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

811 S. 1st Street Artesia, NM 88210-1404

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

Form C-101 Revised February 10, 1994 Instructions on back

Submit to Appropriate District Office

State Lease - 6 Copies Fee Lease - 5 Copies

Ostrict IV O Box 2088, San	ita Fe, NM 8	7504-208	38								AME	NDED REPORT	
APPLICA	TION I	FOR I	PERM	1IT T	O DRII	LL, RE-EN	ITER, DEE	PEN	N, PLUGBA	ACK,	OR A	DD A ZONE	
					Operator	Name and Add	ress				00	GRID Number	
				Ma		Corporation						013837	
						ox 960						API Number	
•				A	rtesia, NM	88211-0960						30-025-35777	
Proper	rty Code					P	Property Name We					Well No.	
19	9469						Monsanto 30 State 3						
						Surface	Location						
UL or lot no.	Section	Town	ship Ra	ange	Lot Idn	Feet from the	North/South 1	ine	Feet from the	East/W	Vest line	County	
J	30	165	3 3	37E		1650	South		2310]1	East	Lea	
		I	Propos	sed E	Bottom I	Hole Locat	ion If Diffe	eren	t From Sur	face			
UL or lot No.	Section	Towns	hip Ra	ange	Lot Idn	Feet from the	North/South 1	ine	Feet from the	East/V	Vest line	County	
	-	Pro	posed Po	ool 1					Propose	ed Pool	2		
	Lo	vingto	n Paddo	ck 40	660								
											-	15 151	
Work T	ype Code		Wel	ll Type	Code	Cable	e/Rotary		Lease Type Co	ode	Grou	and Level Elevation	
1	N O						R S					3822'	
Mu	ltiple		Prop	posed I	Depth	For				Spud Date			
N	lo			7500'		<u> </u>	dock	<u> </u>	LaRue		<u> </u>	12/10/01	
				P			nd Cement						
Hole S	ize		Casing Si	ize	Casii	ng weight/foot	Setting D	epth		of Cemen	it .	Estimated TOC	
17 1/	2		13 3/8			48	400' Circ			Surface			
7.7/8	8		5 1/2				7500' Sufficien		nt to Ci	irc	Surface		
Describe the n	ronosed pro	oram I	f this ann	lication	is to DEEP	EN or PLUG BA	CK give the data	on the	present producti	ve zone a	and propo	sed new productive	
zone. Describe	e the blowou	ut prever	ntion prog	gram, if	any. Use ad	ditional sheets if	necessary.						
Mack En	ergy Corp	oration	propos	ses to c	irill to 400	', run 13 3/8"	casing and cen	nent.	Drill to 7500"	and tes	t Paddo	ck Zone, run 5	
1/2" casii	ng and cer	nent. l	Put well	on pro	oduction.								
Note: O	n Product	ion stri	ng, a flu	uid cal	iber will b	e run, will fig	ure cement, wi	th 25	% excess, atter	npt to c	irculate		
											*	3	
			. 7	~	. A mazos	, _{st}					4,		
Por	nit Expl Sata Un	res 1	Y e a″ Detein	eroo a H a s	·Approv	•••						6,35	
I hereby certif	y that the inf	formatio	n given ab	pove is t	rue and comp	olete to the best	O	L C	ONSERVA	TION	1 DIV	ISION	
of my knowled	ge and belief	l LDX	T.				Approval by:					1.7	
Printed name:				رهـ			Title:					<u> </u>	
		Cris	sa D. Ca	arter			Approval Date:		A Lighting	Expinti	on Dstc		
Title:		Produ	ction A										
Date:				Phone:	(505)515	1200	Conditions of App	proval:					
1	11/30/01		1		(505)748-	1288							

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

State of New Mexico

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

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT IV

DISTRICT III

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

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Nam	e			
30-025-35277	40660	Lovington Paddock				
Property Code	Property 1	Name	Well Number			
19469	MONSANTO 3	O STATE	3			
OGRID No.	Operator 1	Vame	Elevation			
013837	MACK ENERGY (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
J	30	16-S	37-E		1650	SOUTH	2310	EAST	LEA

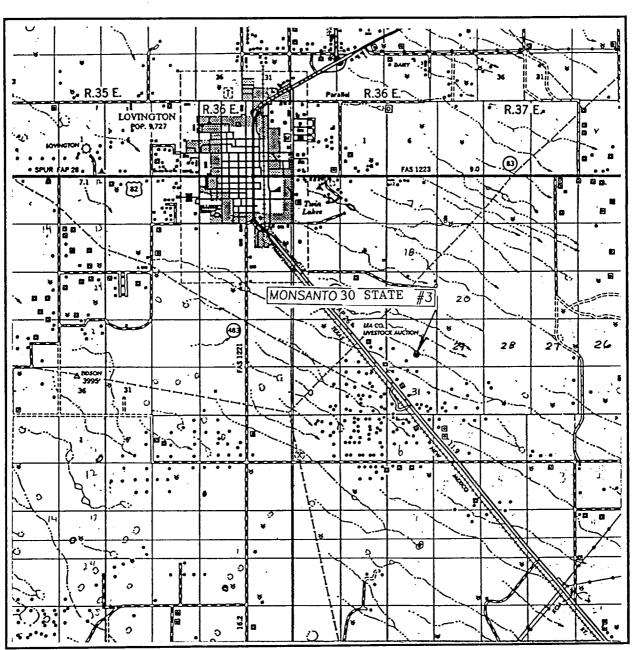
Bottom Hole Location If Different From Surface

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 of	Infill Co	nsolidation (Code Or	der No.				L
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	1
	I hereby certify the the informa contained herein is true and complete to best of my knowledge and belief.	
	Signature Crissa D. Carter	
	Printed Name	
	Production Analyst	
	11/30/2001 Date	
	SURVEYOR CERTIFICATION	ı
	I hereby certify that the well location sh on this plat was plotted from field note actual surveys made by me or under supervison, and that the same is true correct to the best of my belief.	es of
	2310' OCTOBER 22, 2001	
	Date Surveyed A Signature & Seal of Professional Surveyor	/WB
, 1650'	Royal Color 10/26/01	
		3239 12641

VICINITY MAP



SCALE: 1" = 2 MILES

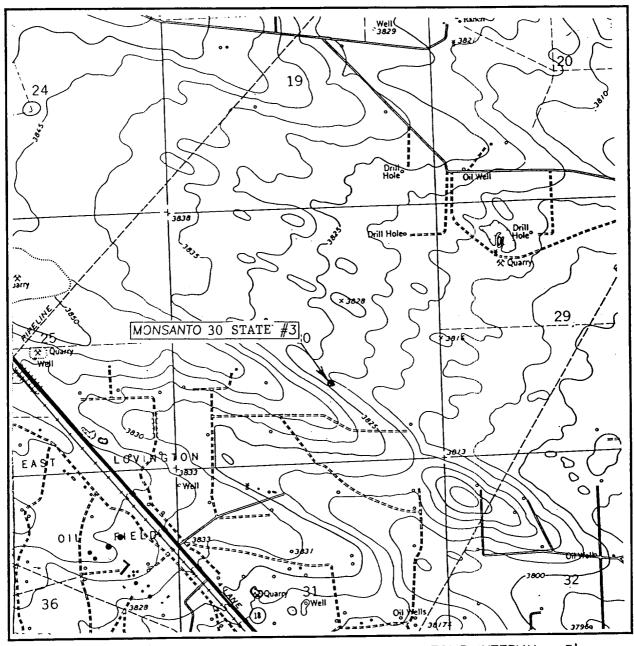
SEC. <u>30</u> TV	VP. <u>16-S</u> RGE. <u>37-E</u>
SURVEY	N.M.P.M.
COUNTY	LEA
DESCRIPTION_	1650' FSL & 2310' FEL
ELEVATION	3822'
OPERATOR MA	CK ENERGY CORPORATION

LEASE MONSANTO .30 STATE

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



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

LOVINGTON, N.M.

CONTOUR INTERVAL: 5' LOVINGTON, N.M.

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

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 330' FSL & 2310' FEL

ELEVATION 3822'

OPERATOR MACK ENERGY CORPORATION

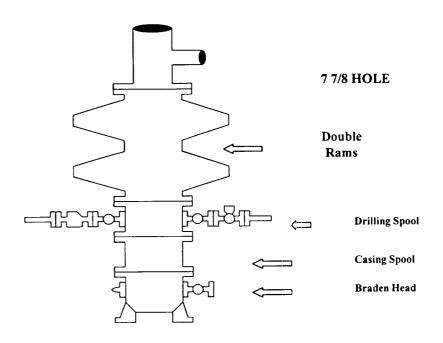
LEASE MONSANTO 30 STRITE

U.S.G.S. TOPOGRAPHIC MAP

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

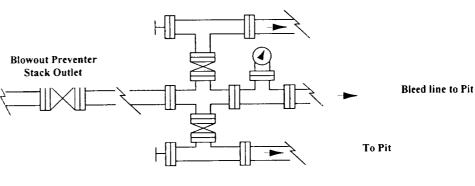
Mack Energy Corporation

Exhibit #1 BOPE Schematic



Choke Manifold Requirement (2000 psi WP) No Annular Required

Adjustable To Pit Minimum 4" Nominal choke and kill lines Choke



Adjustable Choke (or Positive)

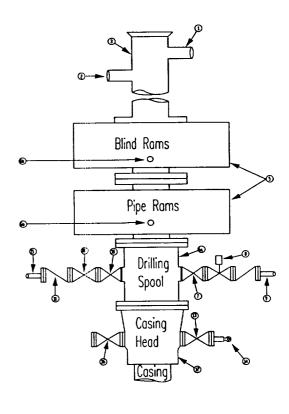
Mack Energy Corporation

Minimum Blowout Preventer Requirements

2000 psi Working Pressure 2 MWP EXHIBIT #2

Stack Requirements

NO.	Items	Min.	Min.
1,0.		I.D.	Nominal
l	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	
10	Tranged varve		

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.
- 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.

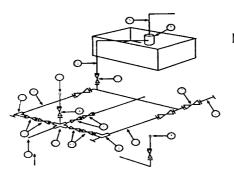
GENERAL NOTES:

- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 2. 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
- 4. 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.
- Do not use kill line for routine fill up operations.

Mack Energy Corporat. 1

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

		3.0	00 MWP		1 requirei 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			5,000			ł	
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		2' x5'			2' x5'		<u> </u>	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.

INDICATE WHEN ABOVE DATE DOES NOT

MILL BE RELEASED CONFIDENTIAL LOGS