PO Box 1980, Hobbs, NM 88241-1980 District II 811 S. 1st Street Artesia, NM 88210-1404

District III 1000 Rio Brazos Rd, Aztec, NM 87410

District IV

PO Box 2088, Santa Fe, NM 87504-2088

DIALC OF INCM INICATED Energy, Minerals & Natural Resourses Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Revised February 10, 1994 Instructions on back
Submit to Appropriate District Office
State I associated Fee Lease - 5 Copies

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APPLICA	TION .	FOR PE	RMII			VIER ANDE	SPEN	, PEUGBA	ACK,		DD A ZONE	
			N	-	r Name and Add sy Corporation	/N	19 TH	5			013837	
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			, A	Artesia, NA	A 88211-0960	181	KEOS.	RTESI'	1	30-0	015-30037	
Proper	Property Code						<u>.</u> v		<u>L</u>		Well No.	
004	6120				Me	esquite State	F1 1.	ا المائد في المائد ال			1	
					Surface 1	Location	***	**************************************			, ,	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South I	line	Feet from the	East/W	est line	County	
L	20	17S	29E		1650	South		330	W	√est	Eddy	
· ,·		Pro	posed I	Bottom 1	Hole Locat	ion If Diffe	erent	From Surf	face			
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South l	line	Feet from the	East/W	est line	County	
	<u> </u>	Propose	d Pool 1	<u>L</u>	<u>                                     </u>			Propose	d Pool 2		<u> </u>	
	East	Empire Y	eso	96610								
Work Ty	pe Code	<del></del> -	Well Type	Code	Cable	/Rotary		Lease Type Co	de	Ground	Level Elevation	
	1		0			3	:	S		3646		
Mul	tiple		Proposed	Depth					Spud Date			
N	· 0		4200	,	Paddock			LaRue			6/1/99	
					l Casing ar		Prog	ram				
Hole Si	ize	Casir	g Size		ng weight/foot				Estimated TOC			
17 1/2	2	13	3/8		54.5	/25 350'	5 350' As Circ					
12 1/4	4	8 :	5/8	24#		800'		Sufficien	t to Circ	c	<del> </del>	
7 7/8		5	1/2		17#	4200'		Sufficient to Circ		С		
		16.17	11	- DEED	EN DI LIC DAC	W aims the data	on the n	resent productiv	- 70na an	daranasad	l new productive	
zone. Describe	the blowou	t prevention fack Energ	program, is y Corpor	any. Use adation prope	ditional sheets if roses to drill to ck Zone, run 5	350', run 13 3	/8" cas	ing and ceme	nt. Dril	l to 800',		
Note: On	Producti	on string, a	fluid cal	iber will be	run, will figur	€ cement, with	n 25% (	excess, attem	pt to cir	culate.		
I hereby certify		ormation give	n above is t	rue and comp	lete to the best	OI	L CO	NSERVA'	TION	DIVIS	ION	
of my knowledge Signature		412			7	Approval by:	0010	INA: OLONI	th by	All in	CIM BX	
Printed name:	40/2	Matt J. F	Brewer		7	Title:		inal signi Rict II suf	ERVIS	OR	SUIT A VE	
Title:		Geological	Engineer		-	Approval Date: 2	3 - 2	6.99	Expintion	Dstc 3	-26.co	
Date:	2/24/1000		Phone:	(505)749	- 11	Conditions of App						

(505)748-1288

03/24/1999

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

#### 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 BD, Artemia, NM 88211-0719

DISTRICT IV

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

P.O. Box 2068, Santa Fe, NM 87504-2088

#### 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	
	96610	East Empire Yeso	
Property Code	Property N	lame	Well Number
006120	mesquite xencontexes S	TATE	1X 5
OGRID No.	Operator N	iame	Elevation
013837	MACK ENERGY C	ORPORATION	3646

#### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	20	17 S	29 E		1650	SOUTH	330	WEST	EDDY

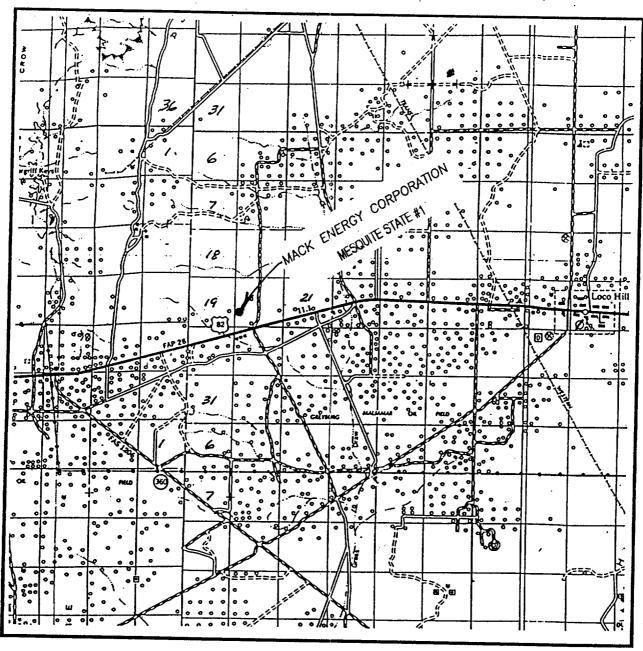
#### Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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

			OPERATOR CERTIFICATION  I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
	! ! ! +		 Signature
	 		Crissa D. Carter Printed Name Production Clerk
			1/22/98  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.
330'	   		 JANUARY 6, 1998  Date Surveyed William JLP  Signature & Sect of July  Professional Surveyor July  ME J.
1650'	 	   	MEX. 1-09-98  MEX. 1-09-98  MEX. 1-09-98
	[   - 		 Certifinate No. RONALD STOSON. 3239  CORRESPONDE EIDSON. 12041  INTERNATIONALD. 12185

### VICINITY MAP



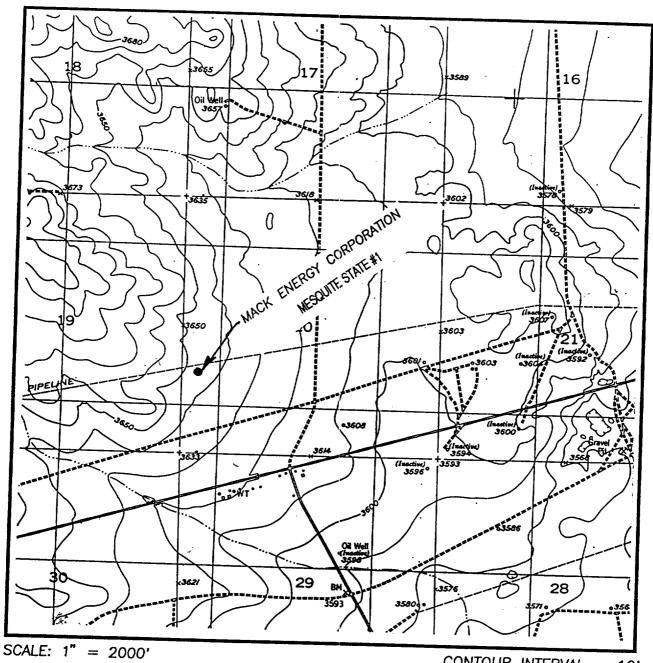
SCALE: 1" = 2 MILES

SEC. <u>20</u>	TWP. <u>17-S</u> RGE. <u>29-E</u>
SURVEY	N.M.P.M.
	EDDY
DESCRIPTIO	N 1650' FSL & 330' FWL
ELEVATION_	3646'
OPERATOR_	MACK ENERGY CORPORATIO
LEASE	MESQUITE STATE

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

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## LOCATION VERIFICATION MAP



CONTOUR INTERVAL - 10'

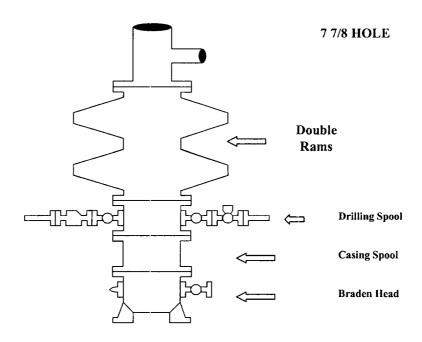
SEC TWP	<u>. 17–S</u> RGE. <u>29–E</u>
SURVEY	N.M.P.M.
	EDDY
	50' FSL & 330' FWL
	3646'
OPERATOR MAC	K ENERGY CORPORATION
LEASE	MESQUITE STATE
U.S.G.S. TOPOGE	RAPHIC MAP
RED LAKE SE, 1	N.M.

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

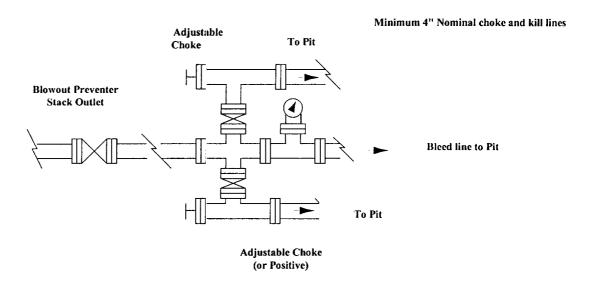
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## **Mack Energy Corporation**

# Exhibit #9 BOPE Schematic



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



Blowout Preventers Page 16

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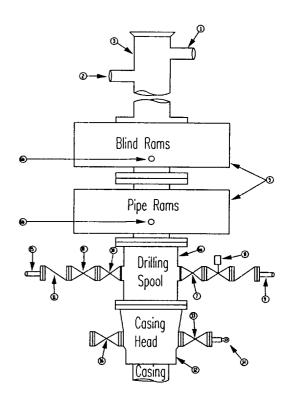
#### **Mack Energy Corporation**

#### **Minimum Blowout Preventer Requirements**

2000 psi Working Pressure 2 MWP EXHIBIT #10

#### **Stack Requirements**

	Stack Requireme		
NO.	Items	Min.	Min.
		I.D.	Nom: nal
1	Flowline		2"
2	Fill up line		2"
3	Drilling nipple		
4	Annular preventer		1
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 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.
- 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.
- Extra set pipe rams to fit drill pipe in use on location at all times.
- 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.

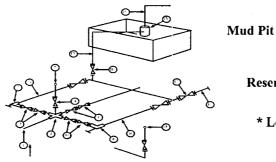
#### **GENERAL NOTES:**

- 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.
- 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 Corporat.

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



**Reserve Pit** 

\* Location of separator optional

#### **Below Substructure**

Mimimum requirements										
		3,000 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			
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	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 Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000

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

#### EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTION

- All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating.
- 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.
- 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.