Form approved. Budget Bureau No. 1004-0136

Oil Cons. N.M. DIV Distributions on UNITED STATES W. Grand Avenue DEPARTMENT OF THE ANTESTED PUM 88210

Expires: December 31, 1991

			amphilini 88510	5. LEASE DESIGNAT	ION AND SERIAL NO.
•	BUREAU OF	F LAND MANAGEMI	ENT		94595
APPL a. TYPE OF WORK	ICATION FOR P	ERMIT TO DRII	L OR DEEPEN	6. IF INDIAN, ALLOT	TEE OR TRIBE NAME
DRI B. TYPE OF WELL OIL OIL	Gas OTHER	DEEPEN	SINGLE 2324 VILTH	2	WELL NO.
Mack Energy Corp	poration 17	837	22,22	9. API WELL NO.	Federal #1
ADDRESS AND TELEPHONE NO		<i>a</i> /	2 N S GAGO	30-01	3 7 6 9 4
P.O. Box 960, Arte	esia, NM 88211-0960	(505) 748-12	88© AND	ω 10. FIELD AND POO	L, OR WILDCAT
LOCATION OF WEL	L (Report location clearly	····	DECEMEN	Logan Drav	v Wolfcamp
At proposed prod. zoi		503 FNL & 1800 FW	L CO - ARTES	11. SEC., T., R., M., C AND SURVEY OF	OR BLK. R AREA
, to proposed prod. 201		w.c	A.C.	Sec. 25, T1	7S R27E, C
4. DISTANCE IN MILES AI	ND DIRECTION FROM NEAD		CE. 611101 681	12. COUNTY OR PA	1
5. DISTANCE FROM PROP LOCATION TO NEARES	OSED* T		O. OF ACRES IN LEASE	17. NO OF ACRES IN LEASE TO THIS WELL	NM
PROPERTY OR LEASE (Also to nearest dri	g. unit line, if any)	503	40		40
8. DISTANCE FROM PROP TO NEAREST WELL, DE OR APPLIED FOR, ON TH	CILLING, COMPLETED HIS LEASE, FT.	N/A 19. P	ROPOSED DEPTH 7200	20. ROTARY OR CABLE TOOLS Rotary	
	whether DF, RT, GR, etc.) 3545' GR	Keswell Contr	olled Water Basin	22. APPROX. DATE WG 3/10	PRK WILL START*
3.		PROPOSED CASING AN	D CEMENTING PROGRAM		
SIZE OF HOLE	CRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CE	MENT
12 1/4	J-55, 8 5/8	32	400'	Circ	
7 7 10	T EE E 1/3				
				Sufficient to	ductive, 5 1/2"
Mack Energasing will be cement or ograms as per On 1. Surveys Exhibit #1- Well Exhibit #2- Vici Exhibit #3- Loc 2. Drilling Progra 3. Surface Use & General Exhibit #4- One	gy proposes to drill to ted. If non-productive shore Oil and Gas Of Il Location Plat inity Map ation Verification Ma <u>m</u> Operating Plan E Mile Radius Map duction Facilities Lay	5. Hydrogen Exhibit #8 6. Blowout P Exhibit #1	o test the Wolfcamp Formdoning in a manner of the following attach on Sulfide Drilling Operator H2S Warning Sign - H2S Safety Equipme	Sufficient to mation for oil gas. If pro ensistent with federal regionents: 7. Responsion Plan APPROVAL SI GENERAL REG SPECIAL STIP ATTACHED	ductive, 5 1/2" plation. Specific sibility Statement
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DISTRICT I P.O. Box 1980, Hobbs, NM 68241-1980

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRIC	T TV

DISTRICT III

P.O. BOX 2088, SANTA FE, N.M. 87504-2088

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

□ AMENDED REPORT

API Number	Pool Code	Pool Na	me
	96960	Logan Draw Wo	olfcamp
Property Code	Property	Name	Well Number
	REDBUD F	EDERAL	1
OGRID No.	Operator		Elevation
013837	MACK ENERGY	CORPORATION	3545'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
С	25	17-S	27-E		503'	NORTH	1800'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL	or	lot	No.	Section	Townshi	P	Range	Lot Id	in	Feet from the	North/South line	Feet from the	East/West line	County
De	dic	ated	Acre	es Joint	or Infill	Cons	olidation (ode	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

	7
3545.4' 👸 3537.3'	OPERATOR CERTIFICATION
1800'	I hereby certify the the information contained herein is true and complete to the
1800	best of my knowledge and belief.
3551.3' 3547.3'	
y x	(risse D. Cat
	Signature
	Crissa D. Carter
	Printed Name
	Production Analyst
	Title
	2/19/2003
	Date
	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
	supervison, and that the same is true and correct to the best of my belief.
	correct to the dest of my benef.
	FEBRUARY 17, 2003
	Date Surveyed A.W.B
	Signature & Seal of Professional Surveyor
	1 Totabaloual Surveyor
	1 1 1 60
	Dary & Woon 2/18/03
	03.11.0202
	Certificate No. RONALD J. EIDSON 3239
·	GARY EIDSON 12641
	Marie Carlo

مستنجنوب

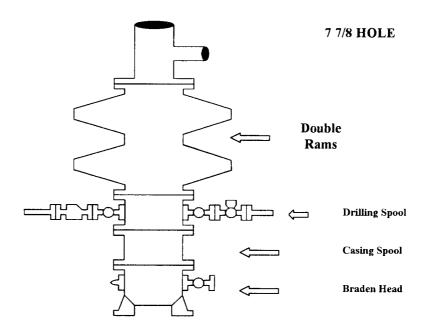
Attachment to Exhibit #9 NOTES REGARDING THE BLOWOUT PREVENTERS Redbud Federal #1 Eddy County, New Mexico

- 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.

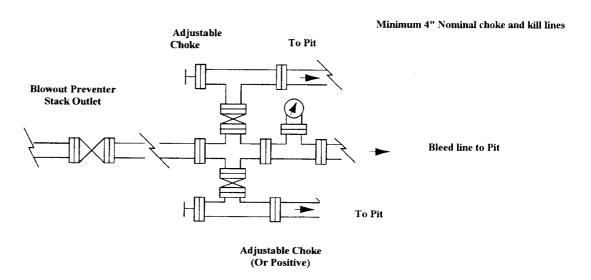
mc 1995

Mack Energy Corporation

Exhibit #9 **BOPE Schematic**



Choke Manifold Requirement (2000 psi WP) No Annular Required



.... P.A.

Mack Energy Corporation

Minimum Blowout Preventer Requirements

2000 psi Working Pressure 2 MWP EXHIBIT #10

Stack Requirements

	Stack Nequilent	1112	
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" 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"

OP	Т	IONAL	

	OI II OI WILE		
16	Flanged Valve	1 13/16	

CONTRACTOR'S OPTION TO FURNISH:

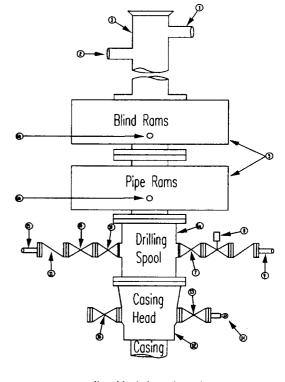
- All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 2000 psi minimum.
- Automatic accumulator (80 gallon, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
- BOP controls, to be located 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.
- 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.
- Type RX ring gaskets in place of Type R.
 - 1. Bradenhead or casing head and side valves.
 - 2. Wear bushing. If required.

3.

MEC TO FURNISH:

GENERAL NOTES:

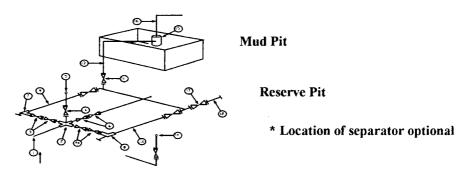
- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure 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.
- 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



Below Substructure

Mimimum requirements

			000 MWP	***************************************	n require	ments 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			
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	1	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 Plug	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.
- 3. All lines shall be securely anchored.
- 4. Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.
- 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.
- 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.