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300 FEL & 900 FEL       Set 20 1175 K27E         ILE DISTANCE FININEES AND DIMECTION FROM NEARST TOWN GORST OFFICE*       LOUDING FORMERST TOWN GORST OFFICE*         ILE DISTANCE FROM PROPOSED         11 DISTANCE FROM PROPOSED         11 DISTANCE FROM PROPOSED         12 DISTANCE FROM PROPOSED         12 DISTANCE FROM PROPOSED         10 DISTANCE FROM PROPOSED         10 DISTANCE FROM PROPOSED         11 DISTANCE FROM PROPOSED         12 DISTANCE FROM PROPOSED CATION*         10 DISTANCE FROM PROPOSED CATION*         10 DISTANCE FROM PROPOSED CATION*         10 DISTANCE FROM PROPOSED CATION*         12 DISTANCE FROM PROPO	4. LOCATION OF WELL At surface				State requirement.*)	\$/		
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Exhibit #1- Well Location Plat       Image: Control Plat         Exhibit #2- Vicinity Map       Image: Control Plan         Exhibit #2- Vicinity Map       Exhibit #2- Vicinity Map         Exhibit #3- Location Verification Map       Image: State of the state of th	productive, 5 1/2" ca with federal regulati	asing will be cemented	l. If non-produc s as per Onshore	tive, 1 e Oil	the well will be plugg and Gas Order #1 ar	ged and ab	bandoned in a manor in the following atta	consistent chments:
EXhibit #3- Location Verification Wap       Exhibit #4- Check to program         3. Surface Use & Operating Plan       Exhibit #8- H2S Safety Equipment         Exhibit #4- One Mile Radius Map       Exhibit #9- BOPE Schematic         Exhibit #5- Production Facilities Layout       Exhibit #9- BOPE Schematic         NABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program. if any.         24.       SIGNED       Math         PERMIT NO.       APPROVAL DATE         Application approval does not warrant or certify that the applicant holds legal or equitable tile to those rights in the subject lease which would entitle the applicant to conduct operations thereor CONDITIONS of APPROVAL, IF ANY:	Exhibit #1- Well	Location Plat	4. <u>Certii</u>	icatio	<u>11</u>			
Surface Use & Operating Plan Exhibit #4- One Mile Radius Map Exhibit #5- Production Facilities Layout Exhibit #5- Production Layout      Surface Describe PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.      SIGNED Math J. Blowers      (This space for Federal or State office use)      PERMIT NO.      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 thereor CONDITIONS OF APPROVAL, IF ANY:      Acting	Exhibit #3- Locat	tion Verification Map	Exhib	it #7-	H2S Warning Sign		5	6-99
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SIGNED       Math.f. Browen       DATE       03/11/1999         (This space for Federal or State office use)         PERMIT NO.					ata on present productive zon	e and propose	d new productive zone. If pro	posal is to drill or
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CONDITIONS OF APPROVAL, IF ANY:	PERMIT NO.				APPROVAL DATE			
Assistant Field Office Manager, /S/LARRY D. BRAY JUL 2 7 1999			olicant holds legal or equ	Act	ing			uct operations thereof
		ARRY D. BRAY			Assistant Field Offi Lands and Minerals	ice Manag s	JUL 27	19 <b>99</b>

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\*See Instructions On Reverse Side

Title 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.

DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II P.O. Drawer DD, Artenia, NM 88211-0719

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

DISTRICT IV P.O. BOX 2086, SANTA FE, N.M. 87504-2088 State of New Mexico

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Energy, Minerals and Natural Resources Department.

### OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name	
	96210	Empire Yeso	
Property Code	Property CHEYENNI	v Name E SXAXX FEDERAL	Well Number 2.
OGRID No.	Operator	Name	Elevation
013837	MACK ENERGY	CORPORATION	3623'

#### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Р	30	17 S	29 E		990	SOUTH	990	EAST	EDDY

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
		<u> </u>							
Dedicated Acres	Joint o	r Infill Co	nsolidation (	code Ore	der No.				
40									

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

LOT 1 27.71 AC.		OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
		Matt J. Brewer <u>Matt J. Brewer</u> Printed Name
LOT 2 27.94 AC.		Geological Engineer Title 2/25/99 Date SURVEYOR CERTIFICATION
LOT 3 28.17 AC.		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 supervison, and that the same is true and correct to the best of my belief.
		SEPTEMBER 29, 1998 Date Surveyed CDG Signature & Seaf of Professional Surveyor
LOT 4 28.40 AC.	990'	Certificate No. RONACD J. EDSON 3239 CARY EDSON 12641

VICINITY MAP



SCALE: 1'' = 2 MILES

SEC. <u>30</u> TWP.<u>17–S</u> RGE. <u>29–E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>990' FSL & 990' FEL</u> ELEVATION <u>3623'</u> OPERATOR <u>MACK ENERGY CORPORA</u>TION LEASE <u>CHEYENNE FEDERAL</u>

JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117

# Attachment to Exhibit #9 NOTES REGARDING THE BLOWOUT PREVENTERS Cheyenne Federal #2 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.

# Mack Energy Corporation Exhibit #9 BOPE Schematic



## Choke Manifold Requirement (2000 psi WP) No Annular Required

Minimum 4" Nominal choke and kill lines Adjustable Choke To Pit Blowout Preventer Stack Outlet Bleed line to Pit Adjustable Choke

(or Positive)

# Mack Energy Corporation Minimum Blowout Preventer Requirements 2000 psi Working Pressure 2 MWP EXHIBIT #10

	Stack Keyun eme		
NO.	Items	Min.	Min.
		I.D.	Nominal
1	Flowline		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"		2"
	min choke line outlets		Choke
6b	2" min. kill line and 3" min. choke line		
	outlets in ram. (Alternate to 6a above)		
7	Valve Gate	3 1/8	
	Plug		
8	Gate valve-power operated	3 1/8	
9	Line to choke manifold		3"
10	Valve Gate	2 1/16	
	Plug		
11	Check valve	2 1/16	
12	Casing head		
13	Valve Gate	1 13/16	
	Plug		
14	Pressure gauge with needle valve		
15	Kill line to rig mud pump manifold		2"

**Stack Requirements** 



OPTIONAL

OFTIONAL		
Flanged Valve	1 13/16	

#### CONTRACTOR'S OPTION TO FURNISH:

16

- All equipment and connections above bradenhead or casinghead. 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.
- BOP controls, to be located near drillers' position.
- 4. 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.
- 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 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 MEC'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.
- 6. Choke lines must be suitably anchored.
- Handwheels 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.
- Casinghead connections shall not be used except in case of emergency.
- 11. Do not use kill line for routine fill up operations.

# **Mack Energy Corporation**

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



Mud Pit

**Reserve** Pit

\* Location of separator optional

## **Below Substructure**

				umun	n require	ements				
<u> </u>			00 MWP		:	5,000 MWP			10,000 MWP	
No.		I.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" x 3" x 3" x 2"			3,000			5.000			10,000
2	Cross 3" x 3" x 3" x 2"							<u> </u>		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	2 10 10		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	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	2	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 Plug	3 1/8		3,000	3 1/8		5.000	3 1/8		10,000

Mimimum requirements

(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.

- 3. 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.