OCD-ARTESIA

FORM APPROVED Form 3160-3 OMB No 1004-0137 Expires March 31, 2007 (April 2004) UNITED STATES Lease Serial No. DEPARTMENT OF THE INTERIOR SL:LC-028731B; BL:LC-0068722 BUREAU OF LAND MANAGEMENT If Indian, Allotee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER 7 If Unit or CA Agreement, Name and No **✓** DRILL REENTER Type of work 8. Lease Name and Well No Type of Well. Oil Well Gas Well Single Zone Multiple Zone SUBMARINE 10 FED COM #3H \angle 9 API Well No. Name of Operator COG Operating LLC 30-015-3b Phone No. (include 10 Field and Pool, or Exploratory 3a. Address 550 W. Texas Ave., Suite 100 Dodd; Glorieta-Upper Yeso Midland, TX 79701 432-685-4384 11. Sec, TRM or Blk and Survey or Area Location of Well (Report location clearly and in accordance with any State requirements.*) SHL: 1605' FNL & 85' FEL, Unit H At surface Sec 10 T17S R29E At proposed prod zone BHL: 1650' FNL & 330' FWL, Unit E 12 County or Parish 13 State 14 Distance in miles and direction from nearest town or post office* EDDY 2 miles from Loco Hills, NM NM Distance from proposed* 16 No of acres in lease 17 Spacing Unit dedicated to this well location to nearest property or lease line, ft (Also to nearest drig unit line, if any) 85 SHL: 1480 BHL: 160 160 20 BLM/BIA Bond No on file Distance from proposed location* to nearest well, drilling, completed, 19 Proposed Depth 170 TVD: 5200' MD: 9868' NMB000740; NMB000215 applied for, on this lease, ft 22 Approximate date work will start* Elevations (Show whether DF, KDB, RT, GL, etc.) 23 Estimated duration 3627' GL 06/30/2012 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. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above) 2 A Drilling Plan. A Surface Use Plan (if the location is on National Forest System Lands, the Operator certification SUPO shall be filed with the appropriate Forest Service Office). Such other site specific information and/or plans as may be required by the authorized officer 25 Signature Name (Printed/Typed) Date Kellý J. Holly 04/04/2012 Title Permitting Tech Name (Printed/Typed) Approved by (Signature) Is/ Don Peterson JUL 2 6 2012 FIELD MANAGER Office Title 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 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

JUL 3 0 2012

NMOCD ARTES!A

*(Instructions on page 2)

Roswell Controlled Water Basin

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Approval Subject to General Requirements & Special Stipulations Attached Surface Use Plan COG Operating, LLC

Submarine 10 Federal Unit #3H

SL: 1605' FNL & 85' FEL BHL: 1650' FNL & 330' FWL UL H UL E

Section 10, T-17-S, R-29-E Eddy County, New Mexico

I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access road proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements make in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or COG Operating, LLC, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements. Executed this 15th day of December, 2011.

Signed:

Printed Name: Carl Bird

Position: Drilling Engineer

Address: 550 W. Texas, Suite 1300, Midland, Texas 79701

Telephone: (432) 683-7443

Field Representative (if not above signatory): Same

E-mail: cbird@conchoresources.com

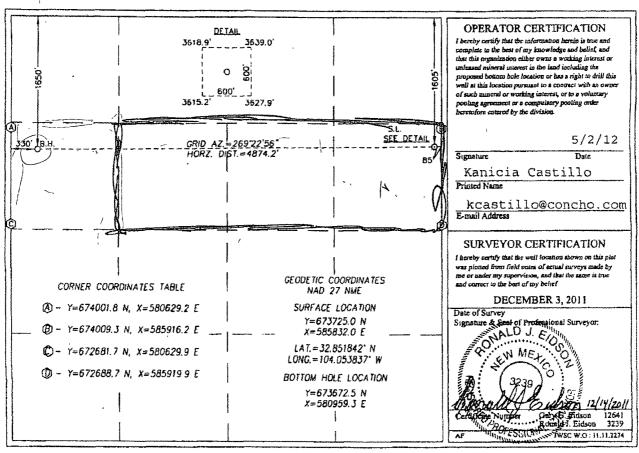
DISTRICT | 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 DISTRICT II 8115. Fire St., Artesia, NM 88210 Phone. (575) 748-1283 Fax: (575) 748-9720 DISTRICT EU
1000 Rio Brazos Road, Azier, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170 DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (503) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

CIAMENDED REPORT

		WEL			ND ACKEA	AGE DEDICA	~~		
30-015	PI Number	-43		Pool Code 7917		Doc	Pool Nam dd-Glorie	ta-Upper :	leso .
39757	/	Property Name Weli Number SUBMARINE 10 FEDERAL COM. 3H							
ograb 2291		Operator trans-							
					Surface Locati	on	W. (free free free free free free free fre		
UL or let No.	Section	Township	Range	Let ldn	Feet from the	North/South line	Feet from the	East/West line	County
Н	10	17-8	29-E		1605	NORTH	85	EAST	EDDY
				Bottom Hol	e Location If Diffe	rent From Surface	·····	\$	·
UL or lot No.	Section	Township	Range	Lot Ide	Feet from the	North/South line	Feet from the	East/West line	County
E	10	17-S	29-E		1650	NORTH	330	WEST	EDDY
Dedicated Agres Joint or Infill Consolidation Code Order No									
io allowable w	TILL BE ASSIG	NED TO THIS CO	MPLETION UN	TTL ALL INTE	RESTS HAVE BEEN C	ONSOLIDATED OR A 1	YON-STANDARD UNI	T HAS BEEN APPROVI	ED BY THE DIVISI
	DETAIL OPERATOR CERTIFICATION JEEUR O' 35 NO.' DETAIL OPERATOR CERTIFICATION Liverby certify that the information herein is true and								



1625 N. Franch Dr., Hobbs, NM 882,40 Phone: (575) 393-6161 Fax. (575) 393-0720 DISTRICT II 811 S. Firer St., Arteria, NM 88210 Phone: (573) 748-1281 Fax: (573) 748-9720 DISTRICT III 1000 Rio Breuzes Road, Aztoc, NM 87410 Phone: (505) 334-6178 Pax: (505) 334-6170 DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 67505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

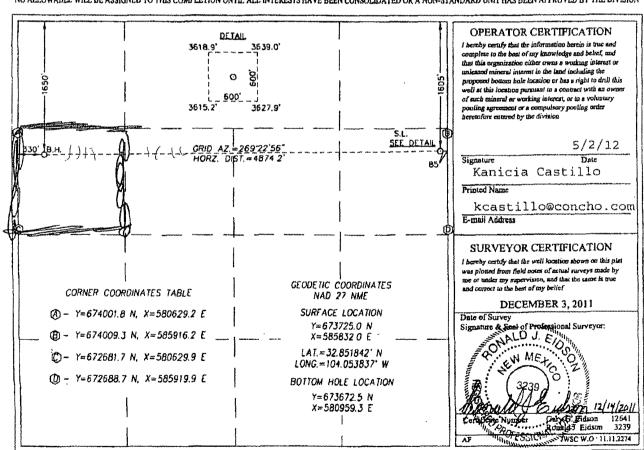
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-01	Number of State of St	Pool Code 28509 9660 Empire Grayburg Jackson; SR Q G SA Property Name Well Number					S-SA-		
O Property C	が				Property Name		y,	W	ell Number
576-5			SU	JBMAR	INE 10 FED	DERAL COM			3H
OGRID 1					Operator Nam				Elevation
22313) /			COC	OPERATI	NG, LLC			3627'
	Surface Location								
UL or loi No.	. Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
H	10	17-S	29-E		1605	NORTH	85	EAST	EDDY
				Bottom Hol	e Location If Diffe	rent From Surface			
UL or lot No	Section	Township	Range	Loi lda	Feet from the	North/South line	Feet from the	East/West line	County
E	10	17-S	17-S 29-E 1650 NORTH 330 WEST ED						EDDY
Dedicated Acres	Joint or	infill Consolidation Code Order No.						<u></u>	
100 H	Tyo								

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



DISTRICT I 1625 N French Dr , Hobbs, NM 88240 Phone. (575) 393-6161 Fax: (575) 393-0720 DISTRICT II

811 S. First St., Artesia, NM 88210 Phone (575) 748-1283 Fax (575) 748-9720 DISTRICT III

1000 Rto Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax. (505) 334-6170

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone. (505) 476-3460 Fax (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

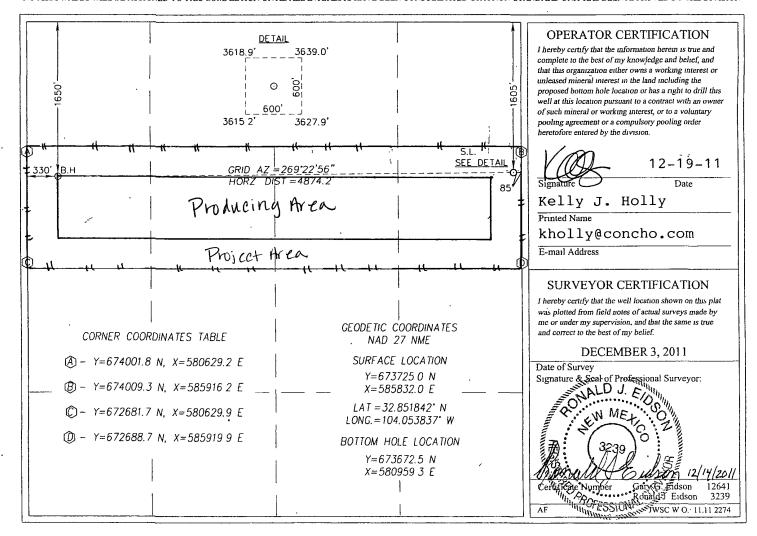
API Number 30-015 70543	Pool Code 97917	Pool Nam Dodd; Glorieta-Upper	
Property Code 39252	SUBMARINE 10	Well Number 3H	
OGRID No. 229137		ator Name RATING, LLC	Elevation 3627'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Н	10	17-S	29-E		1605	NORTH	85	EAST	EDDY
	Bottom Hole Location If Different From Surface								

				2011011111101					
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Е	10	17-S	29-E	1	1650	NORTH	330	WEST	EDDY
Dedicated Acres	Joint or	Infill C	Consolidation C	ode Ord	er No.				

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez

Governor

John H. Bemis Cabinet Secretary

Brett F. Woods, Ph.D. Deputy Cabinet Secretary



Administrative Order DHC-4564

Order Date: 5/9/2012

Application Reference Number: pWVJ1213036056

COG OPERATING LLC 550 W TEXAS, SUITE 100 MIDLAND, TX 79701

Attention: Kanicia Castillo

Submarine 10 Federal Com Well No. 3H

API No: 30-015-NA

Unit H. Section 10, Township 17 South, Range 29 East, NMPM

Eddy County, New Mexico

Pool: Names: DODD;GLORIETA-UPPER YESO OII 97917

UNDES. EMPIRE; GLORIETA-YESO, EAST Oil 96610

Reference is made to your recent application for an exception to 19.15.12.9A NMAC of the Division Rules and Regulations to permit the above-described well to commingle production from the subject pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of 19.15.12.11A NMAC, and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion or otherwise required separation of the zones is hereby placed in abeyance.

In accordance with 19.15.12.11A.(6) NMAC, the production attributed to any commingled pool within the well shall not exceed the allowable applicable to that pool.

Assignment of allowable and allocation of production from the well shall be as follows:

DODD;GLORIETA-UPPER YESO Pool	Pct Gas: 75	Pct Oil: 75
UNDES: EMPIRE; GLORIETA-YESO, EAST Pool	Pct Gas: 25	Pct Oil: 25

REMARKS: The operator shall notify the Division's district office upon implementation of commingling operations.

Pursuant to 19.15.12.11B NMAC, the commingling authority granted herein may be rescinded by the Division Director if conservation is not being best served by such commingling.

JAMPBAILEY

Director

JB/wvjj

cc: Oil Conservation Division - Artesia

Bureau of Land Management - Carlsbad

PLANT 1213036056 ENGNEER



		NEW MEXICO OIL CONSERVATE - Engineering Burea		ION AND		
		1220 South St. Francis Drive, Santa				
		ADMINISTRATIVE APPLI	CATION	CHECKLIST	r	
7	'HIS CHECKLIST IS A	IANDATORY FOR ALL ADMINISTRATIVE APPLICATI WHICH REQUIRE PROCESSING AT THE	ONS FOR EXCEPTI	ONS TO DIVISION RUL	ES AND REGULAT	IONS
Appli	IDHC-Dow IPC-Po		oration Unit) [nmingling) [P orage] [OLM ressure Mainte injection Press	SD-Simultaneous LC-Pool/Lease Co -OM-Lease Measu mance Expansion	mmingling) rement)]	
[1]	TYPE OF A	PPLICATION - Check Those Which Ap	ply for [A]	Submarine 10) Federal	Com Lease
	[A]	Location - Spacing Unit - Simultaneou NSL NSP SD	s Dedication	Eddy Count	-	
				Section 10		E
	Checl [B]	c One Only for [B] or [C] Commingling - Storage - Measuremen ☐ DHC ☐ CTB ☐ PLC ☐		OGRID # 22	29137	
	[C]	Injection - Disposal - Pressure Increase				
	[D]	Other: Specify				
[2]	NOTIFICAT [A]	TION REQUIRED TO: - Check Those V Working, Royalty or Overriding F			у	
	[B]	Offset Operators, Leaseholders or	Surface Owner	•		
	. [C]	Application is One Which Requir	es Published Le	egal Notice		
	[D]	Notification and/or Concurrent A	pproval by BLN of Public Lands, State L	A or SLO		
	[E]	For all of the above, Proof of Not	ification or Pub	lication is Attache	d, and/or,	
	[F]	Waivers are Attached	•			
[3]		CURATE AND COMPLETE INFOR ATION INDICATED ABOVE.	MATION RE(QUIRED TO PRO	CESS THE	ГҮРЕ
	oval is accurate	TION: I hereby certify that the informal and complete to the best of my knowledgequired information and notifications are	e. I also unders	stand that no actio	n for administr n will be taken	ative on this
	Note	e: Statement must be completed by an individua	il with managerial	and/or supervisory ca	pacity.	
Kar	nicia Casti	1110	Lead	Regulatory	Analyst	5/2/12
Print	or Type Name	Signature	Title		Dat	e
_			******	stillo@conc	ho.com	
			e-mai	l Address		

District I ISUK, French lieber, I books, and 18240

District II ELLS FEELN, Annia NM \$4210

District []]
[MO RE: Blaure Road Affec, NM \$7410

District IV

State of New Mexico Energy, Minerals and Natural Resources Department

Oli Conservation Division 1220 South St. Francis Dr. Santa Fc, New Mexico 87505

Form C-107A Revised August 1, 2011

APPLICATION TYPE

X Single Well
Establish Pre-Approved Pools
EXISTING WELLBORE

(220% St. Francis Dr. Sonia to that A7505	APPLICATION FOR D	OWNHOLE COMMINGLING	Yes A No			
COG Operating LLC	550 West Texas		dland, TX 79701			
Submarine 10 Federa	l Com #3H H, 10,	1) (~~4	56 T Eddy County			
OGRID No. 229137 Property Cod			,			
DATA ELEMENT	UPPER ZONE	LOWER ZONE				
Pool Name Dodd-G1	orieta-Upper Yeso	Grayburg Jackson; SR				
Pool Code	97917	28509				
Top and Boltom of Pay Section (Perforated or Open-Hole Interval)	4008 - 5355	4008 - 5355				
Method of Production (Flowing or Artificial Lift)	Artificial Lift	Artificial Lift				
BOHOMPHOLE Pressure those Pressure that the required (fine history performancies the knows zone in white 150% of the depth of the aim performancies the upper zone)						
Oil Gravity or Gas BTU						
Producing, Shut-In or New Zone	New Zone	New Zone				
Date and Oil/Gas/Water Rates of Last Production. (Note for saw seen with no production beauty.)	Dote:	Date:	Date:			
estamones and indicating gues:	Rates.	Rates:	Rates.			
Fixed Allocation Percentage	Oil Gas	Gil Gas	Oil Gas			
than current or pace production, acopyanting chie or a thousand will be required.)	75 % 75 %	25 % 25 %	% %			
L mais december of the control of th	ADDIT(O	NAL DATA				
Are all working, royalty and overriding If not, have all working, royalty and ov			Yes X No Yes No			
Arc all produced fluids from all commi	ngled zones compatible with each (other?	Yes X No			
Will commingling decrease the value of	f production?		YesNo_X			
If this well is on, or communitized with or the United States Bureau of Land M			Yrs_X No			
NMOCD Reference Case No applicab	le to this well.					
Attachments: C-102 for each zone to be commingled showing its spacing unit and acroage dedication. Production curve for each zone for at least one year. (If not available, attach explanation.) For zones with no production history, estimated production rates and supporting data. Data to support allocation method or formula. Notification list of working, royally and overriding royalty interests for uncommon interest cases. Any additional statements, data or documents required to support commingling.						
	PRE-APPRO	OVED POOLS				
If application is	ta establish Pre-Approved Pools, t	he following additional information w	ill pe tedniteq.			
List of other orders approving downhole commingling within the proposed Pre-Approved Pools List of all operators within the proposed Pre-Approved Pools Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application. Bottomhole pressure data						
I hereby certify that the information above is true and complete to the best of my knowledge and behef.						
SIGNATURE TITLE ead Regulatory Analysbate 5/02/12						
TYPE OR PRINT NAME Kani	cia Castillo	TELEPHONE NO (432 (665-4332			
E-MAIL ADDRESS kcastillo@concho.com						

ATTACHMENT TO FORM 3160-3 COG Operating, LLC SUBMARINE 10 FEDERAL COM #3H SHL: 1605' FNL & 85' FEL, Unit H BHL: 1650' FNL & 330' FWL, Unit E

Sec 10, T17S, R29E **Eddy County, NM**

1. Proration Unit Spacing: 160 Acres

2. Ground Elevation: 3627'

3. Proposed Depths: Horizontal TVD = 5200', MD =9868'

4. Estimated tops of geological markers:

Quaternary	Surface
Rustler	300'
Top of Salt	450'
Base of Salt	800'
Yates	958'
Seven Rivers	1232'
Queen	1824'
Grayburg	2236'
San Andres	2530'
Glorieta	3948'
Paddock	4008'
Blinebry	4410'
Tubb	5355'

5. Possible mineral bearing formations:

Water Sand	150'	Fresh Water
Grayburg	2236'	Oil/Gas
San Andres	2530'	Oil/Gas
Glorieta	3948'	Oil/Gas
Paddock	4008'	Oil/Gas
Blinebry	4410'	Oil/Gas
Tubb	5355'	Oil/Gas

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Setting 13 3/8" casing to 400 and circulating cement back to the surface will protect the surface fresh water sand. The Salt Section will be protected by setting 9 5/8" casing to 1350' and circulating cement, in a single or multi-stage job and/or with an ECP, back to the surface. Any see (27) 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 7" x 5 1/2" production casing back 200' into the intermediate casing (although cement volume is actually calculated to surface), 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.

ATTACHMENT TO FORM 3160-3 COG Operating, LLC SUBMARINE 10 FEDERAL COM #3H Page 2 of 4

6. Casing Program - Proposed

	Hole size	_lnterval	OD of Casing	Weight	Cond.	Collar	Grade
SEC SA	17-1/2" Collapse sf -	<i>225</i> 0' - +/-400' - 4.36, Burst sf – 9	13-3/8" 9.79, Tension sf	48# – 16.77	New	STC	H-40 or Hybrid J-55
		0' - +/-1350' - 3.16, Burst sf – {	9-5/8" 5.51, Tension sf	36# 9.32	New	STC	J/K-55
	7" Csg - Coll	3" 0' 9868' apse sf 2.42, Bu ollapse sf 2.55,	urst sf – 1.94, Te			LTC	L-80

Production string will be a tapered string with 7" 26# L-80 LTC ran from surface to kick off point and then crossed over to $5 \frac{1}{2}$ " 17# L-80 LTC.

7. Cement Program See Color

13 3/8" Surface Csg: Set at +/- 400'MD: 400sx Class "C" w/ 2% CaCl2 & 0.25 pps CF, yield 1.32 cu.ft./sk., wt. 14.8 ppg. 190% excess, calculated to surface.

9 5/8" Intrmd. Csg: Set at +/- 1350'MD.

Option #1: Single Stage (TD to Surface): Lead Slurry: 300 sx 50:50:10:C:Poz:Gel w/ 5% salt, 5 pps LCM-1, 0.25 pps CF, yield 2.45 cu.ft./sk., wt. 14.8 ppg. Tail Slurry: 200 sx Class "C" w/ 2% CaCl2, yield 1.32 cu.ft./sk., wt. 14.8 ppg. 185% excess, calculated to surface.

Option #2: Multi Stage: Stage 1 (TD to DV Tool @ 450"): 200 sx Class "C" w/ 2% CaCl2, yield 1.32 cu.ft./sk., wt. 14.8 ppg. 45% excess. Stage 2 (DV Tool to surface): 300 sx 50:50:10:C:Poz:Gel w/ 5% salt, 5 pps LCM-1, 0.25 pps CF, yield 2.45 cu.ft./sk., wt. 14.8 ppg. calculated to surface, 185% excess; assumption for tool is lost circulation. Multi stage tool to be set at approximately, depending on hole conditions, 450' (50' below the surface casing). Cement volumes will be adjusted proportionately for depth changes of multi stage tool.

7" x 5 1/2" Production Csq: Set at +/- 9868'MD.

Option #1: <u>Single Stage (KOP to surface)</u>: <u>Lead Slurry</u>: 400 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 2.01 cu.ft./sk., wt. 12.5 ppg. <u>Tail Slurry</u>: 300 sx 50:50:2:C:Poz:Gel w/ 5% salt, 3 pps LCM, 0.6% SMS, 1% FL-25, 1% BA-58, 0.125 pps CF, 0.3% FL-52A; yield 1.37 cu. ft./sk., wt. 14.0 ppg. DV Tool and ECP to be set at kick off point with 7" cemented to surface and 5 ½" run with +/- 18 isolation packers and sliding sleeves in uncemented lateral. 95% excess in open hole, from kick off point, calculated to surface. **This is a minimum volume and will be adjusted up after caliper is run**.

Option #2: Multi Stage (DV Tool & ECP (external csg. Packer)@ KOP and DV Tool at 3000'): Stage 1:(KOP to Dv Tool at 3000'): 200 sx 50:50:2:C:Poz:Gel w/ 5% salt, 3 pps LCM, 0.6% SMS, 1% FL-25, 1% BA-58, 0.125 pps CF, 0.3% FL-52A; yield 1.37 cu.ft./sk., 14.00 ppg. 6% excess. This is a minimum volume and will be adjusted up after caliper is run. Stage 2: Lead Slurry: 400 sx 50:50:2:C:Poz:Gel w/ 5% salt, 3 pps LCM, 0.6% SMS, 1% FL-25, 1% BA-58, 0.125 pps CF, 0.3% FL-52A; yield 1.37 cu.ft./sk., wt.14.0 ppg. Tail Slurry: 300 sx Class C w/ 0.3% R-3 + 1.5% CD-32, yield 1.02 cu.ft./sk., wt. 16.6 ppg. 154% excess calculated back to surface (no need for excess in casing overlap). This is a minimum volume and will be adjusted up after caliper is run.

ATTACHMENT TO FORM 3160-3 COG Operating, LLC SUBMARINE 10 FEDERAL COM #3H Page 3 of 4

You will note that in option #2 the Multi stage tool (DV Tool) will be set at approximately 3000', depending on hole conditions. Cement volumes will be adjusted proportionately for depth changes of multi stage tool; assumption for use of tool is water flow.

8. Pressure Control Equipment:

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" BOP will be used during the drilling of the well. A 13 5/8" permanent casing head will be installed on the 13 3/8" casing. The BOP will be nippled up on the 13 5/8" permanent casing head and tested to 2000 psi. After setting 9-5/8", permanent "B section" well head will be installed and the BOP will then be nippled up on the permanent B section well head 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.

9. Proposed Mud Circulating System

Interval	Mud Wt.	Visc.	FL	Type Mud System
0' - 496' 225	8.5	28	NC	Fresh water native mud w/ paper for seepage and sweeps. Lime for PH.
400'- 1350'	10	30	NC	Brine mud, lime for PH and paper for seepage and sweeps.
1350'- 9868'	9.1	. 29	NC	Drill section with fresh water/cut brine circulating the reserve utilizing periodic sweeps of paper as needed for seepage control and solids removal.

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

10. Production Hole Drilling Summary:

Drill 8 ¾" hole and kick off at +/- 4723', building curve over +/- 750' to horizontal at 5200' TVD. Drill 7 7/8" lateral section in a westerly direction for +/-4395' lateral to TD at +/-9868' MD, 5200' TVD. Run 7" x 5-1/2" production casing. 7" to be ran from surface to kickoff point and changed over to 5 ½" with DV Tool and ECP at kickoff point. 5 ½" casing will be ran from kickoff point to td and isolation packers set throughout lateral. 7" to be cemented from kickoff point to surface.

11. 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.

ATTACHMENT TO FORM 3160-3 COG Operating, LLC SUBMARINE 10 FEDERAL COM #3H Page 4 of 4

12. Logging, Testing and Coring Program:

- A. No electric logs to be run.
- B. The mud logging program will consist of lagged 10' samples from intermediate casing point to T.D. in vertical pilot hole and from Kick off point to TD in Horizontal hole.
- C. Drill Stem test is not anticipated.
- D. No conventional coring is anticipated.
- E. Further testing procedures will be determined after the 7" x 5 ½" production casing has been cemented at TD based on drill shows and log evaluation.

13. Abnormal Conditions, Pressures, Temperatures and Potential Hazards:

No abnormal pressures or temperatures are anticipated. The estimated bottom hole temperature at TD of pilot hole is 90 degrees and estimated maximum bottom hole pressure is 1800 psig. Measurable gas volumes or Hydrogen Sulfide levels have not been encountered during drilling operations in this area, however an H2S plan is attached to the Drilling Program. No major loss of circulation zones has been reported in offsetting wells.

14. Anticipated Starting Date

Drilling operations will commence approximately on $\underline{June\ 30,\ 2012}$ with drilling and completion operations lasting approximately $\underline{90}$ days.



COG Operating LLC

Eddy County, NM (NAN27 NME) Submarine 10 Federal Com #3H Submarine 10 Federal Com #3H

OH

Plan: Plan #2 8-3/4" Hole SHL = 1605' FNL & 85' FEL PP = 1608' FNL & 330' FEL BHL = 1650' FNL & 330' FWL

Standard Planning Report

23 January, 2012





SDIPlanning Report



Database: EDM 5000 1 Single Uşer Db Site Submarine 10 Federal Com #3H Local Co-ordinate Reference COG Operating LLC GL Elev @ 3627 00usft Company: TVD Reference: GL Elev @ 3627 00usft Project. Eddy County, NM (NAN27 NME) MD Reference: Site: Well: Submarine 10 Federal Com #3H North Reference: Ġrid' Submarine 10 Federal Com #3H Survey Calculation Method Minimum Curvature Wellbore: OH, Plan #2 8-3/4" Hole Design:

Project Eddy County, MM (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

Northing 673;725 00 usft 32° 51' 6 632 N Site Position: Easting: 585,832 00 usft Longitude: 104° 3' 13 813 W From: Мар Slot Radius: 13-3/16 " **Position Uncertainty:** 0 00 usft Grid Convergence: 0·15°

Submárine 10 Federal Com #3H **Well Position** +N/-S 0 00 usft Northing: 673,725 00 usft 32° 51' 6 632 N Latitude: +E/-W 0 00 usft Easting: 585,832.00 usft 104° 3' 13 813 W Longitude: 0 00 usft 3,627.00 usft **Position Uncertainty** Wellhead Elevation: **Ground Level:**

Wellbore COHS
Magnetics Model Name Sample Date Declination Dip Angle Field Strength
(i) (ii) (nii)
IGRF2010 2012/01/23 7 7 8 60 67 48,878

Design, **Audit Notes:** Version: Phase: PLAN Tie On Depth: 0 00 Vertical Section: Depth From (TVD) +N/-S +E/-W-\$ Direction िहुन (usft) (usft) (usft) ·. (°) 0 00 0 00 0.00 269 38

Plan Sections Measured Depth (usft)	Inclination	Azimuth	Vertical Depth	+N/-S (usft)	+E/-W	Dogleg Rate (*/100usft)	Build Rate (7/100usft)	Turn Rate (*/100usft)	TFO	Target
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4,722 54	0.00	0 00	4,722 54	0 00	0 00	0 00	. 0 00	0 00	0 00	, ,
5,472 54	90 00	269 38	5,200 00	-5 14	-477 44	12 00	12 00	. 0 00	269 38	
9,868 05	90 00	269 38	5,200 00	-52 50	-4,872 70	0 00	0.00	0 00	. 0 00	PBHL-Submarine 10 i



SDI Planning Report



Database Company Project Site: EDM 5000 1 Single User Db

Eddy County, NM (NAN27 NME) Submarine 10 Federal Com #3H Submarine 10 Federal Com #3H OH

Wellbore:

Well:

Local Co-ordinate Reference:

TVD Reference: North Reference: Survey Calculation Method:

Sitè Submarine 10 Federal Com #3H

GL Elev @ 3627 00ush GL Elev @ 3627 00ush Grid Minimum Curvature

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1 11 2										
a	Measured		26 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Veřtičal 1			Vertical*	Dogleg	Build	Turn
-, -, -,	Depth	inclination	Azimuth	Depth	+N/-S	+É/-W*	Section	Rate	Rate	Ráte
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	5,100 00	45 30	269 38	5,061 89	-1.53	-141 59	141 59	12 00	12 00	0 00
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	9,300 00	90 00	269 38	5,200 00	-46 38	-4,304 68	4,304 93	0 00	0 00	0 00



9,868 05

PBHL-Submarine 10 #3H

Well:

Wellbore: Design:

SDI Planning Report



EDM 5000 1 Single User Db COG Operating LLC Eddy County, NM (NAN27 NME) Submarine 10 Federal Com #3H Local Co-ordinate Reference: Company: Project: Site:

Submarine 10 Federal Com #3H

90 00

269 38

5,200 00

TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Site Submarine 10 Federal Com #3H GL Elev @ 3627 00usft GL Elev @ 3627 00usft Grid Minimum Curvature

4,872 98

0 00

Planned Survey Measured Depth (usft)	Inclination	Azimuth (°)	Vertical Depth (jusft)	-Ñ/-S (ustt)	+E/-W (usft)	Vertical Section (usft)	Dogleg. Rate (°/100usft)	Build Rate (*/100usft)	Turn Rate (*/100usft)	The state of the s
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9,500 00	90 00	269.38	5,200 00	-48 53	-4,504 67	4,504 93	0 00	Ó 00	0 00	
9,600 00	90 00	ຶ້ 269 38	5,200.00	-49 61	-4,604 66	4,604 93	. 000	0 00	oʻ 00	1
. 9,700.00	.90 00	269 38	5,200 00	-50 69	-4,704.66	4,704 93	. 0 00	0 00	0 00	
9,800 00) ,' '90 00	269 38	5,200 00	-51 77	-4,804.65	4,804 93	0 00	o.00	0 00	

-4,872 70

; -52 50

Design Targets Target Name	Dip Angle	Dip Dir.	TVD (usft)	+N/-S (usft)	+Ê/-W (usft)	Northing (usft)	Easting (üsft)	Latitude	Longitude
PP-330' FEL Submarine - plan hits target cent - Point	0 00, er .	0 00	5,139 59	-2 64	-244 98 :	673,722 36	585,587 02	32° 51′ 6 612 N	104° 3' 16 685 W
PBHL-Submarine 10 #3I - plan hits target cent - Point		0 00	5,200 00	52 50	-4,872 70	673,672 50	580,959 30.	32° 51′ 6 236 N	104° 4′ 10 935 W

Plan Annotations			
Measured Depth	Depth +N/S	oordinates +E/-W	
4,722 54 5,472 54	•	0 00 Start Build 12 00°/100 -477 44 Land hold 90 00°	







Submarine 10 Federal Com #3H Eddy County, NM (NAN27:NME) Northing (Y) 673725.00 Easting (X) 585832 00

Plan #2 8-3/4" Hole

WELL DETAILS Submarine 10 Federal Com #3H

SECTION DETAILS

DESIGN TARGET DETAILS

Azi TVD 0 00 0 00 0 00 4722 54 269 38 5200 00

Name TVD PP-330' FEL Submarine 10 #38139 59

-4872 70 673672 50 580959 30 32* 51 6 236 N 104* 4 10 935 W Point

PROJECT DETAILS Eddy County, NM (NAN27 NME) Geodetic System US State Plane 1927 (Exact solu Datum NAD 1927 (NADCON CONUS) Ellipsoid Clarke 1866 Zone New Mexico East 3001

System Datum Mean Sea Level

SITE DETAILS Submarine 10 Federal Com #3H Site Centre Northing 673725 00 Easting 585832 00

LEGEND

Dodd Federal Unit #502 OH Plan #1 7-7/8" Hole VO

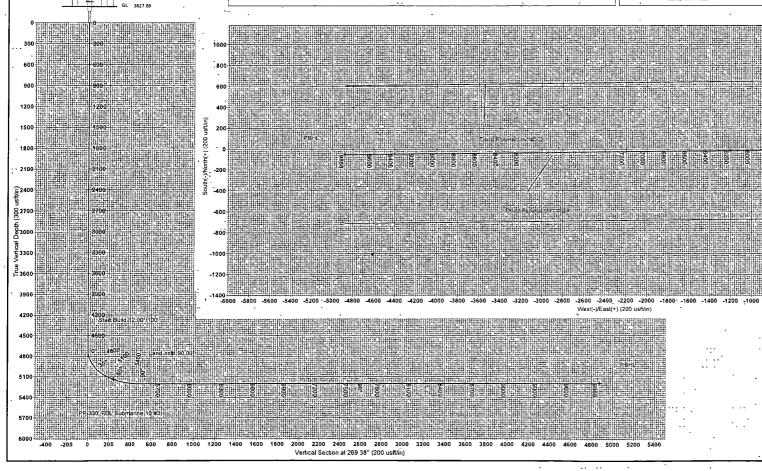
Submarine 10 Federal Com #2H, OH, Plan #2 8-3/4" Hole VD - Submarine 10 Federal Com #4H, OH, Plan #2 8-3/4" Hole VD

- Submarine 11 Federal Com#3H OH Plan#1 8-3/4" Hole V0 - Submarine 11 Federal Com#4H, OH Plan#1 8-3/4" Hole V0

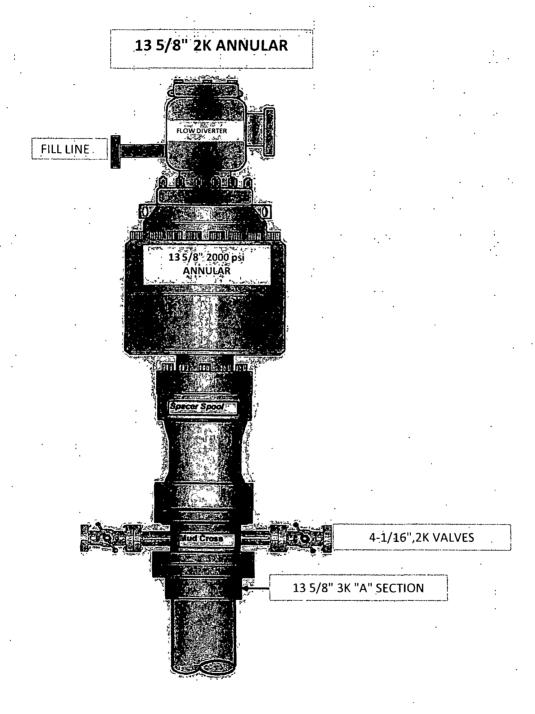
. . . .

Geomagnetic Model IGRF2010 Sample Date 23-Jan-12 Magnetic Decimation 7 78 Dip Angle from Horizontal 50 67 Magnetic Field Strength 48878

To convert a Magnetic Direction to a Gnd Direction, Add 7 63* o convert a Magnetic Direction to a Tius Direction Add 7 78* East To convert a True Direction to a Gnd Direction, Subtract 0 15*

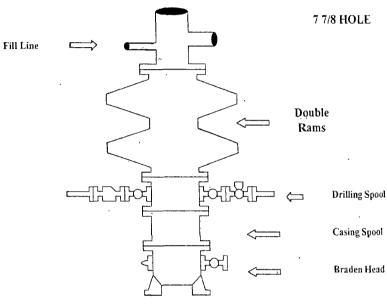


Julio C. Piña Scientific Drilling 2034 Trade Drive Midland, TX 79703



COG Operating LLC

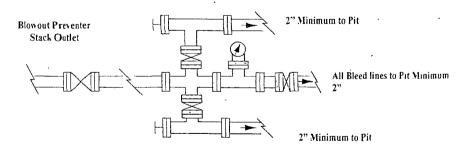
Exhibit #9 BOPE and Choke Schematic



Minimum 4" Nominal choke and kill lines

Choke Manifold Requirement (2000 psi WP) No Annular Required

Adiustable Choke

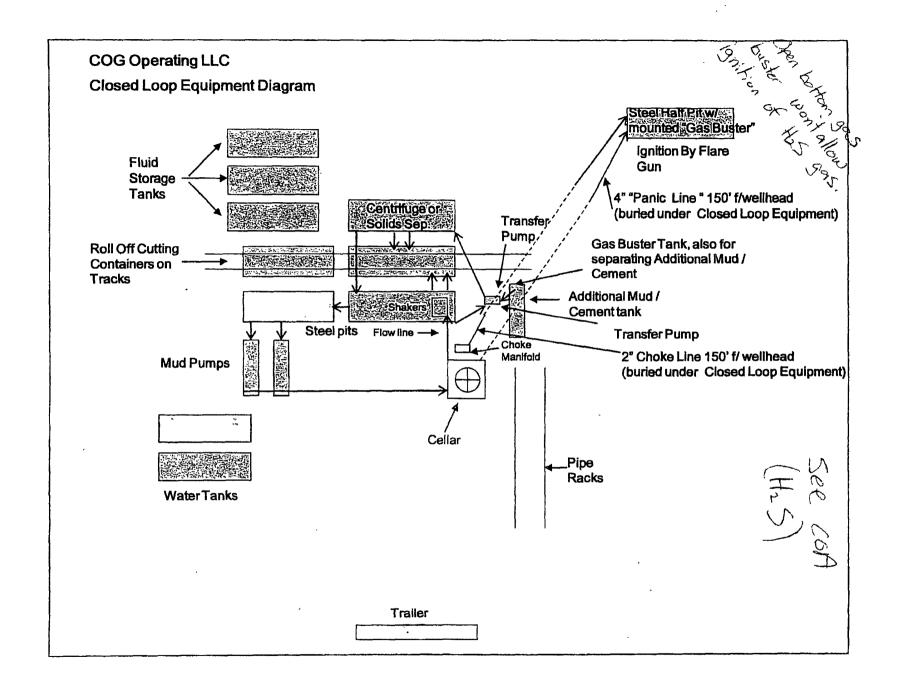


Adjustable Choke (or Positive)

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

- 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 pst WP minimum.
- 4. All fittings to be flanged
- 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
- 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 duller'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



Gioseu Loop Operation & Maintenance Procedure

All drilling fluid circulated over shaker(s) with cuttings discharged into roll off container.

Fluid and fines below shaker(s) are circulated with transfer pump through centrifuge(s) or solids separator with cuttings and fines discharged into roll off container.

Fluid is continuously re-circulated through equipment with polymer added to aid separation of cutting fines.

Roll off containers are lined and de-watered with fluids re-circulated into system.

Additional tank is used to capture unused drilling fluid or cement returns from casing jobs.

This equipment will be maintained 24 hrs./day by solids control personnel and or rig crews that stay on location.

Cuttings will be hauled to either:

CRI (permit number R9166) or GMI (permit number 711-019-001)

dependent upon which rig is available to drill this well.

COG Operating LLC

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- 1. The hazards an characteristics of hydrogen sulfide (H2S)
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H2S detectors alarms warning systems, briefing areas, evacuation procedures, and prevailing winds.
- 4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H2S on metal components. If high tensile tubular are to be used, personnel well be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. The contents and requirements of the H2S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H2S zone (within 3 days or 500 feet) and weekly H2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S Drilling Operations Plan and the Public Protection Plan. The concentrations of H2S of wells in this area from surface to TD are low enough that a contingency plan is not required.

II. H2S SAFETY EQUIPMENT AND SYSTEMS

Note: All H2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonable expected to contain H2S.

1. Well Control Equipment:

- A. Flare line.
- B. Choke manifold.
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
- D. Auxiliary equipment may include if applicable: annular preventer & rotating

2. Protective equipment for essential personnel:

A. Mark II Survive air 30-minute units located in the doghouse and at briefing areas, as indicated on well site diagram.

3. H2S detection and monitoring equipment:

A. 1 portable H2S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 PPM are reached.

4. Visual warning systems:

- A. Wind direction indicators as shown on well site diagram (Exhibit #8).
- B. Caution/Danger signs (Exhibit #7) shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

5. Mud program:

A. The mud program has been designed to minimize the volume of H2S circulated to surface. Proper mud weight, safe drilling practices, and the use of H2S scavengers will minimize hazards when penetrating H2S bearing zones.



6. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- B. All elastomers used for packing and seals shall be H2S trim.

7. Communication:

- A. Radio communications in company vehicles including cellular telephone and 2-way radio.
- B. Land line (telephone) communication at Office.

8. Well testing:

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safely and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H2S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

EXHIBIT #7

WARNING YOU ARE ENTERING AN H2S

AUTHORIZED PERSONNEL ONLY

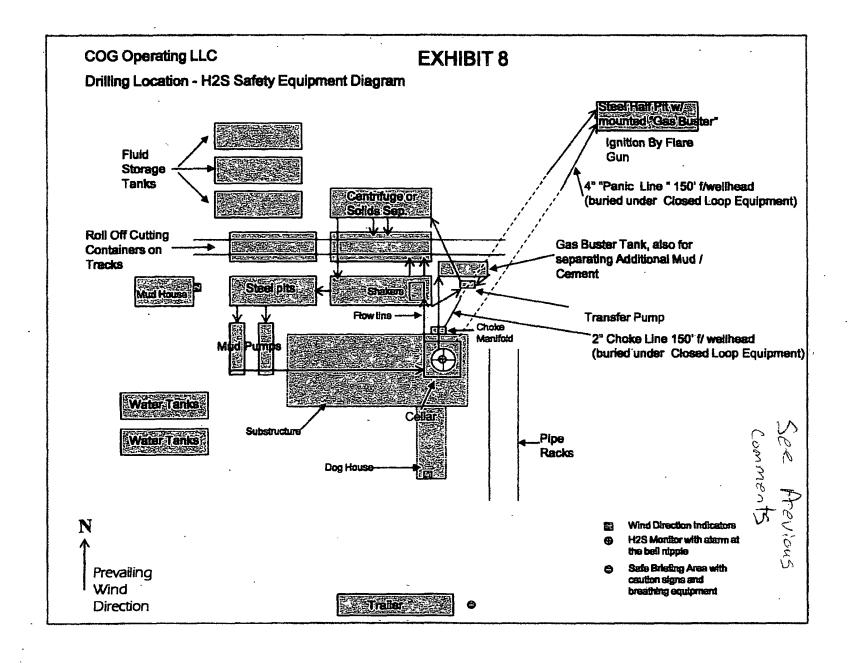
- 1. BEARDS OR CONTACT LENSES NOT ALLOWED
- 2. HARD HATS REQUIRED
- 3. SMOKING IN DESIGNATED AREAS ONLY
- 4. BE WIND CONSCIOUS AT ALL TIMES
- 5. CHECK WITH COG OPERATING FOREMAN AT

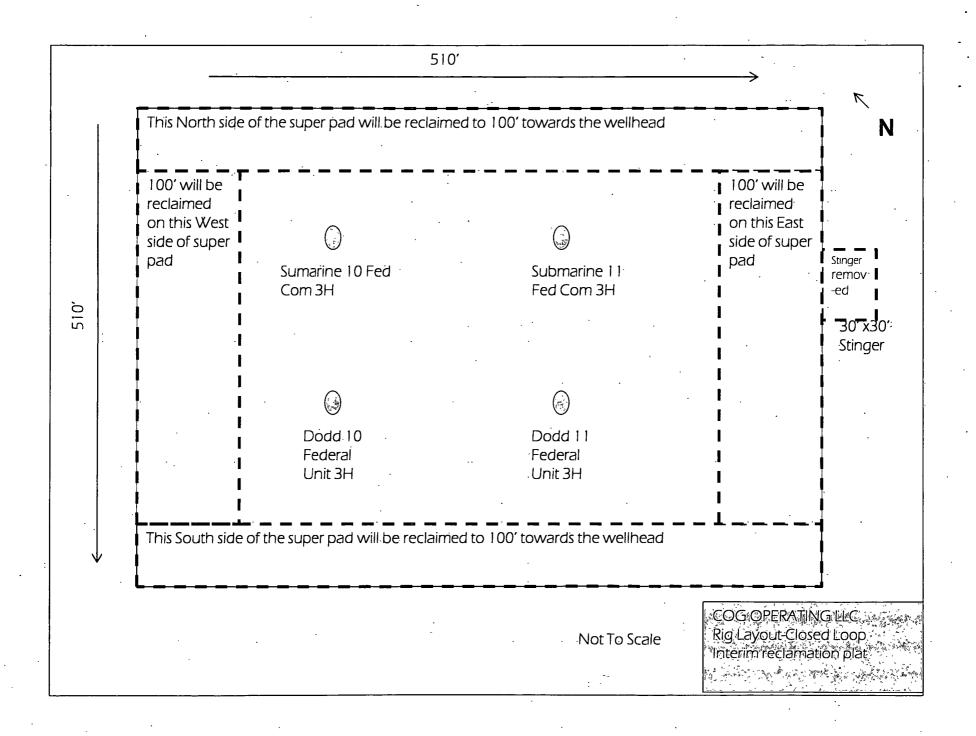
COG OPERATING LLC 1-432-683-7443 1-575-746-2010

EDDY COUNTY EMERGENCY NUMBERS
ARTESIA FIRE DEPT. 575-746-5050

ARTESIA POLICE DEPT. 575-746-5000 EDDY CO. SHERIFF DEPT. 575-746-9888 LEA COUNTY EMERGENCY NUMBERS

ĤŌBBS FIRE DEPT. 575-397-9308 HOBBS POLICE DEPT. 575-397-9285 LEA CO. SHERIFF DEPT. 575-396-1196





PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: COG OPERATING, LLC
LEASE NO.: NM125007
WELL NAME & NO.: 3H – SUBMARINE 11 FED COM
SURFACE HOLE FOOTAGE: 1605'/N. & 85'/W.
BOTTOM HOLE FOOTAGE 1650'/N. & 330'/E.
LOCATION: Section 11, T. 17 S., R. 29 E., NMPM
COUNTY: Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

☐ General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical Sites
☐ Noxious Weeds
Special Requirements
Lesser Prairie-Chicken Timing Stipulations
Ground-level Abandoned Well Marker
Communitization Agreement
☐ Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
☐ Road Section Diagram
☑ Drilling
H2S requirement
Logging requirement
Waste Material and Fluids
Production (Post Drilling)
Well Structures & Facilities
Pipelines
Electric Lines
☐ Interim Reclamation
Final Abandonment & Reclamation