District I PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals & Natural Resourses Department

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

Submit to Appropriate Distric

2.0
811 S. 1st Street Artesia, NM 88210-140
District III
1000 Rio Brazos Rd, Aztec, NM 87410
District IV

PO Box 2088, Santa Fe, NM 87504	-2088	AMENDED REPORT		
APPLICATION FO	R PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGB	ACK, OR ADD A ZONE		
-	Operator Name and Address Mack Energy Corporation P.O. Box 960 Artesia, NM 88211-0960	OGRID Number 013837 API Number 30-015-30913		
Property Code	Property Name	Well No.		
023810 Mesquite State				

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	20	17S	29E		990	South	1650	West	Eddy
Proposed 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
					ļ				

Surface Location

Proposed Po	ol 1	Proposed Pool 2	
East Empire Yeso	96610		

Work Type Code	Well Type Code	Cable/Rotary	Lease Type Code	Ground Level Elevation
N	0	R	S	3627
Multiple	Proposed Depth	Formation	Contractor	Spud Date
No	4200'	Paddock	LaRue	1/17/2000

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2	13 3/8	54.5	390'_35c'	36V Circ	Surface
12 1/4	8 5/8	24#	80 3ec	Sufficient to Circ	11
7 7/8	5 1/2	17#	4200'	Sufficient to Circ	11
				<u></u>	

Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Mack Energy Corporation proposes to drill to 126, run 13 3/8" casing and cement. Drill to 800', run 8 5/8" casing and cement. Drill to 4200" and test Paddock Zone, run 5 1/2" casing and cement. Put well on production.

Note: On Production string, a fluid caliber will be run, will figure cement, with 25% excess, attempt to circulate.

I hereby certify that the information given above of my knowledge and belief	is true and complete to the bo	OIL CONSERVATION DIVISION				
Signature	Cat	Approval by:	ORIGINAL SIGN	IED BY TIM W. GUM BA		
Printed name: Crissa D. Carter	Title:	DISTRICT II SU	PERVISOR			
Title: Production Analy	Approval Date:	1-11-00	Expintion Dstc / // C/			
Date: Phone:		Conditions of Approval:				
1/11/00 (505)748-1288		Attached				

	The second secon

DISTRICT I P.O. Des 1880, Hobbs, NN 88341-1880

# State of New Mexico

Energy, Minerals and Ratural Resources: Department

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

DISTRICT II P.O. Bruwer BD, Artonia, NM 86211-0710

DISTRICT III 1000 Rio Brasos Rd., Astec, NM 67410

DISTRICT IV P.O. BOX 2006, SANTA FE, N.M. 87504-2086

## OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

Foe Lease - 8 Copies

## WELL LOCATION AND ACREAGE DEDICATION PLAT

▲PI Number	Pool Code	Pool Code Pool Name				
	96610	East Empire Yes	0			
Property Code	Property Name Well					
23810	MESQUITE STATE 4					
OGRID No.	Operator		Elevation			
13837	MACK ENERGY CORPORATION 3627					

## Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	20	17 S	<b>29</b> E		990	SOUTH	1650	WEST	EDDY

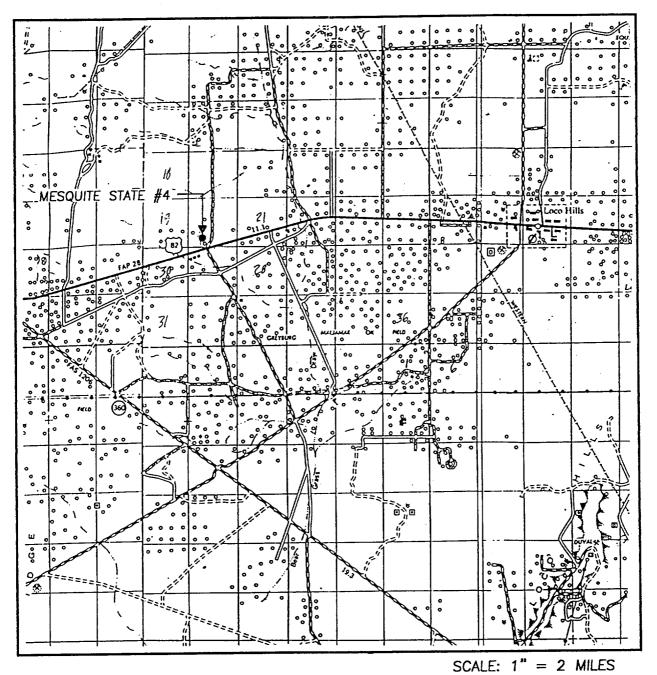
#### Bottom Hole Location If Different From Surface

			Bottom	HOTE TO	CAMON IL DITTE	Henr From Sur	IACC		
UL or lot No.	Section	Townshi	p Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infili	Consolidation	Code Or	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 Signature
	Crissa D. Carter Printed Name
	Production Analyst
	Date Title
	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.
	JANUARY 6, 2000
	Date Surveyed LMP Signature & Seal of Professional Surveyor
1650'	Benale Esignos estor/00
,,00	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )
6	Certificate No. ROMAIN I, KIDSON 3239 GARY RIPSON 12841 WACON McDONALD 12185

# "ICINITY MAP"



SEC. 20 TWP. 17—S RGE. 29—E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 990' FSL & 1650' FWL

ELEVATION 3627

OPERATOR MACK ENERGY CORPORATION

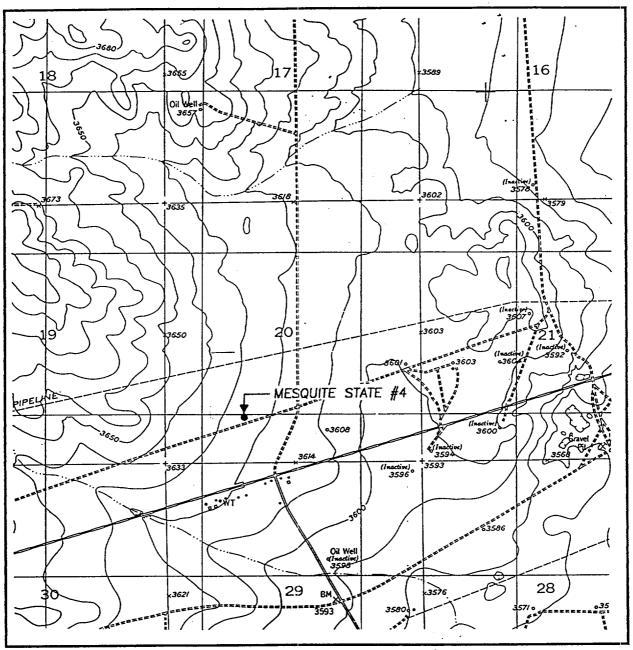
LEASE MESQUITE STATE

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505 393-3117



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# LOCATION VERFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: RED LAKE SE, N.M. - 10'

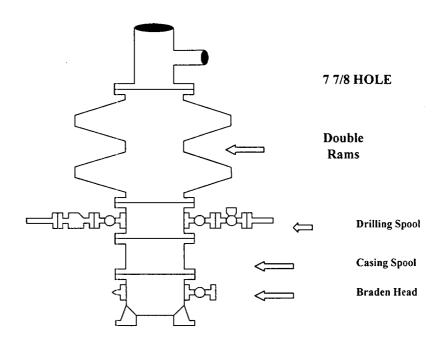
SEC20_	TWP. <u>17-S</u> RG	E. <u>29-E</u>
SURVEY	N.M.P.M	•
COUNTY	EDDY	
DESCRIPTIO	N 990' FSL &	1650' FWL
ELEVATION_	362	7
OPERATOR <u>I</u>	MACK ENERGY	CORPORATION
LEASE	MESQUITE	STATE
	POGRAPHIC M. SE , N.M.	

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505 393-3117

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# **Mack Energy Corporation**

# Exhibit #1 BOPE Schematic



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

Adjustable

Blowout Preventer
Stack Outlet

To Pit

Adjustable Choke
(or Positive)

To Pit

Minimum 4" Nominal choke and kill lines

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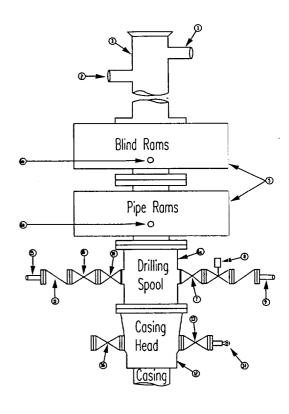
# Mack Energy Corporation

## Minimum Blowout Preventer Requi. Aents

2000 psi Working Pressure 2 MWP EXHIBIT #2

Stack Requirements

	Stack Requirement	40	
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"



#### **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.
- 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 easing 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:

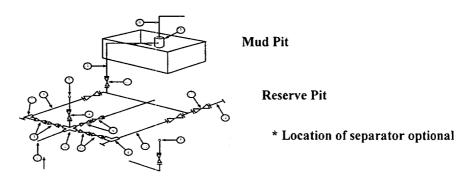
- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure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

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# **Mack Energy Corporat**

Exhibit #3
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

		3,0	00 MWP		5 Tequil 5	,000 MWP		1	10,000 MWP	
No.		I.D.	NOMINAL	Rating	I.D.	Nominal	Rating	I.D.	Nominal	Rating
ì	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"							1		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 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.
- 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.

Blowout Preventers Page 3

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