

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. 30-015-40418
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Quimet State Com
8. Well Number 3H
9. OGRID Number 229137
10. Pool name or Wildcat Empire; Glorieta Yeso, East 96610

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** : **1750** feet from the **NORTH** line and **330** feet from the **EAST** line
 Section **2** Township **17S** Range **29E** NMPM County **EDDY**

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3664'

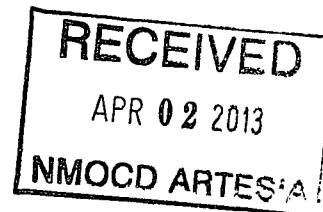
12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
OTHER: Change SHL <input checked="" type="checkbox"/>		OTHER: <input type="checkbox"/>	

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 submitted APD for this well at this location:
 SHL: 1750' FNL 330' FEL, Unit H
 BHL: 1650' FNL 330' FWL, Unit E

COG Operating LLC respectfully requests permission to change the SHL to:
 SHL: 1800' FNL 150' FEL, Unit H
 BHL: 1650' FNL 330' FWL, Unit E



Reason for changing the SHL is to capture as many reserves as possible.

A revised C-102 and directional plan are 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 **03/28/2013**

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 **4/3/2013**

Conditions of Approval (if any):

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
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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
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505
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RIMOCO ARTESIA

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-40418	² Pool Code 96610	³ Pool Name Empire; Glorieta Yeso East
⁴ Property Code	⁵ Property Name OUMET STATE COM.	⁶ Well Number 3H
⁷ OGRID No. 229137	⁸ Operator Name COG OPERATING, LLC	⁹ Elevation 3664'

¹⁰ 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		1800	NORTH	150	EAST	EDDY

¹¹ 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		1650	NORTH	330	WEST	EDDY

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

CORNER DATA
NAD 27 GRID - NM EAST
A: FND 1/2" REBAR
N 675329.9 - E 585912.5
B: BRASS CAP "1914"
N 677971.0 - E 585901.6
C: BRASS CAP "1914"
N 680600.2 - E 585904.0
D: BRASS CAP "1914"
N 680599.8 - E 588550.2
E: BRASS CAP "1916"
N 680599.9 - E 591196.5
F: BRASS CAP "1914"
N 677961.6 - E 591198.9
G: BRASS CAP "1914"
N 675322.5 - E 591200.4
H: BRASS CAP "1914"
N 675322.9 - E 588553.7

GEODETIC DATA
NAD 27 GRID - NM EAST
SURFACE LOCATION
N 678800.4 - E 591046.1
LAT: 32.86575° N
LONG: 104.03681° W
BOTTOM LOCATION
N 678950.2 - E 586232.5

Estimated Completed Interval:
1794 FNLT
330 FEL

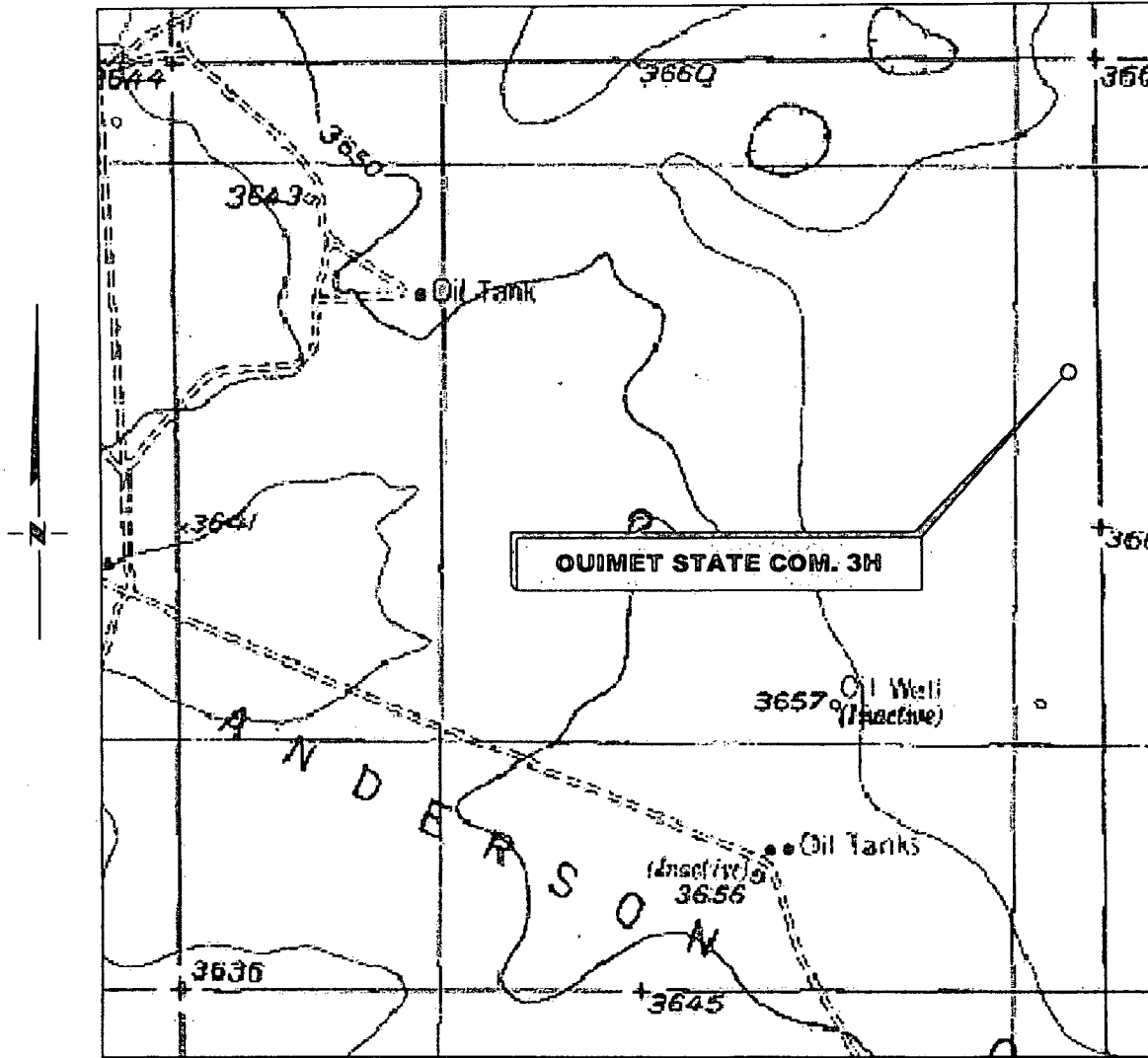
¹⁷ OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order hereinafter approved by the division.

Signature: Date: 3-28-13
Printed Name: Kelly J. Holly
Email Address: kholly@concho.com

¹⁸ 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.

Date of Survey: 2/18/13
Signature and Seal of Professional Surveyor:
Certificate Number: 19680

LOCATION VERIFICATION MAP



SECTION 2, TWP. 17 SOUTH, RGE. 29 EAST,
N. M. P. M., EDDY COUNTY, NEW MEXICO

OPERATOR: COG Operating, LLC
 LEASE: Ouimet State Com.
 WELL NO.: 3H
 ELEVATION: 3664'

LOCATION: 1800' FNL & 150' FEL
 CONTOUR INTERVAL: 10'
 USGS TOPO. SOURCE MAP:
Red Lake SE, NM (1955)

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NO.	REVISION	DATE
JOB NO.: LS130069		
DWG. NO.: 130069LVM		

PROSPERITY CONSULTANTS, LLC



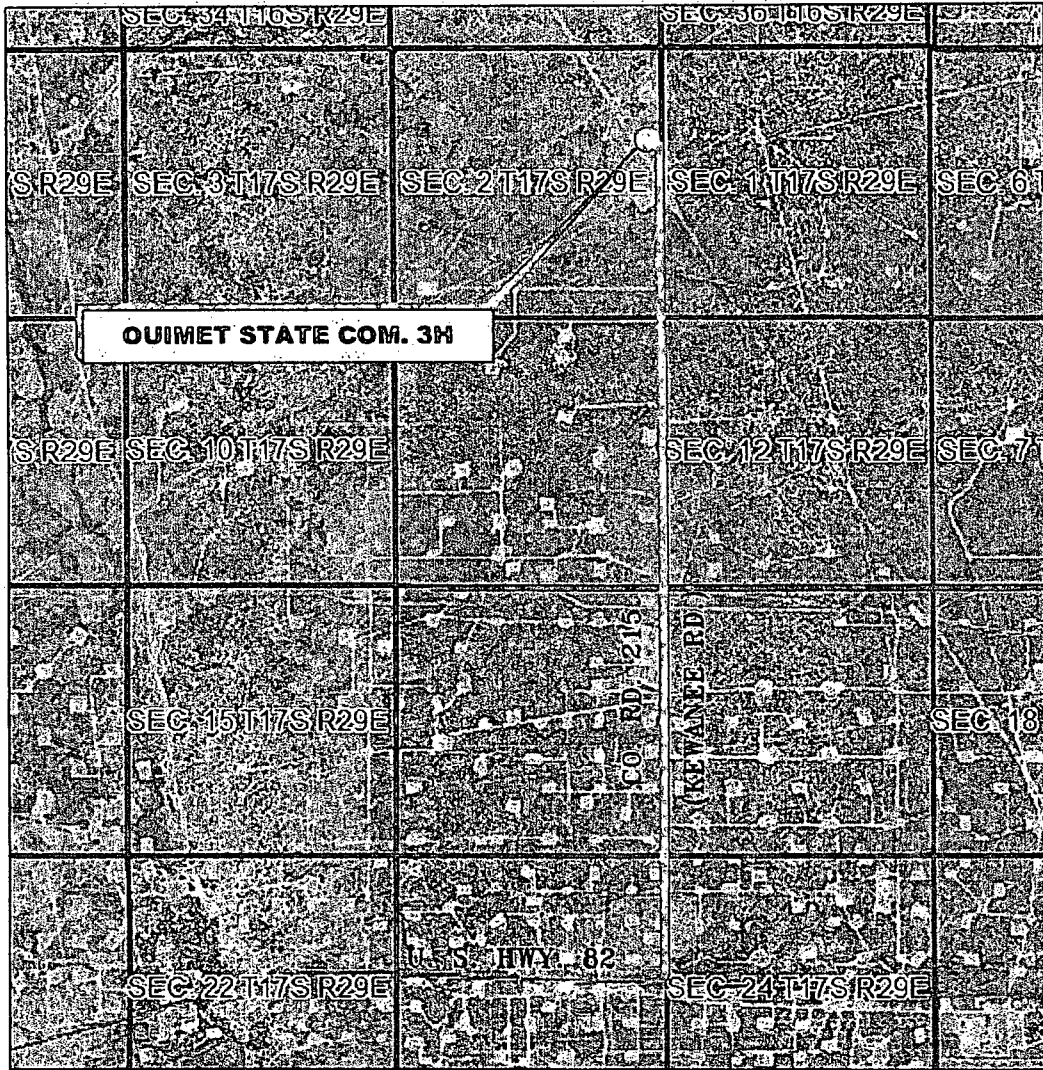
2251 Double Creek Drive, Suite 602, Round Rock, Texas 78664

o (512) 992-2087 f (512) 251-2518

SCALE: 1" = 1000'
 DATE: 2/18/13
 SURVEYED BY: GB/SM
 DRAWN BY: LWB
 APPROVED BY: LWB
 SHEET : 1 OF 1

VICINITY MAP

NOT TO SCALE



*SECTION 2, TWP. 17 SOUTH, RGE. 29 EAST,
N. M. P. M., EDDY COUNTY, NEW MEXICO*

OPERATOR: COG Operating, LLC
 LEASE: Ouimet State Com.
 WELL NO.: 3H

LOCATION: 1800' FNL & 150' FEL
 ELEVATION: 3664'

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NO.	REVISION	DATE
JOB NO.: LS130069		
DWG. NO.: 130069VM		

PROSPERITY CONSULTANTS, LLC



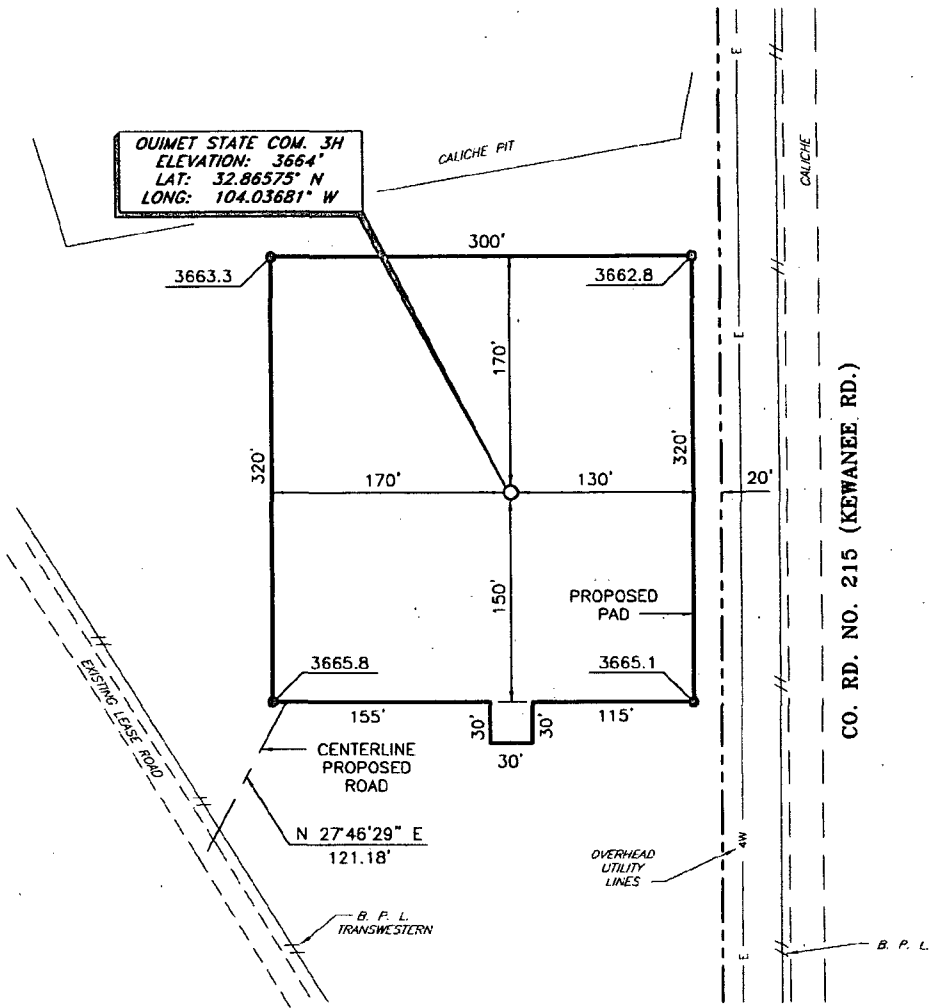
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SCALE: 1" = 1000'
DATE: 2/18/13
SURVEYED BY: GB/SM
DRAWN BY: LWB
APPROVED BY: LWB
SHEET : 1 OF 1

COG OPERATING, LLC

Ouimet State Com. 3H
 (1800' FNL & 150' FEL)
 Section 2, T-17-S, R-29-E,
 N. M. P. M., Eddy Co., New Mexico



DIRECTIONS TO LOCATION

From the intersection of U. S. Hwy. No. 82 and
 County Road No. 215 (Kewanee):
 Go North on Co. Rd. No. 215 approx. 3.1 miles;
 Location is approx. 210' West of Co. Rd. No. 215.



SCALE: 1" = 100'
 0 50 100
 BEARINGS ARE
 NAD 27 - NM EAST
 DISTANCES ARE
 GROUND.

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NO.	REVISION	DATE
JOB NO.: LS130069		
DWG. NO.: 130069PAD		

PROSPERITY CONSULTANTS, LLC



2251 Double Creek Drive, Suite 602, Round Rock, Texas 78664 • (512) 992-2087 f (512) 251-2518

SCALE: 1" = 100'
DATE: 2/18/13
SURVEYED BY: GB/SM
DRAWN BY: LWB
APPROVED BY: LWB
SHEET : 1 OF 1

RECEIVED

APR 02 2013

NMOCD ARTESIA

Plan Proposal

FOR

COG Operating, LLC
Quimet State Com #3H
Eddy Co., NM

Design #4

Presented By:

Aaron Boger
Account Manager

Bret Wolford
Well Planner

SHL
1800' FNL & 150' FEL
Penetration Point
1794' FNL & 330' FEL
PBHL
1650' FNL & 330' FWL
Sec.2-T17S-R29E

ARTESIA



COG Operating, LLC

Eddy County(NM27E)

Sec.2-T17S-R29E

Ouimet State Com #3H

Wellbore #1

Plan: Design #4

Standard Planning Report

22 March, 2013

Archer

Database:	EDM:5000:1:Single User Db	Local Co-ordinate Reference:	Well: Ouimet State Com #3H
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 #3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4		

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.2-T17S-R29E				
Site Position:		Northing:	678,180.600 usft	Latitude:	32° 51' 50.585 N
From:	Map	Easting:	590,868.800 usft	Longitude:	104° 2' 14.622 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.16 °

Well:	Ouimet State Com #3H					
Well Position	+N-S	619.41 usft	Northing:	678,800.010 usft	Latitude:	32° 51' 56.710 N
	+E-W	179.40 usft	Easting:	591,048.200 usft	Longitude:	104° 2' 12.498 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,663.00 usft

Wellbore:	Wellbore #1				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	03/22/13	7.63	60.66	48,772

Design:	Design #4				
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Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)	
	5,225.15	0.00	0.00	271.79	

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	
4,779.21	0.00	0.00	4,779.21	0.00	0.00	0.00	0.00	0.00	0.00	
5,606.48	91.00	271.79	5,300.00	16.54	-529.70	11.00	11.00	0.00	271.79	Ouimet State Com #3
9,895.35	91.00	271.79	5,225.15	150.37	-4,815.83	0.00	0.00	0.00	0.00	Ouimet State Com #3

Database:	EDM:5000:1:Single-User.Db	Local Co-ordinate Reference:	Well Ouimet State Com #3H
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 #3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4		

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	0.00
100.00	0.00	0.00	100.00	0.00	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	0.00
300.00	0.00	0.00	300.00	0.00	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	0.00
500.00	0.00	0.00	500.00	0.00	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	0.00
700.00	0.00	0.00	700.00	0.00	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	0.00
900.00	0.00	0.00	900.00	0.00	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	0.00
1,100.00	0.00	0.00	1,100.00	0.00	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	0.00
1,300.00	0.00	0.00	1,300.00	0.00	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	0.00
1,500.00	0.00	0.00	1,500.00	0.00	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	0.00
1,700.00	0.00	0.00	1,700.00	0.00	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	0.00
1,900.00	0.00	0.00	1,900.00	0.00	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	0.00
2,100.00	0.00	0.00	2,100.00	0.00	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	0.00
2,300.00	0.00	0.00	2,300.00	0.00	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	0.00
2,500.00	0.00	0.00	2,500.00	0.00	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	0.00
2,700.00	0.00	0.00	2,700.00	0.00	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	0.00
2,900.00	0.00	0.00	2,900.00	0.00	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	0.00
3,100.00	0.00	0.00	3,100.00	0.00	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	0.00
3,300.00	0.00	0.00	3,300.00	0.00	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	0.00
3,500.00	0.00	0.00	3,500.00	0.00	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	0.00
3,700.00	0.00	0.00	3,700.00	0.00	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	0.00
3,900.00	0.00	0.00	3,900.00	0.00	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	0.00
4,100.00	0.00	0.00	4,100.00	0.00	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	0.00
4,300.00	0.00	0.00	4,300.00	0.00	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	0.00
4,500.00	0.00	0.00	4,500.00	0.00	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	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP / Start Build: 11:00°										
4,779.21	0.00	0.00	4,779.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	2.29	271.79	4,799.99	0.01	-0.41	0.41	11.00	11.00	0.00	0.00
4,850.00	7.79	271.79	4,849.78	0.15	-4.80	4.80	11.00	11.00	0.00	0.00
4,900.00	13.29	271.79	4,898.92	0.44	-13.94	13.94	11.00	11.00	0.00	0.00
4,950.00	18.79	271.79	4,946.96	0.87	-27.74	27.75	11.00	11.00	0.00	0.00

Database:	EDM_5000_1_Single_User.Db	Local Co-ordinate Reference:	Well Ouimet State Com #3H
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 #3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4		

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)
5,000.00	24.29	271.79	4,993.45	1.44	-46.08	46.10	11.00	11.00	0.00
5,050.00	29.79	271.79	5,037.97	2.15	-68.79	68.82	11.00	11.00	0.00
5,100.00	35.29	271.79	5,080.10	2.99	-95.65	95.70	11.00	11.00	0.00
5,150.00	40.79	271.79	5,119.47	3.95	-126.44	126.50	11.00	11.00	0.00
5,200.00	46.29	271.79	5,155.70	5.02	-160.85	160.93	11.00	11.00	0.00
PP @ 5226' MD									
5,226.00	49.15	271.79	5,173.19	5.62	-180.07	180.16	11.00	11.00	0.00
5,250.00	51.79	271.79	5,188.47	6.20	-198.57	198.67	11.00	11.00	0.00
5,300.00	57.29	271.79	5,217.46	7.47	-239.26	239.38	11.00	11.00	0.00
5,350.00	62.79	271.79	5,242.43	8.82	-282.54	282.68	11.00	11.00	0.00
5,400.00	68.29	271.79	5,263.12	10.24	-328.01	328.17	11.00	11.00	0.00
5,450.00	73.79	271.79	5,279.36	11.72	-375.26	375.44	11.00	11.00	0.00
5,500.00	79.29	271.79	5,291.00	13.23	-423.84	424.05	11.00	11.00	0.00
5,550.00	84.79	271.79	5,297.92	14.78	-473.31	473.55	11.00	11.00	0.00
5,600.00	90.29	271.79	5,300.07	16.34	-523.23	523.48	11.00	11.00	0.00
EOC / Start 4288.87; hold at 5606.48 MD									
5,606.48	91.00	271.79	5,300.00	16.54	-529.70	529.96	11.00	11.00	0.00
5,700.00	91.00	271.79	5,298.37	19.46	-623.16	623.47	0.00	0.00	0.00
5,800.00	91.00	271.79	5,296.62	22.58	-723.10	723.45	0.00	0.00	0.00
5,900.00	91.00	271.79	5,294.88	25.70	-823.03	823.44	0.00	0.00	0.00
6,000.00	91.00	271.79	5,293.13	28.82	-922.97	923.42	0.00	0.00	0.00
6,100.00	91.00	271.79	5,291.39	31.94	-1,022.91	1,023.40	0.00	0.00	0.00
6,200.00	91.00	271.79	5,289.64	35.06	-1,122.84	1,123.39	0.00	0.00	0.00
6,300.00	91.00	271.79	5,287.90	38.18	-1,222.78	1,223.37	0.00	0.00	0.00
6,400.00	91.00	271.79	5,286.15	41.30	-1,322.71	1,323.36	0.00	0.00	0.00
6,500.00	91.00	271.79	5,284.41	44.42	-1,422.65	1,423.34	0.00	0.00	0.00
6,600.00	91.00	271.79	5,282.66	47.54	-1,522.59	1,523.33	0.00	0.00	0.00
6,700.00	91.00	271.79	5,280.92	50.66	-1,622.52	1,623.31	0.00	0.00	0.00
6,800.00	91.00	271.79	5,279.17	53.78	-1,722.46	1,723.30	0.00	0.00	0.00
6,900.00	91.00	271.79	5,277.42	56.90	-1,822.39	1,823.28	0.00	0.00	0.00
7,000.00	91.00	271.79	5,275.68	60.02	-1,922.33	1,923.27	0.00	0.00	0.00
7,100.00	91.00	271.79	5,273.93	63.14	-2,022.27	2,023.25	0.00	0.00	0.00
7,200.00	91.00	271.79	5,272.19	66.26	-2,122.20	2,123.24	0.00	0.00	0.00
7,300.00	91.00	271.79	5,270.44	69.38	-2,222.14	2,223.22	0.00	0.00	0.00
7,400.00	91.00	271.79	5,268.70	72.50	-2,322.08	2,323.21	0.00	0.00	0.00
7,500.00	91.00	271.79	5,266.95	75.63	-2,422.01	2,423.19	0.00	0.00	0.00
7,600.00	91.00	271.79	5,265.21	78.75	-2,521.95	2,523.18	0.00	0.00	0.00
7,700.00	91.00	271.79	5,263.46	81.87	-2,621.88	2,623.16	0.00	0.00	0.00
7,800.00	91.00	271.79	5,261.72	84.99	-2,721.82	2,723.15	0.00	0.00	0.00
7,900.00	91.00	271.79	5,259.97	88.11	-2,821.76	2,823.13	0.00	0.00	0.00
8,000.00	91.00	271.79	5,258.23	91.23	-2,921.69	2,923.12	0.00	0.00	0.00
8,100.00	91.00	271.79	5,256.48	94.35	-3,021.63	3,023.10	0.00	0.00	0.00
8,200.00	91.00	271.79	5,254.74	97.47	-3,121.56	3,123.08	0.00	0.00	0.00
8,300.00	91.00	271.79	5,252.99	100.59	-3,221.50	3,223.07	0.00	0.00	0.00
8,400.00	91.00	271.79	5,251.25	103.71	-3,321.44	3,323.05	0.00	0.00	0.00
8,500.00	91.00	271.79	5,249.50	106.83	-3,421.37	3,423.04	0.00	0.00	0.00
8,600.00	91.00	271.79	5,247.76	109.95	-3,521.31	3,523.02	0.00	0.00	0.00
8,700.00	91.00	271.79	5,246.01	113.07	-3,621.24	3,623.01	0.00	0.00	0.00
8,800.00	91.00	271.79	5,244.27	116.19	-3,721.18	3,722.99	0.00	0.00	0.00
8,900.00	91.00	271.79	5,242.52	119.31	-3,821.12	3,822.98	0.00	0.00	0.00
9,000.00	91.00	271.79	5,240.77	122.43	-3,921.05	3,922.96	0.00	0.00	0.00
9,100.00	91.00	271.79	5,239.03	125.55	-4,020.99	4,022.95	0.00	0.00	0.00
9,200.00	91.00	271.79	5,237.28	128.67	-4,120.92	4,122.93	0.00	0.00	0.00
9,300.00	91.00	271.79	5,235.54	131.79	-4,220.86	4,222.92	0.00	0.00	0.00

Database:	EDM-5000:1-Single User Db	Local Co-ordinate Reference:	Well Ouimet State Com #3H
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-T.17S-R29E	North Reference:	Grid
Well:	Ouimet State Com #3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4		

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)
9,400.00	91.00	271.79	5,233.79	134.91	-4,320.80	4,322.90	0.00	0.00	0.00
9,500.00	91.00	271.79	5,232.05	138.03	-4,420.73	4,422.89	0.00	0.00	0.00
9,600.00	91.00	271.79	5,230.30	141.15	-4,520.67	4,522.87	0.00	0.00	0.00
9,700.00	91.00	271.79	5,228.56	144.27	-4,620.60	4,622.86	0.00	0.00	0.00
9,800.00	91.00	271.79	5,226.81	147.39	-4,720.54	4,722.84	0.00	0.00	0.00
TD at 9895.35 - Ouimet State Com #3H PBHL									
9,895.35	91.00	271.79	5,225.15	150.37	-4,815.83	4,818.18	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Quimet State Com #3H I	0.00	0.00	5,225.15	150.37	-4,815.83	678,950.380	586,232.370	32° 51' 58.328 N	104° 3' 8.956 W
- hit/miss target									
- Shape									
- Point									

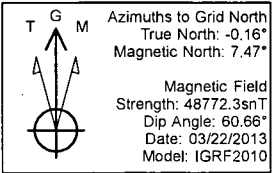
Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
4,779.21	4,779.21	0.00	0.00	KOP / Start Build 11.00°	
5,226.00	5,173.19	5.62	-180.07	PP @ 5226' MD	
5,606.48	5,300.00	16.54	-529.70	EOC / Start 4288.87' hold at 5606.48 MD	
9,895.35	5,225.15	150.37	-4,815.83	TD at 9895.35	



Project: Eddy County(NM27E)
 Site: Sec.2-T17S-R29E
 Well: Ouimet State Com #3H
 Wellbore: Wellbore #1
 Design: Design #4
 Lat: 32° 51' 56.710 N
 Long: 104° 2' 12.498 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	KOP / Start Build 11.00°	
4779.21	0.00	0.00	4779.21	0.00	0.00	0.00	0.00	0.00	EOC / Start 4288.87° hold at 5606.48 MD	
5606.48	91.00	271.79	5300.00	18.54	-529.70	11.00	271.79	529.96	TD at 9895.35	
9895.35	91.00	271.79	5225.15	150.37	-4815.83	0.00	0.00	4818.18		



WELL DETAILS: Ouimet State Com #3H						
+N/-S	+E/-W	Northing	Ground Level:	3663.00	Longitude	Slot
0.00	0.00	678800.010	Easting	591048.200	32° 51' 56.710 N	104° 2' 12.498 W

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 Point
Ouimet State Com #3H PBHL	5225.15	150.37	-4815.83	32° 51' 58.328 N	104° 3' 8.956 W	

PROJECT DETAILS: Eddy County(NM27E)
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1858
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level

