

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. NMNM0467931
2. Name of Operator COG OPERATING LLC		6. If Indian, Allottee or Tribe Name
3a. Address 600 W ILLINOIS AVENUE MIDLAND, TX 79701		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 432-685-4385		8. Well Name and No. ELECTRA FEDERAL 101H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 10 T17S R30E NENE 660FNL 330FEL		9. API Well No. 30-015-41139-00-X1
		10. Field and Pool, or Exploratory LOCO HILLS
		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 APD
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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.)

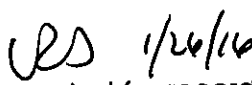
COG Operating LLC respectfully requests permission to change the TVD of this well as follows:

FROM: 5628'TVD 10,115'MD; EOC 5700'TVD
TO: 5379'TVD 9846'MD; EOC 5450'TVD

A revised directional plan is attached.

NM OIL CONSERVATION
ARTESIA DISTRICT

JAN 25 2016


Accepted for record
NMOCD

RECEIVED

14. I hereby certify that the foregoing is true and correct. Electronic Submission #328527 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad Committed to AFMSS for processing by PRISCILLA PEREZ on 01/15/2016 (16PP0115SE)	
Name (Printed/Typed) ROBYN ODOM	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 01/14/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>CHARLES NIMMER</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>01/15/2016</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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****



Section Details

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	4929.21	0.00	0.00	4929.21	0.00	0.00	0.00	0.00	0.00	0.00
3	5756.48	91.00	269.87	5450.00	-1.17	-529.96	11.00	269.87	529.96	BHL (EF #101H/L 1)
4	9845.66	91.00	269.87	5378.63	-10.20	-4618.50	0.00	0.00	4618.51	BHL (EF #101H/L 1)

Ground Elevation: 3729.00
RKB Elevation: KB @ 3747.00usft (Silver Oak 3)

Northing 674730.30
Easting 617482.50
Latitude 32° 51' 15.609 N
Longitude 103° 57' 6.262 W

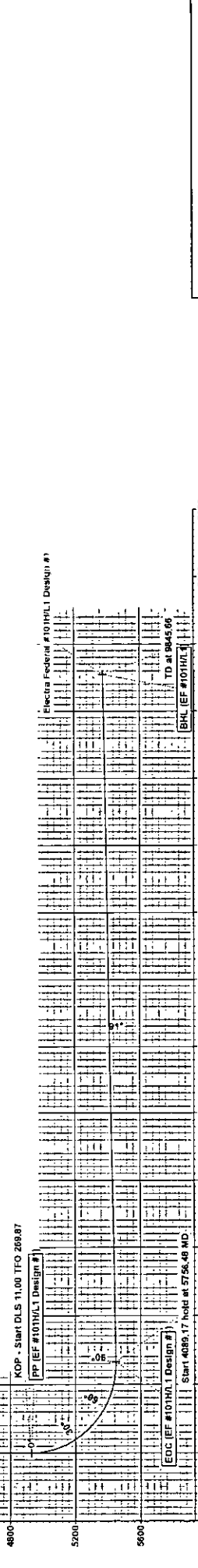
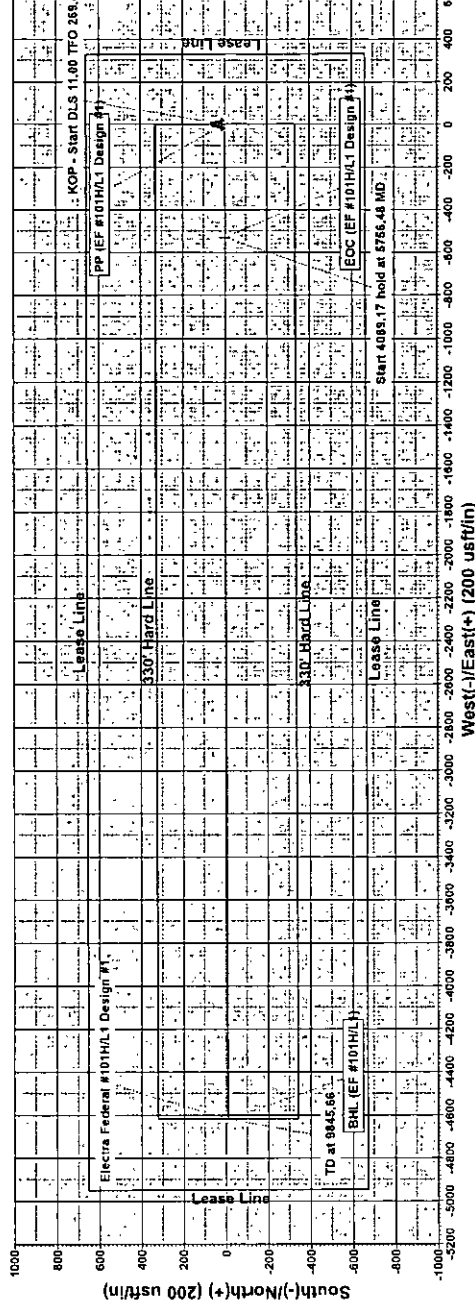
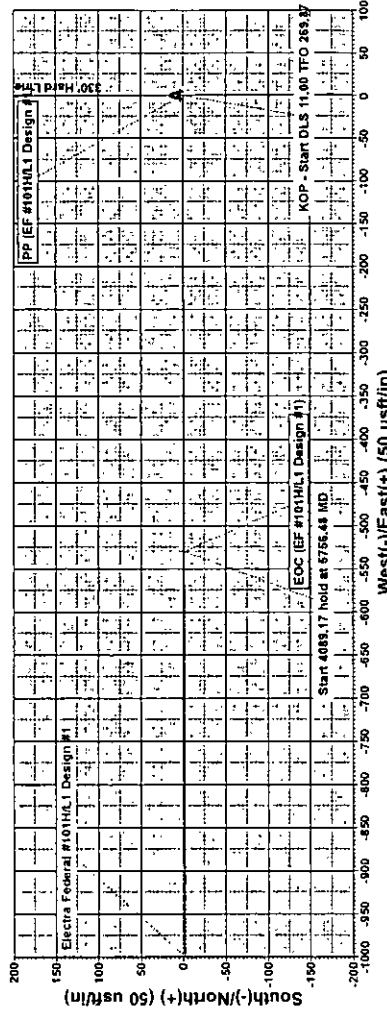
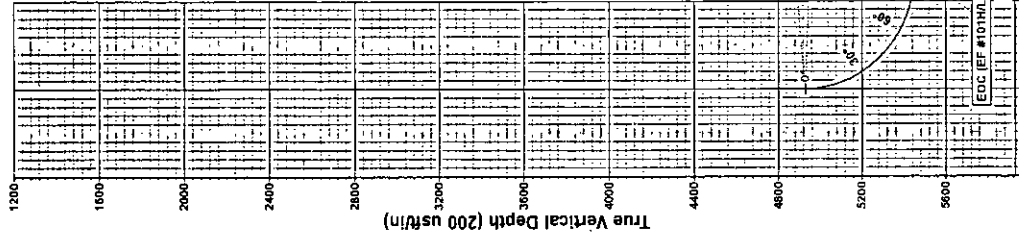
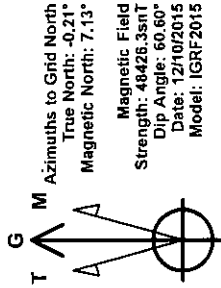
Project: COG Operating LLC
Eddy County, NM (NAD-27 2015)

Site: Electra Federal #101H

Well: SHL: 660' FNL, 330' FNL, Sec 10, T17S, R30E, Unit A

Wellbore: BHL: 660' FNL, 330' FNL, Sec 10, T17S, R30E, Unit D

Plan: Design #1 (SHL: 660' FNL, 330' FNL, Sec 10, T17S, R30E, Unit A/BHL: 660' FNL, 330' FNL, Sec 10, T17S, R30E, Unit D)



Vertical Section at 269.87° (200 usft/in)

Terra Directional Services LLC
322 Spring Hill Drive, Suite A300, Spring, Tx 77386
Phone: 432-425-7532

PROJECT DETAILS: Eddy County, NM (NAD-27 2015)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NAACON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level
Local North: Grid





NM OIL CONSERVATION

ARTESIA DISTRICT

JAN 25 2016

RECEIVED

COG Operating LLC

Eddy County, NM (NAD-27 2015)

Electra Federal #101H

SHL: 660' FNL, 330' FEL, Sec 10, T17S, R30E, Unit A

PP: 660' FNL, 330' FEL, Sec 10, T17S, R30E, Unit A

BHL: 660' FNL, 330' FWL, Sec 10, T17S, R30E, Unit D

Plan: Design #1

Standard Planning Report

10 December, 2015



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well SHL: 660' FNL, 330' FEL, Sec 10, T17S, R30E, Unit A
Company:	COG Operating LLC	TVD Reference:	KB @ 3747.00usft (Silver Oak 3)
Project:	Eddy County, NM (NAD-27 2015)	MD Reference:	KB @ 3747.00usft (Silver Oak 3)
Site:	Electra Federal #101H	North Reference:	Grid
Well:	SHL: 660' FNL, 330' FEL, Sec 10, T17S, R30E, Unit A	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 660' FNL, 330' FWL, Sec 10, T17S, R30E, Unit D		
Design:	Design #1		

Project:	Eddy County, NM (NAD-27 2015)		
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:	Electra Federal #101H		
Site Position:		Northing:	674,730.30 usft
From:	Map	Easting:	617,182.50 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	32° 51' 15.609 N
		Longitude:	103° 57' 6.262 W
		Grid Convergence:	0.21 °

Well	SHL: 660' FNL, 330' FEL, Sec 10, T17S, R30E, Unit A					
Well Position	+N-S	0.00 usft	Northing:	674,730.30 usft	Latitude:	32° 51' 15.609 N
	+E-W	0.00 usft	Easting:	617,182.50 usft	Longitude:	103° 57' 6.262 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,729.00 usft

Wellbore	BHL: 660' FNL, 330' FWL, Sec 10, T17S, R30E, Unit D				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2015	12/10/2015	7.34	60.60	48,426

Design:	Design #1			
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	269.87

Measured	Inclination	Azimuth	Vertical	+N-S	+E-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(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	
4,929.21	0.00	0.00	4,929.21	0.00	0.00	0.00	0.00	0.00	0.00	
5,756.48	91.00	269.87	5,450.00	-1.17	-529.96	11.00	11.00	-10.89	269.87	
9,845.66	91.00	269.87	5,378.63	-10.20	-4,618.50	0.00	0.00	0.00	0.00	BHL (EF #101H/L1)

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well SHL: 660' FNL, 330' FEL, Sec 10, T17S, R30E, Unit A
Company:	COG Operating LLC	TVD Reference:	KB @ 3747.00usft (Silver Oak 3)
Project:	Eddy County, NM (NAD-27 2015)	MD Reference:	KB @ 3747.00usft (Silver Oak 3)
Site:	Electra Federal #101H	North Reference:	Grid
Well:	SHL: 660' FNL, 330' FEL, Sec 10, T17S, R30E, Unit A	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 660' FNL, 330' FWL, Sec 10, T17S, R30E, Unit D		
Design:	Design #1		

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	
4,929.21	0.00	0.00	4,929.21	0.00	0.00	0.00	0.00	0.00	0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well SHL: 660' FNL, 330' FEL, Sec 10, T17S, R30E, Unit A
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Well:	SHL: 660' FNL, 330' FEL, Sec 10, T17S, R30E, Unit A	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 660' FNL, 330' FWL, Sec 10, T17S, R30E, Unit D		
Design:	Design #1		

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)
KOP - Start DLS 11.00 TFO 269.87									
4,950.00	2.29	269.87	4,949.99	0.00	-0.41	0.41	11.00	11.00	0.00
5,000.00	7.79	269.87	4,999.78	-0.01	-4.80	4.80	11.00	11.00	0.00
5,050.00	13.29	269.87	5,048.92	-0.03	-13.94	13.94	11.00	11.00	0.00
5,100.00	18.79	269.87	5,096.96	-0.06	-27.75	27.75	11.00	11.00	0.00
5,150.00	24.29	269.87	5,143.45	-0.10	-46.10	46.10	11.00	11.00	0.00
5,200.00	29.79	269.87	5,187.97	-0.15	-68.82	68.82	11.00	11.00	0.00
5,250.00	35.29	269.87	5,230.10	-0.21	-95.70	95.70	11.00	11.00	0.00
5,300.00	40.79	269.87	5,269.47	-0.28	-126.50	126.50	11.00	11.00	0.00
5,350.00	46.29	269.87	5,305.70	-0.36	-160.92	160.92	11.00	11.00	0.00
5,400.00	51.79	269.87	5,338.47	-0.44	-198.67	198.67	11.00	11.00	0.00
5,450.00	57.29	269.87	5,367.46	-0.53	-239.37	239.38	11.00	11.00	0.00
5,500.00	62.79	269.87	5,392.43	-0.62	-282.68	282.68	11.00	11.00	0.00
5,550.00	68.29	269.87	5,413.12	-0.72	-328.17	328.17	11.00	11.00	0.00
5,600.00	73.79	269.87	5,429.37	-0.83	-375.44	375.44	11.00	11.00	0.00
5,650.00	79.29	269.87	5,441.00	-0.94	-424.04	424.05	11.00	11.00	0.00
5,700.00	84.79	269.87	5,447.93	-1.05	-473.54	473.54	11.00	11.00	0.00
5,750.00	90.29	269.87	5,450.07	-1.16	-523.48	523.48	11.00	11.00	0.00
5,756.48	91.00	269.87	5,450.00	-1.17	-529.96	529.96	11.00	11.00	0.00
EOC - Start 4089.17 hold at 5756.48 MD									
5,800.00	91.00	269.87	5,449.24	-1.27	-573.47	573.47	0.00	0.00	0.00
5,900.00	91.00	269.87	5,447.50	-1.49	-673.45	673.46	0.00	0.00	0.00
6,000.00	91.00	269.87	5,445.75	-1.71	-773.44	773.44	0.00	0.00	0.00
6,100.00	91.00	269.87	5,444.01	-1.93	-873.42	873.43	0.00	0.00	0.00
6,200.00	91.00	269.87	5,442.26	-2.15	-973.41	973.41	0.00	0.00	0.00
6,300.00	91.00	269.87	5,440.52	-2.37	-1,073.39	1,073.40	0.00	0.00	0.00
6,400.00	91.00	269.87	5,438.77	-2.59	-1,173.38	1,173.38	0.00	0.00	0.00
6,500.00	91.00	269.87	5,437.03	-2.81	-1,273.36	1,273.37	0.00	0.00	0.00
6,600.00	91.00	269.87	5,435.28	-3.03	-1,373.35	1,373.35	0.00	0.00	0.00
6,700.00	91.00	269.87	5,433.53	-3.25	-1,473.33	1,473.33	0.00	0.00	0.00
6,800.00	91.00	269.87	5,431.79	-3.47	-1,573.32	1,573.32	0.00	0.00	0.00
6,900.00	91.00	269.87	5,430.04	-3.70	-1,673.30	1,673.30	0.00	0.00	0.00
7,000.00	91.00	269.87	5,428.30	-3.92	-1,773.28	1,773.29	0.00	0.00	0.00
7,100.00	91.00	269.87	5,426.55	-4.14	-1,873.27	1,873.27	0.00	0.00	0.00
7,200.00	91.00	269.87	5,424.81	-4.36	-1,973.25	1,973.26	0.00	0.00	0.00
7,300.00	91.00	269.87	5,423.06	-4.58	-2,073.24	2,073.24	0.00	0.00	0.00
7,400.00	91.00	269.87	5,421.32	-4.80	-2,173.22	2,173.23	0.00	0.00	0.00
7,500.00	91.00	269.87	5,419.57	-5.02	-2,273.21	2,273.21	0.00	0.00	0.00
7,600.00	91.00	269.87	5,417.83	-5.24	-2,373.19	2,373.20	0.00	0.00	0.00
7,700.00	91.00	269.87	5,416.08	-5.46	-2,473.18	2,473.18	0.00	0.00	0.00
7,800.00	91.00	269.87	5,414.34	-5.68	-2,573.16	2,573.17	0.00	0.00	0.00
7,900.00	91.00	269.87	5,412.59	-5.90	-2,673.15	2,673.15	0.00	0.00	0.00
8,000.00	91.00	269.87	5,410.85	-6.12	-2,773.13	2,773.14	0.00	0.00	0.00
8,100.00	91.00	269.87	5,409.10	-6.35	-2,873.11	2,873.12	0.00	0.00	0.00
8,200.00	91.00	269.87	5,407.36	-6.57	-2,973.10	2,973.11	0.00	0.00	0.00
8,300.00	91.00	269.87	5,405.61	-6.79	-3,073.08	3,073.09	0.00	0.00	0.00
8,400.00	91.00	269.87	5,403.87	-7.01	-3,173.07	3,173.08	0.00	0.00	0.00
8,500.00	91.00	269.87	5,402.12	-7.23	-3,273.05	3,273.06	0.00	0.00	0.00
8,600.00	91.00	269.87	5,400.37	-7.45	-3,373.04	3,373.05	0.00	0.00	0.00
8,700.00	91.00	269.87	5,398.63	-7.67	-3,473.02	3,473.03	0.00	0.00	0.00
8,800.00	91.00	269.87	5,396.88	-7.89	-3,573.01	3,573.01	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well SHL: 660' FNL, 330' FEL, Sec 10, T17S, R30E, Unit A
Company:	COG Operating LLC	TVD Reference:	KB @ 3747.00usft (Silver Oak 3)
Project:	Eddy County, NM (NAD-27 2015)	MD Reference:	KB @ 3747.00usft (Silver Oak 3)
Site:	Electra Federal #101H	North Reference:	Grid
Well:	SHL: 660' FNL, 330' FEL, Sec 10, T17S, R30E, Unit A	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 660' FNL, 330' FWL, Sec 10, T17S, R30E, Unit D		
Design:	Design #1		

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)	
8,900.00	91.00	269.87	5,395.14	-8.11	-3,672.99	3,673.00	0.00	0.00	0.00	
9,000.00	91.00	269.87	5,393.39	-8.33	-3,772.98	3,772.98	0.00	0.00	0.00	
9,100.00	91.00	269.87	5,391.65	-8.55	-3,872.96	3,872.97	0.00	0.00	0.00	
9,200.00	91.00	269.87	5,389.90	-8.77	-3,972.94	3,972.95	0.00	0.00	0.00	
9,300.00	91.00	269.87	5,388.16	-9.00	-4,072.93	4,072.94	0.00	0.00	0.00	
9,400.00	91.00	269.87	5,386.41	-9.22	-4,172.91	4,172.92	0.00	0.00	0.00	
9,500.00	91.00	269.87	5,384.67	-9.44	-4,272.90	4,272.91	0.00	0.00	0.00	
9,600.00	91.00	269.87	5,382.92	-9.66	-4,372.88	4,372.89	0.00	0.00	0.00	
9,700.00	91.00	269.87	5,381.18	-9.88	-4,472.87	4,472.88	0.00	0.00	0.00	
9,800.00	91.00	269.87	5,379.43	-10.10	-4,572.85	4,572.86	0.00	0.00	0.00	
9,845.66	91.00	269.87	5,378.63	-10.20	-4,618.50	4,618.51	0.00	0.00	0.00	
TD at 9845.66										

Design Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PP (EF #101H/L1 Design)	- plan hits target center	0.00	0.00	4,929.21	0.00	0.00	674,730.30	617,182.50	32° 51' 15.609 N	103° 57' 6.262 W
- Point										
BHL (EF #101H/L1)	- plan hits target center	0.00	0.00	5,378.63	-10.20	-4,618.50	674,720.10	612,564.00	32° 51' 15.670 N	103° 58' 0.405 W
- Point										
EOC (EF #101H/L1 Des)	- plan hits target center	0.00	0.00	5,450.00	-1.17	-529.96	674,729.12	616,652.55	32° 51' 15.616 N	103° 57' 12.475 W
- Point										

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comments	
		+N-S (usft)	+E-W (usft)		
4,929.21	4,929.21	0.00	0.00	KOP - Start DLS 11.00 TFO 269.87	
5,756.48	5,450.00	-1.17	-529.96	EOC - Start 4089.17 hold at 5756.48 MD	
9,845.66	5,378.63	-10.20	-4,618.50	TD at 9845.66	