

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

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

WELL API NO. 30-015-40419	
5. Indicate Type of Lease STATE ☒ FEE ☐	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name Ouimet State Com	
8. Well Number 4H	
9. OGRID Number 229137	
10. Pool name or Wildcat Empire; Glorieta Yeso, East 96610	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3663'	

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

One Concho Center - 600 W Illinois Ave Midland, TX 79701

4. Well Location

Unit Letter **H** : **2420** feet from the **NORTH** line and **330** feet from the **EAST** line

Section **2** Township **17S** Range **29E** NMPM County **EDDY**

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 ☐

SUBSEQUENT REPORT OF:

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

OTHER: **Change TVD and 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 to change the TVD to Lower Blinbry at 5200'.

COG Operating LLC submitted APD for this well at this location:

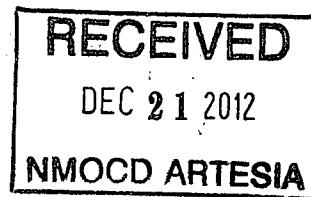
SHL: 2420 FNL 330 FEL Unit H

BHL: 2310 FNL 330 FWL Unit E

COG Operating LLC respectfully requests to change the BHL to:

SHL: 2420 FNL 330 FEL Unit H

BHL: 2300 FNL 330 FWL Unit E



Revision is due to skewed section and avoiding a Non-Standard location. Estimated completed interval in within the 330' hard line due to skewed section.

A revised Directional Plan and C102 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 **12/20/2012**

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 **12/21/2012**

Conditions of Approval (if any):

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
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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 30-015-40419	Pool Code 96610	Pool Name Empire; Glorieta-Yeso East
Property Code	Property Name OUMET STATE COM	Well Number 4H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3663'

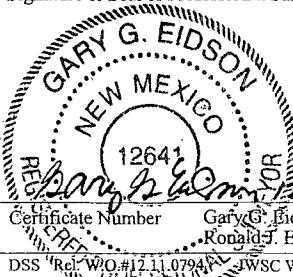
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	2	17-S	29-E		2420	NORTH	330	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
E	2	17-S	29-E		2300	NORTH	330	WEST	EDDY
Dedicated Acres 160		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

				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.  12-20-12 Signature Date Kelly J. Holly Printed Name kholly@concho.com E-mail Address	
CORNER COORDINATES TABLE A - Y=680600.4 N, X=585904.0' E B - Y=680599.7 N, X=588550.2' E C - Y=680600.0 N, X=591196.8' E D - Y=679278.8 N, X=591197.9' E E - Y=679287.0 N, X=585902.7' E F - Y=677970.9 N, X=585901.4' E G - Y=677961.5 N, X=591198.9' 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. APRIL 27, 2012 Date of Survey Signature & Seal of Professional Surveyor: 	
GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=678180.6 N X=590868.8 E LAT.=32.864051° N LONG.=104.037395° W BOTTOM HOLE LOCATION Y=678300.9 N X=586231.7 E				Estimated Completed Interval: 2300 FNL 354 FWL	
DSS Ref. W.O.#12110794 JWSC W.O.: 12.13.2020				Certificate Number 12641 Gary G. Eidson Ronald J. Eidson 3239	

Plan Proposal

FOR

COG Operating, LLC
Ouimet State Com #4H
Eddy Co., NM

Design #2

Presented By:

Aaron Boger
Account Manager

Dusty Moyer
Well Planner

SHL

2420' FNL & 330' FEL

Penetration Point

2300' FNL & 354' FWL

PBHL

2300' FNL & 330' FWL

SEC.2-T17S-R29E

APPROVED



Project: Eddy County(NM27E)
 Site: Sec.2-T17S-R29E
 Well: Ouimet State Com #4H
 Wellbore: Wellbore #1
 Design: Design #2
 Lat: 32° 51' 50.585 N
 Long: 104° 2' 14.622 W
 GL: 3663.00
 KB: WELL @ 3677.00usft (Original Well Elev)

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4679.21	0.00	0.00	4679.21	0.00	0.00	0.00	0.00	0.00	KOP 11°100
5506.48	91.00	271.49	5200.00	13.74	-529.78	11.00	271.49	529.96	EOC / Hold to TD
9615.81	91.00	271.49	5128.28	120.30	-4637.10	0.00	0.00	4638.66	TD at 9615.81

WELL DETAILS: Ouimet State Com #4H

+N/-S	+E/-W	Northing	Easting	Ground Level:	Latitude	Longitude	Slot
0.00	0.00	678180.600	590868.800	3663.00	32° 51' 50.585 N	104° 2' 14.622 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

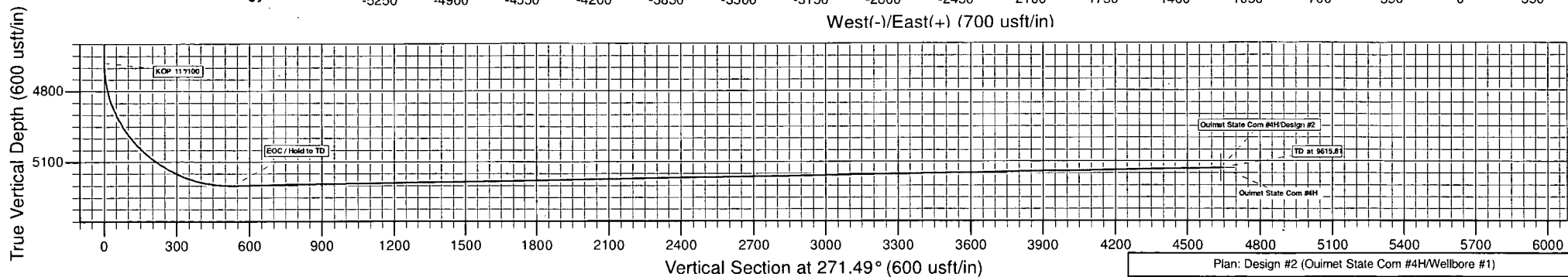
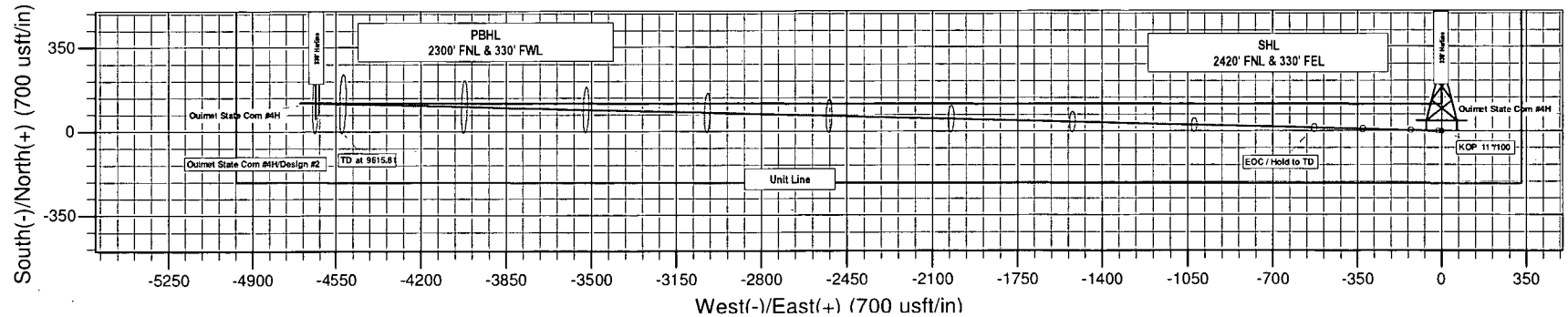
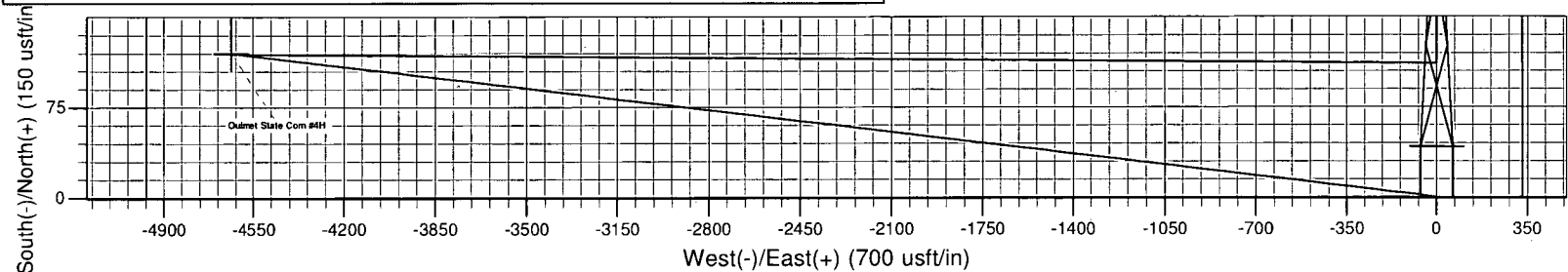
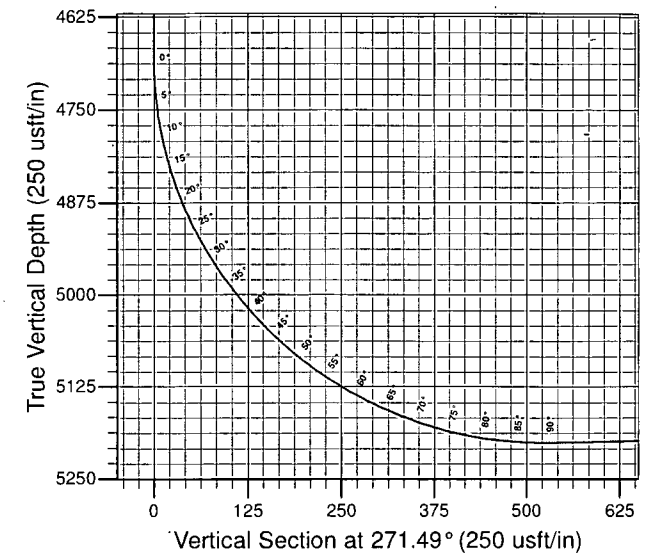
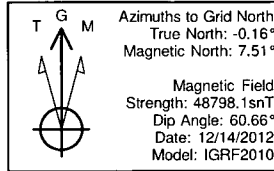
SITE DETAILS: Sec.2-T17S-R29E

Site Centre Latitude: 32° 51' 50.585 N
 Longitude: 104° 2' 14.622 W

Positional Uncertainty: 0.00
 Convergence: 0.16
 Local North: Grid

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Ouimet State Com #4H 5128.28	120.30	-4637.10	32° 51' 51.901 N	104° 3' 8.985 W	Point	



Plan: Design #2 (Ouimet State Com #4H/Wellbore #1)

Created By: Lando Hiller Date: 12:33, December 14 2012

Archer

COG Operating, LLC

Eddy County(NM27E)

Sec.2-T17S-R29E

Ouimet State Com #4H

Wellbore #1

Plan: Design #2

Standard Planning Report

14 December, 2012



Database:	EDMDBBW	Local Co-ordinate Reference:	Well Ouimet State Com #4H
Company:	COG Operating, LLC	TVD Reference:	WELL @ 3677.00usft (Original Well Elev)
Project:	Eddy County(NM27E)	MD Reference:	WELL @ 3677.00usft (Original Well Elev)
Site:	Sec.2-T17S-R29E	North Reference:	Grid
Well:	Ouimet State Com #4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Project:	Eddy County(NM27E), Surface Location: 915FSL & 400FWL, Top of Paddock 4000TVD.		
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.2-T17S-R29E		
Site Position:		Northing:	678,180.600 usft
From:	Map	Easting:	590,868.800 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	32° 51' 50.585 N
		Longitude:	104° 2' 14.622 W
		Grid Convergence:	0.16 °

Well:	Ouimet State Com #4H		
Well Position	+N-S	0.00 usft	Northing: 678,180.600 usft
	+E-W	0.00 usft	Easting: 590,868.800 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 51' 50.585 N
		Longitude:	104° 2' 14.622 W
		Ground Level:	3,663.00 usft

Wellbore:	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	12/14/12	7.67
			Dip Angle
			60.66
			Field Strength
			48,798

Design:	Design #2		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			271.49

Plan Sections:										
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	
4,679.21	0.00	0.00	4,679.21	0.00	0.00	0.00	0.00	0.00	0.00	
5,506.48	91.00	271.49	5,200.00	13.74	-529.78	11.00	11.00	0.00	271.49	Ouimet State Com #4
9,615.81	91.00	271.49	5,128.28	120.30	-4,637.10	0.00	0.00	0.00	0.00	Ouimet State Com #4

Database:	EDMDBBW	Local Co-ordinate Reference:	Well Ouimet State Com #4H
Company:	COG Operating, LLC	TVD Reference:	WELL @ 3677.00usft (Original Well Elev)
Project:	Eddy County (NM27E)	MD Reference:	WELL @ 3677.00usft (Original Well Elev)
Site:	Sec 2-T17S-R29E	North Reference:	Grid
Well:	Ouimet State Com #4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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
KOP 11°/100									
4,679.21	0.00	0.00	4,679.21	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	2.29	271.49	4,699.99	0.01	-0.41	0.41	11.00	11.00	0.00
4,750.00	7.79	271.49	4,749.78	0.12	-4.80	4.80	11.00	11.00	0.00
4,800.00	13.29	271.49	4,798.92	0.36	-13.94	13.94	11.00	11.00	0.00
4,850.00	18.79	271.49	4,846.96	0.72	-27.74	27.75	11.00	11.00	0.00
4,900.00	24.29	271.49	4,893.45	1.20	-46.08	46.10	11.00	11.00	0.00

Database:	EDMDBBW	Local Co-ordinate Reference:	Well Ouimet State Corn #4H
Company:	COG Operating- LLC	TVD Reference:	WELL @ 3677.00usft (Original Well Elev)
Project:	Eddy County (NM27E)	MD Reference:	WELL @ 3677.00usft (Original Well Elev)
Site:	Sec.2-T17S-R29E	North Reference:	Grid
Well:	Ouimet State Corn #4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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)
4,950.00	29.79	271.49	4,937.97	1.78	-68.79	68.82	11.00	11.00	0.00
5,000.00	35.29	271.49	4,980.10	2.48	-95.67	95.70	11.00	11.00	0.00
5,050.00	40.79	271.49	5,019.47	3.28	-126.45	126.50	11.00	11.00	0.00
5,100.00	46.29	271.49	5,055.70	4.17	-160.87	160.92	11.00	11.00	0.00
5,150.00	51.79	271.49	5,088.47	5.15	-198.60	198.67	11.00	11.00	0.00
5,200.00	57.29	271.49	5,117.46	6.21	-239.29	239.38	11.00	11.00	0.00
5,250.00	62.79	271.49	5,142.43	7.33	-282.58	282.68	11.00	11.00	0.00
5,300.00	68.29	271.49	5,163.12	8.51	-328.06	328.17	11.00	11.00	0.00
5,350.00	73.79	271.49	5,179.37	9.74	-375.31	375.44	11.00	11.00	0.00
5,400.00	79.29	271.49	5,191.00	11.00	-423.90	424.05	11.00	11.00	0.00
5,450.00	84.79	271.49	5,197.93	12.28	-473.38	473.54	11.00	11.00	0.00
5,500.00	90.29	271.49	5,200.07	13.58	-523.30	523.48	11.00	11.00	0.00
EOC / Hold to TD									
5,506.48	91.00	271.49	5,200.00	13.74	-529.78	529.96	11.00	11.00	0.00
5,600.00	91.00	271.49	5,198.37	16.17	-623.25	623.46	0.00	0.00	0.00
5,700.00	91.00	271.49	5,196.62	18.76	-723.21	723.45	0.00	0.00	0.00
5,800.00	91.00	271.49	5,194.88	21.36	-823.16	823.43	0.00	0.00	0.00
5,900.00	91.00	271.49	5,193.13	23.95	-923.11	923.42	0.00	0.00	0.00
6,000.00	91.00	271.49	5,191.39	26.54	-1,023.06	1,023.40	0.00	0.00	0.00
6,100.00	91.00	271.49	5,189.64	29.13	-1,123.01	1,123.39	0.00	0.00	0.00
6,200.00	91.00	271.49	5,187.90	31.73	-1,222.96	1,223.37	0.00	0.00	0.00
6,300.00	91.00	271.49	5,186.15	34.32	-1,322.91	1,323.36	0.00	0.00	0.00
6,400.00	91.00	271.49	5,184.41	36.91	-1,422.86	1,423.34	0.00	0.00	0.00
6,500.00	91.00	271.49	5,182.66	39.51	-1,522.81	1,523.33	0.00	0.00	0.00
6,600.00	91.00	271.49	5,180.92	42.10	-1,622.77	1,623.31	0.00	0.00	0.00
6,700.00	91.00	271.49	5,179.17	44.69	-1,722.72	1,723.30	0.00	0.00	0.00
6,800.00	91.00	271.49	5,177.43	47.29	-1,822.67	1,823.28	0.00	0.00	0.00
6,900.00	91.00	271.49	5,175.68	49.88	-1,922.62	1,923.27	0.00	0.00	0.00
7,000.00	91.00	271.49	5,173.94	52.47	-2,022.57	2,023.25	0.00	0.00	0.00
7,100.00	91.00	271.49	5,172.19	55.06	-2,122.52	2,123.24	0.00	0.00	0.00
7,200.00	91.00	271.49	5,170.45	57.66	-2,222.47	2,223.22	0.00	0.00	0.00
7,300.00	91.00	271.49	5,168.70	60.25	-2,322.42	2,323.21	0.00	0.00	0.00
7,400.00	91.00	271.49	5,166.95	62.84	-2,422.38	2,423.19	0.00	0.00	0.00
7,500.00	91.00	271.49	5,165.21	65.44	-2,522.33	2,523.17	0.00	0.00	0.00
7,600.00	91.00	271.49	5,163.46	68.03	-2,622.28	2,623.16	0.00	0.00	0.00
7,700.00	91.00	271.49	5,161.72	70.62	-2,722.23	2,723.14	0.00	0.00	0.00
7,800.00	91.00	271.49	5,159.97	73.22	-2,822.18	2,823.13	0.00	0.00	0.00
7,900.00	91.00	271.49	5,158.23	75.81	-2,922.13	2,923.11	0.00	0.00	0.00
8,000.00	91.00	271.49	5,156.48	78.40	-3,022.08	3,023.10	0.00	0.00	0.00
8,100.00	91.00	271.49	5,154.74	80.99	-3,122.03	3,123.08	0.00	0.00	0.00
8,200.00	91.00	271.49	5,152.99	83.59	-3,221.98	3,223.07	0.00	0.00	0.00
8,300.00	91.00	271.49	5,151.25	86.18	-3,321.94	3,323.05	0.00	0.00	0.00
8,400.00	91.00	271.49	5,149.50	88.77	-3,421.89	3,423.04	0.00	0.00	0.00
8,500.00	91.00	271.49	5,147.76	91.37	-3,521.84	3,523.02	0.00	0.00	0.00
8,600.00	91.00	271.49	5,146.01	93.96	-3,621.79	3,623.01	0.00	0.00	0.00
8,700.00	91.00	271.49	5,144.27	96.55	-3,721.74	3,722.99	0.00	0.00	0.00
8,800.00	91.00	271.49	5,142.52	99.15	-3,821.69	3,822.98	0.00	0.00	0.00
8,900.00	91.00	271.49	5,140.78	101.74	-3,921.64	3,922.96	0.00	0.00	0.00
9,000.00	91.00	271.49	5,139.03	104.33	-4,021.59	4,022.95	0.00	0.00	0.00
9,100.00	91.00	271.49	5,137.29	106.92	-4,121.54	4,122.93	0.00	0.00	0.00
9,200.00	91.00	271.49	5,135.54	109.52	-4,221.50	4,222.92	0.00	0.00	0.00
9,300.00	91.00	271.49	5,133.80	112.11	-4,321.45	4,322.90	0.00	0.00	0.00
9,400.00	91.00	271.49	5,132.05	114.70	-4,421.40	4,422.89	0.00	0.00	0.00

Database:	EDMDBBW	Local Co-ordinate Reference:	Well Ouimet State Com #4H
Company:	COG Operating, LLC	TVD Reference:	WELL @ 3677.00usft (Original Well Elev)
Project:	Eddy County(NM27E)	MD Reference:	WELL @ 3677.00usft (Original Well Elev)
Site:	Sec.2-T17S-R29E	North Reference:	Grid
Well:	Ouimet State Com #4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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)
9,500.00	91.00	271.49	5,130.30	117.30	-4,521.35	4,522.87	0.00	0.00	0.00
9,600.00	91.00	271.49	5,128.56	119.89	-4,621.30	4,622.85	0.00	0.00	0.00
TD at 9615.81									
9,615.81	91.00	271.49	5,128.28	120.30	-4,637.10	4,638.66	0.00	0.00	0.00

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
Ouimet State Com #4H	- plan hits target center - Point	0.00	0.00	5,128.28	120.30	-4,637.10	678,300.900	586,231.700	32° 51' 51.901 N 104° 3' 8.985 W

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
4,679.21	4,679.21	0.00	0.00	KOP 11°/100	
5,506.48	5,200.00	13.74	-529.78	EOC / Hold to TD	
9,615.81	5,128.28	120.30	-4,637.10	TD at 9615.81	