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

12/14/99

# State of New Mexico Energy, Minerals & Natural Resourses Department

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

Point C-101, Revised February 10, 1994 Instructions on back Submit to Appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies

# 1000 Rio Brazos Rd, Aztec, NM 87410 District IV

O Box 2088, San	ta Fe, NM 8	7504-2088	3						<u> </u>	AMEN	DED REPORT
APPLICA	TION I	FOR P	ERMIT 1	ro drii	LL, RE-EN	TER, DEE	PEN, I	PLUGBA	ACK,		DD A ZONE
				Operator	Name and Add	ddress				OGRID Number	
	Mack Energy Corporati										013837
	P.O. Box 960 Artesia, NM 88211-09									Α	PI Number
			A	riesia, iniv	1 00211-0900						30-015-30866
Proper	Property Code										Well No.
02:	3810					esquite State					7
					Surface l	Location				-	
UL or lot no.	Section	Townsh	nip Range	Lot Idn	Feet from the	North/South I	ine Fe	et from the	East/W	est line	County
E	20	17S	29E		2310	North		330	V	Vest	Eddy
		P	roposed I	3ottom l	Hole Locat	ion If Diffe	erent F	rom Sur	face		
UL or lot No.	Section	Townsh	ip Range	Lot Idn	Feet from the	North/South 1	ine Fe	et from the	East/W	est line	County
		Prop	posed Pool I			<u> </u>		Propos	d Pool 2	2	
	East	Empire	Yeso !	96610							
						<b></b>	r	<del></del>	- I		15 151
Work T	ype Code		Well Type	e Code	Cable	ole/Rotary Lease Type Coo					
1	٧		0			R S			3649		
Mu	ltiple		Proposed	Depth	Forr	nation	Contractor			Spud Date	
N	lo		4200		Paddock			LaRue			1/13/2000
			F	Proposed	d Casing a	nd Cement	Progr	· · · · · · · · · · · · · · · · · · ·		r	
Hole S	ize	C	Casing Size	Casi	ng weight/foot	Setting D	epth	Sacks	of Cement	:	Estimated TOC
17 1/	2		13 3/8		54.5	350'			irc		
12 1/	<b>'</b> 4		8 5/8		24#	800'		Sufficie	nt to Ci	rc	<del>, , , , , , , , , , , , , , , , , , , </del>
7 7/8	8		5 1/2		17#	4200' Suffi		Sufficie	ufficient to Circ Pas		ast ID-2
										1	2-17-99
				· DEED	EN DIVIGIDA	CK -i - the date	the	aant producti	Va 7000 0	H-	PE 4 Loc
Describe the p zone. Describe	proposed pro the blowo	ogram. If a ut prevent	this application tion program, i	n is to DEEP fany. Use ad	EN or PLUG BA Iditional sheets if	CK give the data necessary.	on the pre	sent producti	ve zone a	ina propos	sea new productive
Mack En	ergy Corp	oration	proposes to	drill to 350	)', run 13 3/8"	casing and cen	nent. Dr	ill to 800', r	un 8 5/8	3" casing	g and cement.
Drill to 4	200" and	test Pad	dock Zone, i	run 5 1/2" o	casing and cen	nent. Put well	on produ	iction.			
			,		Ü		-				
Note: O	n Droduct	ion etrin	og a fluid ca	liher will h	enın will fio	ure cement, wi	th 25% e	xcess, atter	not to c	irculate.	
Note. O	II I Ioduct	1011 311111	ig, a maia ca	11001 11111 0		<b></b>		,	1		
			given above is	true and com	plete to the best	O	IL CO	NSERVA	TION	IDIVI	SION
of my knowled	ge and belief		\ /	.0	ŀ	Approval by:					ALK:
Signature	Lru	<u> </u>	1). (a	<u> </u>	·		ORIGIN	AL SIGNE	D BY	FIN W.	GUM
Printed name:		Criss	a D. Carter			Title: Approval Date:		CT II SUP			2 1/1 = 2
Title:		Produc	tion Analys	t				4-99	Zapinti		2-14-00
Date:	Date: Phone:					Conditions of Ap	proval:				

Attached

(505)748-1288

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DISTRICT I P.C. Box 1980, Bobbs, NM 88241-1980

# State of New Mexico

Energy, Minerals and Natural Resources Departmen

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

DISTRICT IV

DISTRICT III 1000 Rio Brazos Rd., Astec, NM 87410 OIL CONSERVATION DIVISION

P.O. Box 2088

P.O. BOX 2066, SANTA FE, N.M. 87504-2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 96610	Pool Name East Empire Yeso		
Property Code 023810	Property MESQUITE		Well Number 7	
OGRID No.	Operator	Name	Elevation	
013837	MACK ENERGY	CURPURATION	3649	

#### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	20	17 S	29E		2310	NORTH	330	WEST	EDDY

#### Bottom Hole Location If Different From Surface

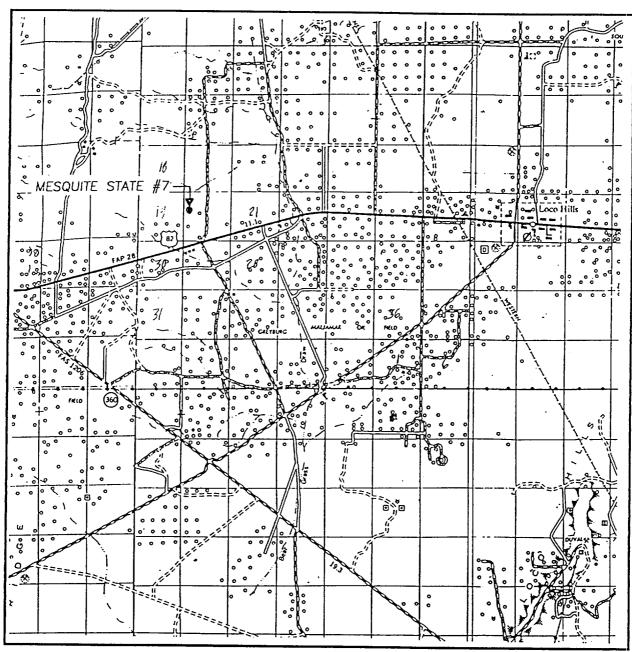
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation (	Code Or	der No.				
40									

## 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

	011 11 11011 011111	 LEN APPROVED DI II	2772201
			OPERATOR CERTIFICATION  I hereby certify the the information contained herein is true and complete to the best of my knowledge and beltaf.
- 2310'		 +	Cussa D. Carl
			Crissa D. Carter Printed Name Production Analyst
330'			Title   2/14/99 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.
		 	NOVEMBER 24, 1999  Date Surveyed LMP  Signature & Seal of Professional Surveyor Only
			homat (230 ulion 12-07-99
			Certificate No. BONALD EDSON 3239  SARY EDSON 12641  ON PROFESSACON REDONALD 12185

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# VICINITY MAP



SCALE:	1"	=	2	MILES
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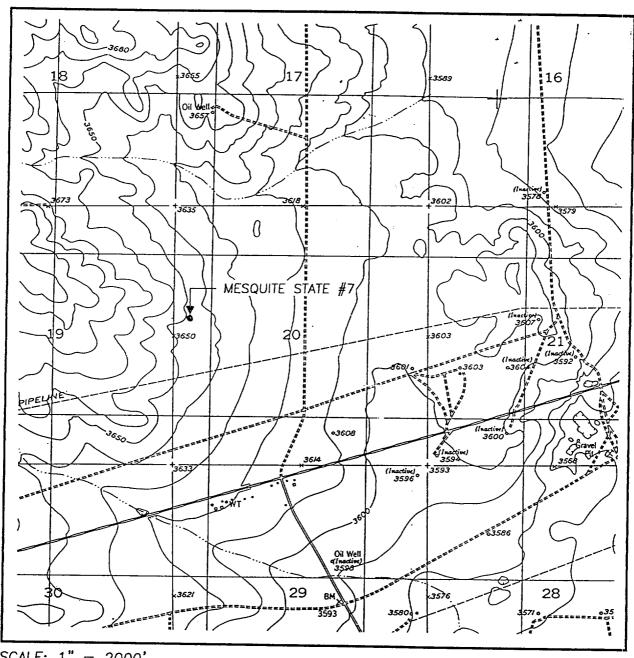
3EC. <u>20</u> 11	NP. 17-5 RGE. 29-E
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTION_	1320' FNL & 330' FWL
ELEVATION	3649
OPERATOR <u>MA</u>	CK ENERGY CORPORATION
LEASE	MESQUITE STATE

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



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# LOCALION VERFICATION MAP



SCALE: 1" = 2000'

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

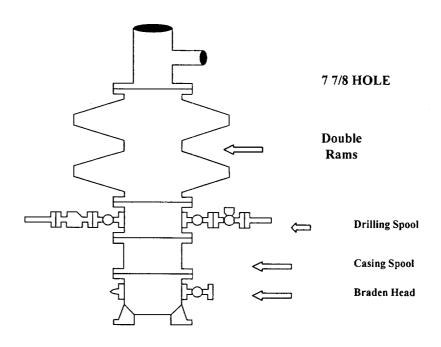
SEC. <u>20</u> TWP. <u>17-S</u> RGE. <u>29-E</u>
SURVEYN.M.P.M.
COUNTYEDDY
DESCRIPTION 1320' FNL & 330' FWL
ELEVATION3649
OPERATOR MACK ENERGY CORPORATION
LEASE MESQUITE STATE
U.S.G.S. TOPOGRAPHIC MAP RED LAKE SE, N.M.

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

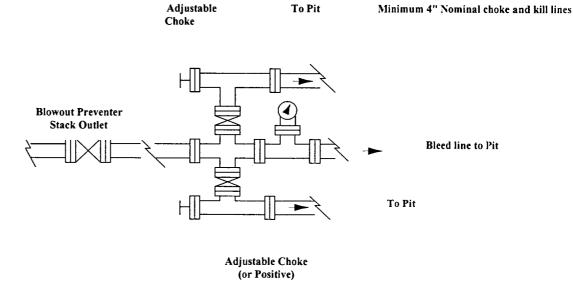
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# **Mack Energy Corporation**

# Exhibit #1 BOPE Schematic



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



Blowout Preventers Page 1

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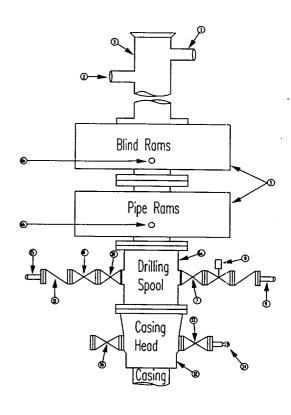
# **Mack Energy Corporatio**

# **Minimum Blowout Preventer Requirements**

## 2000 psi Working Pressure 2 MWP EXHIBIT #2

**Stack Requirements** 

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.
- 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.

## MEC TO FURNISH:

- 1. Bradenhead or casing head and side valves.
- 2. Wear bushing. If required.

## GENERAL NOTES:

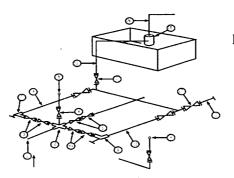
- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure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

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



Mud Pit

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		1	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		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	T	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.
- 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.

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