Form 3160-3 (December 1990)

APPROVED BY

y

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRITLINGS*

Budget Bureau No. 1004-0136 Expires: December 31, 1991

EASE DESIGNATION AND SERIAL NO.

	BUREAU OF	LAND MANA	Gemei	NT/	α CV	3-K-	NM	LC-0295	,09B
APPLI	CATION FOR PE	ERMIT TO I	DRIL	L OR DEE	PEN		6. IF INDIAN, AL	LOTTEE O	R TRIBE NAME
ia. TYPE OF WORK	5 7						7. UNIT AGREE	MENT NAV	1E
b. TYPE OF WELL	LL 🛛	DEEPEN !							
oir 🔼 G	as OTHER		S1	NGLE	MULTIPI ZONE	LE	8. FARM OR LEASE	NAME, WELL	NO. <30 25
2. NAME OF OPERATOR				,		<u> </u>	JC	Federal	#5
COG Operating LI				<22°	1137	?	9. API WELL NO.		37964
3. ADDRESS AND TELEPHONE NO					•		30-0		J . (6)
	e 1300 Midland, TX 79			685-4372		_/	10. FIELD AND I	pool, or v h Wolfca	
4. LOCATION OF WELI At surface	(Report location clearly a		-	_	ent.*)		11. SEC., T., R.,		
	_	55 FNL & 208 ROSWELL (5 FWL	KOLLED WA	TER BA	SIN	AND SURVE	Y OR AREA	.
At proposed prod. zon	ie		3488480	11	124	7 —	Sec 2	2 T17S I	R32E
14. DISTANCE IN MILES AN	ND DIRECTION FROM NEAR	EST TOWN OR POS	T OFFIC				12. COUNTY OI	R PARISH	13. STATE
\	2 miles so	outh of Maljan	nar				Lea		NM
15. DISTANCE FROM PROPO LOCATION TO NEAREST			16. NO	. OF ACRES IN LEA	SE		F ACRES IN LE.	ASE	
PROPERTY OR LEASE I	g. unit line, if any)	555		520				80)
18. DISTANCE FROM PROPO TO NEAREST WELL, DR	ILLING, COMPLETED	1100	19. PR	OPOSED DEPTH 10500		20. ROTAL	AA Rota	14920	`
OR APPLIED FOR, ON TH				10200			<u> </u>	س بر حرب	<u>.</u>
21. ELEVATIONS (Show w	4006'	Win	229F	Surface	Casin		V 22. APPROX. DAT	ге work wi 6/15/200	
23.		· · · · · · · · · · · · · · · · · · ·				0	1 200	35.200	100
		PROPOSED CASI	NG ANI	CEMENTING	PROGRAM	<u> </u>	4.6/	<i>Sig</i>	<u> </u>
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER F	ООТ	SETTING D		/00	oWaytiev C	37	<u>~~</u> /
17 1/2	H-40,13 3/8	48		650		1	.o	irc	<u> </u>
12 1/4	J-55, 8 5/8	32		2100			Ci		'
7 7/8	J-55, 5 1/2	17		1050	-		Suffet	Circ	
COG Opera	ating LLC proposes to	drill to a dept	h suffi	icient to test	the Wolf	camp for	mation for oi	l and gas	s. If
productive 5 1/2" c	asing will be cemented	l If non-produ	ctive 1	the well will l	he nlugg	- le hre he	andoned in a	mannei	r consistent
•		-							
_	ion. Specific program	s as per Onsho	re Oil	and Gas Ord	ler #1 ar	e outlined	l in the follow	ing atta	chments:
1. Surveys	I anation Dist	4. Cert	ificatio	<u>n</u>			7. Res	sponsibil	lity Statemen
Exhibit #1- Well Exhibit #2- Vicin			_		_				
	tion Verification Map	5. <u>Hydi</u>	5. Hydrogen Sulfide Drilling Operation Plan Exhibit #7- H2S Warning SAPPROVAL SUBJECT TO					D /	
		Exni Evbi	DIL # /- hit #Q_	H2S Warnii	ig Sjøjir i	TA CUSTON	DEVIII	RME	NTS
2. Drilling Program	<u>1</u>	Exin	DIL #0-	1125 Safety	eqqqqu	MERA	L REQUIF	DITIA	TIONS
	2.	6. Blow	out Pr	eventers	AN	Dare		rour	LATOLIO
3. Surface Use & O		Exhi	bit #9-	- BOPE Scho	ema tAT	TACH	ED		
Exhibit #4- One !	Mile Radius Map uction Facilities Layo	Exhi	bit #10	- Blowout Pi	reventer	Requiren	nents		
Exhibit #6- Loca	•	ut Exhi	bit #11	- Choke Mai	nifold				
	•	6						••	
deepen directionally, give perti	BE PROPOSED PROGRAM: I nent data on subsurface location	t proposal is to deep is and measured and t	rue vertic	ata on present pro al depths. Give blo	ductive zone owout prever	e and proposi iter program,	ed new productive : if any.	zone. II proj	posal is to drill or
24.	1 71				··-				
SIGNED Serve	Jo. Shevel	<u>ттт</u> .	Æ	Produ	uction C	lerk	DATE	5/15	5/2006
	<i>T</i>								
(1 nis space for Fede	ral or State office use)								
PERMIT NO.				APPROVAL DATE					
Application approval does	not warrant or certify that the ap	plicant holds legal or e	quitable ti	tle to those rights in	n the subject	lease which we	ould entitle the appli	cant to condi	Mendanion Had
CONDITIONS OF APPROVA	not warrant or certify that the apple, IF ANY:	Mar	TINC	3		1//		MIL II A	NII/I II
Isl	James Stovall	F Pare				L'E		ILIN 1	6 2006

FIELD MANAGER

DATE

TITLE

State of New Mexico

DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 88240

Rnergy, Minerals and Natural Resources Department

Form C-102

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 68210

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Revised October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

_	20 S. ST. FRANCIS DR., SANTA FE, NM 87505	WELL LOCATION AND	ACKEAGE DEDICATION FLAT	□ AMENDED REPORT
Γ	API Number	Pool Code	Pool Name	
	30-025-37964	4480	Baish; Wolfcamp	
	Property Code	Pro	perty Name	Well Number
	302508	JC 1	FEDERAL	5
	OGRID No.	Ope	rator Name	Elevation
	229137	COG OPI	ERATING LLC	4006'

Surface Location

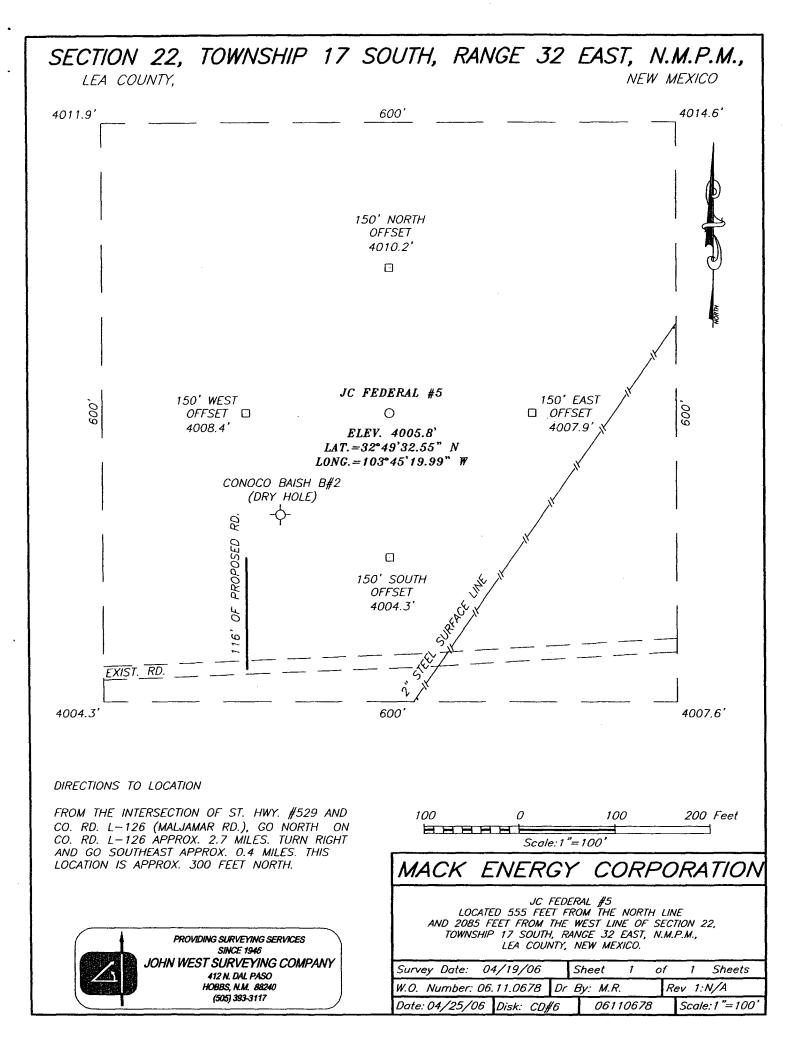
i	UL or lot No.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County	1
	С	22	17-S	32-E		555	NORTH	2085	WEST	LEA	

Bottom Hole Location If Different From Surface

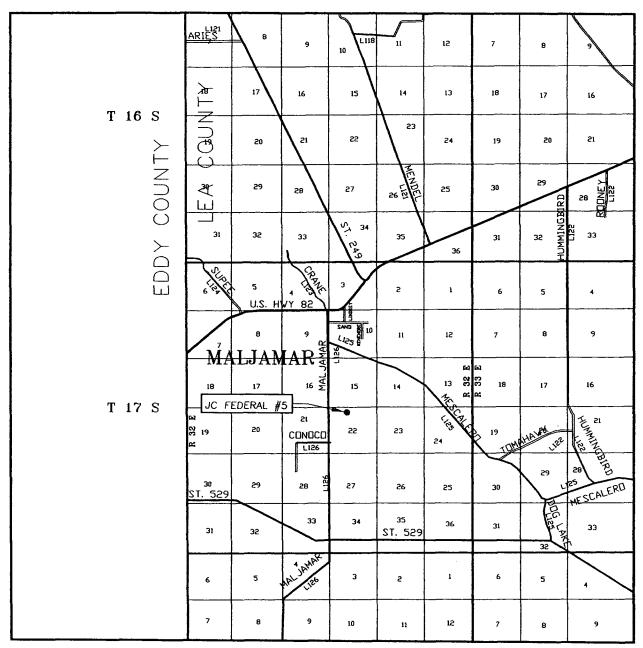
	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
ŀ	Dedicated Acres	Joint o	r Infill Co	onsolidation (Code Ore	der No.				
	80									

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

4011.9' 4014.6'	OPERATOR CERTIFICATION
2085'	I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
GEODETIC COORDINATES NAD 27 NME	Signature Date
Y=6645 8 8.7 N X=6774 8 6.2 E	Jerry W. Sherrell Printed Name
LAT.=32*49"32.55" N LONG.=103*45*19.99" W	SURVEYOR CERTIFICATION
	I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
	APRIL 19, 2006 Date Surveyed MR Signature & Seal/pring
	Professional Surveyor Bary B. E. 5/1/06
	06.11.0678 Certificate No. GARY EIDSON 12841
	May 207535 (1) Care



VICINITY MAP



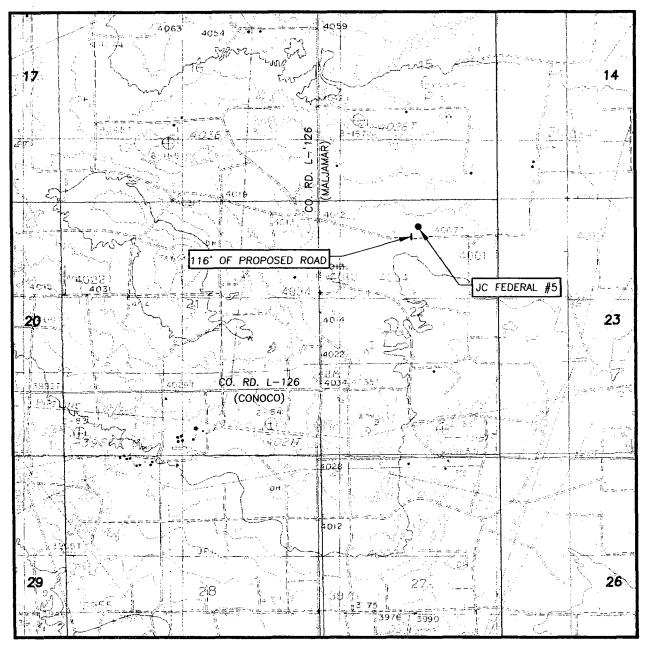
SCALE: 1" = 2 MILES

SEU IW	1P. 17-5 RGE. 32-E
SURVEY	N.M.P.M.
COUNTY LE	A STATE NEW MEXICO
DESCRIPTION_	555' FNL & 2085' FWL
ELEVATION	4006'
OPERATOR	MACK ENERGY
LEASE	JC FEDERAL





LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

SEC. 22 TWP. 17-S RGE. 32-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 555' FNL & 2085' FWL

ELEVATION ____ 4006'

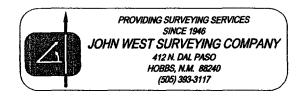
MACK ENERGY CORPORATION OPERATOR

LEASE_____ JC FEDERAL

U.S.G.S. TOPOGRAPHIC MAP

MALJAMAR, N.M.

CONTOUR INTERVAL: MALJAMAR, N.M. - 10' DOG LAKE, N.M. - 10'





Attached to Form 3160-3 COG Operating LLC JC Federal #5 555 FNL & 2085 FWL NE/4 NW/4, Sec 22 T17S R32E Lea County, NM

DRILLING PROGRAM

1. Geologic Name of Surface Formation

Quaternary

2. Estimated Tops of Important Geologic Markers:

Quaternary	Surface	Abo	7540'
Grayburg	3450'	Wolfcamp	9051'
San Andres	3850'		
Glorietta	5366'		
Tubb	6840'		
Grayburg San Andres Glorietta	3450' 3850' 5366'	Wolfcamp	9051'

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

Water Sand	150'	Fresh Water
Abo	4400'	Oil/Gas
Wolcamp	6250'	Oil/Gas

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Setting 13 3/8" casing to 650' and circulating cement back to surface will protect the surface fresh water sand. Salt Section will be protected by setting 8 5/8" casing to 2100' and circulating cement back to 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, which will be run at TD.

4. Casing Program:

Hole Si	ze Interval	OD Casing	Weight, Grade, Jt, Cond., Type
17 ½"	0-650	13 3/8"	48#, H-40, ST&C, New, R-3
12 ¼"	0-2100'	8 5/8"	32#, J-55, ST&C, New, R-3
7 7/8 "	0-TD	5 1/2"	17#, J-55, LT&C, New, R-3

Drilling Program Page 1

Attached to Form 3160-3 COG Operating LLC JC Federal #5 555 FNL & 2085 FWL NE/4 NW/4, Sec 22 T17S R32E Lea County, NM

5. Cement Program:

- 13 3/8" Surface Casing: Circulate to Surface with Class C w/2% CaCl2.
- 8 5/8 Intermiate Casing: Circulate to Surface with Class C W/2% CaCl2.
- 5 1/2" Production Casing: Cement Casing with Class C w/6# Salt & 2/10 of 1% CFR-3 per sack. We will run a hole caliper and run sufficient cement to circulate to surface.

6. Minimum Specifications for Pressure Control:

The blowout preventer equipment (BOP) shown in Exhibit #9 will consist of a double ramtype (The blowout preventer equipment (BOP) shown in Exhibit #9 will consist of a double ramtype (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 bottom. The BOP will be nippled up on the 13 3/8" surface casing and tested to 2000# by a 3rd party. The BOP will then be nippled up on the 8 5/8" intermediate casing and tested by a 3rd party to 2000 psi and used continuously until TD is reached. All BOP's and accessory equipment will be tested to 2000 psi before drilling out of 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 and choke lines and choke manifold (Exhibit #11) with 2000 psi WP rating.clude a Kelly cock and floor safety valve and choke lines and choke manifold (Exhibit #11) with 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:

DEPTHTYPE	WEIG	HT	VISCOSITY	WATERLOSS
0-650'	Fresh Water	8.5	28	N.C.
650-2100'	Brine	10	30	N.C.
2100'-TD	Cut Brine	9.1	29	N.C.

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.

8. Auxiliary Well Control and Monitoring Equipment:

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

Drilling Program Page 2

Attached to Form 3160-3 COG Operating LLC JC Federal #5 555 FNL & 2085 FWL NE/4 NW/4, Sec 22 T17S R32E Lea County, NM

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:

- A. The electric logging program will consist of GR-Dual Laterolog, Spectral Density, Dual Spaced Neutron, CSNG Log and will be ran from T.D. to 9 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 7" production casing has been cemented and TD has been reached based on drill shows and log evaluation.

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

No abnormal pressures or temperatures are anticipated. The estimated bottom hole at TD is 110 degrees and estimated maximum bottom hole pressure is 2300 psig. Low levels of Hydrogen sulfide have been monitors in producing wells in the area, so H2S may be present while drilling of the well a plan is attached to the Drilling 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. The anticipated spud date is June 15, 2006. Once commenced, the drilling operation should be finished in approximately 20 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.

Drilling Program Page 3

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.

H2S Plan Page 11

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 head.

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.

H2S Plan Page 12

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

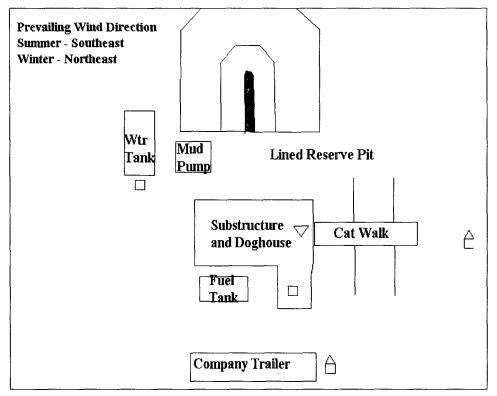
YOU ARE ENTERING AN H2S

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 MACK ENERGY FOREMAN AT OFFICE

MACK ENERGY CORPORATION 1-505-748-1288

DRILLING LOCATION H2S SAFTY EQUIPMENT Exhibit # 8



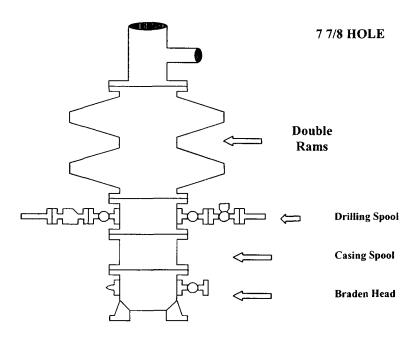
- √ H2S Monitors with alarms at the bell nipple
- Wind Direction Indicators
- Safe Briefing areas with caution signs and breathing equipment min 150 feet from

Attachment to Exhibit #9 NOTES REGARDING THE BLOWOUT PREVENTERS JC Federal #5 Lea County, New Mexico

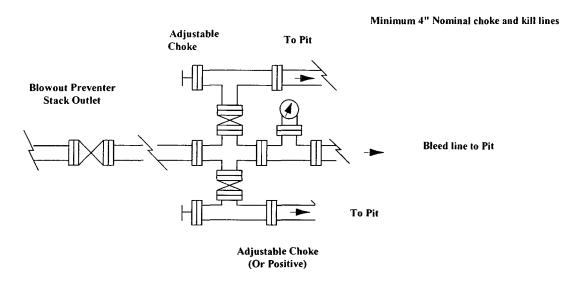
- 1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
- 2. Wear ring to be properly installed in head.
- 3. Blow out preventer and all fittings must be in good condition, 2000 psi WP minimum.
- 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.

COG Operating LLC

Exhibit #9 BOPE Schematic



Choke Manifold Requirement (2000 psi WP) No Annular Required



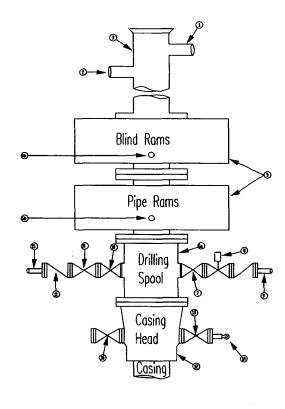
COG Operating LLC

Minimum Blowout Preventer Requirements

2000 psi Working Pressure 2 MWP EXHIBIT #10

Stack Requirements

	Stack Requireme	1113	
NO.	ltems	Min.	Min.
		I.D.	Nominal
1	Flow line		2"
2	Fill up line		2"
3	Drilling nipple		
4	Annular preventer		
5	Two single or one dual hydraulically operated rams		
6a	Drilling spool with 2" min. kill line and 3" min choke line outlets		2" Choke
6b	2" min. kill line and 3" min. choke line outlets in ram. (Alternate to 6a above)		
7	Valve Gate Plug	3 1/8	
8	Gate valve-power operated	3 1/8	
9	Line to choke manifold		3"
10	Valve Gate Plug	2 1/16	
11	Check valve	2 1/16	
12	Casing head		
13	Valve Gate Plug	1 13/16	
14	Pressure gauge with needle valve		
15	Kill line to rig mud pump manifold		2"



OPTIONAL

16	Flanged Valve	1 13/16	

CONTRACTOR'S OPTION TO FURNISH:

- All equipment and connections above Braden head or casing head. Working pressure of preventers to be 2000-psi minimum.
- Automatic accumulator (80 gallon, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
- 3. BOP controls, to be located near drillers' position.
- Kelly equipped with Kelly cock.
- Inside blowout preventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
- Kelly saver-sub equipped with rubber casing protector at all times.
- 7. Plug type blowout preventer tester.
- 8. Extra set pipe rams to fit drill pipe in use on location at all times.
- 9. Type RX ring gaskets in place of Type R.

COG TO FURNISH:

- 1. Braden head or casing head and side valves.
- 2. Wear bushing. If required.

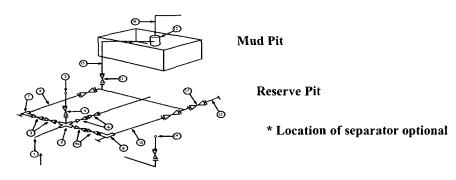
GENERAL NOTES:

- Deviations from this drawing may be made only with the express permission of COG's Drilling Manager.
- All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through choke valves must be full opening and suitable for high pressure mud service.
- Controls to be of standard design and each marked, showing opening and closing position
- Chokes will be positioned so as not to hamper or delay changing of choke beans.
 Replaceable parts for adjustable choke, or bean

- sizes, retainers, and choke wrenches to be conveniently located for immediate use.
- All valves to be equipped with hand-wheels or handles ready for immediate use.
- Choke lines must be suitably anchored.
- Hand wheels and extensions to be connected and ready for use.
- Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- All seamless steel control piping (2000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
- Casing head connections shall not be used except in case of emergency.
- Do not use kill line for routine fill up operations.

COG Operating LLC Exhibit #11

Exhibit #11
MIMIMUM CHOKE MANIFOLD
3,000, 5,000, and 10,000-PSI Working Pressure
2 M will be used or greater
3 MWP - 5 MWP - 10 MWP



Below Substructure

Mimimum requirements

within the contract of the con										
		3,0	00 MWP		5,000 MWP			10,000 MWP		
No.		I.D.	NOMINAL	Rating	I.D.	Nominal	Rating	1.D.	Nominal	Rating
I	Line from drilling Spool		3"	3,000		3"	5,000		3"	10,000
2	Cross 3" x 3" x 3" x 2"			3,000			5,000			
2	Cross 3" x 3" x 3" x 2"									10,000
3	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000
4	Valve Gate Plug	1 13/16		3,000	1 13/16		5,000	1 13/16		10,000
4a	Valves (1)	2 1/16		3,000	2 1/16		5,000	2 1/16		10,000
5	Pressure Gauge			3,000			5,000			10,000
6	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000
7	Adjustable Choke (3)	2"		3,000	2"		5,000	2"		10,000
8	Adjustable Choke	1"		3,000	1"		5,000	2"		10,000
9	Line		3"	3,000		3"	5,000		3"	10,000
10	Line		2"	3,000		2"	5,000		2"	10,000
11	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000
12	Line		3"	1,000		3"	1,000		3"	2,000
13	Line		3"	1,000		3"	1,000		3"	2,000
14	Remote reading compound Standpipe pressure quage			3,000			5,000			10,000
15	Gas Separator		2' x5'			2' x5'			2' x5'	
16	Line		4"	1,000		4"	1,000		4"	2,000
17	Valve Gate	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000

- (1) Only one required in Class 3M
- (2) Gate valves only shall be used for Class 10 M
- (3) Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling.

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTION

- 1. All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating.
- 2. All flanges shall be API 6B or 6BX and ring gaskets shall be API RX or BX. Use only BX for 10 MWP.
- All lines shall be securely anchored.
- 4. Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.
- 5. Choke manifold pressure and standpipe pressure gauges shall be available at the choke manifold to assist in regulating chokes. As an alternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the standpipe pressure gauge.
- 6. Line from drilling spool to choke manifold should bee as straight as possible. Lines downstream from chokes shall make turns by large bends or 90 degree bends using bull plugged tees.

United State Department of the Interior

BUREAU OF LAND MANAGEMENT Roswell Resource Area P.O. Drawer 1857 Roswell, New Mexico 88202-1857

Statement Accepting Responsibility for Operations

Operator name:

COG Operating LLC

Street or box

550 W. Texas, Suite 1300

City, State

Midalnd, TX

Zip Code,

79701

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

Lease No.:

LC-029509B

JC Federal #5

Legal Description of land:

Sec. 22 T17S R32E

NE/4 NW/4

Formation(s) (if applicable):

Baish Wolfcamp

Bond Coverage: (State if individually bonded or another's bond)
Statewide Bond

BLM Bond File No.:

NMB000215

Authorized Signature:

Jerry W. Sherrell

Title:

Production Clerk

Date:

5/15/2006

District I
1625 N. French Dr., Hobbs, NM 88240
District 11
1301 W. Grand Avenue, Artesia, NM 88210
District III
1 000 Rio Brazos Road, Aztec, NM 8741 0
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 For drilling and production facilities, submit to appropriate NNIOCD District Office.
For downstream facilities, submit to Santa Fe office

Fonn C-144 June 1, 2004

Pit or Below-Grade Tank Re.gistration or Closure
Is pit or below-grade tank covered by a "general plan"? Yes \(\subseteq No \(\subseteq \)

Type of action: Registration of a pit or below-grade tank 🛛 Closure of a pit or below-grade tank 🔲											
Operator: COG Operating LLC Telephone: (432) 685-4372 e-mail address: DKuykendall@conchoresources.com Address: 550 W. Texas, Suite 1300 Midland, TX 79701											
Address: 550 W. Texas, Suite 1300 Midland, TX 79701 Facility or well name: JC Federal #5 API #. 30-025-3764 U/L or Qtr/Qtr C See 22 T 178 R 32E											
Facility or well name: JC Federal #3 API #-3	U/L or Qtr/Qtr	See <u>ZZ T 17S R JZE</u>									
County: Lea Latitude	Longitude	NAD: 1927 🔲 1983 🔲									
Surface Owner: Federal X State Private Indian											
Pit	Below-grade tan										
Type. Drilling 🔀 Production 🗌 Disposal 🔲	Volume:bbl Type of fluid:										
Workover Emergency	Construction material:										
Lined 🔀 Unlined 🗌	Double-walled, with leak detection? Yes If not, explain why not.										
Liner type: Synthetic M Thickness 12 mil Clay											
Pit Volume 2000 bbl											
	Less than 50 feet	(20 points)									
Depth to ground water (vertical distance from bottom of pit to seasonal	50 feet or more, but less than 100 feet	(10 points)									
high water elevation of ground water.)	1 00 feet or more	' ' '									
	1 00 feet of filore	(0 points) O Points									
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)									
water source, or less than I 000 feet from all other water sources.)	No	(0 points) 0 Points									
	Less than 200 feet	(20 points)									
Distance to surface water: (horizontal distance to all wetlands, playas,	i	1 ' ' '									
irrigation canals, ditches, and perennial and ephemeral watercourses.)	200 feet or more, but less than I 000 feet	(1 0 points)									
	1000 feet or more	(0 points) 0 Points									
	Ranking Score (Total Points)	0 Points									
Ifthis is a pit closure: (1) Attach a diagram of the facility showing the pit'	s relationship to other equipment and tanks. (2) In	dicate disposal location: (check the onsite box if									
your are burying in place) onsite If offisite, name of facility											
remediation start date and end date. (4) Groundwater encountered: No Yes I f yes, show depth below ground surface											
.,	• •	it. and attach sample results.									
(5) Attach soil sample results and a diagram of sample locations and excava	tions.										
Additional Comments:											
I hereby certify that the information above is true and complete to the best ofmy knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan											
Date: 6/21/2006											
Printed Name/Title Jerry W. Sherrell/Production Clerk Signature Signature											
Your certification and NMOCD approval ofthis application/closure does not relieve the operator of liability should the contents ofthe pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.											
Approval: PETROLEUM ENGINEER											
Printed Name/Title	Signature	Date:									

Sent: Thu 6/22/2006 8:29 AM

The sender of this message has requested a read receipt. Click here to send a receipt.

Mull, Donna, EMNRD

From:

Phillips, Dorothy, EMNRD

To:

Mull, Donna, EMNRD

Cc:

Subject:

RE: Financial Assurance Requirement

Attachments:

Plantation has to submit a one well bond for 30-025-25962 according to Jane's list.

All of the have a blanket bond and the rest do not appear on Jane's list.

From: Mull, Donna, EMNRD

Sent: Thursday, June 22, 2006 8:13 AM

To: Phillips, Dorothy, EMNRD

Cc: Macquesten, Gail, EMNRD; Sanchez, Daniel J., EMNRD

Subject: Financial Assurance Requirement

Dorothy,

Is the Financial Assurance Requirement for these Operators OK?

Plantation Operating LLC (237788) COG Operating LLC (229137) Range Operating New Mexico Inc (227588) Pogo Producing Co (17891)

I have checked the Inactive well list for each Operator.

Please let me know. Thanks and have a nice day. Donna