

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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. NMNM7752
2. Name of Operator COG OPERATING LLC Contact: KELLY J HOLLY E-Mail: kholly@concho.com		6. If Indian, Allottee or Tribe Name
3a. Address ONE CONCHO CENTER 600 W ILLINOIS AVENUE MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432.685.4384	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 6 T17S R30E Lot 5 1476FNL 257FWL 32.866607 N Lat, 104.018291 W Lon		8. Well Name and No. PARLIAMENT 1 FEDERAL COM LBB 3H
		9. API Well No. 30-015-41817-00-X1
		10. Field and Pool, or Exploratory EMPIRE
		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 A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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 Well # and TVD of this well as follows:

FROM: Parliament 1 Federal Com LBB #3H
TO: Parliament 1 Federal Com #13H

FROM: 5318' TVD; 10413' MD; EOC: 5400' TVD
TO: 4393' TVD; 9487' MD; EOC: 4475' TVD

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL** NM OIL CONSERVATION
ARTESIA DISTRICT

A revised C-102, 1 mile map and directional plan are attached.

MAR 30 2015

Accepted for Record
3/31/15

RECEIVED

14. I hereby certify that the foregoing is true and correct. Electronic Submission #296124 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad Committed to AFMSS for processing by JENNIFER SANCHEZ on 03/26/2015 (15JAS0253SE)	
Name (Printed/Typed) KELLY J HOLLY	Title PERMITTING TECH
Signature (Electronic Submission)	Date 03/25/2015
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved By	Title
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	
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 ****

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
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 **NM OIL CONSERVATION** Form C-102
Energy, Minerals & Natural Resources Department **ARTESIA DISTRICT** Revised August 1, 2011
OIL CONSERVATION DIVISION **MAR 30 2015** Submit one copy to appropriate District Office
1220 South St. Francis Dr.
Santa Fe, NM 87505 **RECEIVED** ☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-41817	² Pool Code 96610	³ Pool Name Empire; Glorieta Yeso East
⁴ Property Code 40247	⁵ Property Name PARLIAMENT 1 FEDERAL COM	
⁷ OGRID No. 229137	⁸ Operator Name COG OPERATING, LLC	
		⁶ Well Number 13H
		⁹ Elevation 3690'

¹⁰ Surface Location

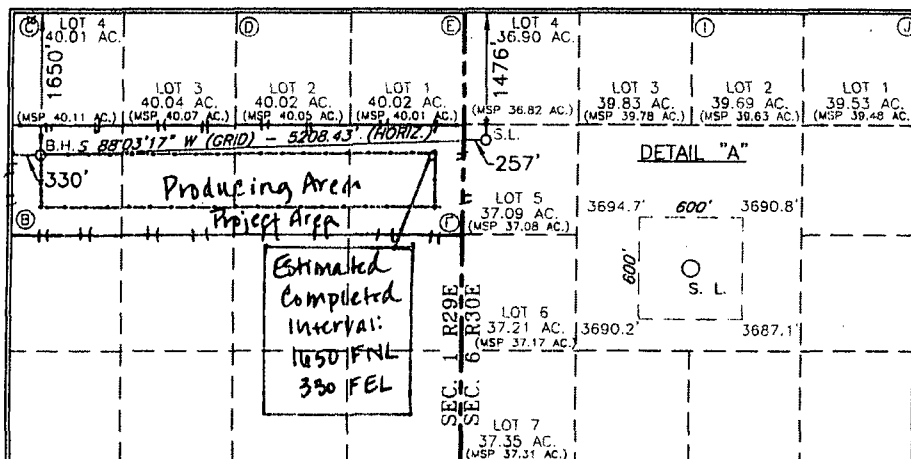
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
5	6	17-S	30-E		1476	NORTH	257	WEST	EDDY

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	1	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.



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 undivided 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.

2-25-15

Signature: *Kelly J. Holly* Date: **2-25-15**

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.

4/8/13

Date of Survey: **4/8/13**

Signature and Seal of Professional Surveyor: *Robert M. Howett*

19680

Certificate Number: **19680**

REVISED: 2/4/15

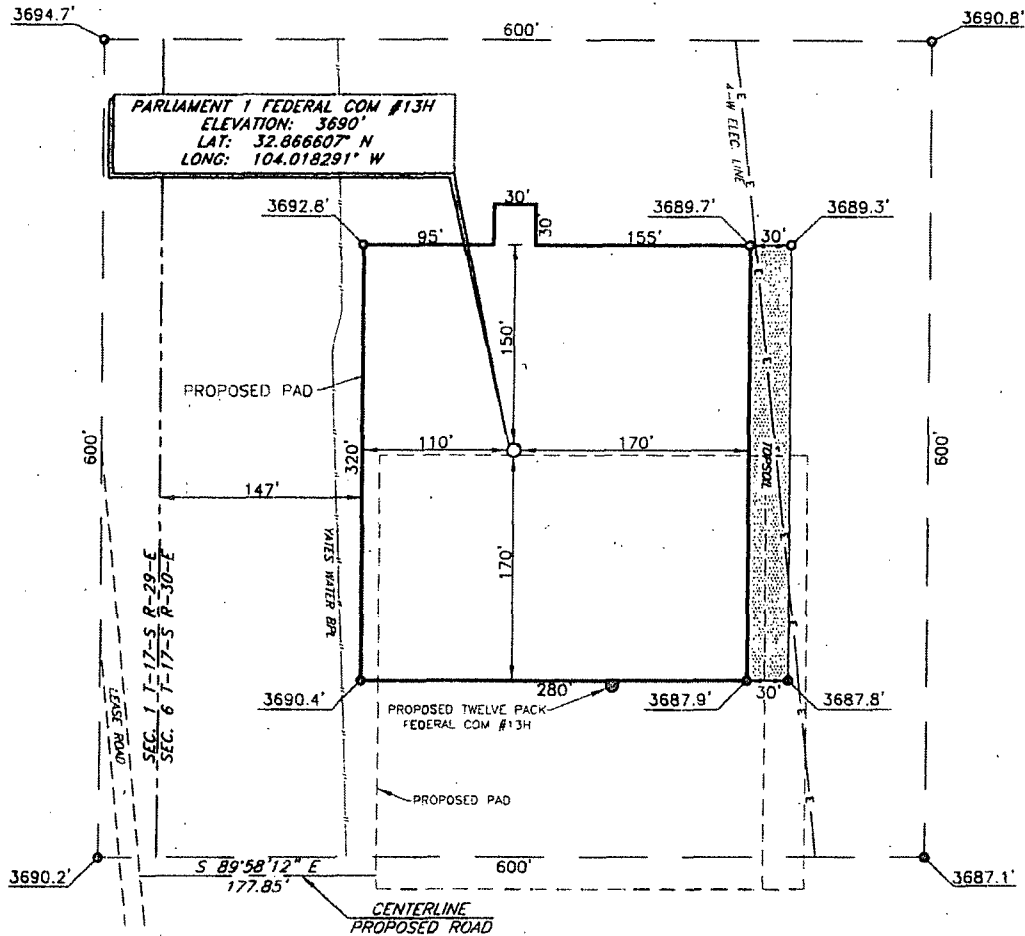
CORNER DATA
NAD 27 GRID - NM EAST
A: FND USGLO BC 1914
N 675322.5 - E 591200.4
B: FND USGLO BC 1914
N 677961.6 - E 591198.9
C: FND USGLO BC 1916
N 680599.9 - E 591196.5
D: FND USGLO BC 1914
N 680602.4 - E 593835.9
E: FND USGLO BC 1914
N 680602.3 - E 596475.6
F: FND USGLO BC 1914
N 677961.9 - E 596474.4
G: FND USGLO BC 1914
N 675324.2 - E 596474.6
H: FND USGLO BC 1914
N 675326.5 - E 593844.9

GEODETIC DATA
NAD 27 GRID - NM EAST
SURFACE LOCATION
N 679127.4
E 596732.0
LAT: 32.866607° N
LONG: 104.018291° W
BOTTOM LOCATION
N 678950.7
E 591527.9

CORNER DATA
NAD 27 GRID - NM EAST
I: FND BRASS CAP 1916
N 680609.7 - E 599011.1
J: FND BRASS CAP 1916
N 680616.9 - E 601650.7
K: FND GLO BC
N 675356.3 - E 601669.2
L: FND GLO BC
N 675340.1 - E 599029.3

COG OPERATING, LLC

Parliament 1 Federal Com #13H
(1476' FNL & 257' FWL)
Section 6, T-17-S, R-30-E,
N. M. P. M., Eddy Co., New Mexico



DIRECTIONS TO LOCATION

From the intersection of CR-215 (Kewanee) and CR-257 (Mallett).
Go East on CR-257 approx. 1.0 mile.
Turn right on a lease road and go South approx. 0.4 mile.
The location is approx. 307 feet East of the lease road.

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2	WELL NAME	2/4/15
1	WELL NAME	5/2/13
NO.	REVISION	DATE
JOB NO.:	LS130055	
DWG. NO.:	130055PAD	

PROSPERITY CONSULTANTS, LLC



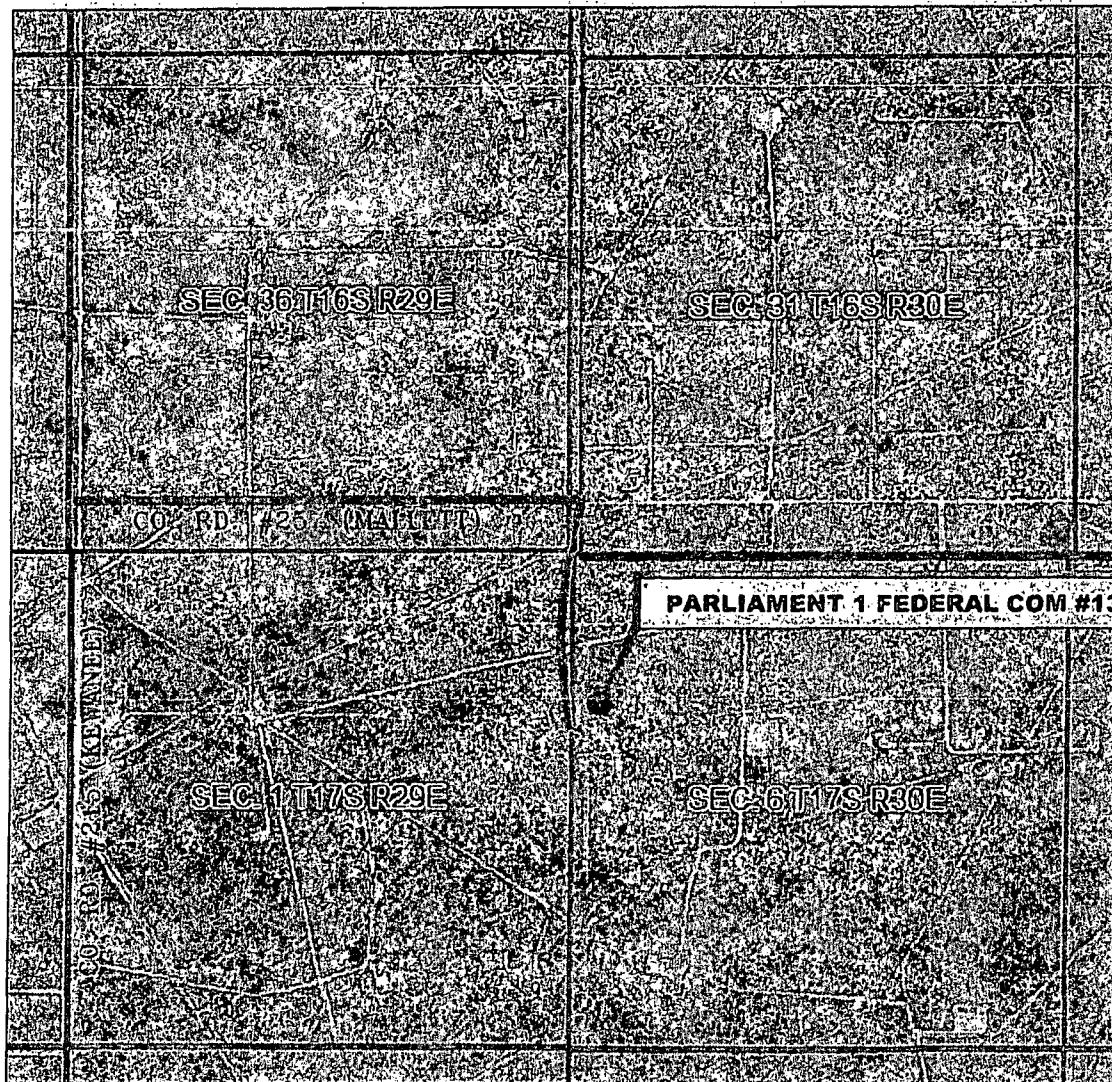
2251 Double Creek Drive, Suite 602, Round Rock, Texas 78664

© (512) 992-2087 F (512) 251-2518

SCALE: 1" = 100'
DATE: 4/8/13
SURVEYED BY: GB/BK
DRAWN BY: AF
APPROVED BY: LWB
SHEET : 1 OF 1

VICINITY MAP

NOT TO SCALE



SECTION 6, TWP. 17 SOUTH, RGE. 30 EAST,
N. M. P. M., EDDY COUNTY, NEW MEXICO

OPERATOR: COG Operating, LLC
LEASE: Parliament 1 Federal Com
WELL NO.: 13H

LOCATION: 1476' FNL & 257' FWL
ELEVATION: 3690'

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2	WELL NAME	2/4/15
1	WELL NAME	5/2/13
NO.	REVISION	DATE
JOB NO.: LS130055		
DWG. NO.: 130055VM		

PROSPERITY CONSULTANTS, LLC

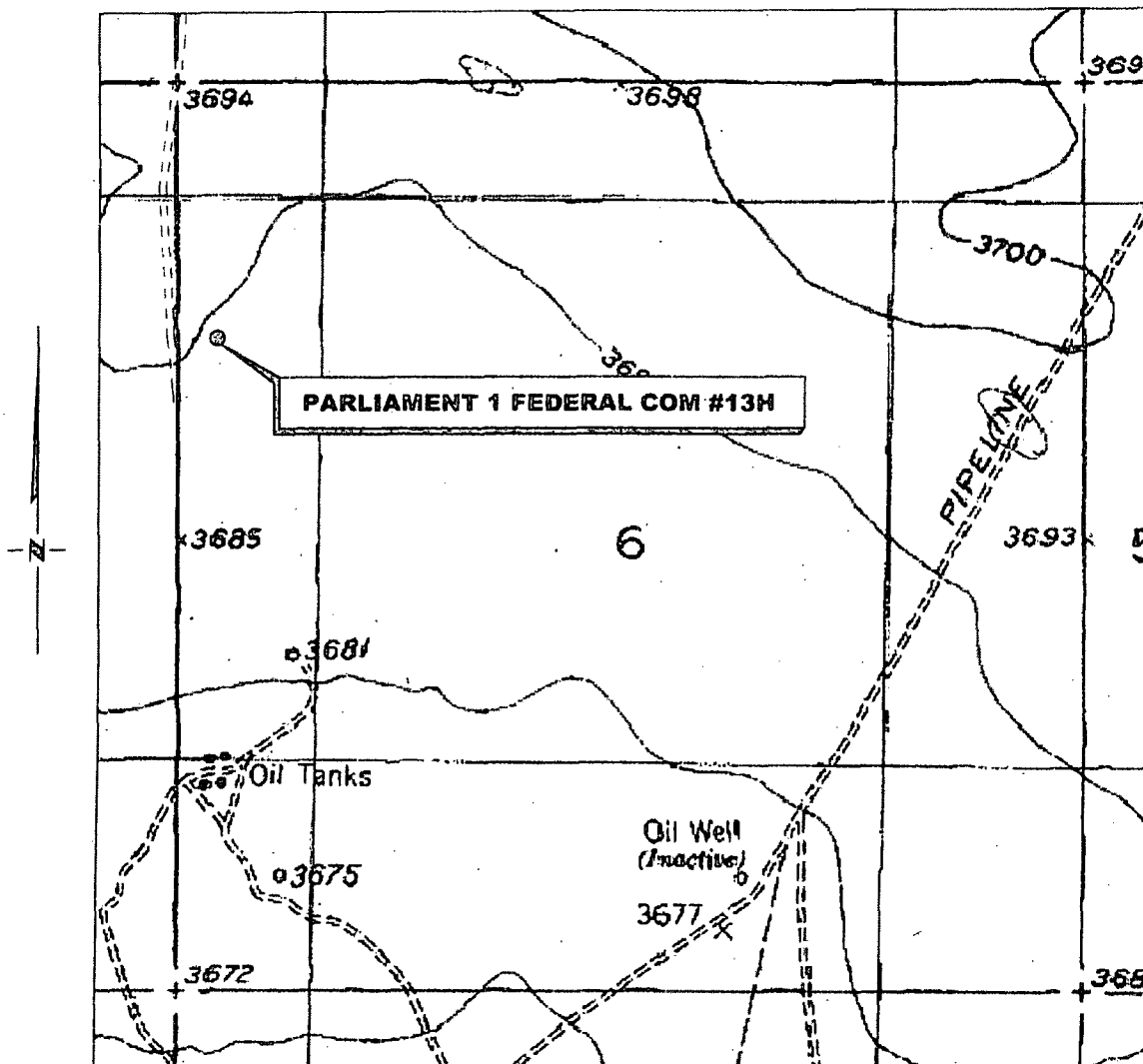


2251 Double Creek Drive, Suite 602, Round Rock, Texas 78664

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

SCALE: 1" = 1000'
DATE: 4/8/13
SURVEYED BY: GB/BK
DRAWN BY: AF
APPROVED BY: LWB
SHEET : 1 OF 1

LOCATION VERIFICATION MAP



SECTION 6, TWP. 17 SOUTH, RGE. 30 EAST,
N. M. P. M., EDDY COUNTY, NEW MEXICO

OPERATOR: COG Operating, LLC
LEASE: Parliament 1 Federal Com
WELL NO.: 13H
ELEVATION: 3690'

LOCATION: 1476' FNL & 257' FWL
CONTOUR INTERVAL: 10'
USGS TOPO. SOURCE MAP:
Red Lake SE, NM (1955)

Copyright 2012 - All Rights Reserved

2	WELL NAME	2/4/15
1	WELL NAME	5/2/13
NO.	REVISION	DATE
JOB NO.: LS130055		
DWG. NO.: 130055LVM		

PROSPERITY CONSULTANTS, LLC



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

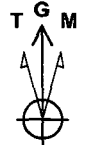
o (512) 992-2087 f (512) 251-2518

SCALE: 1" = 1000'
DATE: 4/8/13
SURVEYED BY: GB/BK
DRAWN BY: AF
APPROVED BY: LWB
SHEET : 1 OF 1

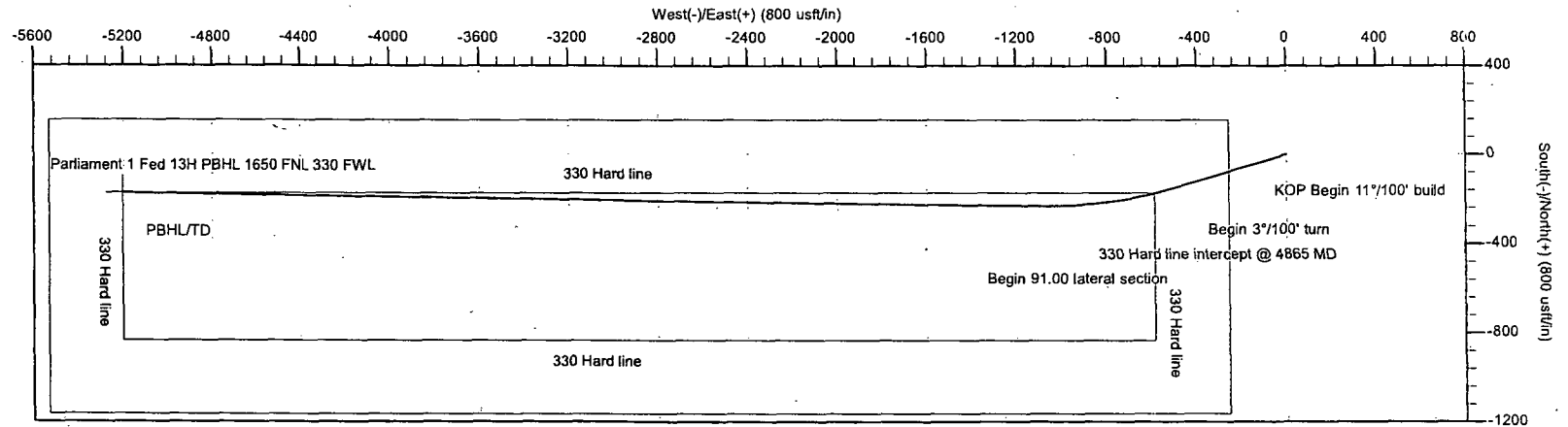
COG Operating LLC



Well: Parliament 1 Federal Com Well No. 13H
 Site: Parliament 1 Federal Com
 Project: Eddy County, New Mexico
 Design: rev0
 Rig: Uniter #43



Azimuths to Grid North
 True North: -0.17°
 Magnetic North: 7.22°
 Magnetic Field
 Strength: 48584.4snT
 Dip Angle: 60.61°
 Date: 2/14/2015
 Model: IGRF2010



PRODIRECTIONAL

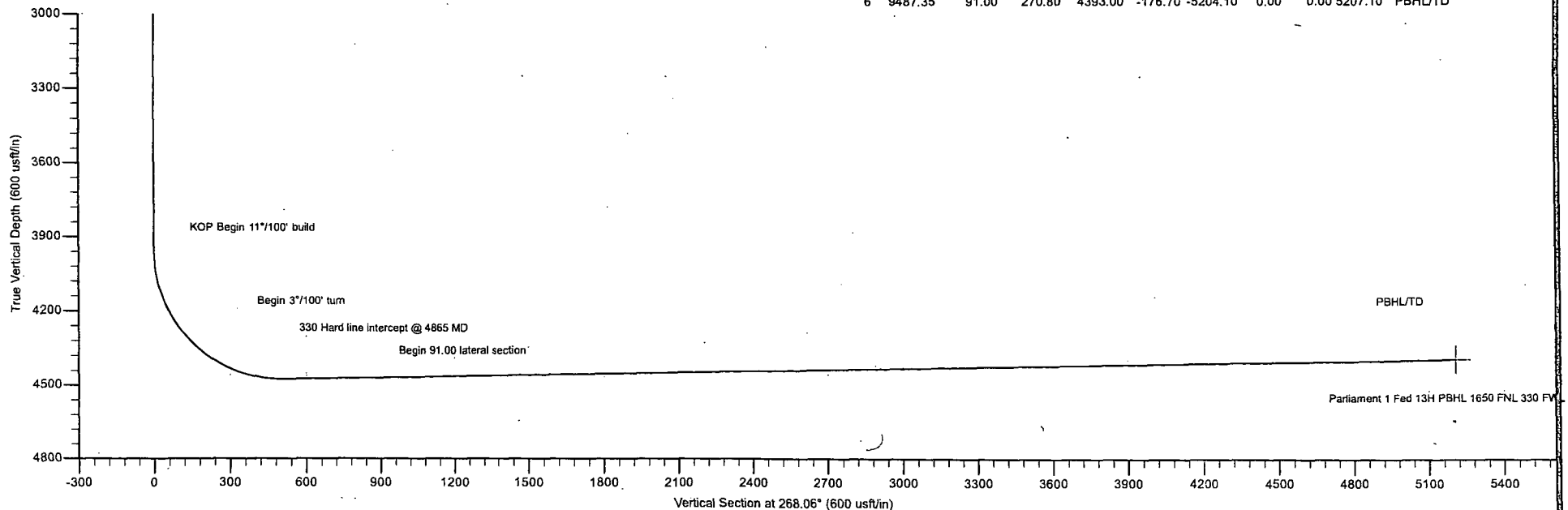
Surface Location: RKB=3690+12 @ 3702.00usft (Uniter #43)
 US State Plane 1927 (Exact solution)
 New Mexico East 3001

Northing	Easting	Latitude	Longitude
679127.40	596732.00	32.86660730	-104.01829094

Total Correction (M => G) To convert a Magnetic Direction to a Grid Direction, Add 7.22°

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	3954.21	0.00	0.00	3954.21	0.00	0.00	0.00	0.00	0.00	KOP Begin 11°/100' build
3	3999.66	5.00	253.20	3999.61	-0.57	-1.90	11.00	253.20	1.92	
4	4781.48	91.00	253.20	4475.00	-153.18	-507.34	11.00	0.00	512.25	Begin 3°/100' turn
5	5368.19	91.00	270.80	4464.69	-234.48	-1085.97	3.00	89.85	1093.30	Begin 91.00 lateral section
6	9487.35	91.00	270.80	4393.00	-176.70	-5204.10	0.00	0.00	5207.10	PBHL/TD





COG Operating LLC

Eddy County, New Mexico

Parliament 1 Federal Com

Parliament 1 Federal Com Well No. 13H

Original Hole

SHL: 1476 FNL 257 FWL Sect 6-T17S-R30E Lot 5

POE: 1650 FNL 330 FEL Sect 1-T17S-R29E Lot 8

BHL: 1650 FNL 330 FWL Sect 1-T17S-R29E Lot 5

Plan: rev0

Standard_report

15 February, 2015

NM OIL CONSERVATION

ARTESIA DISTRICT

MAR 30 2015

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Standard_report

Company:	COG Operating LLC	Local Co-ordinate Reference:	Well Parliament 1: Federal Com Well No. 13H
Project:	Eddy County, New Mexico	TVD Reference:	RKB=3690+12 @ 3702.00usft (Uniter #43)
Site:	Parliament 1: Federal Com	MD Reference:	RKB=3690+12 @ 3702.00usft (Uniter #43)
Well:	Parliament 1: Federal Com Well No. 13H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	rev0	Database:	Dbase: Nov0914

Project: Eddy County, New Mexico			
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:		Parliament 1: Federal Com									
Site Position:		Northing:		679,127.40 usft		Latitude:		32.86660730			
From:		Map		Easting:		596,732.00 usft		Longitude:		-104.01829094	
Position Uncertainty:		0.00 usft		Slot Radius:		13-3/16 "		Grid Convergence:		0.17 °	

Well: Parliament 1: Federal Com Well No. 13H; Surf Loc: 1476; FNL 257 FWL Sect 6-T17S-R30E Unit 5						
Well Position	+N/-S	0.00 usft	Northing:	679,127.40 usft	Latitude:	32.86660730
	+E/-W	0.00 usft	Easting:	596,732.00 usft	Longitude:	-104.01829094
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,690.00 usft

Wellbore		Original Hole			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/14/2015	7.39	60.61	48,584

Design: rev0				
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	268.06

Survey Tool Program		Date: 2/15/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	9,487.35	rev0 (Original Hole)	MWD	MWD - Standard



Standard_report

Company:	COG Operating LLC	Local Co-ordinate Reference:	Well: Parliament 1: Federal Com Well No. 13H
Project:	Eddy County, New Mexico	TVD Reference:	RKB=3690+12 @ 3702.00usft (Unit: #43)
Site:	Parliament 1: Federal Com	MD Reference:	RKB=3690+12 @ 3702.00usft (Unit: #43)
Well:	Parliament 1: Federal Com Well No. 13H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	rev0	Database:	Dbase: Nov0914

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V Sec (usft)	Northing (usft)	Easting (usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00		



Standard_report

Company:	COG Operating, LLC	Local Co-ordinate Reference:	Well: Parliament 1 Federal Com Well No. 13H
Project:	Eddy County, New Mexico	TVD Reference:	RKB=3690+12 @ 3702.00usft (Unit #43)
Site:	Parliament 1 Federal Com	MD Reference:	RKB=3690+12 @ 3702.00usft (Unit #43)
Well:	Parliament 1 Federal Com Well No. 13H	North Reference:	Grid:
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	rev0	Database:	Dbase: Nov0914

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V Sec (usft)	Northing (usft)	Easting (usft)	
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00	
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00	
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00	
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00	
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00	
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00	
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00	
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00	
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00	
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00	
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00	
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	679,127.40	596,732.00	
3,954.21	0.00	0.00	3,954.21	0.00	0.00	0.00	0.00	679,127.40	596,732.00	
KOP Begin 11°/100' build										
3,999.66	5.00	253.20	3,999.61	-0.57	-1.90	11.00	1.92	679,126.83	596,730.10	
4,000.00	5.04	253.20	3,999.94	-0.58	-1.93	11.00	1.94	679,126.82	596,730.07	
4,100.00	16.04	253.20	4,098.10	-5.86	-19.41	11.00	19.59	679,121.54	596,712.59	
4,200.00	27.04	253.20	4,190.98	-16.45	-54.49	11.00	55.02	679,110.95	596,677.51	
4,300.00	38.04	253.20	4,275.15	-31.97	-105.90	11.00	106.93	679,095.43	596,626.10	
4,400.00	49.04	253.20	4,347.54	-51.85	-171.75	11.00	173.41	679,075.55	596,560.25	
4,500.00	60.04	253.20	4,405.46	-75.36	-249.60	11.00	252.01	679,052.04	596,482.40	
4,600.00	71.04	253.20	4,446.81	-101.63	-336.60	11.00	339.86	679,025.77	596,395.40	
4,700.00	82.04	253.20	4,470.06	-129.69	-429.56	11.00	433.71	678,997.71	596,302.44	
4,781.48	91.00	253.20	4,475.00	-153.17	-507.34	11.00	512.24	678,974.23	596,224.66	
Begin 3°/100' turn										
4,800.00	91.00	253.76	4,474.68	-158.44	-525.09	3.00	530.17	678,968.96	596,206.91	



Standard_report

Company:	COG Operating LLC	Local Co-ordinate Reference:	Well Parliament 1:Federal Com Well No. 13H
Project:	Eddy County, New Mexico	TVD Reference:	RKB=3690+12 @ 3702.00usft (Unitr #43)
Site:	Parliament 1:Federal Com	MD Reference:	RKB=3690+12 @ 3702.00usft (Unitr #43)
Well:	Parliament 1:Federal Com Well No. 13H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	rev0	Database:	Dbase Nov0914

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V- Sec (usft)	Northing (usft)	Easting (usft)	
4,865.00	91.01	255.71	4,473.54	-175.56	-587.78	3.00	593.40	678,951.84	596,144.22	
330 Hard line intercept @ 4865 MD										
4,900.00	91.01	256.76	4,472.92	-183.88	-621.77	3.00	627.65	678,943.52	596,110.23	
5,000.00	91.01	259.76	4,471.16	-204.23	-719.65	3.00	726.17	678,923.17	596,012.35	
5,100.00	91.01	262.76	4,469.40	-219.43	-818.47	3.00	825.44	678,907.97	595,913.53	
5,200.00	91.01	265.76	4,467.64	-229.43	-917.94	3.00	925.19	678,897.97	595,814.06	
5,300.00	91.00	268.76	4,465.88	-234.22	-1,017.80	3.00	1,025.16	678,893.18	595,714.20	
5,368.19	91.00	270.80	4,464.69	-234.48	-1,085.97	3.00	1,093.30	678,892.92	595,646.03	
Begin 91:00 lateral section										
5,400.00	91.00	270.80	4,464.14	-234.03	-1,117.77	0.00	1,125.07	678,893.37	595,614.23	
5,500.00	91.00	270.80	4,462.40	-232.63	-1,217.75	0.00	1,224.94	678,894.77	595,514.25	
5,600.00	91.00	270.80	4,460.66	-231.22	-1,317.72	0.00	1,324.81	678,896.18	595,414.28	
5,700.00	91.00	270.80	4,458.92	-229.82	-1,417.70	0.00	1,424.68	678,897.58	595,314.30	
5,800.00	91.00	270.80	4,457.18	-228.42	-1,517.67	0.00	1,524.55	678,898.98	595,214.33	
5,900.00	91.00	270.80	4,455.44	-227.02	-1,617.65	0.00	1,624.42	678,900.38	595,114.35	
6,000.00	91.00	270.80	4,453.70	-225.61	-1,717.62	0.00	1,724.29	678,901.79	595,014.38	
6,100.00	91.00	270.80	4,451.96	-224.21	-1,817.60	0.00	1,824.16	678,903.19	594,914.40	
6,200.00	91.00	270.80	4,450.22	-222.81	-1,917.57	0.00	1,924.03	678,904.59	594,814.43	
6,300.00	91.00	270.80	4,448.48	-221.41	-2,017.55	0.00	2,023.90	678,905.99	594,714.45	
6,400.00	91.00	270.80	4,446.74	-220.00	-2,117.52	0.00	2,123.77	678,907.40	594,614.48	
6,500.00	91.00	270.80	4,445.00	-218.60	-2,217.50	0.00	2,223.64	678,908.80	594,514.50	
6,600.00	91.00	270.80	4,443.25	-217.20	-2,317.47	0.00	2,323.51	678,910.20	594,414.53	
6,700.00	91.00	270.80	4,441.51	-215.80	-2,417.45	0.00	2,423.38	678,911.60	594,314.55	
6,800.00	91.00	270.80	4,439.77	-214.39	-2,517.42	0.00	2,523.25	678,913.01	594,214.58	
6,900.00	91.00	270.80	4,438.03	-212.99	-2,617.40	0.00	2,623.12	678,914.41	594,114.60	
7,000.00	91.00	270.80	4,436.29	-211.59	-2,717.37	0.00	2,722.99	678,915.81	594,014.63	
7,100.00	91.00	270.80	4,434.55	-210.19	-2,817.35	0.00	2,822.86	678,917.21	593,914.65	



Standard_report

Company:	COG Operating, LLC	Local Co-ordinate Reference:	Well Parliament 1 Federal Com Well No. 13H
Project:	Eddy County, New Mexico	TVD Reference:	RKB=3690+12' @ 3702.00usft (Uniter #43)
Site:	Parliament 1 Federal Com	MD Reference:	RKB=3690+12' @ 3702.00usft (Uniter #43)
Well:	Parliament 1 Federal Com Well No. 13H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	rev0	Database:	Dbase Nov0914

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (%/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	
7,200.00	91.00	270.80	4,432.81	-208.78	-2,917.32	0.00	2,922.73	678,918.62	593,814.68	
7,300.00	91.00	270.80	4,431.07	-207.38	-3,017.30	0.00	3,022.60	678,920.02	593,714.70	
7,400.00	91.00	270.80	4,429.33	-205.98	-3,117.27	0.00	3,122.47	678,921.42	593,614.73	
7,500.00	91.00	270.80	4,427.59	-204.58	-3,217.25	0.00	3,222.34	678,922.82	593,514.75	
7,600.00	91.00	270.80	4,425.85	-203.17	-3,317.22	0.00	3,322.21	678,924.23	593,414.78	
7,700.00	91.00	270.80	4,424.11	-201.77	-3,417.20	0.00	3,422.08	678,925.63	593,314.80	
7,800.00	91.00	270.80	4,422.37	-200.37	-3,517.17	0.00	3,521.95	678,927.03	593,214.83	
7,900.00	91.00	270.80	4,420.63	-198.96	-3,617.15	0.00	3,621.82	678,928.44	593,114.85	
8,000.00	91.00	270.80	4,418.89	-197.56	-3,717.12	0.00	3,721.69	678,929.84	593,014.88	
8,100.00	91.00	270.80	4,417.15	-196.16	-3,817.10	0.00	3,821.56	678,931.24	592,914.90	
8,200.00	91.00	270.80	4,415.41	-194.76	-3,917.07	0.00	3,921.43	678,932.64	592,814.93	
8,300.00	91.00	270.80	4,413.67	-193.35	-4,017.05	0.00	4,021.30	678,934.05	592,714.95	
8,400.00	91.00	270.80	4,411.93	-191.95	-4,117.02	0.00	4,121.17	678,935.45	592,614.98	
8,500.00	91.00	270.80	4,410.18	-190.55	-4,217.00	0.00	4,221.04	678,936.85	592,515.00	
8,600.00	91.00	270.80	4,408.44	-189.15	-4,316.97	0.00	4,320.90	678,938.25	592,415.03	
8,700.00	91.00	270.80	4,406.70	-187.74	-4,416.95	0.00	4,420.77	678,939.66	592,315.05	
8,800.00	91.00	270.80	4,404.96	-186.34	-4,516.92	0.00	4,520.64	678,941.06	592,215.08	
8,900.00	91.00	270.80	4,403.22	-184.94	-4,616.90	0.00	4,620.51	678,942.46	592,115.10	
9,000.00	91.00	270.80	4,401.48	-183.54	-4,716.87	0.00	4,720.38	678,943.86	592,015.13	
9,100.00	91.00	270.80	4,399.74	-182.13	-4,816.85	0.00	4,820.25	678,945.27	591,915.15	
9,200.00	91.00	270.80	4,398.00	-180.73	-4,916.82	0.00	4,920.12	678,946.67	591,815.18	
9,300.00	91.00	270.80	4,396.26	-179.33	-5,016.80	0.00	5,019.99	678,948.07	591,715.20	
9,400.00	91.00	270.80	4,394.52	-177.93	-5,116.77	0.00	5,119.86	678,949.47	591,615.23	
9,487.35	91.00	270.80	4,393.00	-176.70	-5,204.10	0.00	5,207.10	678,950.70	591,527.90	

PBHL/TD



Standard_report

Company:	COG Operating LLC	Local Co-ordinate Reference:	Well Parliament:1 Federal Com Well No. 13H
Project:	Eddy County New Mexico	TVD Reference:	RKB=3690+12 @ 3702'00usft (Uniter #43)
Site:	Parliament 1 Federal Com	MD Reference:	RKB=3690+12 @ 3702'00usft (Uniter #43)
Well:	Parliament 1 Federal Com Well No. 13H	North Reference:	Grid
Wellbore:	Original Hole	Survey/Calculation Method:	Minimum Curvature
Design:	rev0	Database:	Dbase Nov0914

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		N/S (usft)	E/W (usft)	
3,954.21	3,954.21	0.00	0.00	KOP Begin 11°/100' build
4,781.48	4,475.00	-153.17	-507.34	Begin 3°/100' turn
4,865.00	4,473.54	-175.56	-587.78	330 Hard line intercept @ 4865 MD
5,368.19	4,464.69	-234.48	-1,085.97	Begin 91.00 lateral section
9,487.35	4,393.00	-176.70	-5,204.10	PBHL/TD

MAR 30 2015

PECOS DISTRICT
CONDITIONS OF APPROVAL

RECEIVED

OPERATOR'S NAME:	COG Operating, LCC
LEASE NO.:	NMNM-7752
WELL NAME & NO.:	Parliament 1 Federal Com 13H
SURFACE HOLE FOOTAGE:	1476' FNL & 0257' FWL
BOTTOM HOLE FOOTAGE:	1650' FNL & 0330' FWL Sec. 01, T. 17 S., R 29 E.
LOCATION:	Section 06, T. 17 S., R 30 E., NMPM
COUNTY:	Eddy County, New Mexico
API:	30-015-41817

The original COAs still stand with the following drilling modifications:

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- Spudding well (minimum of 24 hours)
- Setting and/or Cementing of all casing strings (minimum of 4 hours)
- BOPE tests (minimum of 4 hours)

☒ **Eddy County**

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

1. A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated 500 feet prior to drilling into the **Grayburg** formation. **As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.**
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least **8 hours**. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Medium Cave/Karst

Possibility of water flows in the Artesia Group and Salado.

Possibility of lost circulation in the Artesia Group, Rustler, San Andres, and Grayburg.

1. The 13-3/8 inch surface casing shall be set at approximately **410 feet** ((in a competent bed below the Magenta Dolomite, which is a Member of the Rustler, and if salt is encountered, set casing at least **25 feet above the salt**) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

Option #1(Single Stage):

- ☒ Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**

Option #2:

Operator has proposed DV tool at depth of 312', but with the change in casing depth this is no longer acceptable. DV tool shall be at least 50' below previous casing shoe. Operator shall adjust cement proportionately according to the depth change. Operator is to submit sundry if DV tool depth varies by more than 100' from approved depth.

a. First stage to DV tool:

- ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.

b. Second stage above DV tool:

- ☒ Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

3. The minimum required fill of cement behind the **7 X 5-1/2** inch production casing is:

Option #1 (Single Stage):

- ☒ Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Excess calculates to 23% - Additional cement may be required.**

Option #2:

Operator has proposed two DV tools at depths of 4879' and 1200', but will adjust cement proportionately if moved. DV tool at 1200' shall be set a minimum of 50' below previous shoe and DV tool at 4879' a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depths cannot be set in this range.

a. First stage to DV tool:

- ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage. **Excess calculates to 8% - Additional cement may be required.**

b. Second stage above DV tool:

- ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with third stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.

c. Third stage above DV tool:

- ☒ Cement to surface. If cement does not circulate, contact the appropriate BLM office.

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. **In the case where the only BOP installed is an annular preventer, it shall be tested to a minimum of 2000 psi (which may require upgrading to 3M or 5M annular).**
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M) psi.**

4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
 - f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JAM 032715