

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
814 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. 30-015-40417
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Quimet State Com
8. Well Number 2H
9. OGRID Number 229137
10. Pool name or Wildcat Grayburg Jackson; SR-Q-G-SA

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 A : 850 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.) 3658'	

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 BHL & SHL** ☒

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 submitted APD for this well at this location:

SHL: 850' FNL 330' FEL, Unit A

BHL: 984' FNL 330' FWL, Unit D

COG Operating LLC respectfully requests permission to change the SHL and BHL:

SHL: 1070' FNL 150' FEL, Lot 1

BHL: 980' FNL 330' FWL, Lot 4

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

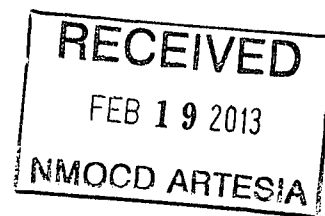
Reason for changing the BHL is to avoid a Non-Standard location.

COG Operating LLC respectfully requests permission to correct the dedicated acres from 160 to 159.77.

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 [Signature] TITLE Permitting Tech DATE 02/14/2013

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

For State Use Only

APPROVED BY: [Signature] TITLE Budget DATE 2/15/2013

District I
1625 N. Preach 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, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office
RECEIVED
FEB 19 2013
NMOCD AMENDED-REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-40417	² Pool Code 28509	³ Pool Name Grayburg Jackson; SR-Q-G-SA
⁴ Property Code 39292	⁵ Property Name OUIMET STATE COM	⁶ Well Number 2H
⁷ OGRID No. 229137	⁸ Operator Name COG OPERATING, LLC	⁹ Elevation 3658'

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
1	2	17-S	29-E		1070	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
4	2	17-S	29-E		980	NORTH	330	WEST	EDDY

¹² Dedicated Acres 159.77	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.

¹⁶ Project Area Producing Area N 88°55'53" W (GRID) 4816.49' (HORIZ.) LOT 4 39.85 AC. LOT 3 39.91 AC. LOT 2 39.97 AC. LOT 1 40.04 AC. B.H. 330' S.L. 150' CORNER DATA NAD 27 GRID - NM EAST A: FND 1/2" RBR 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 I: CALC 16TH N 679285.9 - E 588551.1 GEODETIC DATA NAD 27 GRID - NM EAST SURFACE LOCATION N 679530.2 - E 591047.4 LAT: 32.86776° N LONG: 104.03680° W BOTTOM LOCATION N 679620.0 - E 586233.0 Estimated Completed Interval: 989 FNL 608 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 heretofore entered by the division. Signature:  Date: 2-13-13 Printed Name: Kelly J. Holly E-mail 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. 2-6-13 Date of Survey Signature and Seal of Professional Surveyor:  19680 Certificate Number
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RECEIVED

FEB 19 2013

NMOCD ARTESIA

Plan Proposal

FOR

COG Operating, LLC
Quimet State Com #2H
Eddy Co., NM

Design #3

Presented By

Aaron Boger
Account Manager

Bret Wolford
Well Planner

SHL
1070' FNL & 150' FEL
Penetration Point
989' FNL & 608' FEL
PBHL
980' FNL & 330' FWL

ARTESIA



Project: Eddy County(NM27E)
 Site: Sec.2-T17S-R29E
 Well: Ouimet State Com #2H
 Wellbore: Wellbore #1
 Design: Design #3
 Lat: 32° 52' 3.935 N
 Long: 104° 2' 12.483 W
 GL: 3658.00
 KB: WELL @ 3672.00usft

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	
4779.21	0.00	0.00	4779.21	0.00	0.00	0.00	0.00	0.00	KOP / Start Build 11.00°
5606.48	91.00	280.00	5300.00	92.03	-521.91	11.00	280.00	523.54	EOC / Start DLS 2.00° TFO -89.91
6141.08	91.00	269.31	5290.64	135.33	-1053.89	2.00	-89.91	1056.23	Start 3761.36' hold at 6141.08 MD
9902.44	91.00	269.31	5225.00	89.80	-4814.40	0.00	0.00	4815.24	TD at 9902.44

WELL DETAILS: Ouimet State Com #2H

+N-S	+E-W	Northing	Easting	Ground Level:	Latitude	Longitude	Slot
0.00	0.00	679530.200	591047.400	3658.00	32° 52' 3.935 N	104° 2' 12.483 W	

WELLBORE TARGET DETAILS (LAT/LONG)

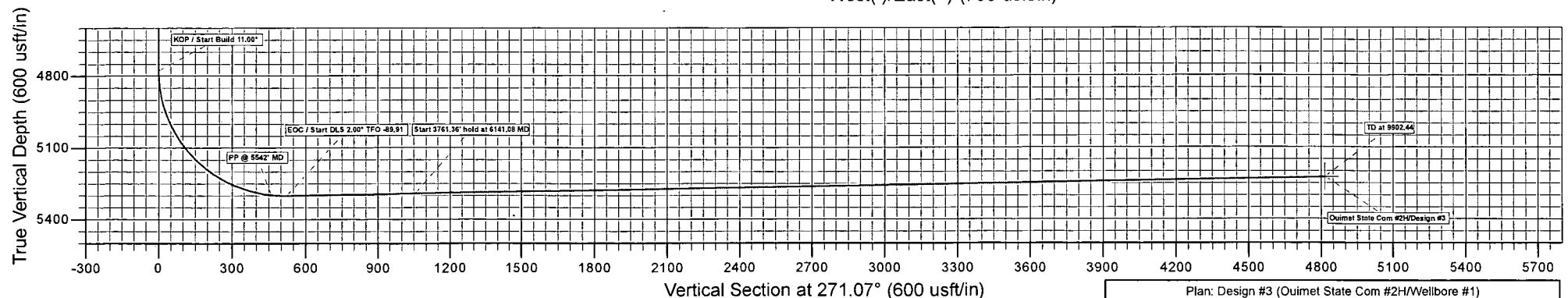
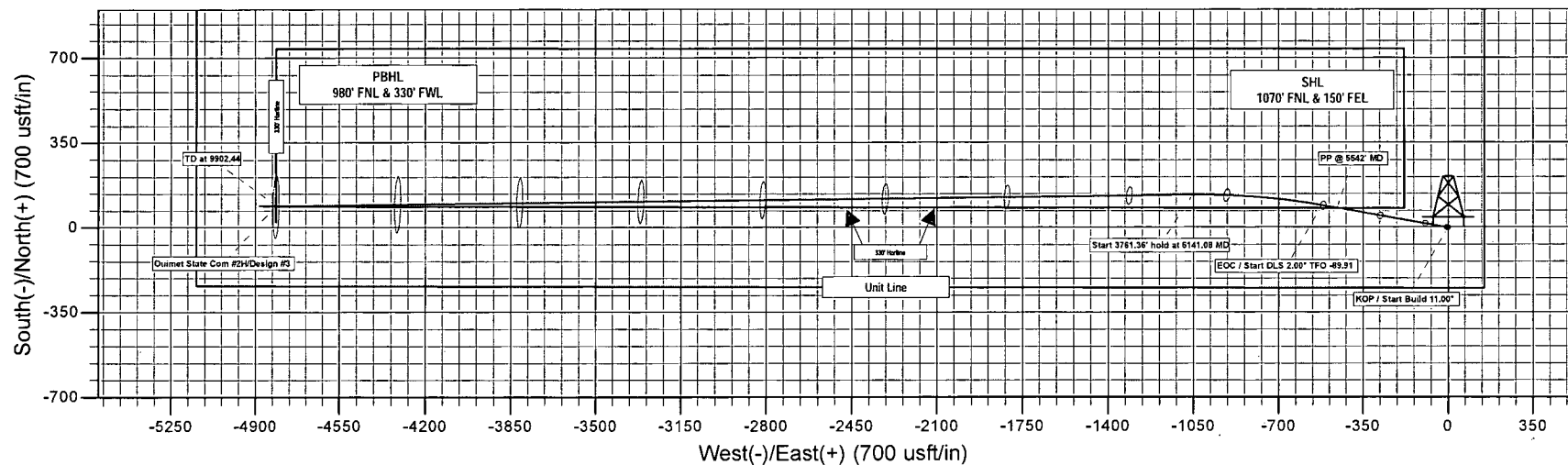
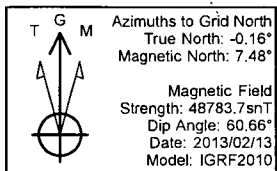
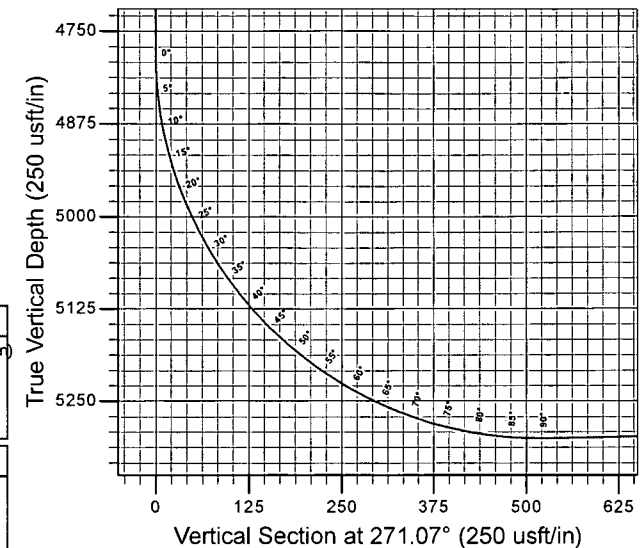
Name	TVD	+N-S	+E-W	Latitude	Longitude	Shape
Ouimet State Com #2H PBHL	5225.00	89.80	-4814.40	32° 52' 4.954 N	104° 3' 8.928 W	Point

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



Plan: Design #3 (Ouimet State Com #2H/Wellbore #1)

Created By: Bret Wolford Date: 15:20, February 13 2013



COG Operating, LLC

Eddy County(NM27E)

Sec.2-T17S-R29E

Ouimet State Com #2H

Wellbore #1

Plan: Design #3

Standard Planning Report

13 February, 2013

Archer

Database:	EDM:5000:1 Single User Db	Local Co-ordinate Reference:	Well: Ouimet State Com #2H
Company:	GOG Operating, LLC	TVD Reference:	WELL @ 3672.00usft
Project:	Eddy County (NM27E)	MD Reference:	WELL @ 3672.00usft
Site:	Sec.2-T17S-R29E	North Reference:	Grid
Well:	Ouimet State Com #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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
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 #2H		
Well Position	+N/-S	1,349.60 usft	Northing:
	+E/-W	178.60 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 52' 3.935 N
		Longitude:	104° 2' 12.483 W
		Ground Level:	3,658.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	02/13/13	(°)
			Dip Angle
			(°)
			Field Strength
			(nT)
			7.65
			60.66
			48,784

Design	Design #3		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	5,225.00	0.00	0.00
			Direction
			(°)
			271.07

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(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	
4,779.21	0.00	0.00	4,779.21	0.00	0.00	0.00	0.00	0.00	0.00	
5,606.48	91.00	280.00	5,300.00	92.03	-521.91	11.00	11.00	0.00	280.00	
6,141.08	91.00	269.31	5,290.64	135.33	-1,053.89	2.00	0.00	-2.00	-89.91	Ouimet State Com #2
9,902.44	91.00	269.31	5,225.00	89.80	-4,814.40	0.00	0.00	0.00	0.00	Ouimet State Com #2

Database:	EDM:5000.1 Single User Db	Local Co-ordinate Reference:	*Well Ouimet State Com #2H
Company:	COG Operating, LLC	TVD Reference:	WELL @ 3672.00usft
Project:	Eddy County(NM27E)	MD Reference:	WELL @ 3672.00usft
Site:	Sec 2-T17S-R29E	North Reference:	Grid
Well:	Ouimet State Com #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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
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
4,800.00	2.29	280.00	4,799.99	0.07	-0.41	0.41	11.00	11.00	0.00
4,850.00	7.79	280.00	4,849.78	0.83	-4.73	4.74	11.00	11.00	0.00
4,900.00	13.29	280.00	4,898.92	2.42	-13.73	13.77	11.00	11.00	0.00
4,950.00	18.79	280.00	4,946.96	4.82	-27.33	27.41	11.00	11.00	0.00

Database:	EDM:5000.1 Single User Db	Local Co-ordinate Reference:	Well Ouimet State Com #2H
Company:	COG Operating LLC	TVD Reference:	WELL @ 3672.00usft
Project:	Eddy County(NM27E)	MD Reference:	WELL @ 3672.00usft
Site:	Sec.2-T17S-R29E	North Reference:	Grid
Well:	Ouimet State Com #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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	280.00	4,993.45	8.00	-45.40	45.54	11.00	11.00	0.00
5,050.00	29.79	280.00	5,037.97	11.95	-67.77	67.98	11.00	11.00	0.00
5,100.00	35.29	280.00	5,080.10	16.62	-94.25	94.54	11.00	11.00	0.00
5,150.00	40.79	280.00	5,119.47	21.97	-124.57	124.96	11.00	11.00	0.00
5,200.00	46.29	280.00	5,155.70	27.94	-158.48	158.97	11.00	11.00	0.00
5,250.00	51.79	280.00	5,188.47	34.50	-195.65	196.26	11.00	11.00	0.00
5,300.00	57.29	280.00	5,217.46	41.57	-235.74	236.47	11.00	11.00	0.00
5,350.00	62.79	280.00	5,242.43	49.09	-278.38	279.25	11.00	11.00	0.00
5,400.00	68.29	280.00	5,263.12	56.99	-323.18	324.19	11.00	11.00	0.00
5,450.00	73.79	280.00	5,279.37	65.19	-369.73	370.89	11.00	11.00	0.00
5,500.00	79.29	280.00	5,291.00	73.63	-417.60	418.90	11.00	11.00	0.00
PP @ 5542' MD									
5,542.00	83.91	280.00	5,297.14	80.85	-458.51	459.94	11.00	11.00	0.00
5,550.00	84.79	280.00	5,297.93	82.23	-466.35	467.80	11.00	11.00	0.00
5,600.00	90.29	280.00	5,300.07	90.90	-515.53	517.13	11.00	11.00	0.00
EOC / Start DLS 2.00° TFO -89.91									
5,606.48	91.00	280.00	5,300.00	92.03	-521.91	523.53	11.00	11.00	0.00
5,700.00	91.00	278.13	5,298.37	106.76	-614.24	616.13	2.00	0.00	-2.00
5,800.00	91.00	276.13	5,296.62	119.17	-713.45	715.55	2.00	0.00	-2.00
5,900.00	91.00	274.13	5,294.86	128.10	-813.03	815.27	2.00	0.00	-2.00
6,000.00	91.00	272.13	5,293.11	133.56	-912.86	915.19	2.00	0.00	-2.00
6,100.00	91.00	270.13	5,291.36	135.53	-1,012.82	1,015.17	2.00	0.00	-2.00
Start 3761.36° hold at 6141.08 MD									
6,141.08	91.00	269.31	5,290.64	135.33	-1,053.89	1,056.23	2.00	0.00	-2.00
6,200.00	91.00	269.31	5,289.62	134.61	-1,112.80	1,115.11	0.00	0.00	0.00
6,300.00	91.00	269.31	5,287.87	133.40	-1,212.77	1,215.05	0.00	0.00	0.00
6,400.00	91.00	269.31	5,286.13	132.19	-1,312.75	1,314.99	0.00	0.00	0.00
6,500.00	91.00	269.31	5,284.38	130.98	-1,412.73	1,414.93	0.00	0.00	0.00
6,600.00	91.00	269.31	5,282.63	129.77	-1,512.71	1,514.86	0.00	0.00	0.00
6,700.00	91.00	269.31	5,280.89	128.56	-1,612.68	1,614.80	0.00	0.00	0.00
6,800.00	91.00	269.31	5,279.14	127.35	-1,712.66	1,714.74	0.00	0.00	0.00
6,900.00	91.00	269.31	5,277.40	126.14	-1,812.64	1,814.68	0.00	0.00	0.00
7,000.00	91.00	269.31	5,275.65	124.93	-1,912.62	1,914.61	0.00	0.00	0.00
7,100.00	91.00	269.31	5,273.91	123.72	-2,012.59	2,014.55	0.00	0.00	0.00
7,200.00	91.00	269.31	5,272.16	122.51	-2,112.57	2,114.49	0.00	0.00	0.00
7,300.00	91.00	269.31	5,270.42	121.30	-2,212.55	2,214.43	0.00	0.00	0.00
7,400.00	91.00	269.31	5,268.67	120.09	-2,312.53	2,314.36	0.00	0.00	0.00
7,500.00	91.00	269.31	5,266.93	118.88	-2,412.50	2,414.30	0.00	0.00	0.00
7,600.00	91.00	269.31	5,265.18	117.67	-2,512.48	2,514.24	0.00	0.00	0.00
7,700.00	91.00	269.31	5,263.44	116.46	-2,612.46	2,614.18	0.00	0.00	0.00
7,800.00	91.00	269.31	5,261.69	115.25	-2,712.44	2,714.11	0.00	0.00	0.00
7,900.00	91.00	269.31	5,259.95	114.04	-2,812.41	2,814.05	0.00	0.00	0.00
8,000.00	91.00	269.31	5,258.20	112.83	-2,912.39	2,913.99	0.00	0.00	0.00
8,100.00	91.00	269.31	5,256.46	111.62	-3,012.37	3,013.93	0.00	0.00	0.00
8,200.00	91.00	269.31	5,254.71	110.41	-3,112.35	3,113.86	0.00	0.00	0.00
8,300.00	91.00	269.31	5,252.97	109.20	-3,212.32	3,213.80	0.00	0.00	0.00
8,400.00	91.00	269.31	5,251.22	107.99	-3,312.30	3,313.74	0.00	0.00	0.00
8,500.00	91.00	269.31	5,249.48	106.77	-3,412.28	3,413.68	0.00	0.00	0.00
8,600.00	91.00	269.31	5,247.73	105.56	-3,512.26	3,513.61	0.00	0.00	0.00
8,700.00	91.00	269.31	5,245.98	104.35	-3,612.23	3,613.55	0.00	0.00	0.00
8,800.00	91.00	269.31	5,244.24	103.14	-3,712.21	3,713.49	0.00	0.00	0.00
8,900.00	91.00	269.31	5,242.49	101.93	-3,812.19	3,813.43	0.00	0.00	0.00
9,000.00	91.00	269.31	5,240.75	100.72	-3,912.17	3,913.36	0.00	0.00	0.00

Database:	EDM:5000.1 Single User Db	Local Co-ordinate Reference:	Well: Ouimet State Com #2H
Company:	COG Operating, LLC	TVD Reference:	WELL @ 3672.00usft
Project:	Eddy County (NM27E)	MD Reference:	WELL @ 3672.00usft
Site:	Sec. 2, T17S-R29E	North Reference:	Grid
Well:	Ouimet State Com #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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)	
9,100.00	91.00	269.31	5,239.00	99.51	-4,012.14	4,013.30	0.00	0.00	0.00	
9,200.00	91.00	269.31	5,237.26	98.30	-4,112.12	4,113.24	0.00	0.00	0.00	
9,300.00	91.00	269.31	5,235.51	97.09	-4,212.10	4,213.18	0.00	0.00	0.00	
9,400.00	91.00	269.31	5,233.77	95.88	-4,312.08	4,313.11	0.00	0.00	0.00	
9,500.00	91.00	269.31	5,232.02	94.67	-4,412.05	4,413.05	0.00	0.00	0.00	
9,600.00	91.00	269.31	5,230.28	93.46	-4,512.03	4,512.99	0.00	0.00	0.00	
9,700.00	91.00	269.31	5,228.53	92.25	-4,612.01	4,612.93	0.00	0.00	0.00	
9,800.00	91.00	269.31	5,226.79	91.04	-4,711.99	4,712.86	0.00	0.00	0.00	
TD at 9902.44 - Ouimet State Com #2H PBHL										
9,902.44	91.00	269.31	5,225.00	89.80	-4,814.40	4,815.24	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 #2H I	- plan hits target center - Point	0.00	0.00	5,225.00	89.80	-4,814.40	679,620.000	586,233.000	32° 52' 4.954 N	104° 3' 8.928 W

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
4,779.21	4,779.21	0.00	0.00	KOP / Start Build 11.00°	
5,542.00	5,297.14	80.85	-458.51	PP @ 5542' MD	
5,606.48	5,300.00	92.03	-521.91	EOC / Start DLS 2.00° TFO -89.91	
6,141.08	5,290.64	135.33	-1,053.89	Start 3761.36' hold at 6141.08 MD	
9,902.44	5,225.00	89.80	-4,814.40	TD at 9902.44	