SUM Cortsbad Fletd Office

UNITED STATE			OMB N Expires	o. 1004-0137 March 31, 2007		
DEPARTMENT OF THE	5. Lease Serial No.					
BUREAU OF LAND MA	6. If Indian, Allotee					
BUREAU OF LAND MA APPLICATION FOR PERMIT TO	N/A	of The Name				
la. Type of work: DRILL REEN	TER		7. If Unit or CA Agr N/A	eement, Name and No.		
lb. Type of Well: Oil Well Gas Well Other	Single Zone Multi	ple Zone	8. Lease Name and Dexter Fed			
Name of Operator COG Operating LLC			9. API Well No. 30-015- 3			
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; Gl	Exploratory Iorieta Yeso 96718		
4. Location of Well (Report location clearly and in accordance with a SHL: 1485' FSL & 865' FEL, UL At proposed prod. zone BHL: 1650' FSL & 990' FEL, UL	' I OCATIO		11. Sec., T. R. M. or E Sec 22, T17S,	R30E		
14. Distance in miles and direction from nearest town or post office* 2 miles North of Loco Hills, NM			12. County or Parish Eddy	13. State		
15. Distance from proposed* location to nearest	16. No. of acres in lease	1	ng Unit dedicated to this	·		
(Also to nearest drig. unit line, if any)	120	40	(DIA D I No £1.	·		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 650'	19. Proposed Depth 6300' 650 TVD 22. Approximate date work will sta	20. BLM	/BIA Bond No. on file NMB000215			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3651' GL	22. Approximate date work will sta 10/31/2009	1 ppromise date work was start		23. Estimated duration 10 days		
	24. Attachments					
The following, completed in accordance with the requirements of Onsh	ore Oil and Gas Order No.1, shall be a	ttached to the	his form:			
Well plat certified by a registered surveyor. A Drilling Plan.	4. Bond to cover (Item 20 above).	he operation	ons unless covered by an	existing bond on file (see		
3. A Surface Use Plan (if the location is on National Forest System						
SUPO shall be filed with the appropriate Forest Service Office).		specific in	formation and/or plans as	s may be required by the		
	6. Such other site authorized office Name (Printed/Typed)	specific into	formation and/or plans as	Date		
SUPO shall be filed with the appropriate Forest Service Office).	6. Such other site authorized office	specific into	formation and/or plans as			
SUPO shall be filed with the appropriate Forest Service Office). 25. Signature Title Regulatory Analyst	6. Such other site authorized office Name (Printed/Typed)	specific into	formation and/or plans as	Date		
SUPO shall be filed with the appropriate Forest Service Office). 25. Signature Title Regulatory Analyst Approved by (Signature) Title FIFID MANAGER	6. Such other site authorized office Name (Printed/Typed) Robyn M. Odon Name (Printed/Typed) Office	specific inter.	SBAD FIEL	Date 09/17/2009 Date 10/19/09 D OFFICE		
SUPO shall be filed with the appropriate Forest Service Office). 25. Signature Title Regulatory Analyst Approved by (Signature) Title Application approval does not warrant or certify that the applicant ho conduct operations thereon.	6. Such other site authorized office Name (Printed/Typed) Robyn M. Odon Name (Printed/Typed) Office	specific inter.	SBAD FIEL	Date 09/17/2009 Date 10/19/09 DOFFICE entitle the applicant to		
SUPO shall be filed with the appropriate Forest Service Office). 25. Signature Title Regulatory Analyst Approved by (Signature) Title Application approval does not warrant or certify that the applicant ho conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a	6. Such other site authorized office Name (Printed/Typed) Robyn M. Odon Name (Printed/Typed) Office Color Ids legal or equitable title to those right	ARLS this in the su	SBAD FIEL bjectlease which would APPROVAL I	Date 09/17/2009 Date 10/19/09 DOFFICE entitle the applicant to FOR TWO YEARS		
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SUPO shall be filed with the appropriate Forest Service Office). 25. Signature Title Regulatory Analyst Approved by (Signature) Title Application approval does not warrant or certify that the applicant ho conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a	6. Such other site authorized office Robyn M. Odon Name (Printed/Typed) Robyn M. Odon Name (Printed/Typed) Office Colds legal or equitable title to those right crime for any person knowingly and s to any matter within its jurisdiction. RECEIV MAR 0 8	ARLS tis in the su will fully to 2011	SBAD FIEL bjectlease which would APPROVAL I make to any department SEE ATTA	Date 09/17/2009 Date 10/19/09 DOFFICE entitle the applicant to FOR TWO YEARS or agency of the United ACHED FOR		
SUPO shall be filed with the appropriate Forest Service Office). 25. Signature Title Regulatory Analyst Approved by (Signature) Title Application approval does not warrant or certify that the applicant ho conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a States any false, fictitious or fraudulent statements or representations a	6. Such other site authorized office Robyn M. Odon Name (Printed/Typed) Robyn M. Odon Name (Printed/Typed) Office Colds legal or equitable title to those right crime for any person knowingly and s to any matter within its jurisdiction. RECEIV MAR 0 8	ARLS tis in the su will fully to 2011	SBAD FIEL bjectlease which would APPROVAL I make to any department SEE ATTA	Date 09/17/2009 Date 10/19/09 DOFFICE entitle the applicant to FOR TWO YEARS or agency of the United		
SUPO shall be filed with the appropriate Forest Service Office). 25. Signature Title Regulatory Analyst Approved by (Signature) Title Application approval does not warrant or certify that the applicant ho conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a States any false, fictitious or fraudulent statements or representations a *(Instructions on page 2) Well Controlled Water Basin Mess Surface Casing	Name (Printed/Typed) Robyn M. Odon Name (Printed/Typed) Office Colds legal or equitable title to those right is to any matter within its jurisdiction. RECEIV MAR 0 8 NMOCD AF	ARLS tis in the su will fully to 2011	SBAD FIEL bjectlease which would APPROVAL I make to any department of SEE ATTA CONDITION APPROV	Date 09/17/2009 Date 10/19/09 DOFFICE entitle the applicant to FOR TWO YEARS or agency of the United ACHED FOR ONS OF APPRO		
SUPO shall be filed with the appropriate Forest Service Office). 25. Signature Title Regulatory Analyst Approved by (Signature) Title Application approval does not warrant or certify that the applicant ho conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a States any false, fictitious or fraudulent statements or representations a *(Instructions on page 2) Well Controlled Water Basin	Name (Printed/Typed) Robyn M. Odon Name (Printed/Typed) Office Colds legal or equitable title to those right is to any matter within its jurisdiction. RECEIV MAR 0 8 NMOCD AF	ARLS tis in the su will fully to 2011	SBAD FIEL bject lease which would department of the second	Date 09/17/2009 Date 10/19/09 DOFFICE entitle the applicant to FOR TWO YEARS or agency of the United ACHED FOR ONS OF APPRO		

COG Operating LLC
Master Drilling Plan Revised 6-29-09
Loco Hills; Yeso
Use for Sections 3-30, T-17-S, R-30-E
Eddy County, NM

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'

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

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 back to the surface. Any shallower zones above TD, which contain commercial quantities of oil and/or gas, will have cement circulated across them by cementing 5 1/2" production casing back 200' into the intermediate casing, to be run at TD.

4. Casing Program See COA

			OD					
	Hole Size	Interval	Casing	Weight	Grade	Jt., Condition	Jt.	brst/clps/ten
	17 ½"	0-425'	13 3/8"	48#	H-40orJ-55	ST&C/New	ST&C	9.22/3.943/15.8
ı,	11"or12 1/4"	=0-1-300l	=8- 5 /8"	24or32#===	₩₩₩J-55 - ₩₩	ST&C/New	ST&C	3.03/2.029/7.82
ſ	7 7/8"	0 - ŤD	5 1/2"	15.5or17#	J-55orL-80	LT&C/New	LT&C	1.88/1.731/2.42

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COG Operating LLC Master Drilling Plan Revised 6-29-09 Loco Hills; Yeso Use for Sections 3-30, T-17-S, R-30-E Eddy County, NM

5. Cement Program

13 3/8" Surface Casing:

Class C, 475 sx, yield 1.32, back to surface

8 5/8" Intermediate Casing:

11" Hole: Class C, 300 sx lead, yield-2.45 +

200 sx tail, yield-1.32, back to surface.

12-1/4" Hole: Class C, 600 sx lead, yield-2.45 + 200 sx tail, yield-1.32, back to

surface.

5 1/2" Production Casing:

Class C, 500 sx Lead, yield-2.05+ 400 sx Tail, yield-1.37, to 200' minimum tie back

to intermediate casing.

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) will 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.
1,300'-TD	Cut Brine	8.7-9.1	29	N.C.

See COA

-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.

See COA COG Operating LLC Master Drilling Plan Revised 6-29-09 Loco Hills; Yeso Use for Sections 3-30, T-17-S, R-30-E Eddy County, NM

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. Low levels of hydrogen sulfide have been monitored in producing wells in the area, so H₂S may be present while drilling the well. 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)
Dexter Federal #10
Dexter Federal #10

OH

Plan: Plan #1 - 7-7/8" Hole SHL = 1485' FSL & 865' FEL BHL = 1700' FSL & 980' FEL Top of Paddock 4250' TVD = 1700' FSL & 980' FEL

Standard Planning Report

17 September, 2009





Scientific Drilling

Planning Report



Database: Company: Project:

EDM 5000.1 Single User Db

COG Operating LLC

Eddy County, NM (NAN27 NME)

Dexter Federal #10 Site: Well: Dexter Federal #10

Wellbore: OH.

Plan #1.- 7-7/8" Hole Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Dexter Federal #10,

Ground Elev @ 3651.00ft (Rig ?) Ground Elev @ 3651.00ft (Rig.?)

Grid.

Minimum Curvature

Eddy County, NM (NAN27 NME) Project,

Map System: Geo Datum: Map Zone:

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

New Mexico East 3001

System Datum:

Mean Sea Level

À

Site

Dexter Federal #10

Dexter Federal #10

Site Position:

From:

Мар

Northing: Easting:

661,035.30 ft

Latitude:

32° 49' 0.111 N

Position Uncertainty:

616,693.00 ft

Longitude:

103° 57' 12.578 W

0.00 ft Slot Radius: Grid Convergence:

0.21

Well Well Position

+E/-W

0.00 ft 0.00 ft

Northing: Easting:

661,035.30 ft 616,693.00 ft

0.00

Latitude: Longitude:

32° 49' 0.111 N 103° 57' 12.578 W

Position Uncertainty

0.00 ft

Wellhead Elevation:

Ground Level:

3,651.00 ft

OH Wellbore)

Magnetics) Model Name)

Sample Date IGRF200510 2009/09/17

0.00

Declination (°) 8.00 Dip/Angle (°))

60.73

331.70

Field Strength (nT)

49,133

Plan #1 - 7-7/8" Hole Design **Audit Notes:** PLAN Version: Phase: Tie On Depth: 0.00 Vertical Section: Depth From (TVD)) +N/-S +E/-W/ Direction) (ft)) (ft)) (ft)) (°))

Plan Sections			بيديد كالكاربيسال تعدد			and the same of th				of the same of the
Measured) Depth) (ft))	Inclination) (°))	Azlimuth) (°))	Vertical) Depth) (ft))	+N/-S) (ft))	+E/-W) (ft))	Dogleg) Rate) ((*//100ft))	Build) Rate) (*//100ft))	Turn) Rate) (°//100ft))	TEO) (?))	Target)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,375.00	0.00	0.00	1,375.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,642.11	5.34	331.70	1,641.72	10.96	-5.90	2.00	2.00	0.00	331,70	
3,993.88	5.34	331.70	3,983.28	203.74	-109.70	0.00	0.00	0.00	0.00	
4,260.99	0.00	0.00	4,250.00	214.70	-115.60	2.00	-2.00	0.00	180.00	TG1-Dexter #10
6,160.99	0.00	0.00	6,150.00	214.70	-115.60	0.00	0.00	0.00	0.00	PBHL-Dexter #10

0.00



Scientific Drilling

Planning Report



Database: Company: Project: Site: Well:

Wellbore:

Design:

EDM 5000 1 Single User Db COG Operating LLC

Eddy County, NM (NAN27 NME)

Dexter Federal #10 Dexter Federal #10 OH

Plan #1 = 7-7/8" Hole

Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference: Survey Calculation Method: Site Dexter Federal #10 Ground Elev @ 3651.00ft (Rig.?) Ground Elev @ 3651.00ft (Rig.?)

Minimum Curvature

lanned Survey		ينست التصيي							
			·	\$1.5			1.321		
Measured	Straight For		Vertical			Vertical	Dogleg,	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S)	+E/-\W	Section	Rate	Rate	Rater
(ft)	(°))	(°))	(ft))	(ft))	, (ft))	(ft);	(?//100ft))	(°//100ft))	(°//100ft))
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
South HL-Dex	ter #10 - Éast H	L-Dexter #10							"快点" 透粉样
1,275.00	0.00	0.00	1,275.00	0.00	0.00	0.00	0.00	0.00	0.00
8 5/8" Casing	6.8	1.3	The State of the S	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		Strain .	Carrier 184	A Section	
1,375.00	0.00	0.00	1,375.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start Bùi	ld 2:00°/100'	Control of GASA Services	igas (a. 1694)	North Advisor	ar naid i	5 - 1 - 1 - 1 - 1 - 1 - 1	tin ciff we		
1,400.00	0.50	331.70	1,400.00	0.10	-0.05	0.11	2.00	2.00	0.00
1,500.00	2.50	331.70	1,499.96	2.40	-1.29	2.73	2.00	2.00	0.00
•									
1,600.00	4.50	331.70	1,599.77	7.78	-4.19	8.83	2.00	2.00	0.00
1,642.11	5.34	331.70	1,641.72	10.96	-5.90	12.44	2.00	2.00	0.00
EOC hold 5.34				Consideration	*. S		¥		Maria ya Kabupa
1,700.00	5.34	331.70	1,699.36	15.70	-8.45	17.83	0.00	0.00	0.00
1,800.00	5.34	331.70	1,798.93	23.90	-12.87	27.14	0.00	0.00	0.00
1,900.00	5.34	331.70	1,898.49	32.10	-17.28	36.45	0.00	0.00	0.00
2,000.00	5.34	331.70	1,998.06	40.29	-21.70	45.76	0.00	0.00	0.00
2,100.00	5.34	331.70	2,097.62	48.49	-26.11	55.07	0.00	0.00	0.00
2,200.00	5.34	331.70	2,197.19	56.69	-30.52	64.38	0.00	0.00	0.00
2,300.00	5.34	331.70	2,296.76	64.89	-34.94	73.69	0.00	0.00	0.00
2,400.00	5.34	331.70	2,396.32	73.08	-39.35	83.01	0.00	0.00	0.00
2,500.00	5.34	331.70	2,495.89	81.28	-43.76	92.32	0.00	0.00	0.00
2,600.00	5.34	331.70	2,595.45	89.48	-48.18	101.63	0.00	0.00	0.00
2,700.00	5.34	331.70	2,695.02	97.68	-52.59	110.94	0.00	0.00	0.00
2,800.00	5.34	331.70	2,794.58	105.87	-57.01	120.25	0.00	0.00	0.00
2,900.00	5.34	331.70	2,894.15	114.07	-61.42	129.56	0.00	0.00	0.00
3,000.00	5.34	331.70	2,993.72	122.27	-65.83	138.87	0.00	0.00	0.00
3,100.00	5.34	331.70	3,093,28	130.47	-70.25	148.18	0.00	0.00	0.00
3,200.00	5.34	331.70	3,192.85	138.67	-74.66	157.49	0.00	0.00	0.00
3,300.00	5.34	331.70	3,292.41	146.86	-79.07	166.80	0.00	0.00	0.00
3,400.00	5.34	331.70	3,391.98	155.06	-83.49	176.11	0.00	0.00	0.00
3,500.00	5.34	331.70	3,491.54	163.26	÷87.90	185.42	0.00	0.00	0.00
3,600,00	5.34	331.70	3,591,11	171.46	-92.32	194.73	0.00	0.00	0.00
3,700.00	5.34	331.70	3,690.67	179.65	-96.73	204.04	0.00	0.00	0.00
3,800.00	5.34	331.70	3,790.24	187.85	-101.14	213.35	0.00	0.00	0.00
3,900.00	5.34	331.70	3,889.81	196.05	-105.56	222.66	0.00	0.00	0.00
3,993.88	5.34	331.70	3,983.28	203.74	-109.70	231.40	0.00	0.00	0.00
Start Drop 2.00					50.0	4 BWB .			5.55 5.55 1.85
4,000.00	5.22	331.70	3,989.37	204.24	-109.97	231.96	2.00	-2.00	0.00
4,100.00	3.22	331.70	4,089.10	210.72	-113.46	239.32	2.00	-2.00	0.00
4,200.00	1.22	331.70	4,189.02	214.13	-115.29	243.19	2.00	-2.00	0.00
4,260.99	0.00	0.00	4,250.00	214.70	-115.60	243.84	2.00	-2.00	0.00
EOC hold 0.00	- TG1-Dexter	¥10							
6,160.99	0.00	0.00	6,150.00	214.70	-115.60	243.84	0.00	0.00	0.00
PBHL-Dexter #	10	.*			.54				*



Scientific Drilling

Planning Report



Database: Company: Project: Site:

Well:

EDM 5000.1 Single User Db COG Operating LLC

Eddy County, NM (NAN27 NME)

Dexter Federal #10 Dexter Federal #10

OH.

Wellbore: Design:

Plan #1 - 7-7/8" Hole

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Dexter Federal #10

Ground Elev @ 3651.00ft (Rig.?)

Ground Elev @ 3651.00ft (Rig.?) Grid

Minimum Curvature

Design: Targets:							and the same of	-	
Target:Name - hit/miss:target Di - Shape	p:Angle (°)	Dip Dir. (°))	TV(D) (ft))	+N/-S; (ft)	+E/-W/ .(ft))	Northing (ft)	Easting (ft))	<u> </u> Latitude⊢	Longitude)
South HL-Dexter #10 - plan misses target cent - Rectangle (sides W200			0.00 t MD (0.00 T	164.70 VD, 0.00 N,	-125.60 0.00 E)	661,200.00	616,567.40	32° 49' 1.746 N	103° 57' 14.042 W
East HL-Dexter #10 - plan misses target central - Rectangle (sides W0.0		.13ft at 0.00ft	0.00 t MD (0.00 T	164.70 VD, 0.00 N,	-125,60 0.00 E)	661,200.00	616,567.40	32° 49′ 1.746 N	103° 57' 14.042 W
TG1-Dexter #10 - plan hits target center - Circle (radius 50.00)	0.00	0.00	4,250.00	214.70	-115.60	661,250.00	616,577.40	32° 49' 2.240 N	103° 57' 13.923 W
PBHL-Dexter #10 - plan hits target center - Circle (radius 50.00)	0.00	0.00	6,150.00	214.70	-115.60	661,250.00	616,577.40	32° 49′ 2.240 N	103° 57' 13.923 W

Casing, Points	The same of a column to	Acres (construction of the second of the sec			and the second s		market and second - Francisco		
	Measured	Vertical					Casing	Hole)	
	Depth	Depth	•			•	Diameter	Diameter	1 1 1 1 1 1 1
	(ft))	(ft))	<u> </u>	Name)			(j'))	((''))	
	1,275.00	1,275.00	8 5/8" Casing				8-5/8	12-1/4	

Plan Annotations	and the same of th	alimate physical security and the second	- dan marijan managan dan marijan dan	
Measur	ed Vertica	al) Locali	Coordinates	
Depth	Depth	+N/-S)	+E/-W)	
(ft))	(ft))	(ft))	(ft))	Comment
1,375	.00 1,375	5.00 0.00	0.00	KOP Start Build 2.00°/100'
1,642	.11 1,641	1.72 10.96	-5.90	EOC hold 5.34°
3,993	.88 3,983	3.28 203.74	-109.70	Start Drop 2.00°
4,260	.99 4,250	0.00 214.70	-115.60	EOC hold 0.00°



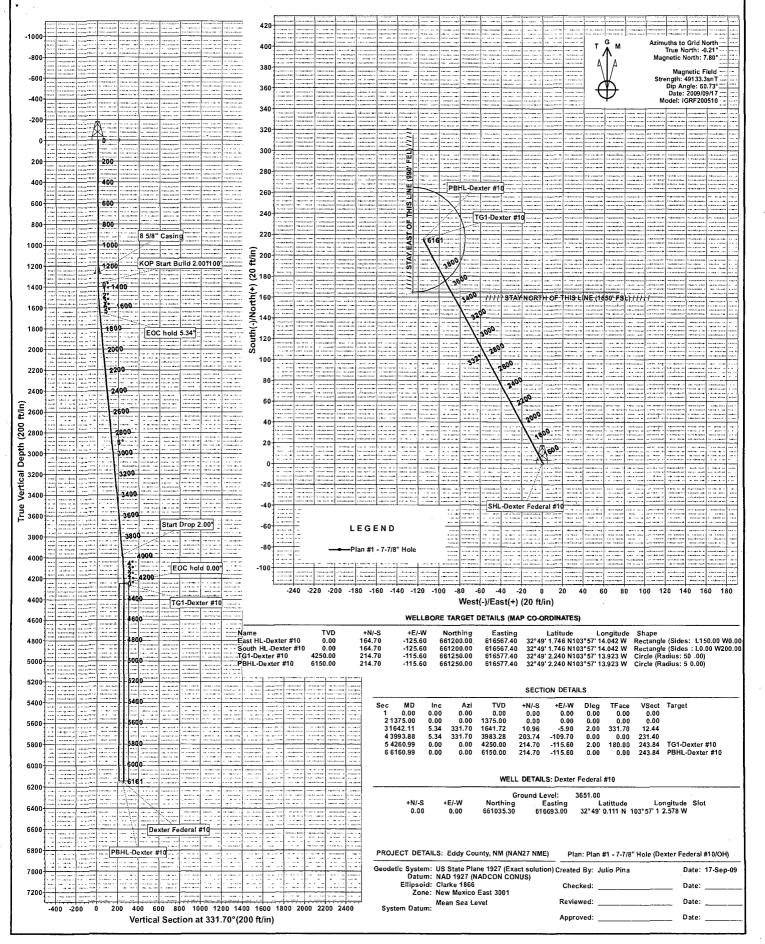
Scientific Drilling for COG Operating LLC Site: Eddy County, NM (NAN27 NME)

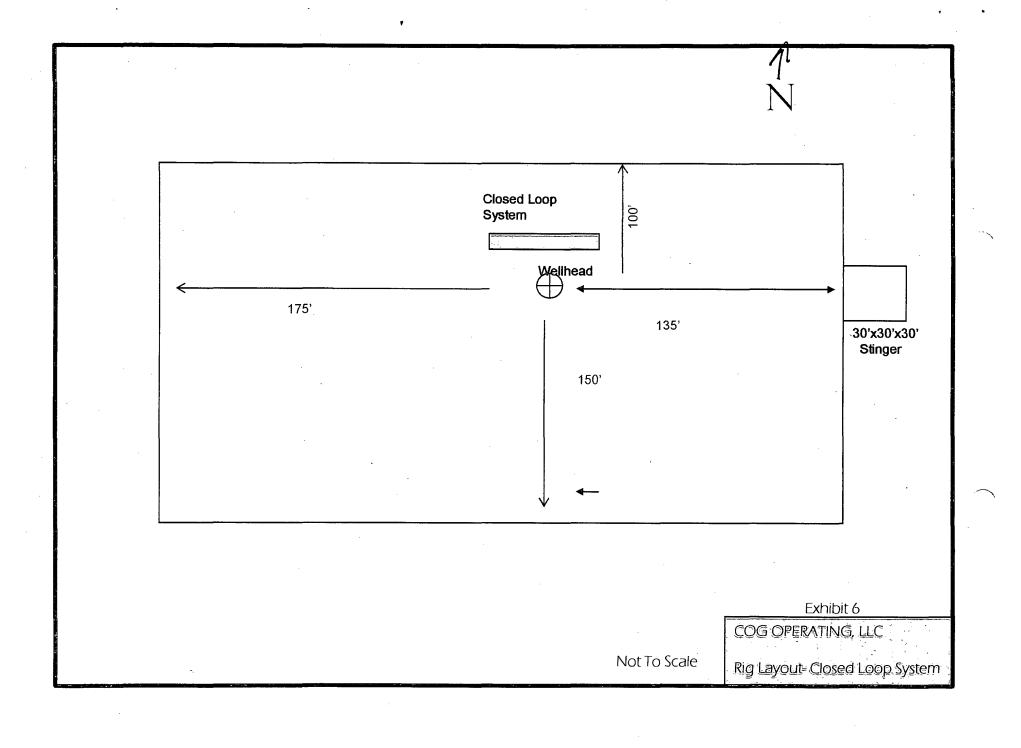
Well: Dexter Federal #10

Wellbore: OH

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

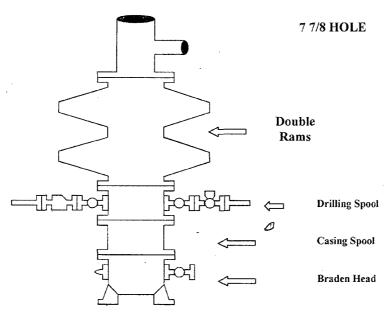






COG Operating LLC

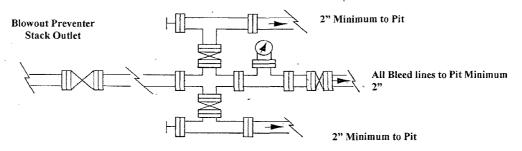
Exhibit #9 BOPE and Choke Schematic



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