District I 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

State of New Mexico

Energy, Minerals & Natural Resourses Department

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

Form C Revised February 10 Instructions on I State Lease - 6 Co State Lease - 6 Copi

Fee Lease - 5 Copies

APPLICA	ta Fe, NM 8	7504-2088 FOR PEI	RMIT T	ΓΟ DRII	LL, RE-EN	TER, DEE	RE OCD C PEN.	^{ECE} IVED PLUSB A	L. ACK,	OR AE	DD A ZONE
					Name and Addr						Number
			M	ack Energy	y Corporation			700	, i		013837
					Box 960					Al	PI Number
			А	rtesia, inivi	I 88211 - 0960	•				30-0	15-31017
Proper	ty Code				Pro	perty Name		12			Well No.
25	1\$ 75	5			Im	perial State					2
Surfac						Location		-			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South 1	ine F	eet from the	East/W	Vest line	County
0	16	17S	30E		990	South		2185		East	Eddy
		Prop	osed I	Bottom I	Hole Locati	on If Diffe	erent I	From Surf	ace		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South I	ine F	eet from the	East/V	Vest line	County
		Propose	d Pool 1	<u> </u>		<u> </u>		Propose	d Pool :	2	
	Lo	co Hills Pac	dock 96	5718							
									Í	est 3-	-24-00
Work Ty	pe Code	7	Well Type	Code	Cable/	Rotary	L	ease Type Co			Level Elevation
N	1		О		R			S			3669
Mul	tiple	1	Proposed	Depth	Form	ation		Contractor Spud Da			Spud Date
N	0		4900		Padd	addock LaRue 4/25/00					4/25/00
			P	roposed	l Casing an	d Cement	Progr	ram			
Hole Si	ze	Casin	g Size	Casir	ng weight/foot	Setting D	epth	Sacks of	f Cemen	t	Estimated TOC
17 1/2	2	13	3/8		54.5	45c' 350' 136A		Ci	rc	S	urface.
12 1/4	1	8.5	5/8		24	1100'		Circ			tt
7 7/8		5 1	/2		17	4900'		Sufficient to Circ		rc	10
				<u> </u>							
								<u> </u>			
					EN or PLUG BAC ditional sheets if n		on the pr	esent productiv	e zone a	ind propose	d new productive
					oses to drill to 3		'8" casir	ng and cemer	t. Dril	ll to 1100'	, run 8 5/8"
casing and	d cement.	Drill to 49	00' and t	est Paddoc	k Zone, run 5 1	/2" casing and	d cemen	nt. Put well o	n prod	uction.	
					·				•		
Note: On	Producti	on etring a	fluid cal	iher will he	e run and will f	igure cement	with 25	% excess att	empt to	o circulate	.
14010. On	Troducti	on sums, a	mana can	iber will be	2 1 an an a	igure comone	W 1011 22	, o chooss, an	ompt t	o on outure	
I hereby certify	that the info	emation give	ahove is t	rue and comp	lete to the hest						
of my knowledge			- ~		4	OI	L CO	NSERVA	TION	DIVIS	ION
Signature		ميدا	sa I	ما ر		pproval by:	RIGIN	al signed	BY T	M W. G	UM BGX
Printed name:		Crissa D.	Carter		Т			T II SUPE			
Title:	·					pproval Date: -	Z //		Expintion	on Dstc >	-111
Date:	<u> </u>	Production	Phone:		——————————————————————————————————————	Conditions of App		000			-16-01
	3/15/00			(505)748-1		Attached					

State of New Mexico

Energy, Minerals and Natural Resources Departmen

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office

Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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

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

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

OIL CONSERVATION DIVISIONED

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name			
	96718	Loco Hills	s Paddock		
Property Code	-	erty Name AL STATE	Well Number		
OGRID No. 013837	_	ator Name Y CORPORATION	Elevation 3669		

Surface Location

ſ	UL or lot No.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County
1	0	16	17 S	30 E		990	SOUTH	2185	EAST	EDDY

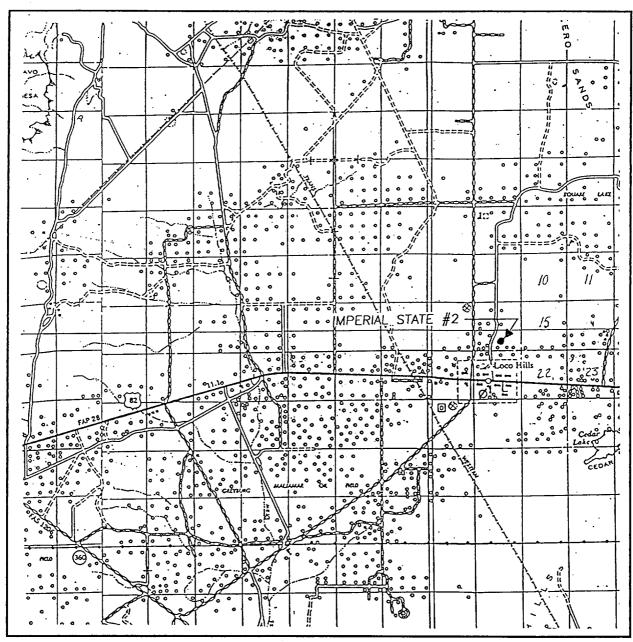
Bottom Hole Location If Different From Surface

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

		OPERATOR CERTIFICATION
'	1	I hereby certify the the information
1	1	contained herein is true and complete to the
		best of my knowledge and bellef.
		Signature Cart
		Crissa D. Carter
		Printed Name
		Production Analyst
		3/15/00
		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.
 		
<u> </u>		MARCH 9, 2000 Date Surveyed E LMP Signature & Seal of Surveyor Professional Surveyor
	2185'	3/10/2000 3/10/2000 00=11-0316
)6 	Certificate No. RONALS FEDSON 3239 CONTROL CARP EDSON 12841 CONTROL CARP EDSON 12841 CONTROL CARP EDSON 1285

VICINITY MAP



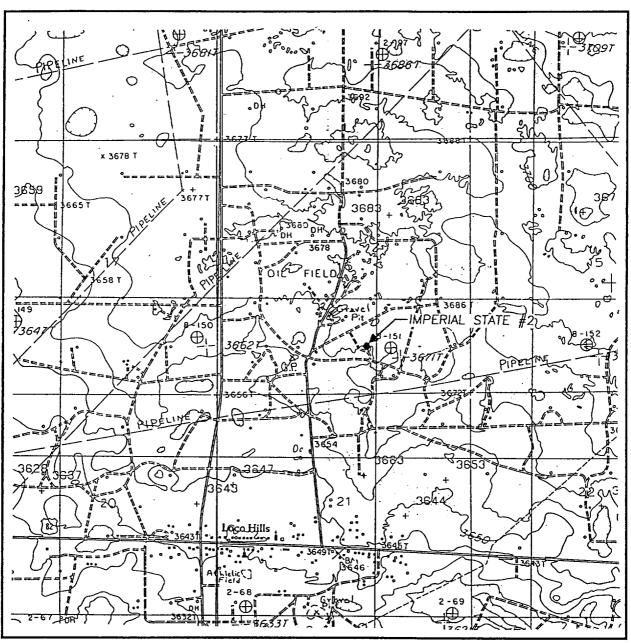
SCALE: 1" = 2 MILES

SEC. 16 TW	P. <u>17-S</u> RGE. <u>30-E</u>
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTION 9	90' FSL & 2185' FEL
ELEVATION	3669
	K ENERGY CORPORATIO
IEACE IX	APERIAL STATE

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



LOCATION VERFICATION MAP



SCALE: 1'' = 2000'

CONTOUR INTERVAL: LOCAL HILLS, N.M. - 10'

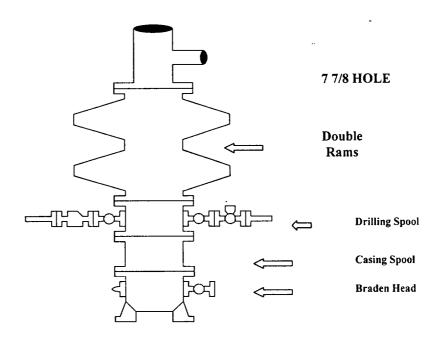
SEC. 16 TWP.	<u>17-S</u> RGE. <u>30-E</u>
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTION 990)' FSL & 2185' FEL
ELEVATION	3669
OPERATOR <u>MACK</u>	ENERGY CORPORATION
LEASE IMPE	ERIAL STATE
U.S.G.S. TOPOGR LOCAL HILLS, N.	APHIC MAP M

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

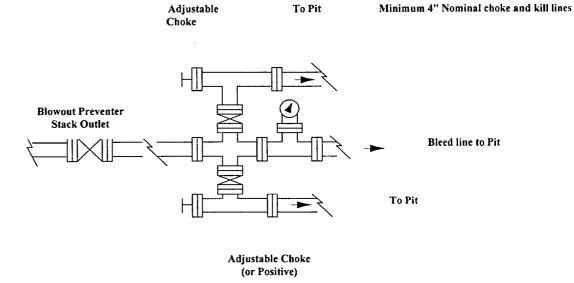


Mack Energy Corporation

Exhibit #1 BOPE Schematic



Choke Manifold Requirement (2000 psi WP) No Annular Required



Page 1

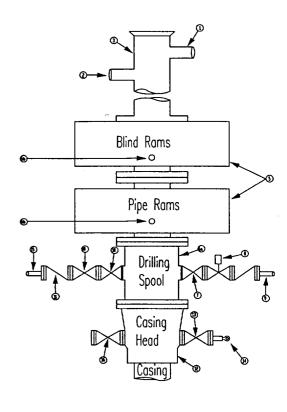
Mack Energy Corporation

...inimum 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	ĺ
12	Casing head		
13	Valve Gate	1 13/16	
	Plug		
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.

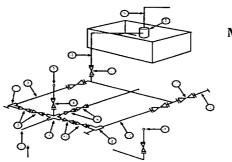
GENERAL NOTES:

- 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.
- 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



Mud Pit

Reserve Pit

* Location of separator optional

Below Substructure

Mimimum requirements

				umun	n require					
		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			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	i	2' x5'			2' x5'		ļ	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.