Form 3160-3 (December 1990)				A. Oil SCASHET INT Et 1 Somer man	UCAT	Budget Bureau		
		ED STATE		RTESIA, NOA 60210-5	iue)	Expires: Decem	^\	
		' LAND MANA				5. LEASE DESIGNATION	$\cup$	
						6. IF INDIAN, ALLOTTEE		
APPL a. TYPE OF WORK	ICATION FOR P	ERMIT TO	DRILL	OR DEEPEN			OR TRIBE NASIE	
b. TYPE OF WELL			7. UNIT AGREEMENT NAME					
OIL WELL Q	Gas Well OTHER			NGLE MULTII DNE ZONE		8. FARM OR LEASE NAME, WEL	LNO. 2236	
Mack Energy Cor	poration	1383	7			Schley Fede 9. API WELL NO.	ral #5	
ADDRESS AND TELEPHONE NO	·		_/	<u> </u>		30.015-30	1 3 67	
P.O. Box 960, Arte	esia, NM 88211-0960	(505) 7	48-1288	<b>3</b>		10. FIELD AND POOL, OF	WILDCAT	
. LOCATION OF WEL	L (Report location clearly	and in accordance	with any	state requirement.*)		East Empire	Yeso 96610	
Atsurface		2.230 FNL 990	FWL			11. SEC., T., R., M., OR B AND SURVEY OR AR		
At proposed prod. 20	ne	2230 FNL 990	FWI	(), - E		Sec 29 T178	R29F	
4. DISTANCE IN MILES A	ND DIRECTION FROM NEAF			UNIT C		Sec 29 T17S R29E		
		West of Loco I				Eddy	NM	
5. DISTANCE FROM PROP LOCATION TO NEARES	5T	990	16. NO.	OF ACRES IN LEASE		F ACRES IN LEASE		
PROPERTY OR LEASE (Also to nearest dr	lg. unit line, if any)	99U		160		40		
	RILLING, COMPLETED	660	19. PRC	DPOSED DEPTH 5800	20. ROTARY OR CABLE TOOLS Rotary			
OR APPLIED FOR, ON TI	· · · · · · · · · · · · · · · · · · ·		a			22. APPROX. DATE WORK	WILL CT. DT.	
	3612 GR		ONTR	OLLED WATER		12/30/		
3.		PROPOSED CAS	ING AND	CEMENTING PROGRA	м			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER F	FOOT	SETTING DEPTH		QUANTITY OF CEMEN	т	
17 1/2	K-55,13 3/8	48		280		Circ	· · · · · · · · · · · · · · · · · · ·	
	VER OFIO							
12 1/4	K-55, 8 5/8	24		750	1991 V	Circ		
7 7/8	J-55, 5 1/2	17	ient to t	5800	San And	Suff to Circ		
7 7/8 Mack Ener productive, 5 1/2" c with federal regular		17 a depth suffic d. If non-produ as as per Onsho APPR	uctive, t ore Oil a OVAL \$	5800 test the Paddock and he well will be plugg and Gas Order #1 an SUBJECT TO	ged and ab e outlined	Suff to Circ res formation for oil pandoned in a mano in the following att	r consistent achments: ID-1	
7 7/8 Mack Ener productive, 5 1/2'' c	J-55, 5 1/2 gy proposes to drill to casing will be cemente tion. Specific program	17 a depth suffic d. If non-produ as as per Onsho APPR GENE SPEC	uctive, t ore Oil & OVAL \$ RAL R IAL ST	5800 test the Paddock and he well will be plugg and Gas Order #1 at	ged and ab re outlined	Suff to Circ res formation for oil pandoned in a mano in the following att $P_{CSL}$	r consistent achments: IP - 1 2 6 - 97	
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7 7/8 Mack Ener productive, 5 1/2" c with federal regulat Drilling Program Surface Use & Op Exhibit #1 & 1A - Exhibit #2 - Locat Exhibit #2 - Locat Exhibit #3 - Plann NABOVE SPACE DESCRI teepen directionally, give performed (This space for Feder PERMIT NO.	J-55, 5 1/2 gy proposes to drill to casing will be cemente tion. Specific program perating Plan Blowout Preventer E tion and Elevation Plan ted Access Road BE PROPOSED PROGRAM: timent data on subsurface location J. BLOWEN cral or State office use)	17 a depth suffic d. If non-produ- is as per Onsho APPR GENE SPEC ATTA( quipment t	uctive, t ore Oil a OVAL & RAL R IAL ST CHED	5800 test the Paddock and he well will be plugg and Gas Order #1 at SUBJECT TO EQUIREMENTS TPULATIONS EXHIBIT #4 - One- M Exhibit #5 - Product Exhibit #6 - Locatio Exhibit #7 - H2S Dr ta on present productive zor al depths. Give blowout preve Geological Eng	ged and ab re outlined AN[ ile Radius tion Facili n Layout illing Ope te and propose meter program, gineer	Suff to Circ res formation for oil pandoned in a manor in the following att <i>Post</i> <i>I</i> - :: Map <i>HPJ</i> ties Layout rations Plan and new productive zone. If pro- if any. DATE5	r consistent achments: JP-1 2 G - 9 4 J. O C roposal is to drill or /13/98	
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1 itle 18 U.S.C. Section 1001, makes 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.

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DISTRICT I			State of New Mexico						Form C-102			
P 0. Box 1980, Hobbs, NM 88241-1980			Energy, Minerals and Natural Resources Department						Revised February 10, 1994 Submit to Appropriate District Office			
DISTRICT II P 0. Drawer DD, Arte				State Lease	- 4 Copies - 3 Copies							
DISTRICT III 1300 Rio Brazos Rd., Aztec, NM 87410			OIL CONSERVATION DIVISION									
DISTRICT IV				Santa F			co 87504-2088		MAY 11 19	93		
P 0. BOX 2088, SANT	A PE, N.M. 87	7504 - 2088							AMENDED	REPORT		
			WELL L	OCATION	AND	ACRE	AGE DEDICATI	ON PLAT				
API	Number		<u> </u>	Pool Code		·····-		Pool Name		*******		
			.9	6610			East Empir	e Yeso	Yeso			
Property	Code				Prop	erty Nan		·····	Well Nun	aber		
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OGRID N	0.			MACK F	-	ator Nan CORI	PORATION		Elevation 3610			
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Dedicated Acre	s Joint o	or Infill Co	onsolidation	Code Or	der No.							
NO ALLO	WABLE W	WILL BE A	SSIGNED	TO THIS	COMPLE	TION I	JNTIL ALL INTE	RESTS HAVE BI	EEN CONSOLIDA	ATED		
		OR A N	NON-STA	NDARD UN	NIT HAS	BEEN	APPROVED BY	THE DIVISION				
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# Attachment to Exhibit #1 NOTES REGARDING THE BLOWOUT PREVENTERS Schley Federal #5 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.

#### MINIMUM 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

(16

# MACK ENERGY CORPORATION



BEYOND SUBSTRUCTURE

			MINI	NUM REQL	REMENT	5				
	1	3,000 MWP			5,000 MWP			10,000 MWP		
No.		1.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING
1	Line from drilling spool		3*	3,000		3″	5,000		3*	10,000
2	Cross 3"x3"x3"x2"			3,000			5,000			
4	Cross 3"x3"x3"x3"									10,000
3	Valves(1) Gate C Plug C(2)	3-1/8*		3,000	3-1/8*		5,000	3-1/8*		10,000
4	Valve Gate C Plug D(2)	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	3-1/8*		10,000
5	Pressure Gauge			3,000			5,000			10,000
8	Valves Gate C Plug D(2)	3-1/8*		3,000	3-1/8*		5,000	3-1/8*		10,000
7	Adjustable Chake(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		3.	10,000
11	Valves Gate [] Plug [](2)	3-1/8*		3,000	3-1/8*		5,000	3-1/8*		10,000
12	Lines		3*	1,000		3*	1,000		3"	2,000
13	Lines	1	3"	1,000		3"	1,000	•	3"	2,000
14	Remote reading compound standpipe pressure gauge			3,000			6,000			10,000
15	Gas Separator		2'x5'			2'x5'			2'x5'	
16	Line		4*	1,000		4*	1,000		4.	2,000
17	Valves Gate C	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 10M.

(3) Remote operated hydraulia choke required on 5,000 psi and 10,000 psi for drilling.

## EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS

- 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.
- 3. All lines shall be securely anchored.
- 4. Chokes shall be equipped with lungsten 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 be as straight as possible. Lines downstream from chokes shall make turns by large bends or 90° bends using buil plugged tees.

## MINIMUM BLOWOUT PREVENTER REQUIREMENTS

#### 2.,000 psi Working Pressure

2 MWP

# MACK ENERGY CORPORATION EXHIBIT #1-A

#### STACK REQUIREMENTS Min. Min. Nominal LD. No. Item Flowline 1 2" 2 Fill up line Drilling nipple 3 Annular preventer 4 Two single or one dual hydraulically 5 operated rams Drilling spool with 2" min. kill line and 6**a** 2" choks 3" min choke line outlets 2" min, kill line and 3" min, choke line 6h outlets in ram. (Alternate to 6a above.) Gate 🗇 3-1/8" 7 Valve Plug 🗇 Gate valve-power operated 3-1/8" 8 3\* 9 Line to choke manifold Gale 🗌 2-1/18" 10 Valves Plug 🗇 2-1/18" Check valve 11 Casing head 12 Gate 🗆 1-13/18\* 13 Valve Plug 🗆 Pressure gauge with needle valve 14 2" Kill line to rig mud pump manifold 15



		OPTIONAL		
16	Flanged valve		1-13/16"	

# CONTRACTOR'S OPTION TO FURNISH:

- 1. All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 2,000 psi. minimum.
- 2. Automatic accumulator (60 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.
- 4. Kelly equipped with Kelly cock.
- 5.Inside blowout prevventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
- 6.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.

#### MEC TO FURNISH:

1.Bradenhead or casinghead and side valves.

#### **GENERAL NOTES:**

- 1. Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 2.All connections, valves, littings, piping, etc., subject to well or pump pressure must be llanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through cho"s. Valves must be full opening and suitable for high pressure mud service.
- 3.Controls to be of standard design and each marked, showing opening and closing position.
- 4. Chokes will be positioned so as not to hamper or delay changing of choke beans, Replaceable parts for adjustable choke, other bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.
- 5. All valves to be equipped with handwheels or handles ready for immediate U188.
- 6.Choke lines must be suitably anchored.

- 7.Handwheels and extensions to be connected and ready for use.
- 8. Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- 9.All seamless steel control piping ( 2000 psi working pressure) to have flexible Joints to avoid stress. Hoses will be permitted.
- 10.Casinghead connections shall not be used except in case of emergency.
- 11.Do not use kill line for routine fill-up operations.



EXHIBIT #1-A