District 1 PO Box 1980, Hobbs, NM 88241-1980 811 S. 1st Street Artesia, NM 88210-1404 District III 1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico Energy, Minerals & Natural Resourses Department OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

FOID C-101 Revised February 10, 1994 Instructions on back Submit to Appropriate District Office

State Lease - 6 Copies

Fee Lease - 5 Copies

District IV

PO Box 2088, Sai	·									_	NDED REPORT
APPLICA	TION	FOR PEI		Operato ack Energ	LL, RE-EN T Name and Add Ty Corporation Box 960		EPEN	N, PLUGBA	ACK,	00	DD A ZONE GRID Number 013837
			Α		188211-0960					, A	API Number
Prope	rty Code		·		D.						30-025-3578
						operty Name					Well No.
[19	9469					santo 30 State Location			, ,		4
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South	line	Feet from the	East/W	Vest line	County
P	30	16S	37E		330	South		990	١ ,	East	Lea
· · · · · · · · · · · · · · · · · · ·	1			Bottom 1			erent	From Surf		Lasi	Lea
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South		Feet from the		Vest line	County
		LI									
	Lo	Propose vington Pac		660				Propose	d Pool 2	2	
		.					,				
Work Ty	ype Code	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Vell Type	Code	Cable	/Rotary		Lease Type Co	de	Groun	nd Level Elevation
			0			₹		S			3822'
Mul	tiple	I F	roposed I	Depth	Forn	nation		Contractor			Spud Date
N	0		7500'			dock	<u> </u>	LaRue			12/22/01
					l Casing ar	d Cement	Prog	gram			
Hole Si		Casin		Casir	ng weight/foot	Setting D	epth	Sacks o	f Cement		Estimated TOC
17 1/2		13 3		<u> </u>	48	400'		Ci			Surface
7 7/8		5 1	/2		17	7500		Sufficier	t to Cir	С	Surface
				_							
Describe the pr	oposed pro	gram. If this a	pplication	is to DEEPE	N or PLUG BAC	K give the data	on the r	present productiv	e zone ai	nd propose	ed new productive
zone. Describe	the blowou	t prevention p	rogram, if	any. Use ado	ditional sheets if i	necessary.					
Mack Ene	rgy Corpo	oration prop	oses to d	rill to 400'	, run 13 3/8" c	asing and cem	ent. [Orill to 7500" a	ınd test	Paddock	Zone, run 5
1/2" casin	g and cen	nent. Put w	ell on pro	duction.							س
Note: On	Production	on string, a	fluid cali	ber will be	run, will figu	re cement, wit	h 25%	excess, attem	pt to ci	rculate.	4 *
	D.	armit Evr	sirae 1	Year Fro	om A pprov	a !					·Ú
	•				Inderway	-				~ '	(€).
I hereby certify of my knowledge		rmation given	above is tr	ue and comp	lete to the best	OI	L CC)NSERVA	rion	DIVIS	SION
Signature		1 lus		Call	_ /	Approval by:			_		
Printed name:		Crissa D.	Carter		T	itle: . OFIC)!M/^ ! '	<u>. signed by</u> E. E. E. 37		•	
Title:		Production	Analyst		A	pproval Date: T			pintio	n Dste	·
Date:		····	Phone:		(Conditions of App	roval:	<u>.l.</u>			
1	1/30/01		1 (505)748-1	288	Attached 🔲	1				

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

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

DISTRICT IV

OIL CONSERVATION DIVISION

Fee Lease - 3 Copies

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

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

P.O. BOX 2088, SANTA FE, N.M. 87504-2088	WELL LOCATION AND	ACREAGE DEDICATION PLAT	□ AMENDED REPORT
API Number	Pool Code	Pool Name	
30.025-35780	40660	Lovington Pa	ddock
Property Code	Prop	erty Name	Well Number
19469	MONSANT	O 30 STATE	4
OGRID No.	Oper	ator Name	Elevation
013837	MACK ENERG	Y CORPORATION	3822'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Р	30	16-S	37-E		330	SOUTH	990	EAST	LEA

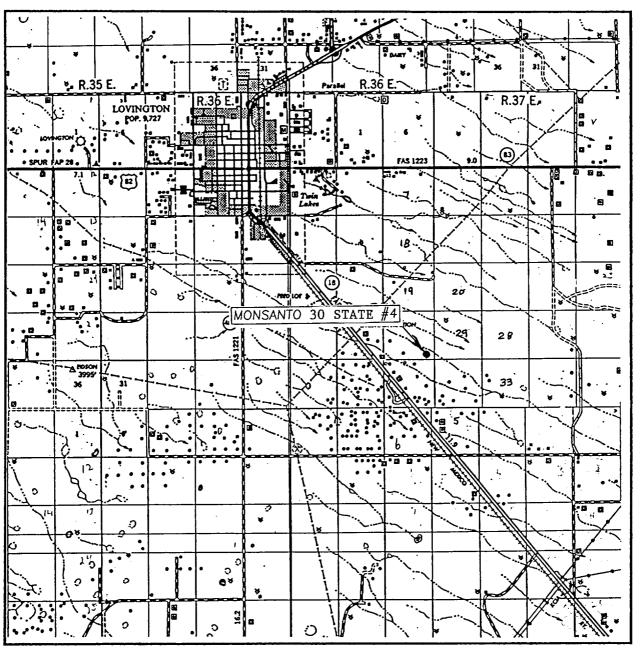
Bottom Hole Location If Different From Surface

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 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 Cart
	Crissa D. Carter
	Production Analyst
	11/30/2001 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 true and correct to the best of my belief.
	OCTOBER 22, 2001 Date Surveyed AWB Signature & Seal of
	Professional Surveyor Amalel Surveyor 10126/01
990'	Certificate No. RONALD J. EIDSON 3239 GARY EIDSON 12841

VICINITY MAP



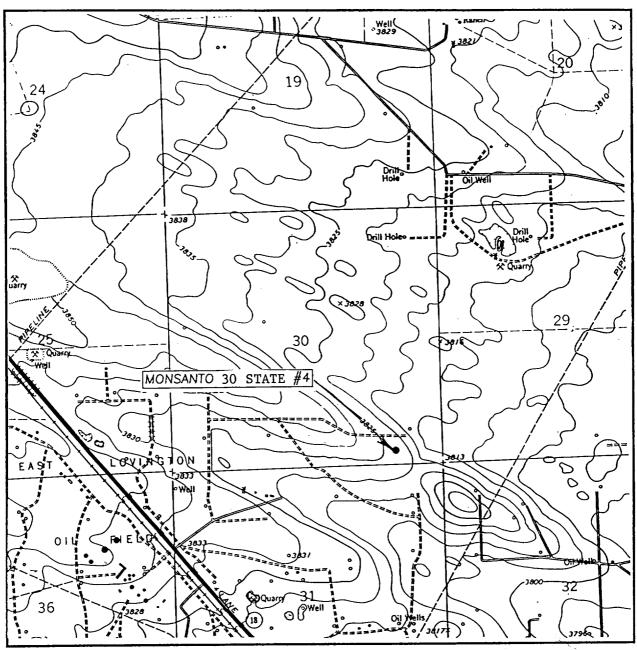
SCALE: 1" = 2 MILES

SEC. 30 TWP. 16	<u>-S_RGE37-E</u>
SURVEYN	.м.Р.м
COUNTY	LEA
DESCRIPTION 330'	FSL & 990' FEL
ELEVATION	3822'
OPERATOR MACK EN	IERGY CORPORATION

LEASE MONSANTO 30 STATE

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

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 5' LOVINGTON, N.M.

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

SURVEY N.M.P.M.

COUNTY____LEA

DESCRIPTION 330' FSL & 990' FEL

ELEVATION______3822'

OPERATOR MACK ENERGY CORPORATION

LEASE MONSANTO :30 STATE

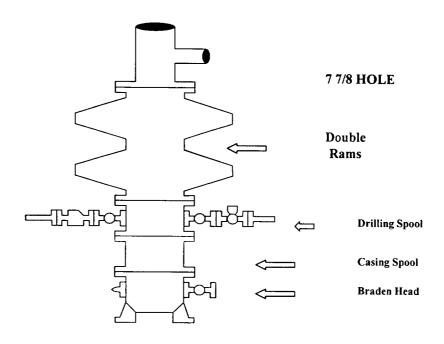
U.S.G.S. TOPOGRAPHIC MAP

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

Blowout Preventer
Stack Outlet

To Pit

Adjustable Choke
(or Positive)

To Pit

Minimum 4" Nominal choke and kill lines

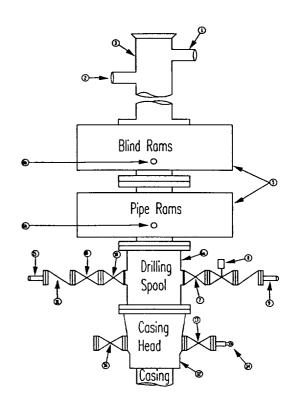
Mack Energy Corporation

Minimum Blowout Preventer Requirements

2000 psi Working Pressure 2 MWP EXHIBIT #2

Stack Requirements

NO.	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

i	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.

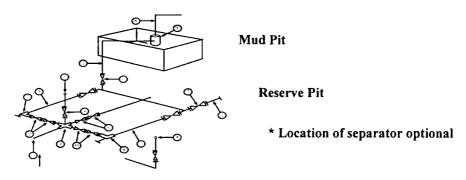
GENERAL NOTES:

- 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
- 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 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

				THEFT	is require					
		3,0	00 MWP		5	,000 MWP			10,000 MWP	
No.		I.D.	NOMINAL	Rating	I.D.	Nominal	Rating	l.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"		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	1	2"	10,000
11	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000
12	Line	<u> </u>	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	1	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

ABOVE DATE DOES NOT CONFIDENTIAL LOGS WILL BE RELEASED

ELF S/36/23 ABOVE DATE DOES NOT