# OCD-ARTESIA Copy

Form 3160-3 (April 2004)			FORM AP OMB No. 1 Expires Ma	
UNITED STATES  DEPARTMENT OF THE INT BUREAU OF LAND MANAG			5. Lease Serial No. NMLC-028793C	
APPLICATION FOR PERMIT TO DR			6. If Indian, Allotee o	or Tribe Name
Ia. Type of work: ✓ DRILL REENTER			7. If Unit or CA Agrees NMNM - 88525	
lb. Type of Well:	Single Zone Multip	ole Zone	8. Lease Name and We BURCH KEEL	/ ZUX
2. Name of Operator COG Operating LLC (2291)	37		9. API Well No. 30-015- 35	3644
3a. Address 550 W. Texas Ave., Suite 1300 3b. Midland, TX 79701	Phone No (include area code) 432-685-4384		10. Field and Pool, or Ex Grayburg Jacks	eploratory son; SR-Q-Grbg-SA
4. Location of Well (Report location clearly and in accordance with any State At surface 2000' FNL & 1610' FWL Unit F	ate requirements.*)		11. Sec., T. R. M. or Blk	and Survey or Area
At surface 2000' FNL & 1610' FWL1Unit F  At proposed prod. zone 2100' FNL & 1330' FWL, Unit F			Sec 23 T17S R	29E
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 drig. unit line, if any)	5. No. of acres in lease	17. Spacing	g Unit dedicated to this we	ell
to nearest well, drilling, completed.	9. Proposed Depth <b>TVD: 4800' MD: 4818'</b>	20. BLM/B	IA Bond No. on file  NMB000215	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. 3596' GL	2 Approximate date work will star 01/31/2011	rt*	23. Estimated duration 15 da	ays
	4. Attachments			
<ol> <li>The following, completed in accordance with the requirements of Onshore On the Policy of Onshore On the Indian Surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System Language) shall be filed with the appropriate Forest Service Office).</li> </ol>	4. Bond to cover the Item 20 above). ds, the 5. Operator certific	ne operation	s form:  s unless covered by an extraction and/or plans as n	
25. Signature VOO	Name (Printed/Typed)  Kelly J. Holly		E	Oate 03/14/2011
Title Permitting Tech				
Approved by (Signature)  acking /s/ James A. Amos	Name (Printed/Typed)		I	DateMAR 2 1 2011
Title FIELD MANAGER	Office CA	ARLSBAD	FIELD OFFICE	
Application approval does not warrant or certify that the applicant holds lesconduct operations thereon.  Conditions of approval, if any, are attached.	gal or equitable title to those righ		ROVAL FOR	• •
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime States any false, fictitious or fraudulent statements or representations as to an		willfully to m	ake to any department or	agency of the United

\*(Instructions on page 2)

# **Roswell Controlled Water Basin**



MAR 24 2011

OCD ARTESIA

Approval Subject to General Requirements & Special Stipulations Attached

K2 ovloil( SEE ATTACHED FOR CONDITIONS OF APPROVAL

OCD CONDITION OF APPROVAL of Drilling: Intent to drill ONLY --- CANNOT produce until the Non-Standard Location has been approved by OCD Santa Fe office.

#### MASTER DRILLING PROGRAM

#### 1. Geologic Name of Surface Formation

Quaternary

## 2. Estimated Tops of Important Geologic Markers:

Quaternary	Surface	
Rustler	220'	Memoroadu
Salt	360'	Bureau of Land Management
Base of Salt	780'	RECEIVED
Yates	950'	FEB 04 2011
Seven Rivers	1235'	
Queen	1845'	Carlsbad Field Office
Grayburg	2220'	Carlsbad, NM
San Andres	2540'	1. Car 1 Car 1
Glorieta	4000'	
Paddock	4075'	
Blinebry	4620'	
Tubb	5520'	
		$\cdot$

## 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 bee COA
	•	hee

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° 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.

COG Operating LLC
Master Drilling Plan
Grayburg Jackson; SR-Q-Grbg-SA
Use for Sections 6-30, T17S, R29E
Eddy County, NM

# 4. Casing Program

Gee COA

		OD					
Hole Size	Interval	Casing	Weight	Grade	Jt., Condition	Jt.	brst/clps/ten
17 ½"	0-300 250	13.3/8"	48#	H-40orJ-55	ST&C/New	ST&C	9.22/3.943/15.8
11"	0-850920	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

# 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 CFyield - 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 Multi stage tool to be set at surface. depending approximately. 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.

Sec COA

#### 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
0-300 230	Fresh Water	8.5	28	N.C.
300-850920	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

COG Operating LLC Master Drilling Plan Grayburg Jackson; SR-Q-Grbg-SA Use for Sections 6-30, T17S, R29E Eddy County, NM

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.



# **COG Operating LLC**

Eddy County, NM (NAN27 NME) Burch Keely Unit #602 Burch Keely Unit #602

OH

Plan: Plan #2 7-7/8" Hole

SHL = 2000' FNL & 1610' FWL

BHL = 2100' FNL & 1320' FWL

Top of Paddock = 2100' FNL & 1320' FWL @ 4000' TVD

# **Standard Planning Report**

06 January, 2011





#### **Scientific Drilling**

Planning Report



Database:

EDM-Julio

Company:

COG Operating LLC

Project:

Eddy County, NM (NAN27 NME)

Site:

Burch Keely Unit #602 Burch Keely Unit #602

Well: Wellbore:

Design:

Plan #2 7-7/8" Hole

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Site Burch Keely Unit #602

GL Elev. @ 3596.00usft

GL Elev. @ 3596.00usft

Grid

Minimum Curvature

Eddy County, NM (NAN27 NME) Project

Map System: Geo Datum:

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

Map Zone:

New Mexico East 3001

System Datum:

Mean Sea Level

Site Burch Keely Unit #602

Site Position: From:

Map

Northing: Easting:

662,762.40 usft 587,562,80 usft

Latitude: Longitude:

32° 49' 18.108 N 104° 2' 53.870 W

Position Uncertainty:

Slot Radius:

13-3/16 "

Grid Convergence:

0.15

Well Burch Keely Unit #602

Well Position

+N/-S +E/-W

0.00 usft 0.00 usft

Easting:

Northing:

662,762.40 usft 587,562.80 usft Latitude: Longitude:

32° 49' 18.108 N 104° 2' 53.870 W

**Position Uncertainty** 

0.00 usft

Wellhead Elevation:

Ground Level:

3,596.00 usft

ОН Wellbore Magnetics Sample Date Declination Dip Angle Field Strength (nŤ) (°) (°) IGRF2010 2011/01/06 7.91 60.67 48,966

Design	Plan #2 7-7/8" Hole		man - no e i como decembro constituido de la como de la	The same of the sa	
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
The state of the Park of the Park of the State of the Sta	0.00	0.00	0.00	250.93	and the same of th

leasured			Vertical	,		Dogleg	Build	Turn		
Depth.	Inclination	Azimuth	Depth	+N/-S	+E/-W	Rate	Rate	Rate	TFO	
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	office admits the consequence of the company of the contract o
1,150.00	0.00	0.00	1,150.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,499.03	6.98	250.93	1,498.17	-6.94	-20.07	2.00	2.00	0.00	250.93	
3,670.80	6.98	250.93	3,653.83	-93,16	-269.53	0.00	0.00	0.00	0.00	
4,019.82	0.00	. 0.00	4,002.00	-100,10	-289.60	2.00	-2.00	0.00	180.00	TG1-BK #602
4,817.82	0.00	0.00	4,800.00	-100,10	-289.60	0.00	0.00	0.00	0.00	PBHL-BK #602



### **Scientific Drilling**

Planning Report



Database: Company:

EDM-Julio COG Operating LLC

Eddy County, NM (NAN27 NME)

Project: Site:

Burch Keely Unit #602

Well:

Burch Keely Unit #602

Wellbore: Plan #2 7-7/8" Hole Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Site Burch Keely Unit #602

GL Elev. @ 3596.00usft GL Elev. @ 3596.00usft

Grid

Minimum Curvature

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 1,050.00	0.00 0.00	0.00 0.00	0.00 1,050.00	0.00 0.00	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	0,00		0.00	0.00
8-5/8" Casin		0.00	14.450.00	0.00	. aa	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
	uild 2.00°/100'	050.00	4 000 00	2.14				2.00	
1,200.00	1.00	250.93	1,200.00	-0.14	-0.41	0.44	2.00	2.00	0.00
1,300.00	3.00	250.93	1,299.93	-1.28	-3.71	3,93	2.00	2.00	0.00
1,400.00	5.00	250.93	1,399.68	-3.56	-10.30	10.90	2.00	2.00	0.00
1,499.03	6.98	250.93	1,498.17	-6.94	-20.07	21.24	2.00	2.00	0.00
EOC hold 6.9	98°	•						4.5	
1,500.00	6.98	250.93	1,499.13	-6.98	-20.18	21.35	0.00.	0.00	0.00
1,600.00	6.98	250.93	1,598.39	-10,95	-31.67	33.51	0.00	0.00	0.00
1,700.00	6.98	250.93	1,697.65	-14.92	-43.15	45,66	0.00	0.00	0.00
1,800.00	6.98	250.93	1,796.91	-18.89	-54.64	57.81	0.00	0.00	0.00
1,900.00	6.98	250.93	1,896.16	-22.86	-66.13	69.97	0.00	0.00	0.00
2,000.00	6.98	250.93	1,995.42	-26.83	-77.61	82.12	0.00	0.00	0.00
2,100.00	6.98	250.93	2,094.68	-30.80	-89.10	94.27	0.00	0.00	0.00
2,200.00	6.98	250.93	2,193.94	-34.77	-100.59	106.43	0.00	0.00	0.00
·									
2,300.00	6.98	250.93	2,293.20	-38.74	-112.07	118.58	0.00	0.00	0.00
2,400.00	6.98	250.93 250.93	2,392.46	-42.71	-123.56	130.73	0.00	0.00	0.00
2,500.00	6.98 6.98	250.93 250.93	2,491.72 2,590.98	-46.68 -50.65	-135.05 -146.53	142.89 155.04	0.00	. 0.00 0.00	, 0.00
2,600.00 2,700.00	6.98	250.93	2,690.23	-54.62	-146.53 -158.02	167.19	0.00	0.00	0.00 0.00
•									
2,800.00	6.98	250.93	2,789.49	-58.59	-169.51	179.35	0.00	0.00	0.00
2,900.00	6.98	250.93	2,888.75	-62.56	-180.99	191.50	0,00	0.00	0.00
3,000.00	6.98	250.93	2,988.01	-66.53	-192.48	203.65	0.00	0.00	0.00
3,100.00	6.98	250.93	3,087.27	-70.50	-203.97	215.81	0.00	0.00	0.00
3,200.00	6.98	250.93	3,186.53	-74.47	-215.45	227.96	0.00	0.00	0.00
3,300.00	6.98	250.93	3,285.79	-78.44	-226.94	240,11	0.00	0.00	0.00
3,400.00	6.98	250.93	3,385.05	-82.41	-238.42	252.27	0.00	0.00	0.00
3,500.00	6.98	250.93	3,484.30	-86.38	-249.91	264.42	0.00	0.00	0.00
3,600.00	6.98	250.93	3,583.56	-90.35	-261.40	276.57	0.00	0.00	0.00
3,670.80	6.98	250.93	3,653.84	-93.16	-269.53	285.18	0.00	0.00	0.00
Start Drop 2.	.00°/100'								
3,700.00	6.40	250.93	3,682.84	-94.27	-272.74	288.58	2.00	-2.00	0.00
3,800.00	4.40	250.93	3,782.39	-97.35	-281.63	297.98	2.00	-2.00	0.00
3,900.00	2.40	250.93	3,882.21	-99.28	-287.23	303.91	2.00	-2.00	0.00
4,000.00	0.40	250.93	3,982.18	-100.08	-289.54	306.34	2.00	-2.00	0.00
4,019.82	0.00	250.93	4,002.00	-100.10	-289.60	306.41	2.00	-2.00	0.00
	00° - TG1-BK #60				•				
			4.000.00	100.15		000 (:		0.55	
4,817.82	0.00	250.93	4,800.00	-100.10	-289.60	306.41	0.00	0.00	0.00



# **Scientific Drilling**

#### Planning Report



Database: Company: EDM-Julio

COG Operating LLC

Project:

Eddy County, NM (NAN27 NME) Burch Keely Unit #602

Site: Well:

Burch Keely Unit #602

Wellbore:

HO.

Plan #2 7-7/8" Hole Design:

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Site Burch Keely Unit #602

GL Elev. @ 3596.00usft

GL Elev. @ 3596.00usft

Grid

Minimum Curvature

Design Targets				and the separate section of the second section of the section of the second section of the section of the second section of the sect	er av av star (a - restaurantes propries restaurantes	and the second state is an expense of the	anne inglike i serangan ay bari ito majanda a		and the second section of the second section of the second section of the second section of the second section	
Target Name - hit/miss target - Shape	Dip Ang (°)	le	Dip Dir.	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Éasting (usft)	Latitude	Longitude
TG1-BK #602 - plan hits target c - Point		.00	0.00	4,002.00	-100.10	-289.60	662,662.30	587,273.20	32° 49′ 17.125 N	104° 2' 57.267 W
PBHL-BK #602 - plan hits target c - Circle (radius 10	enter	.00	0.01	4,800.00	-100.10	-289.60	662,662.30	587,273.20	32° 49' 17.125 N	104° 2' 57.267 W

Casing Points	The state of the s			normalistica esperante estito na principalista. El companyo estito e su principalista de la companyo estito e La companyo estito estito estito estito e estito				
	Measured	Vertical	*			Casing	Hole	
	Depth (usft)	Depth (usft)		Name	•	Diameter (")	Diameter (")	
	1,050.00	1,050.00	8-5/8" Casing	and the control of th		8-5/8	12-1/4	

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	Measured	Vertical	Local Coor	dinates	·			
	Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment			
	1,150.00	1,150.00	0.00	0.00	KOP Start Build 2.00°/100'	 	 	
	1,499.03	1,498.17	-6.9 <b>4</b>	-20.07	EOC hold 6.98°			
	3,670.80	3,653.84	-93.16	-269.53	Start Drop 2.00°/100'			
	4,019.82	4,002.00	-100.10	-289.60	EOC hold 0.00°			



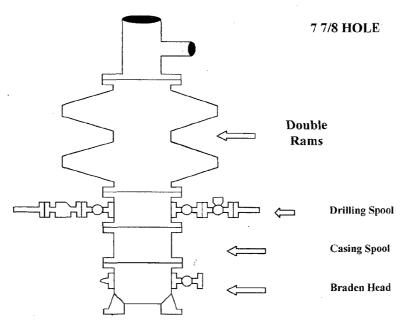
Scientific Drilling for COG Operating LLC Site: Eddy County, NM (NAN27 NME) Well: Burch Keely Unit #602 Wellbore: OH Design: Plan #2 7-7/8" Hole



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3900 4000 4100 4200 4300 4400 4500 4600			G1-BI	* #602		55 36 3700 55 36 3700 3700	000 000 000 EO	C hold	0.00°	The second secon	TG	ame 11-BK 3HL-B	#602 K #60	22	4002	7 2.00 0.00	+N/100.1 -100.1 -100.1 Sec. 1 2 3 4 5 6	W S ++t	ELLBC E/-W 9.60 9.60 9.60 DD 00 00 00 03 88 82 82 N/-S 0.00 DETA	Non 6626 6626 6626 6626 6626 6626 6626 66	Azi (0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	EFAN DETAIL STATE OF THE STATE	st(+) LS (M. asting 273.20 TVD 0.00 0.00 0.00 0.00 0.00 0.00 0.00 VELL (rthing 762.40 NM (N./	SEE +NN 0 0 0 -100 -100 -100 -100 -100 -100 -	sft/in -ORDII -ORDII -ORDII -ORDII	) NATES itude 25 N DETA +E/-W 0.00 0.00 0.00 itude 10.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	104' 104' 104' 104' 105  Die 0.0 2.0 2.0 0.0 2.0 32°49' 11: Plan 11 By:	Long T 7.7 57.3 57.3 57.3 57.3 57.3 57.3 57.3	Face 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	VSe 0.0 0.0 285.7 306.4 L L 0.4° 2° 5	ct Ta tle (Rac 00 00 02 4 18 41 TP	dius: 10.  G1-BK # BHL-BK  VW  Date:	00) 602 #602 #602/C	
3900 4000 4100 4200 4300 4400 4500 4700 4800			G1-BI	#602		500 3700 5-38 4-38 4-39 4-100 4-200 4-400 4-400 4-400 4-400 4-400 4-400 4-400 4-400	000 000 000 EO	C hold	10.00°	The second secon	TG PB	ame 11-BK 3HL-B	#602 K #60		4002	7 2.00 0.00	+N/-100.1 -100.1 -100.1 Sec 1 2 3 4 5 6	W S + H O - 28 O	ELLBC  8W 9-60 9-60 9-60  1D 00 00 03 80 82 82 82 N/-S 0-00  DETA ystem: satum: psoid:	Inc 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.	West RGET thing 62.30 62.30 62.30  Azi 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Loy/East DETAIL EST ST. S.	st(+) LS (M. asting 273.20 TVD 0.00 0.00 0.00 0.00 0.00 0.00 0.00 VELL (rthing 762.40 NM (N. 27 (Ex. N) CO	SEE +NN 0 0 0 -100 -100 -100 -100 -100 -100 -	sft/in -ORDII -ORDII -ORDII -ORDII	) NATES itude 125 N DETA +E/-W 0.00 -20.07 269.52 289.60 -21.80 Plan Creates	104' 104' 104' 104' 104' 105' 105' 105' 105' 105' 105' 105' 105	Lon 2: 57.2 57.2 57.2 57.2 57.2 57.2 57.2 57.2	Face 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	VSee 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	ape tt tle (Rac ct Ta 000 000 24 41 T(1) Add T (1) Congitte	rget G1-BK # BHL-BK Ude Sic Date: Date:	602 #602 #602/C	
39000 40000 41000 42000 43000 45000 46000 48000 49000 5000			(G1-B	( #602 HL-BK	#602	5680 3700 5-38 4-38 4-38 4-10 4-400 4-400 4-400 4-400 4-400 4-400 4-400 4-400 4-400 4-600 4	00	C hold	6 0.00	0 800	TGPB	ame 11-BK HL-B	#602 K #60	22	4002	/ TVD 2.00 2.00	+N/-100.1 -100.1 -100.1 Sec 1 2 3 4 5 6	W S + H O - 28 O	ELLBC  8W 9-60 9-60 9-60  1D 00 00 03 80 82 82 82 N/-S 0-00  DETA ystem: satum: psoid:	Inc 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.	Azi (0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Loy/East DETAIL EST ST. S.	st(+) LS (M. asting 273.20 TVD 0.00 0.00 0.00 0.00 0.00 0.00 0.00 VELL (rthing 762.40 NM (N. 27 (Ex. N) CO	SEE +NN 0 0 0 -100 -100 -100 -100 -100 -100 -	sft/in -ORDII -ORDII -ORDII -ORDII	) NATES itude 25 N 25 N  DETA 4E/-W 0.00 0.00 -20.07 2289.60 arch Ke iting 2.80  Plan  Create Chec	104' 104' 104' 104' 105  Die 0.0 2.0 2.0 0.0 2.0 32°49' 11: Plan 11 By:	Lon 2: 57.2 57.3 100 100 100 100 100 100 100 118.10E	Face 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	VSe 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	ape tt tle (Rac cot Ta 000 000 24 41 T( 41 Pi	dius: 10.  G1-BK # BHL-BK  VW  Date:	00) 602 #602 #602 06-Jai	

# **COG Operating LLC**

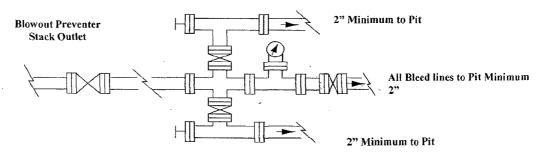
# **Exhibit #9 BOPE and Choke Schematic**



Minimum 4" Nominal choke and kill lines

### Choke Manifold Requirement (2000 psi WP) No Annular Required

#### Adjustable Choke



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.

Blowout Preventers Page 2

# DISTRICT I --- CHECKLIST FOR INTENTS TO DRILL

, Operator_	COO DIENATING e & # BUNCH KELLY UN UL F, Sect 23, Twnship / Z s, RNG 29e,	LLC OGRID#	229137
3 08086 Well Name	8# BURCH KELLYUN	1/T # 602 Surfa	ace Type (F) (S) (P)
Location: 1	UL $\mathbb{Z}$ , Sect $\frac{23}{2}$ , Twnship $\mathbb{Z}$ s, RNG $\frac{29}{2}$ e,	Sub-surfa	ace Type (F) (S) (P)
	Date C101 rec'd/		
	<ol> <li>Inactive Well list as of: ##         <ul> <li>District Grant APD but see number of inactive No letter required;</li> <li>Sent Letter to Operate 3. Additional Bonding as of: ###</li> </ul> </li> <li>District Denial because operator needs addit</li> </ol>	wells_ <b>2825</b> # Inactive e wells: or, to Santa Fe	wells
	No Letter required; Sent Letter to Opera  b. District Denial because of Inactive well list ar  No Letter required; Sent Letter to Opera	itor, To Santa Fe nd Financial Assurance:	
C.	1. Pool, NO, Signature  a. Dedicated acreage, What Units  b. SUR. Location Standard: Non-Standard: No, # of we get a creage, Yes, No, # of we get acreage, Yes, No, No, No	dard Location <u> </u>	
	Agreement Letter, Disagreement letter	s <u>F</u> n-Standard Bottomhole	2
	a. Pool #2 Pool #3 Pool #4	,Code	_, Acres
E. F.	5. POTASH Area Yes, No, Blowout Preventer Yes, No, H2S Yes, No, C144 Pit Registration Yes, No, Does APD require Santa Fe Approval:		
	<ol> <li>Non-Standard Location: Yes, No,</li> <li>Non-Standard Proration: Yes, No,</li> <li>Simultaneous Dedication: Yes, No,</li> <li>Number of wells Plus #</li> <li>Injection order Yes, No; PMX #</li> </ol>	NSP #	_
	5. SWD order Yes , NO ; SWD # 6. DHC from SF ; DHC-HOB	#	
	7. OCD Approval Date/	API # <u>30-0</u> /5	-38644