District 1 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

State of New Mexico Energy, Minerals & Natural Resourses Department OIL CONSERVATION DIVISION

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

Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies

AMENDED REPORT

Fee Lease - 5 Copies

APPLICA	TION	FOR	PEI	RMIT	ro dri	LL, RE-E	ENTER, D	EEPI	EN, PLUG	BACK,	OR A	DD A ZONE	
			-1	M	ack Energ	r Name and A sy Corporatio		···				013837	
				Α	rtesia, NN	4 88211-0 96	0					30-025-3418	
Proper	ty Code			<u>-</u> -			Property Nam					Well No.	
19	469					М	onsanto 30 S	tate				5	
						Surface	Location	ı			L		
UL or lot no.	Section	Town	ship	Range	Lot Idn	Feet from th	e North/So	uth line	Feet from the	East/\	West line	County	
0	30	16	s	37E		330	Sou	ıth	2310		East	Lea	
]	Prop	oosed E	3ottom	Hole Loc	ation If D	iffere	nt From Su	ırface			
UL or lot No.	Section	Towns	ship	Range	Lot Idn	Feet from th	e North/So	uth line	Feet from the	East/\	Vest line	County	
			-	d Pool 1					Ргоре	sed Pool	2		
	Lo	vingtoi	n Pad	dock 40	660					 			
Work Ty	pe Code		V	Vell Type	Code	Cab	le/Rotary		Lease Type	Code	Groun	d Level Elevation	
N	ſ			0			R S			= 3827'			
Mul	tiple		F	roposed I	Depth	Fo	rmation Contractor				Spud Date		
N	0			7500'		Pa	Paddock LaRue					12/27/01	
				P	roposec	l Casing a	and Ceme	nt Pr	ogram				
Hole Si			Casing	g Size	Casir	ng weight/foot	Setting Depth Sacks of Cer			of Cemen	nent Estimated TOC		
17 1/2	!		13 3			48	400' Circ			Surface			
7 7/8			5 1/2			17	7500'		Sufficient		rc	Surface	
							 						
					-						_		
Describe the pr	oposed prog	gram. If	this a	pplication	is to DEEPE	N or PLUG B	ACK give the d	ata on th	ne present produc	tive zone a	nd propose	d new productive	
zone. Describe Mack Ene								ement	Drill to 7500	" and tact	Daddaala	7000 mm 5	
1/2" casing						, 1411 15 576	casing and t	CIIICIII.	Dim to 7500	anu tesi	. Faudock	Zone, run 5	
172 Cusing	5 una com	CIIC. I	ut W	on on pro	duction.								
Note: On	Productio	rmit	Exp	ires 1	Year Fro	erun, will fig om Appro Inderway	gure cement, Val	with 25	5% excess, atte	mpt to ci	rculate.		
I hereby certify t		rmation	given	above is tri	e and compl	ete to the best			ONSEDV	TION	DIVIE	ION	
of my knowledge Signature	and belief	//,_	4		(1-0		OIL CONSERVATION DIVISION Approval by:						
Printed name:		us		يسر	Carl			<u> </u>		ا د <u>:</u> 	- 10	0586660	
		Criss	a D. (Carter			Title:	TRGI	EUM ENGIN	EER	<u>. </u>		
Title:	l	Produc	tion .	Analyst			Approval Date	- 1 1 1 0 12	7	Expintio	n Dstc		
Date:	12/6/01			Phone:	505)740 :	200	Conditions of Attached	pprovai	:				
	12/5/01 (505)748-1288												

State of New Mexico

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

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

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

□ AMENDED REPORT

API Number	Pool Code	Pool Na	me
30-025-35781	40660	Lovingtor	ı Paddock
Property Code	Property N	lame	Well Number
19469	MONSANTO 3	5	
OGRID No.	Operator N		Elevation
013837	MACK ENERGY C	ORPORATION	3827'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	30	16-S	37-E		330	SOUTH	2310	EAST	LEA

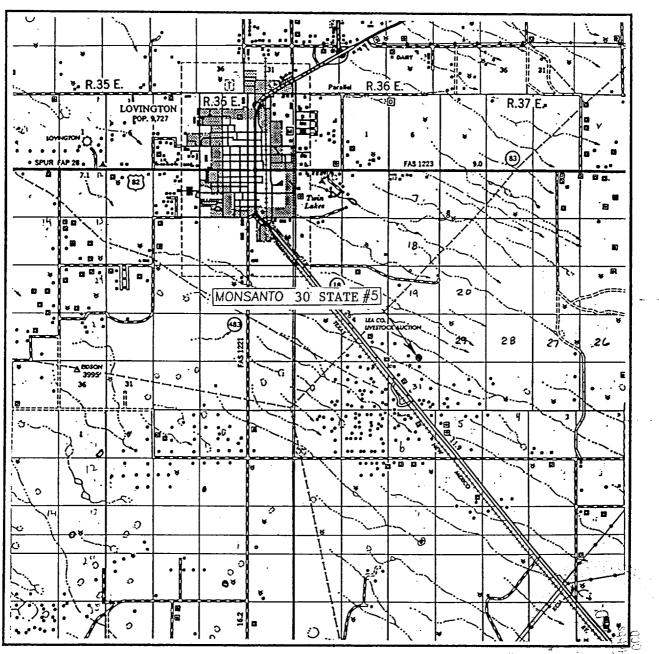
Bottom Hole Location If Different From Surface

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.		<u> </u>	<u></u>	
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 Carl
	Crissa D. Carter Printed Name
	Production Analyst
	12/5/2001 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 trie and correct to the best of my belief.
	OCTOBER 22, 2001
	Date Surveyed Signature & Seal of Professional Surveyor MALL DUMM 10/26/0/
2310'	Certificate No. RONALD J. ELESON 3239 GARY EIDSON 12841
330,	

VICINITY MAP

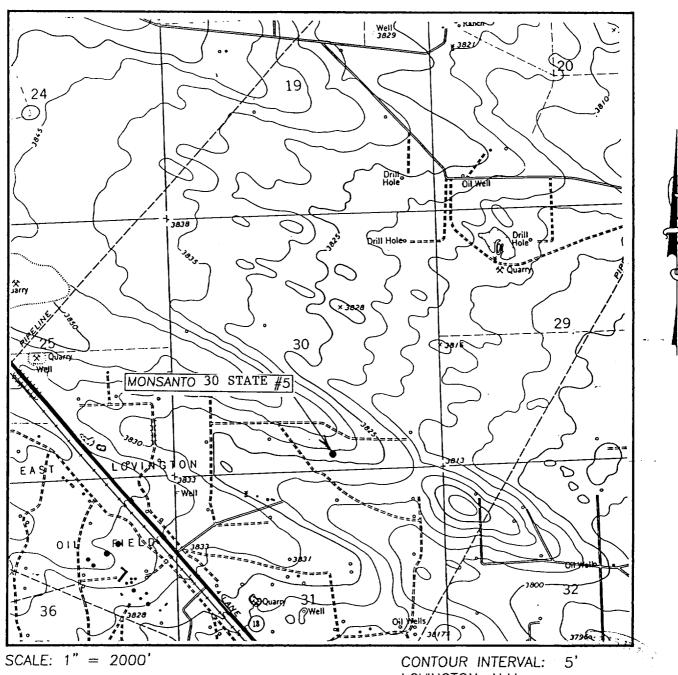


SCALE: 1" = 2 MILES

SEC. 30 T	WP. <u>16-S</u> RGE. <u>37-E</u>
SURVEY	N.M.P.M.
COUNTY	LEA
DESCRIPTION	330' FSL & 2310' FEL
ELEVATION	3827'
OPERATOR MA	ACK ENERGY CORPORATION
LEASE	MONSANTO 30 STATE

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

LOCATION VERIFICATION MAP



LOVINGTON, N.M.

SEC. 30 TWP. 16-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY____LEA

DESCRIPTION 330' FSL & 2310' FEL

ELEVATION______3827'

OPERATOR MACK ENERGY CORPORATION

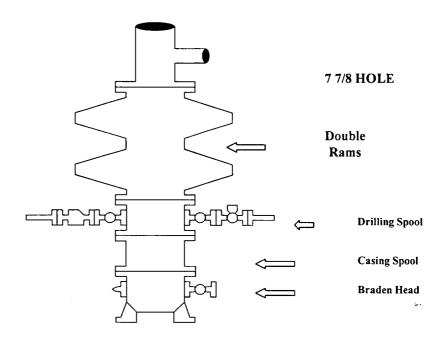
LEASE MONSANTO 30 STATE

U.S.G.S. TOPOGRAPHIC MAP LOVINGTON, N.M.

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

Mack Energy Corporation

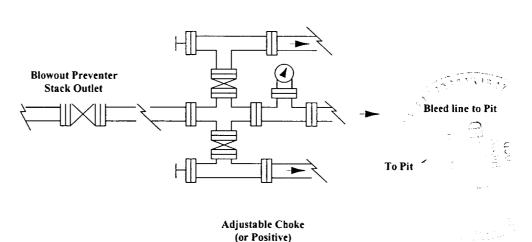
Exhibit #1 BOPE Schematic



Choke Manifold Requirement (2000 psi WP) No Annular Required

Adjustable Choke To Pit

Minimum 4" Nominal choke and kill lines



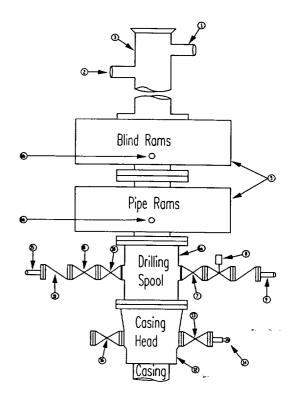
Mack Energy Corporation

Minimum Blowout Preventer Requirements

2000 psi Working Pressure 2 MWP EXHIBIT #2

Stack Requirements

NO	- won reduit one		1
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.
- 3. 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.

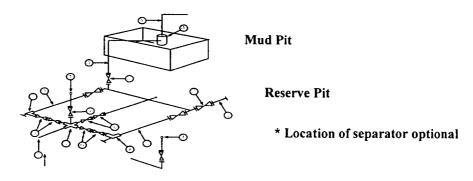
GENERAL NOTES:

- 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.
- 6. 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 Corporatio...

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	,000 MWP		10,000 MWP		
No.		I.D.	NOMINAL	Rating	I.D.	Nominal	Rating	I.D.	Nominal	Rating
l	Line from drilling Spool		3"	3,000		3"	5,000		3"	10,000
2	Cross 3" x 3" x 3" x 2"			3,000	Ī		5,000			
2	Cross 3" x 3" x 3" x 2"							Ī		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	· <u>··</u> ·		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"	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'	<u> </u>
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.
- 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

