	6,054.41	20.00	3,141.00	669,905.700	642,013.500	32° 50' 26.887 N	103° 52' 15.422 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
5,579.21	5,579.21	0.00	0.00	KOP (PP) / Start Build 11.00°
6,406.48	6,100.00	-18.50	529.64	EOC / Start Turn 3.00° TFO -89.97
6,503.07	6,098.31	-19.42	626.20	EOT / Start 2515.49' hold at 6503.07 MD
9,018.56	6,054.41	20.00	3,141.00	TD at 9018.56