ATS-11-29

OCD-ARTESIA

Form 3160-3
(April 2004)

FORM APPROVED
OMB No 1004-0137
Expires March 31, 2007

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5 Lease Serial No.
NMLC-028784B

6 If Indian, Allotee or Tribe Name
N/A

1a. Type of work ☑ DRILL ☐ REENTER

7 If Unit or CA Agreement, Name and No
NMNM - 88525X

1b. Type of Well ☑ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone

8 Lease Name and Well No.
BURCH KEELY UNIT #696

2 Name of Operator
COG Operating LLC

9 API Well No.
30-015- 39127

3a Address
550 W. Texas Ave., Suite 1300
Midland, TX 79701

3b Phone No. *(include area code)*
432-685-4384

10 Field and Pool, or Exploratory
Grayburg Jackson; SR-Q-Grbg-SA

4 Location of Well *(Report location clearly and in accordance with any State requirements *)*
At surface 1133' FNL & 1476' FWL, Unit C
At proposed prod. zone 1320' FNL & 1320' FWL, Unit C

11 Sec, T R M or Blk and Survey or Area
Sec 25 T17S R29E

14 Distance in miles and direction from nearest town or post office*
2 miles from Loco Hills, NM

12 County or Parish
EDDY

13. State
NM

15 Distance from proposed* location to nearest property or lease line, ft (Also to nearest drlg unit line, if any)	16 No. of acres in lease	17 Spacing Unit dedicated to this well
1133'	1440	40
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft	**19 Proposed Depth**	**20 BLM/BIA Bond No. on file**
330'	TVD: 4800' MD: 4811'	NMB000215 ~~740~~
21 Elevations (Show whether DF, KDB, RT, GL, etc.)	**22 Approximate date work will start***	**23. Estimated duration**
3598' GL	03/31/2011	15 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No 1, shall be attached to this form

1 Well plat certified by a registered surveyor
2 A Drilling Plan
3 A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office)
4 Bond to cover the operations unless covered by an existing bond on file (see Item 20 above)
5 Operator certification
6 Such other site specific information and/or plans as may be required by the authorized officer

25. Signature	Name *(Printed/Typed)*	Date
	Kelly J. Holly	01/17/2011

Title: Permitting Tech

Approved by *(Signature)* /s/ Don Peterson	Name *(Printed/Typed)*	Date APR 29 2011
Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE	

Application approval 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.
Conditions of approval, if any, are attached

APPROVAL FOR TWO YEARS

Title 18 USC Section 1001 and Title 43 USC. 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.

(Instructions on page 2)

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

RECEIVED
MAY 03 2011
NMOCD ARTESIA

Roswell Controlled Water Basin

Approval Subject to General Requirements & Special Stipulations Attached

MASTER DRILLING PROGRAM

1. Geologic Name of Surface Formation

Quaternary

2. Estimated Tops of Important Geologic Markers:

Quaternary	Surface
Rustler	220'
Salt	360'
Base of Salt	780'
Yates	950'
Seven Rivers	1235'
Queen	1845'
Grayburg	2220'
San Andres	2540'
Glorieta	4000'
Paddock	4075'
Blinebry	4620'
Tubb	5520'

3. Estimated Depths of Anticipated Fresh Water, Oil and Gas

Water Sand	150'	Fresh Water
Grayburg	2150'	Oil/Gas
San Andres	2450'	Oil/Gas
Glorieta	3900'	Oil/Gas
Paddock	4075'	Oil/Gas
Blinebry	4620'	Oil/Gas
Tubb	5520'	Oil/Gas

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Setting 13 3/8" casing to 300' and circulating cement back to the surface will protect the surface fresh water sand. The Salt Section will be protected by setting 8 5/8" casing to ~~850'~~ 950' See COA and circulating cement, in a single or multi-stage job and/or with an ECP, back to the surface. Any shallower zones above TD, which contain commercial quantities of oil and/or gas, will have cement circulated across them. This will be achieved by cementing, with a single or multi-stage job, the 5 1/2" production casing back 200' into the intermediate casing, to be run at TD. If wellbore conditions arise that require immediate action and/or a change to this program, COG Operating LLC personnel will always react to protect the wellbore and/or environment. See COA

4. Casing Program

Hole Size	Interval	OD Casing	Weight	Grade	Jt., Condition	Jt.	brst/clps/ten
17 ½"	0-300'	13 3/8"	48#	H-40orJ-55	ST&C/New	ST&C	9.22/3.943/15.8
11" 950'	0-~~850~~'	8 5/8"	24or32#	J-55	ST&C/New	ST&C	3.03/2.029/7.82
7 7/8"	0-TD	5 1/2"	15.5or17#	J-55orL-80	LT&C/New	LT&C	1.88/1.731/2.42

See COA

5. Cement Program See COA

13 3/8" Surface Casing: Class C w/ 2% Cacl2 + 0.25 pps CF, 400 sx, yield 1.32, back to surface. 154% excess

8 5/8" Intermediate Casing:

11" Hole:
Single Stage: 50:50:10 C:Poz:Gel w/ 5% Salt +0.25% CF, 300 sx lead, yield-2.45 + Class C w/2% CaCl2, 200 sx tail, yield-1.32, back to surface. 363% excess
Multi-Stage: Stage 1: Class C w/2% CaCl2, 200 sx, yield - 1.32; 108% excess Stage 2: 50:50:10 C:Poz:Gel w/ 5% Salt +0.25% CF, 300 sx, yield - 2.45, back to surface, 726% excess; assumption for tool is lost circulation. Multi stage tool to be set at approximately, depending on hole conditions, 350' (50' below the surface casing). Cement volumes will be adjusted proportionately for depth changes of multi stage tool.

5 1/2" Production Casing:

Single Stage: LEAD 500 sx 35:65:6 C:Poz:Gel w/ 5% Salt + 5 pps LCM + 0.2% SMS + 0.3% FL-52A + 0.125 pps CF, yield-2.05; + TAIL 400 sx 50:50:2 C:Poz:Gel w/ 5% Salt + 3 pps LCM + 0.6% SMS + 1% FL-25 + 1% BA-58 + 0.3% FL-52A + 0.125 pps CF, yield-1.37, to 200' minimum tie back to intermediate casing. 106% open hole excess, cement calculated back to surface.
Multi-Stage: Stage 1: (Assumed TD of 4800') 500 sx 50:50:2 C:Poz:Gel w/ 5% Salt + 3 pps LCM + 0.6% SMS + 1% FL-25 + 1% BA-58 + 0.3% FL-52A + 0.125 pps CF, yield - 1.37, 72% excess; Stage 2: LEAD

450 sx 50:50:2 C:Poz:Gel w/ 5% Salt + 3 pps LCM + 0.6% SMS + 1% FL-25 + 1% BA-58 + 0.3% FL-52A + 0.125 pps CF, yield - 1.37, + TAIL 250 sx Class C w/ 0.3% R-3 + 1.5% CD-32, yield – 1.02 148% open hole excess, cement calculated back to surface. Multi stage tool to be set at approximately, depending on hole conditions, 2500'. Cement volumes will be adjusted proportionately for depth changes of multi stage tool, assumption for tool is water flow.

6. Minimum Specifications for Pressure Control

The blowout preventer equipment (BOP) shown in Exhibit #9 will consist of a double ram-type (2000 psi WP) preventer, and in some cases possibly a 2000 psi Hydril type annular preventer as provided for in Onshore Order #2. This unit will be hydraulically operated and the ram type preventer will be equipped with blind rams on top of 4 1/2" drill pipe rams on the bottom. A 13-5/8" or 11" BOP will be used, depending on the rig selected, during the drilling of the well. The BOP will be nippled up on the 13 3/8" surface casing with BOP equipment and tested to 2000 psi. When 11" BOP is used the special drilling flange will be utilized on the 13-3/8" head to allow testing the BOP with a retrievable test plug. After setting 8-5/8" the BOP will then be nippled up on the 8 5/8" intermediate casing and tested by a third party to 2000 psi and used continuously until total depth is reached. Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment (Exhibit #10) will include a Kelly cock and floor safety valve, choke lines and a choke manifold (Exhibit #11) with a 2000 psi WP rating.

The majority of the rigs currently in use have a 13-5/8" BOP, so no special provision is needed for most wells in the area for conventionally testing the BOP with a test plug. However, due to the vagaries of rig scheduling, it might be that one of the few rigs with 11" BOP's might be called upon to drill any specific well in the area. Note that intermediate hole size is always 11". Therefore, COG Operating LLC respectfully requests a variance to the requirement of 13-5/8" BOP on 13-3/8" casing. When that circumstance is encountered the special flange will be utilized to allow testing the entire BOP with a test plug, without subjecting the casing to test pressure. The special flange also allows the return to full-open capability if desired.

See COA

FEB 7 20[illegible]

7. Types and Characteristics of the Proposed Mud System

The well will be drilled to TD with a combination of brine, cut brine and polymer mud system. The applicable depths and properties of this system are as follows:

DEPTH	TYPE	WEIGHT	VISCOSITY	WATERLOSS
0-300'	Fresh Water	8.5	28	N.C.
300-850' 960	Brine	10	30	N.C.
850'-TD'	Cut Brine	8.7-9.2	30	N.C.

Sufficient mud materials will be kept at the well site to maintain mud properties and meet minimum lost circulation and weight increase requirements at all times.

8. Auxiliary Well Control and Monitoring Equipment

A. Kelly cock will be kept in the drill string at all times.

B. A full opening drill pipe-stabbing valve with proper drill pipe connections will be on the rig floor at all times.

9. Logging, Testing and Coring Program See COA

A. The electric logging program will consist of GR-Dual Laterolog, Spectral Density, Dual Spaced Neutron, CSNG Log and will be run from TD to Surface.

B. Drill Stem test is not anticipated.

C. No conventional coring is anticipated.

D. Further testing procedures will be determined after the 5 ½" production casing has been cemented at TD, based on drill shows and log evaluation.

10. Abnormal Conditions, Pressure, Temperatures and Potential Hazards

No abnormal pressures or temperatures are anticipated. The estimated bottom hole at TD is 110 degrees and the estimated maximum bottom hole pressure is 2300 psig. Measurable gas volumes or Hydrogen Sulfide levels have not been encountered during drilling operations in this area, although a Hydrogen Sulfide Drilling Operation Plan is attached to this program. No major loss of circulation zones has been reported in offsetting wells.

11. Anticipated Starting Date and Duration of Operations

Road and location work will not begin until approval has been received from the BLM. As this is a Master Drilling plan, please refer to the Form 3160-3 for the anticipated start date. Once commenced, drilling operations should be finished in approximately 10 days. If the well is productive, an additional 30 days will be required for completion and testing before a decision is made to install permanent facilities.

CONCHO

COG Operating LLC

Eddy County, NM (NAN27 NME)
Burch Keely Unit #696
Burch Keely Unit #696

OH

Plan: Plan #1 7-7/8" Hole
SHL = 1133' FNL & 1476' FWL
BHL = 1320' FNL & 1320' FWL
Top of Paddock = 1320' FNL & 1320' FWL @ 4000' TVD

Standard Planning Report

12 January, 2011

Scientific Drilling
Directional Drilling Operations

Database:	EDM-Julio	**Local Co-ordinate Reference:**	Site Burch Keely Unit #696
Company:	COG Operating LLC	**TVD Reference:**	GL Elev @ 3598 00usft
Project:	Eddy County, NM (NAN27 NME)	**MD Reference:**	GL Elev @ 3598 00usft
Site:	Burch Keely Unit #696	**North Reference:**	Grid
Well:	Burch Keely Unit #696	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 7-7/8" Hole		

Project Eddy County, NM (NAN27 NME)

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 Burch Keely Unit #696

Site Position:		**Northing:**	658,360 20 usft	**Latitude:**	32° 48' 34 405 N
From:	Map	**Easting:**	592,719 10 usft	**Longitude:**	104° 1' 53 592 W
Position Uncertainty:	0 00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0 16 °

Well Burch Keely Unit #696

Well Position	**+N/-S**	0 00 usft	**Northing:**	658,360 20 usft	**Latitude:**	32° 48' 34 405 N
	+E/-W	0 00 usft	**Easting:**	592,719 10 usft	**Longitude:**	104° 1' 53 592 W
Position Uncertainty		0 00 usft	**Wellhead Elevation:**		**Ground Level:**	3,598 00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2011/01/12	7 89	60 66	48,959

Design Plan #1 7-7/8" Hole

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0 00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0 00	0 00	0 00	219 66

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	
1,150 00	0 00	0 00	1,150 00	0 00	0 00	0 00	0 00	0 00	0 00	
1,419 32	5 39	219 66	1,418 92	-9 74	-8 07	2 00	2 00	0 00	219 66	
3,741 73	5 39	219 66	3,731 08	-177 56	-147 23	0 00	0 00	0 00	0 00	
4,011 05	0 00	0 00	4,000 00	-187 30	-155 30	2 00	-2 00	0 00	180 00	TG1-BK #696
4,811 05	0 00	0 00	4,800 00	-187 30	-155 30	0 00	0 00	0 00	0 00	PBHL-BK #696

Database:	EDM-Julio	**Local Co-ordinate Reference:**	Site Burch Keely Unit #696
Company:	COG Operating LLC	**TVD Reference:**	GL Elev @ 3598 00usft
Project:	Eddy County, NM (NAN27 NME)	**MD Reference:**	GL Elev @ 3598 00usft
Site:	Burch Keely Unit #696	**North Reference:**	Grid
Well:	Burch Keely Unit #696	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 7-7/8" Hole		

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
1,050 00	0 00	0 00	1,050 00	0 00	0 00	0 00	0 00	0 00	0 00
8-5/8" Casing									
1,150 00	0 00	0 00	1,150 00	0 00	0 00	0 00	0 00	0 00	0 00
KOP Start Build 2.00°/100'									
1,200 00	1 00	219 66	1,200 00	-0 34	-0.28	0 44	2 00	2 00	0 00
1,300 00	3 00	219 66	1,299 93	-3.02	-2 51	3 93	2 00	2 00	0 00
1,400 00	5 00	219 66	1,399 68	-8 39	-6 96	10 90	2 00	2 00	0 00
1,419 32	5 39	219 66	1,418 92	-9 74	-8 07	12 65	2 00	2 00	0 00
EOC hold 5.39°									
1,500 00	5 39	219 66	1,499 25	-15 57	-12 91	20 22	0 00	0 00	0 00
1,600 00	5 39	219 66	1,598 81	-22 79	-18 90	29.61	0 00	0 00	0 00
1,700 00	5 39	219 66	1,698 36	-30 02	-24 89	39 00	0 00	0.00	0 00
1,800 00	5 39	219 66	1,797 92	-37 25	-30 88	48 39	0 00	0 00	0 00
1,900 00	5 39	219 66	1,897 48	-44 47	-36 88	57 77	0 00	0 00	0 00
2,000 00	5 39	219 66	1,997 04	-51 70	-42 87	67 16	0 00	0 00	0 00
2,100 00	5 39	219 66	2,096 60	-58 93	-48 86	76 55	0 00	0 00	0 00
2,200 00	5 39	219 66	2,196 16	-66.15	-54 85	85 93	0 00	0 00	0 00
2,300 00	5 39	219 66	2,295 71	-73 38	-60 84	95.32	0 00	0 00	0 00
2,400 00	5 39	219 66	2,395 27	-80 60	-66 83	104 71	0 00	0 00	0 00
2,500 00	5 39	219 66	2,494 83	-87.83	-72 83	114 10	0 00	0 00	0 00
2,600 00	5 39	219 66	2,594 39	-95 06	-78.82	123 48	0 00	0 00	0 00
2,700 00	5 39	219 66	2,693 95	-102 28	-84 81	132 87	0 00	0 00	0 00
2,800 00	5 39	219 66	2,793 51	-109 51	-90 80	142 26	0 00	0 00	0 00
2,900 00	5 39	219 66	2,893.07	-116 74	-96 79	151 64	0 00	0 00	0 00
3,000 00	5 39	219 66	2,992 62	-123 96	-102 78	161 03	0 00	0 00	0 00
3,100 00	5 39	219 66	3,092 18	-131 19	-108 78	170 42	0 00	0 00	0 00
3,200 00	5 39	219 66	3,191 74	-138 42	-114 77	179 81	0 00	0 00	0 00
3,300 00	5 39	219 66	3,291 30	-145.64	-120 76	189 19	0 00	0 00	0 00
3,400 00	5 39	219 66	3,390 86	-152 87	-126 75	198 58	0 00	0 00	0 00
3,500 00	5 39	219 66	3,490 42	-160 09	-132 74	207 97	0 00	0 00	0 00
3,600 00	5 39	219 66	3,589 97	-167 32	-138 73	217 35	0 00	0 00	0 00
3,700 00	5 39	219 66	3,689 53	-174 55	-144 73	226 74	0 00	0 00	0 00
3,741 73	5 39	219 66	3,731 08	-177 56	-147 23	230 66	0 00	0 00	0 00
Start Drop 2.00°/100'									
3,800 00	4 22	219 66	3,789.14	-181 32	-150 34	235 54	2 00	-2 00	0 00
3,900 00	2 22	219 66	3,888 98	-185 64	-153 93	241.16	2.00	-2 00	0 00
4,000 00	0 22	219 66	3,988 95	-187 28	-155 29	243 29	2 00	-2 00	0 00
4,011 05	0 00	0 00	4,000 00	-187 30	-155 30	243 31	2 00	-2 00	1,270 22
EOC hold 0.00° - TG1-BK #696									
4,811 05	0 00	0 00	4,800 00	-187.30	-155 30	243.31	0 00	0 00	0 00
PBHL-BK #696									

Database:	EDM-Julio	**Local Co-ordinate Reference:**	Site Burch Keely Unit #696
Company:	COG Operating LLC	**TVD Reference:**	GL Elev @ 3598 00usft
Project:	Eddy County, NM (NAN27 NME)	**MD Reference:**	GL Elev @ 3598 00usft
Site:	Burch Keely Unit #696	**North Reference:**	Grid
Well:	Burch Keely Unit #696	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 7-7/8" Hole		

Design Targets

Target Name hit/miss target Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
TG1-BK #696 - plan hits target center - Point	0 00	0 00	4,000 00	-187 30	-155 30	658,172 90	592,563 80	32° 48' 32 556 N	104° 1' 55 418 W
PBHL-BK #696 - plan hits target center - Circle (radius 10 00)	0 00	0 01	4,800 00	-187 30	-155 30	658,172 90	592,563 80	32° 48' 32 556 N	104° 1' 55 418 W

Casing Points

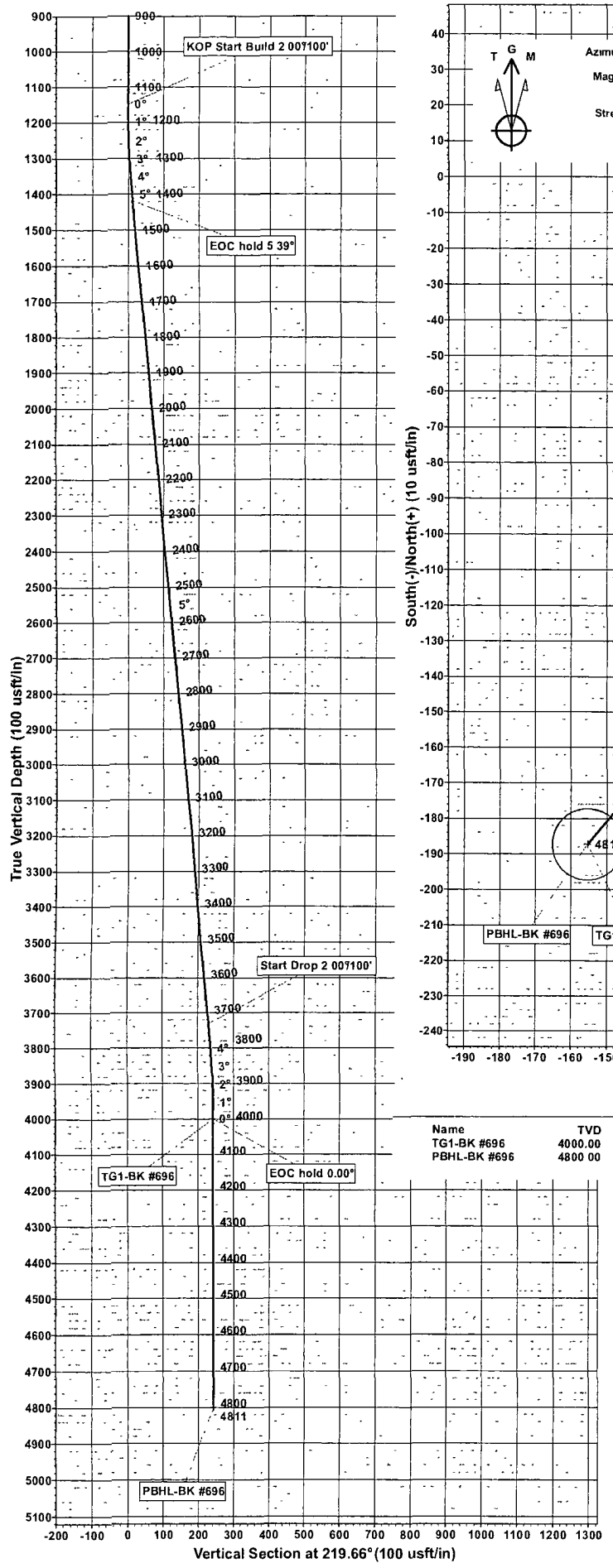
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,050 00	1,050 00	8-5/8" Casing	8-5/8	12-1/4

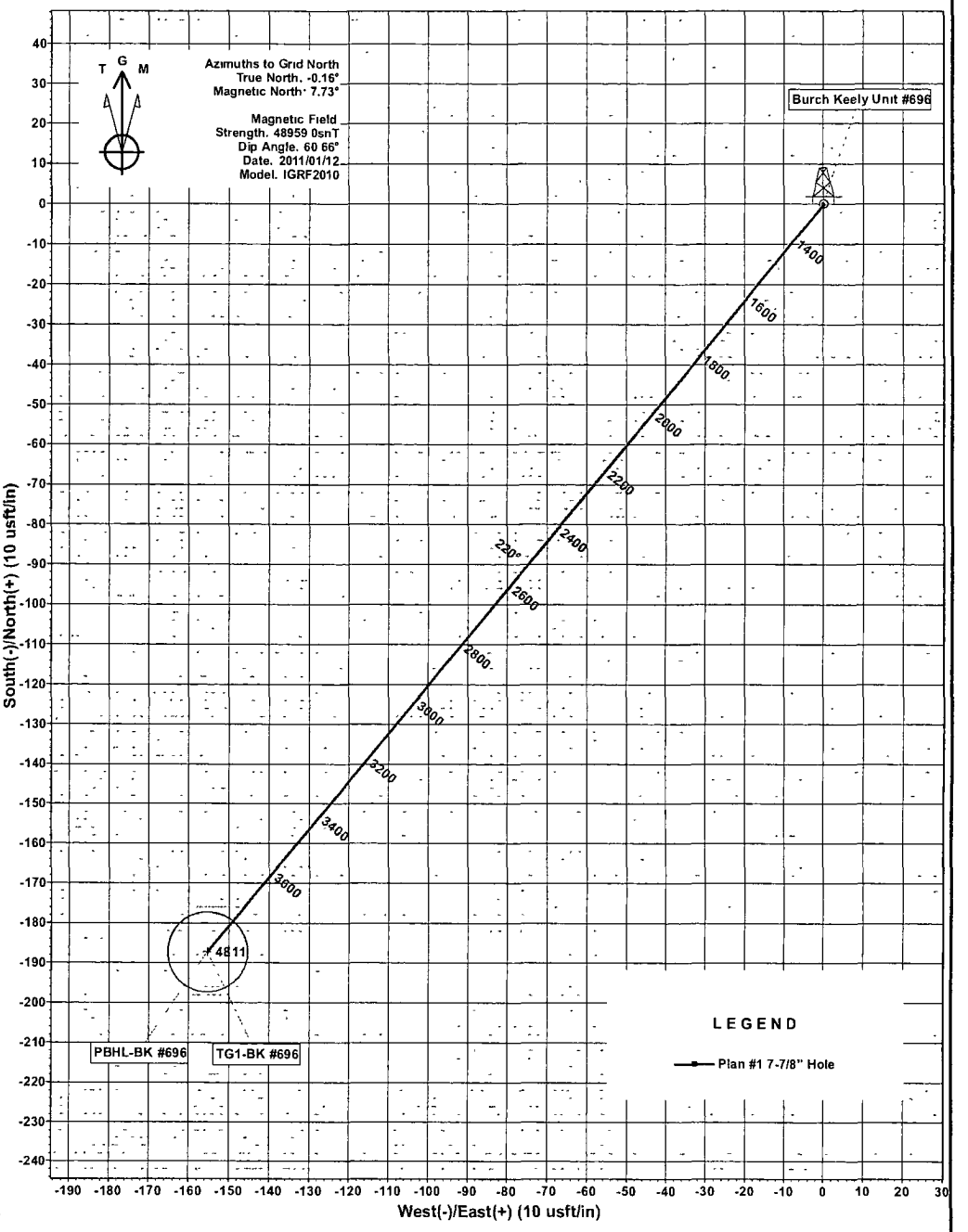
Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,150 00	1,150 00	0 00	0 00	KOP Start Build 2 00°/100'
1,419 32	1,418 92	-9 74	-8 07	EOC hold 5 39°
3,741 73	3,731 08	-177 56	-147 23	Start Drop 2 00°/100'
4,011 05	4,000 00	-187 30	-155 30	EOC hold 0 00°

Scientific Drilling for COG Operating LLC
Site: Eddy County, NM (NAN27 NME)
Well: Burch Keely Unit #696
Wellbore: OH
Design: Plan #1 7-7/8" Hole

Scientific Drilling
Directional Drilling Operations





WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
TG1-BK #696	4000.00	-187.30	-155.30	658172.90	592563.80	32° 48' 32.556 N	104° 1' 55.418 W	Point
PBHL-BK #696	4800.00	-187.30	-155.30	658172.90	592563.80	32° 48' 32.556 N	104° 1' 55.418 W	Circle (Radius: 10.00)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1150.00	0.00	0.00	1150.00	0.00	0.00	0.00	0.00	0.00	
3	1419.32	5.39	219.66	1418.92	-9.74	-8.07	2.00	219.66	12.65	
4	3741.73	5.39	219.66	3731.08	-177.56	-147.23	0.00	0.00	230.66	
5	4011.05	0.00	0.00	4000.00	-187.30	-155.30	2.00	180.00	243.31	TG1-BK #696
6	4811.05	0.00	0.00	4800.00	-187.30	-155.30	0.00	0.00	243.31	PBHL-BK #696

WELL DETAILS: Burch Keely Unit #696

Ground Level: 3598.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	658360.20	592719.10	32° 48' 34.405 N	104° 1' 5.3592 W	

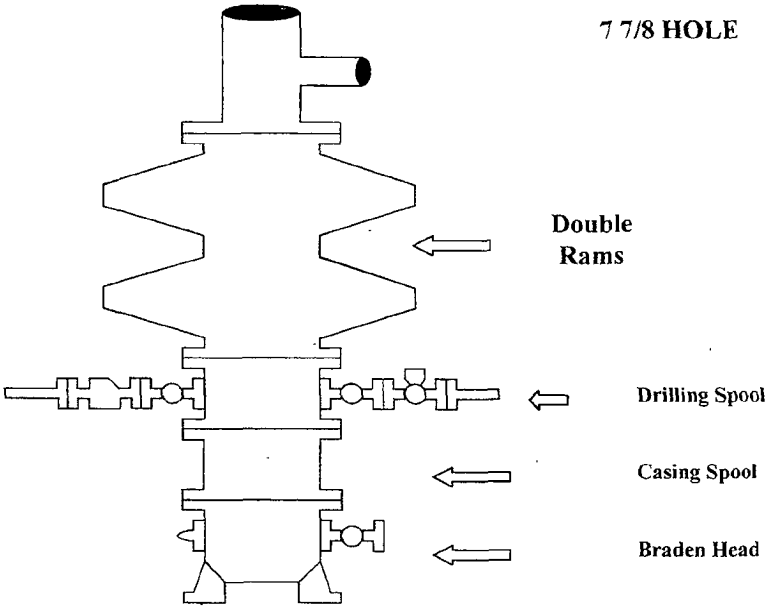
PROJECT DETAILS: Eddy County, NM (NAN27 NME)

Plan: Plan #1 7-7/8" Hole (Burch Keely Unit #696/OH)

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

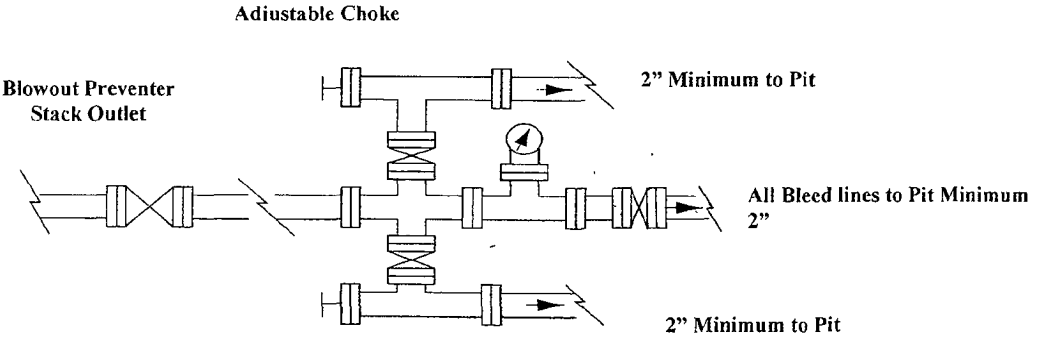
Created By: Julio Pina — Date: 12-Jan-11
Checked. _____ Date: _____
Reviewed. _____ Date: _____
Approved. _____ Date _____

COG Operating LLC
Exhibit #9
BOPE and Choke Schematic



Minimum 4" Nominal choke and kill lines

Choke Manifold Requirement (2000 psi WP)
No Annular Required



Adjustable Choke
(or Positive)

NOTES REGARDING THE BLOWOUT PREVENTERS
Master Drilling Plan
Eddy County, New Mexico

1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
2. Wear ring to be properly installed in head.
3. Blow out preventer and all fittings must be in good condition, 2000 psi WP minimum.
4. All fittings to be flanged.
5. Safety valve must be available on rig floor at all times with proper connections, valve to be full 2000 psi WP minimum.
6. All choke and fill lines to be securely anchored especially ends of choke lines.
7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
8. Kelly cock on Kelly.
9. Extension wrenches and hands wheels to be properly installed.
10. Blow out preventer control to be located as close to driller's position as feasible.
11. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation all API specifications.