Proper	rtesia, NM 8 Rd, Aztec, N ra Fe, NM 8	38210-1404 IM 87410 7504-2088	О <u>МІТ Т</u> м	Energy, Mind IL CON Santa TO DRII Operator ack Energy P.O. B		DN DIVISIONS STATES OF TER SPEED STATES OF TER	25 25	A CEIVED ARTESIABA	nit to A	AMENIOR AD	bruary 10, 1994 ructions on back District Office Lease - 6 Copies DED REPORT  DD A ZONE  UD Number  11 Number  21 Number 20-015- Well No.  8
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South li	ne	Feet from the	East/We	est line	County
N	19	17S	29E		950	South		1895	W	'est	Eddy
11	17			Bottom I	Hole Locati	<u> </u>	rent	t From Surf	ace		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South 1		Feet from the	East/We	est line	County
		Proposed	Pool 1					Propose	d Pool 2		
	Е	mpire Yeso	962	210							
Worls To	pe Code		Vell Type	Cada	Coble	Rotary		Lease Type Co	de	Ground	Level Elevation
		'		Code							3663'
Mul	tiple		O Toposed 1	Depth	R Formation		S			Spud Date	
N	•	1	4350'		Paddock		LaRue		4/30/02		
18	0				Casing a		Pro		1.		
Hole S	ize	Casin			ng weight/foot	Setting D	_		f Cement		Estimated TOC
17 1/2	2	13 3	3/8		48	X		C	irc		Surface
12 1/-		8 5	/8		24	8/0	1	Sufficie	nt to Cir	irc Surface	
7 7/8	3	5 1	/2		17	350		Sufficien	nt to Cir	С	Surface
	*	12	1/6/	13	2,-/	BA				_   _	
		15	/ <u> </u>	ナーン	L S /	CK give the data	on the	present productiv	e zone ar	nd propose	d new productive
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 300', run 13 3/8" casing and cement. Drill to 800', run 8 5/8" casing and cement.  Drill to 4350" 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.  **To an Augustice Section of Rustler @ 325											
I hereby certify of my knowledg		^	above is t	true and comp	plete to the best	OI	LC	ONSERVA	TION	DIVIS	SION
Signature	ge and belief	('40	527	$\sim$ $\alpha$	2 ac	pproval by:	OBI	GINAL SIGN		TIM W.	GUM
Printed name:					<del></del>	Title:	-	THE LABOR	-ERNS	<b>VK</b>	
Title:	-	Crissa D.				Approval Date:	<u> </u>	0.0.00	Expintio	n Ds <b>AP</b>	03 2002
		Production	Analyst Phone:			Conditions of App	otoval.	U 3 2002			· · · · · · · · · · · · · · · · · · ·
Date:	4/2/02		FHORE	(505)748-	1	Attached		-			
	7/2/02			(333)170-	<u></u>						

4.5

### State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

to Appropriate District Office State Lease – 4 Copies Fee Lease – 3 Copies

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

# OIL CON

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

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

P.O. BOX 2088, SANTA FE, N.M. 67504-2088

DISTRICT IV

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Na	ame
	96210	Empire	Yeso
Property Code	Pro	perty Name	Well Number
16394	STA	8	
OGRID No.	Op	erator Name	Elevation
013837	MACK ENER	GY CORPORATION	3663'

#### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Ν	19	17-S	29-E		950	SOUTH	1895	WEST	EDDY

### Bottom Hole Location If Different From Surface

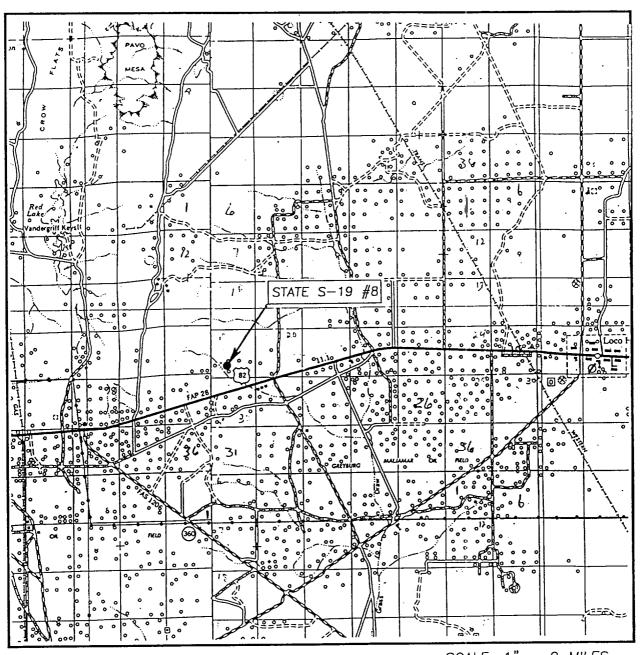
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acre	Joint o	or Infill Co	nsolidation	Code Or	der No.				
40									

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

	OPERATOR CERTIFICATION  I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
	Signature
SPC NME NAD 1927	Crissa D. Carter Printed Name
Y=660404.61 X=567145.72 LAT.= 32*48'55.26"N LONG.= 104'06'53.19"W	Production Analyst Title 4/2/2002 Date
<u> </u>	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.
	MARCH 21, 2002  Date Surveyed AWB  Signature & Scal of Professional Surveyor
1895'	Romald & Bridger 3/28/02
6	Certificate, No. RONALD FEIDSON 3239 CROFFSS MARKETSON 12641

. =		

# VICINITY MAP



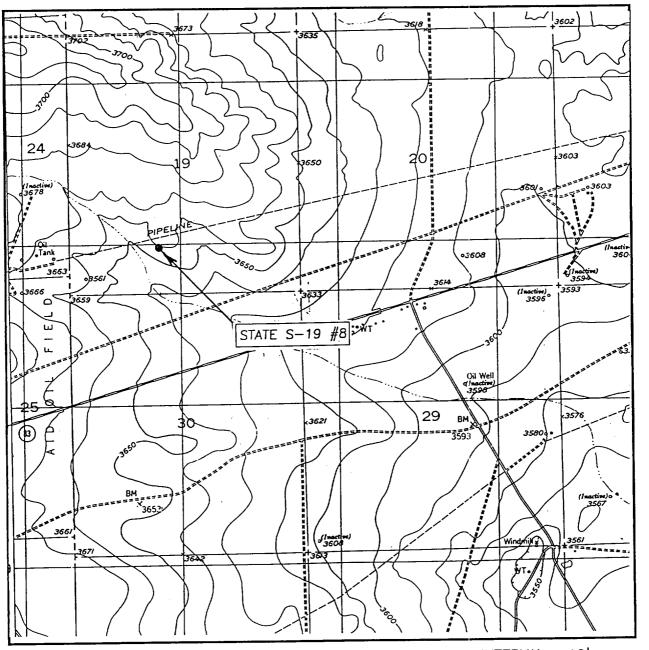
SCALE: 1" = 2 MILES

SEC. <u>19</u> TWP.	17-S RGE. 29-E
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTION 95	0' FSL & 1895' FWL
ELEVATION	3663'
OPERATOR MACK	ENERGY CORPORATION
	STATE S-19

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

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# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

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

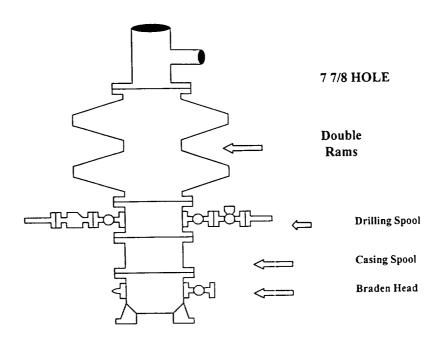
SEC. 19 IWP. 1	7-5 RGE. 29-E
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTION 950	FSL & 1895' FWL
ELEVATION	3663'
OPERATOR MACK	ENERGY CORPORATION
LEASE	STATE S-19
U.S.G.S. TOPOGRA	

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

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# **Mack Energy Corporation**

# Exhibit #1 BOPE Schematic

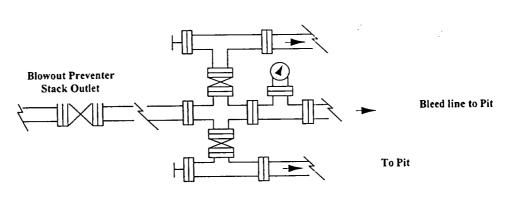


Choke Manifold Requirement (2000 psi WP)

No Annular Required

Adjustable Choke To Pit

Minimum 4" Nominal choke and kill lines



Adjustable Choke (or Positive)

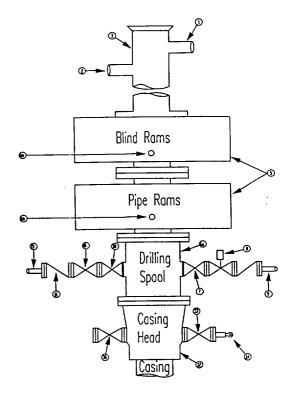
# **Mack Energy Corporation**

# **Minimum Blowout Preventer Requirements**

2000 psi Working Pressure
2 MWP
EXHIBIT #2

# Stack Requirements

	Stack Requiremen		
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	
1	Plug		
14	Pressure gauge with needle valve		
15	Kill line to rig mud pump manifold		2"



#### **OPTIONAL**

16 Flanged Valve 1 13/16				
10	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 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.
- 9. Type RX ring gaskets in place of Type R.

#### MEC TO FURNISH:

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

### GENERAL NOTES:

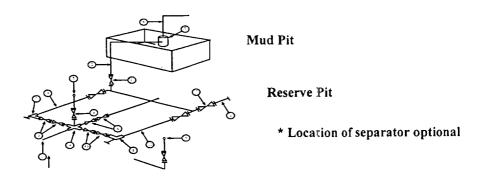
- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure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



### **Below Substructure**

#### Mimimum requirements

		3,000 MWP 5,000 MWP				1	0,000 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		L	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'	L
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.