in the second se	AICH INTE					
Form 3160-3 (April 2004)			OMB N	APPROVED Vo. 1004-0137 March 31, 2007		
UNITED STATES DEPARTMENT OF THE I	5. Lease Serial No. NMNM-0467931					
BUREAU OF LAND MANA APPLICATION FOR PERMIT TO I			6. If Indian, Allote		1e	
APPLICATION FOR PERIMIT TO I	DRILL OR RECIVIER		N/A			,
1a. Type of work: ✓ DRILL REENTE	R		7. If Unit or CA Agr N/A	reement, Name	and No.	
lb. Type of Well: Oil Well Gas Well Other	Single Zone Multip	le Zone	8. Lease Name and Electra Feder	/	30	24
	37)		9. API Well No. 30-015- 33	1 335 <u>3</u>		
3a. Address 550 W. Texas, Suite 1300 Midland TX 79701	3b Phone No. (include area code) (432) 685-4385		10. Field and Pool, or Loco Hills; G	, ,	9671	.8
4. Location of Well (Report location clearly and in accordance with any At surface 2280' FNL & 2491' FWL (Unit F)	State requirements.*)		11. Sec., T. R. M. or 1	·	or Area	フ
At proposed prod. zone	1-STANDARD LOCAT	TIME	Sec 10, T17S,	R30E		
14. Distance in miles and direction from nearest town or post office* 2 miles North of Loco Hills, N.		UN	12. County or Parish Eddy	13	. State	— И
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any) 2280'	16. No. of acres in lease	17. Spacin	ing Unit dedicated to this well			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 500'	19. Proposed Depth	-6050 6160 VD NMB000215				
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3712' GL	22 Approximate date work will star 12/31/2010	Approximate date work will start* 23. Estimate				
	24. Attachments		· · · · · · · · · · · · · · · · · · ·			
The following, completed in accordance with the requirements of Onshore	e Oil and Gas Order No.1, shall be a	tached to th	is form:			
Well plat certified by a registered surveyor. A Drilling Plan. A Conference of the Plan (16 the leavage in the Plan (16	Item 20 above).	•	ns unless covered by a	n existing bond	on file	(see
 A Surface Use Plan (if the location is on National Forest System I SUPO shall be filed with the appropriate Forest Service Office). 		specific info	ormation and/or plans a	is may be requ	ired by th	he
25. Signature	Name (Printed Typed)	Name (Printed Typed) Date				
Title AND	Robyn M. Odon	· · · · · · · · · · · · · · · · · · ·		09/08/2	1010	
Regulatory Analyst						
Approved by (Signature) /s/ Don Peterson	Name (Printed Typed)			Date DEC	7	201
Title FIELD MANAGER	Office		RLSBAD FIELD C	•		
Application approval does not warrant or certify that the applicant holds conduct operations thereon. Conditions of approval, if any, are attached.	e legal or equitable title to those righ		PPROVAL F	e se ^{rte}		 ARS

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.

*(Instructions on page 2)

Roswell Controlled Water Basin

DEC 0 9 2010 NMOCD ARTESIA Approval Subject to General Requirements
& Special Stipulations Attached

APPROVAL FOR TWO YEARS

SEE ATTACHED FOR CONDITIONS OF APPROVAL • Form 3160-5 (April 2004)

UNITED STATES CD-ARTESIA DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANY OF THE

FORM APPROVED OM B No. 1004-0137 Expires: March 31, 2007

·	5. Lease Serial No.				
SUNDRY	NMNM-0467931				
Do not use th abandoned we	6. If Indian, Allottee or Tribe Name N/A				
SUBMIT IN TRI	7. If Unit or CA/Agreement, Name and/or No. N/A				
1. Type of Well Oil Well□□□		8. Well Name and No.			
2. Name of Operator COG Operat	ing LLC			Electra Federal #52 9 API Well No.	
3a Address 550 W. Texas Ave., Suite 1300	30-015-				
4. Location of Well (Footage, Sec., 1		32-685-4385		10. Field and Pool, or Exploratory Area Loco Hills; Glorieta Yeso 96718	
· -	2491 FWL SEC. 10, T17S, R30E,	, UNIT F		11. County or Parish, State	
				EDDY, NM	
12. CHECK AI	PPROPRIATE BOX(ES) TO INDI	CATE NATU	JRE OF NOTICE, R	REPORT, OR OTHER DATA	
TYPE OF SUBMISSION		TY	YPE OF ACTION		
Notice of Intent	Alter Casing Fi	eepen racture Treat	Production (Sta	Well Integrity	
Subsequent Report		ew Construction lug and Abandon		Dandon Cother Add Bottom Hole Location	
Final Abandonment Notice		lug and Abandon lug Back	Water Disposal		
following completion of the investing has been completed. Fit determined that the site is ready COG permitted this well a 2280 FNL & 2491 COG respectfully requests SHL: 2280 FNL & BHL: 2310 FNL	volved operations. If the operation results nal Abandonment Notices shall be filed or for final inspection.) at this location: a FWL SEC. 10, T17S, R30E, UNITED SEC. 10, UNITED SEC. 10	in a multiple cornly after all requi	npletion or recompletion in rements, including reclam	red subsequent reports shall be filed within 30 days in a new interval, a Form 3160-4 shall be filed one nation, have been completed, and the operator has DEC 09 2010 NMOCD ARTESIA	
14. I hereby certify that the fore Name (Printed/Typed)	going is true and correct				
Kelly J. Holly					
Signature COM	1	11/03/2010			
-	THIS SPACE FOR FED	ERAL OR	STATE OFFICE		
Approved by	/s/ Don Peterson		Title FIELD MANA	AGER Date	
Conditions of approval, if any, are certify that the applicant holds lega which would entitle the applicant to		BAD FIELD 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.

MASTER DRILLING PROGRAM

1. Geologic Name of Surface Formation

Quaternary

2. **Estimated Tops of Important Geologic Markers:**

Quaternary	Surface
Top of Salt	500'
Base of Salt	1000'
Yates	1180'
Seven Rivers	1470'
Queen	2070'
Grayburg	2480'
San Andres	2780'
Glorietta	4220'
Yeso Group	4300'

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

Water Sand	150'	Fresh Water
Grayburg	2480'	Oil/Gas
San Andres	2780'	Oil/Gas
Glorietta	4220'	Oil/Gas
Yeso Group	4300'	Oil/Gas

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Setting 13 3/8" casing to 425' 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 1300' 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) Lee COA to protect the wellbore and/or the environment.

See COA

4. **Casing Program**

		OD					
Hole Size	Interval	Casing	Weight	Grade	Jt., Condition	Jt.	brst/clps/ten
17 1/2"	0-425'	13 3/8"	48#	H-40orJ-55	ST&C/New	ST&C	9.22/3.943/15.8
11"or 12 1/4"	0-1300'	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**

13 3/8" Surface Casing:

Class C, 450 sx, yield 1.32, back to surface

8 5/8" Intermediate Casing:

11" Hole:

Single Stage: 50:50:10, 300 sx lead, yield-2.45 + Class C, 200 sx tail, yield-1.32, back to surface.

Multi-Stage: Stage 1: Class C, 300 sx, yield-1.32 Stage 2: Class C, 200 sx, yield-2.45, back to surface. Multi stage tool to be set at approximately, depending on hole

conditions, 425' See COA

5 1/2" Production Casing:

Single Stage: 35:65:6, 500 sx Lead, yield-2.05 + 50:50:2, 400 sx Tail, yield-1.37, to 200' minimum tie back to intermediate casing.

Multi-Stage: Stage 1: 50:50:2, 400 sx, - See Cop yield-1.37 Stage 2: 35:65:6, 500 sx, yield-2.05, to 200' minimum tie back to intermediate casing. Multi stage tool to be set at approximately, depending on hole conditions, TD - 2000. See COT

Operator to provide 100' range

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. 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. The BOP will be nippled up on the 13 3/8" surface casing with BOP equipment and tested together to 1000 psi by rig pump in one test. 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. All BOP's and accessory equipment will be tested to 2000 psi before drilling out of the intermediate casing. 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.

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
0-425'	Fresh Water	8.5	28	N.C.
425-1300'	Brine	10	30	N.C.
1300'-TD	Cut Brine	8.7-9.1	29	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

The electric logging program will consist of GR-Dual Laterolog, Spectral Density, Dual Spaced Neutron, CSNG Log and will be run from TD to 8 5/8" casing shoe.

- 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 hold 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 12 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) Electra Federal #52 Electra Federal #52

OH

Plan: Plan #1 - 7-7/8" Hole SHL = 2280' FNL & 2491' FWL BHL = 2300' FNL & 2300' FWL Top of Paddock = 2300' FNL & 2300' FWL @ 4400' TVD

Standard Planning Report

18 November, 2010





Scientific Drilling

Planning Report



Database: EDM-Julio

COG Operating LLC Company

Eddy County, NM (NAN27 NME) Project:

Electra Federal #52 Site: Well: Electra Federal #52

Wellböre

Design: Plan #1 - 7-7/8" Hole Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference

Survey Calculation Method

Site Electra Federal #52 GL Elev. @ 3730.00usft GL Elev. @ 3730.00usft

Minimum Curvature

Project* Eddy County, NM (NAN27 NME)

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

Electra Federal #52 Site

Site Position:

Northing:

673,105.00 usft

32° 50' 59.613 N 103° 57' 35.076 W

614,730.30 usft Мар Easting: Longitude: From: 13-3/16 " Position Uncertainty: 0.00 usft Slot Radius:

Grid Convergence:

0.20

Well Electra Federal #52 32° 50' 59.613 N Well Position +N/-S 0.00 usft Northing: 673,105.00 usft Latitude: 103° 57' 35.076 W +E/-W 0.00 usft Easting: 614,730.30 usft Longitude: **Position Uncertainty** 0.00 usft Wellhead Elevation: **Ground Level:** 3,712.00 usft

ОН Wellbore Magnetics IGRF2010 2010/11/18 7.88 60.71 49,006

Design 🐇 🔀 **Audit Notes:** Version: Phase: PLAN Tie On Depth: 0.00 Vertical Section (usft) 0.00 0.00 0.00 263.93

Plan Sections Measured Depth in (usft)	clination (2)	Azimuth (?)	Vertical Depth (usft) :	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (\$/100usft)	Bulld Rate °/100üsft) (Turn Rate 7/100usft)	TFO: (°)	Target
0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,450.00	0.00	0.00	1,450.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,649.76	4.00	263.93	1,649.60	-0.74	-6.92	2.00	2.00	0.00	263.93	
4,206.78	4.00	263.93	4,200.40	-19.56	-184.08	0.00	0.00	0.00	0.00	
4,406.54	0.00	0.00	4,400.00	-20.30	-191.00	2.00	-2.00	0.00	180.00	TG1-Electra #52
6,156.54	0.00	0.00	6,150.00	-20.30	-191.00	0.00	0.00	0.00	0.00 1	PBHL-Electra #52



Scientific Drilling

Planning Report



Database: Company: EDM-Julio

Project:

COG Operating LLC

Eddy County, NM (NAN27 NME)

Site: Well:

Electra Federal #52 Electra Federal #52

ОН

Wellbore: Design: Plan #1 - 7-7/8" Hole Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference

Survey Calculation Method:

Site Electra Federal #52

GL Elev. @ 3730.00usft GL Elev. @ 3730.00usft

Grid

Minimum Curvature

Measured * *			Vertical			Vertical	Dogleg	Build	Turn
Property of the contract of th	ination 🖫 🤛	Azimuth	≰ Depth	+N/-S	+É/-W	Section } ∗,	Rate	· Rate	Rate
(usft)	(°)	(°)	(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
1,350.00	0.00	0.00	1,350.00	0.00	0.00	0.00	0.00	0.00	0.00
8-5/8" Casing									
1,450.00	0.00	0.00	1,450.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start Build 2.		200.00	4 500 00	0.05					2.22
1,500.00	1.00	263.93	1,500.00	-0.05	-0.43	0.44	2.00	2.00	0.00
1,600.00	3.00	263.93	1,599.93	-0.41	-3.90	3.93	2.00	2.00	0.00
1,649.76	4.00	263.93	1,649.60	-0.74	-6.92	6.96	2.00	2.00	0.00
EOC hold 4.00°									
1,700.00	4.00	263.93	1,699.72	-1.11	-10.40	10.46	0.00	0.00	0.00
1,800.00	4.00	263.93	1,799.47	-1.84	-17.33	17.43	0.00	0.00	0.00
1,900.00	4.00	263.93	1,899.23	-2.58	-24.26	24.40	0.00	0.00	0.00
2,000.00	4.00	263.93	1,998.99	-3.31	-31.19	31.36	0.00	0.00	0.00
2,100.00	4.00	263.93	2,098.74	-4.05	-38.12	38.33	0.00	0.00	0.00
2,200.00	4.00	263.93	2,198.50	-4.79	-45.04	45.30	0.00	0.00	0.00
2,300.00	4.00	263.93	2,298.26	-5.52	-51.97	52.27	0.00	0.00	0.00
2,400.00	4.00	263.93	2,398.02	-6.26	-58.90	59.23	0.00	0.00	0.00
2,500.00	4.00	263.93	2,497.77	-7.00	-65.83	66.20	0.00	0.00	0.00
2,600.00	4.00	263.93	2,597.53	-7.73	-72.76	73.17	0.00	0.00	0.00
2,700.00	4.00	263.93	2,697.29	-8.47	-79.69	80.13	0.00	0.00	0.00
2,800.00	4.00	263.93	2,797.04	-9.21	-86.61	87.10	0.00	0.00	0.00
2,900.00	4.00	263.93	2,896.80	-9.94	-93.54	94.07	0.00	0.00	0.00
3,000.00	4.00	263.93	2,996.56	-10.68	-100.47	101.04	0.00	0.00	0.00
3,100.00	4.00	263.93	3,096.31	-11.41	-107.40	108.00	0.00	0.00	0.00
3,200.00	4.00	263.93	3,196.07	-12.15	-114.33	114.97	0.00	0.00	0.00
3,300.00	4.00	263.93	3,295.83	-12.89	-121.25	121,94	0.00	0.00	0.00
3,400.00	4.00	263.93	3,395.59	-13.62	-128.18	128.90	0.00	0.00	0.00
3,500.00	4.00	263.93	3,495.34	-14.36	-135.11	135.87	0.00	0.00	0.00
3,600.00	4.00	263.93	3,595.10	-15.10	-142.04	142.84	0.00	0.00	0.00
3,700.00	4.00	263.93	3,694.86	-15.83	-148.97	149.81	0.00	0.00	0.00
3,800.00	4.00	263.93	3,794.61	-16.57	-155.90	156.77	0.00	0.00	0.00
3,900.00	4.00	263.93	3,894.37	-17.31	-162.82	163.74	0.00	0.00	0.00
4,000.00	4.00	263.93	3,994.13	-18.04	-169.75	170.71	0.00	0.00	0.00
4,100.00	4.00	263.93	4,093.88	-18.78	-176.68	177.67	0.00	0.00	0.00
4,200.00	4.00	263.93	4,193.64	-19.51	-183.61	184.64	0.00	0.00	0.00
4,206.78	4.00	263.93	4,200.40	-19.56	-184.08	185.11	0.00	0.00	0.00
Start Drop 2.00°/10									
4,300.00	2.13	263.93	4,293.49	-20.09	-189.03	190.09	2.00	-2.00	0.00
4,400.00	0.13	263.93	4,393.46	-20.30	-190.99	192.07	2.00	-2.00	0.00
4,406.54	0.00	0.00	4,400.00	-20.30	-191.00	192.08	2.00	-2.00	1,469.51
EOC hold 0.00° - T	G1-Electra	#52	•						
6,156.54	0.00	0.00	6,150.00	-20.30	-191.00	192.08	0.00	0.00	0.00
PBHL-Electra #52									



Scientific Drilling

Planning Report



Database:

and and the street out of the second comments of the second second second second second second second second s EDM-Julio

Company:

COG Operating LLC

Project:

Eddy County, NM (NAN27 NME)

Site: Well: Wellbore:

Electra Federal #52 Electra Federal #52 Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method: renderal elem lage, en exercica Personalista en elemente de la Personalista en elemente de la Personalista en elemente de la Personalista en e Site Electra Federal #52

GL Elev. @ 3730.00usft

GL Elev. @ 3730.00usft Grid

Minimum Curvature

Wellbore: OH	41 - 7-7/8" H		LR PROXINGUAGENIA GREEK FOIL IN BU	Caster of Landesquery, and wife species as Au	Survey Calcu	ration method.	And the same constitution of the same same same same same same same sam	ALLEGROPHMENT THE THE THE THEORY OF THE THE THEORY OF THE THE THEORY OF THE THEORY OF THE THEORY OF THE	STATE OF THE STATE
The state of the s	Angle D		.TVD: (usft)	+N/-S (usft)	+E/:W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
North HL-Carmen #15 - plan misses target cente - Rectangle (sides W100.0	,		0.00 Ousft MD (0.0	-30.30 0 TVD, 0.00 i	-181.00 N, 0.00 E)	673,074.70	614,549.30	32° 50′ 59.319 N	103° 57' 37.199 W
West HL-Carmen #15 - plan misses target cente - Rectangle (sides W0.00			0.00 Ousft MD (0.0	-30.30 0 TVD, 0.00	-181.00 N, 0.00 E)	673,074.70	614,549.30	32° 50′ 59.319 N	103° 57' 37.199 W
TG1-Electra #52 - plan hits target center - Circle (radius 10.00)	0.00	0.00	4,400.00	-20.30	-191.00	673,084.70	614,539.30	32° 50′ 59.419 N	103° 57' 37.316 W
PBHL-Electra #52 - plan hits target center - Circle (radius 10.00)	0.00	0.00	6,150.00	-20.30	-191.00	673,084.70	614,539.30	32° 50′ 59.419 N	103° 57' 37.316 W

Ì	Casing Points	en komplet kannen er en	
	Measured Vertical Depth		Casing Hole Diameter Diameter
	(usft)	Name	Diameter Diameter
	1,350.00 1,350.00	8-5/8" Casing	8-5/8 12-1/4
			4

Plan Annotations Measured Depth (Usft)	Vertical Depth (us(t)	LocaliCoordi +N/S (usft)		Comment
1,450.00	1,450.00	0.00	0.00	KOP Start Build 2.00°/100'
1,649.76	1,649.60	-0.74	-6.92	EOC hold 4.00°
4,206.78	4,200.40	-19.56	-184.08	Start Drop 2.00°/100'
4,406.54	4,400.00	-20.30	-191.00	EOC hold 0.00°

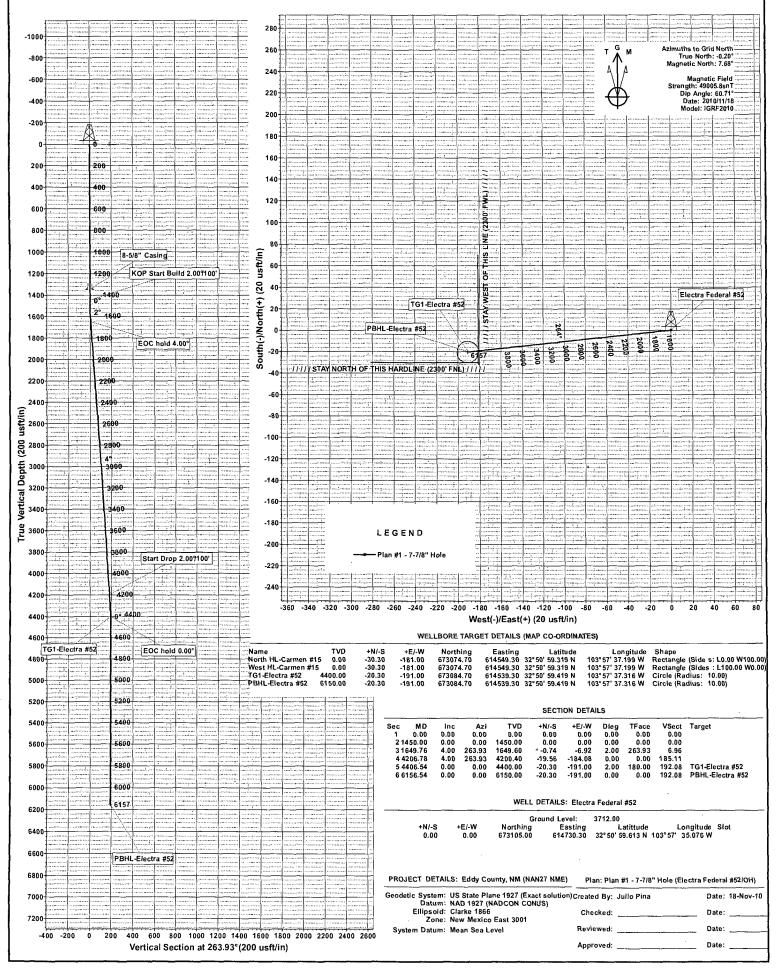


Scientific Drilling for COG Operating LLC Site: Eddy County, NM (NAN27 NME)

Well: Electra Federal #52 Wellbore: OH

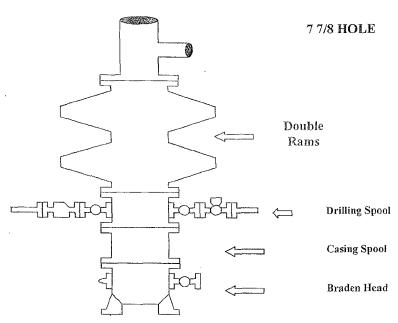
Wellbore: OH Design: Plan #1 - 7-7/8" Hole





COG Operating LLC

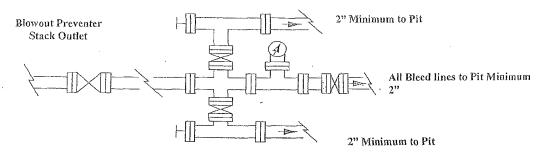
Exhibit #9 BOPE and Choke Schematic



Minimum 4" Nominal choke and kill lines

Choke Manifold Requirement (2000 psi WP) No Annular Required

Adiustable 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