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 Departmen

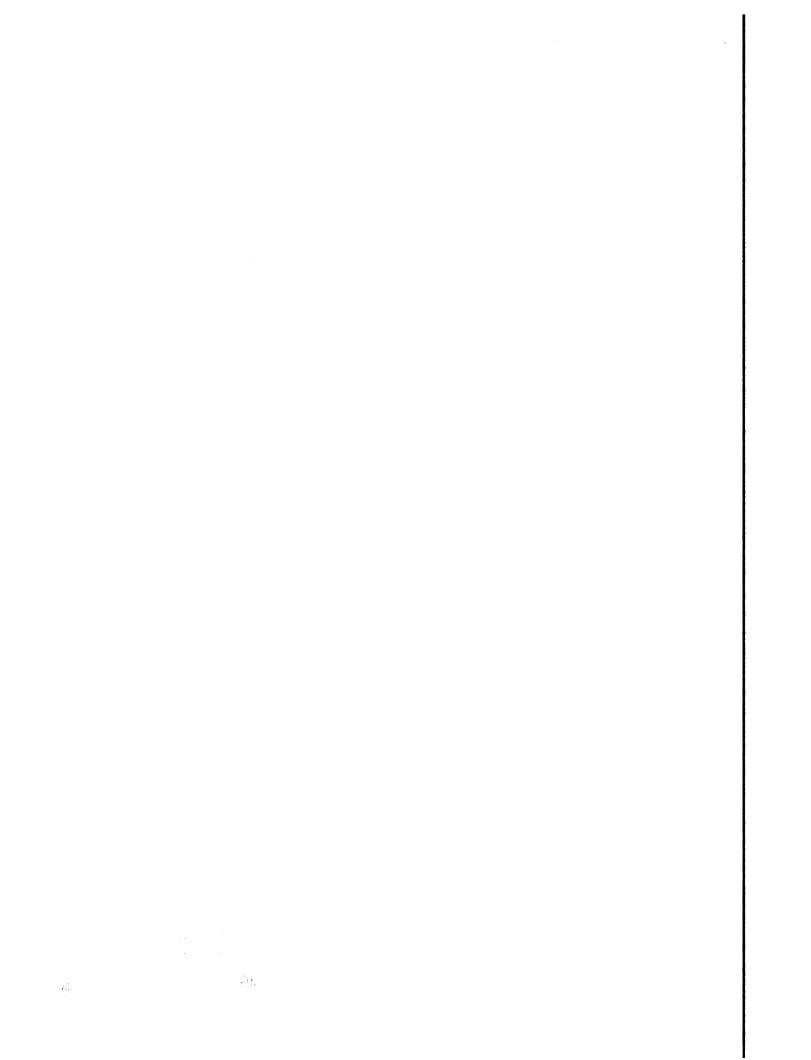
OIL CONSERVATION DIVISION

PO Box 2088 Santa Fe, NM 87504-2088 Revised February Instructions

Submit to Appropriate District

State Lease - 6 Fee Lease

O Box 2088, San	ta Fe, NM 8	37504-2088						A	3	AMEN	DED REPOR
APPLICA	TION	FOR PEF	MIT '	TO DRI	LL, RE-EN	TER, DEE	PEN	PLUGBA	ACK	OR AE	DD A ZONE
				•	Name and Addr	ess C	OCL	- ARIESIA	<u></u> 5	OGI	RID Number
			N		y Corporation	12/2		"IT COTA	~\\\ \\\\		013837
			A		30x 960 1 88211-0960	10	6.87 87	<i>A</i>	9 ³ /	Al	PI Number
				in tobia, 1 tit			A. P.	- ARIESIA			30-015 -3/503
Proper	rty Code				Pro	perty Name					Well No.
016	6394		: - : :			State S-19	·				17
		<u> </u>			Surface I	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South I:	ine	Feet from the	East/W	est line	County
K	19	178	29E		2250	South		1233	V	/est	Eddy
		Prop	osed l	Bottom 1	Hole Locati	on If Diffe	erent	From Surf	face		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South I	ine	Feet from the	East/W	est line	County
	1	Proposed	i Pool 1			<u> </u>		Propose	d Pool 2		1
	Е	mpire Yeso	96	210				·			
11/ 1 7											
Work I	ype Code	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Vell Type	e Code	Cable/	Rotary		Lease Type Co	de	Ground	d Level Elevation
			0		R			S		3674	
Mul	tiple	F	roposed	Depth	Formation			Contractor		Spud Date	
N	o		4350			Paddock LaRue			12/30/00		
	· T				l Casing an						
Hole S		Casin		Casir	ng weight/foot	Setting De			f Cement		Estimated TOC
12 1/4		8 5				3251		Circ Circ		Surface	
7 7/8		5 1	/2		17	4350		Sufficient to Circ		·c	
						 					
Describe the sec		1646:-	1:4:	E A DEED	CN DI UC DAC	W -: AL - A.A.					
					EN or PLUG BAC ditional sheets if n		on the p	resent productiv	e zone ar	na propose	d new productive
Mack Ene	rgy Corp	oration prop	oses to	drill to 325	', run 8 5/8" cas	sing and ceme	nt. Dr	ill to 4350" aı	nd test F	addock 2	Zone, run 5
1/2" casin	g and cen	nent. Put w	ell on pr	oduction.							
	5		F-								
Make: Or	. Dun dii ak		امم الدينا	:1:11 1.	:11 6		L 250/	aviace ettern		loto	
Note: Or	Producti	on string, a	fiuid cai	iber will be	e run, will figur	re cement, wit	n 25%	excess, atten	ipi io cii	rculate.	
									<u> </u>		
I hereby certify of my knowledg		ormation given	above is t	rue and comp	lete to the best	OI	L CC	NSERVA	TION	DIVIS	ION
Signature	- IIII ocytot	. ~	> /	1-1	A	approval by:	C Par A	i pinnes :			4 1341
Printed name:		ے کروں .Crissa D	<u>·</u> . (Carter	a	T	itle: DIS	TRIC	t signed i		W. GU	M //-
Title:					A	pproval Date	C 1	1 200	Expintio	n Dstc	. 4 0004
Date:		Production	Analyst Phone:			Conditions of App	roval:	- 4000		- BEI	; 1 1 261 1
	12/8/00			(505)748-	J i	Attached 🔲				*	



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

DISTRICT II F.O. Drawer DD, Artesia, NM 88211-0718

DISTRICT IV

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

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Na	me
	96210	Empire Yes	30
Property Code	Pro	Well Number	
016394	STAT	17	
OGRID No.	Operator Name		Elevation
013837	MACK ENERG	Y CORPORATION	3674

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	19	17S	29 E		2250'	SOUTH	1233'	WEST	EDDY

Bottom Hole Location If Different From Surface

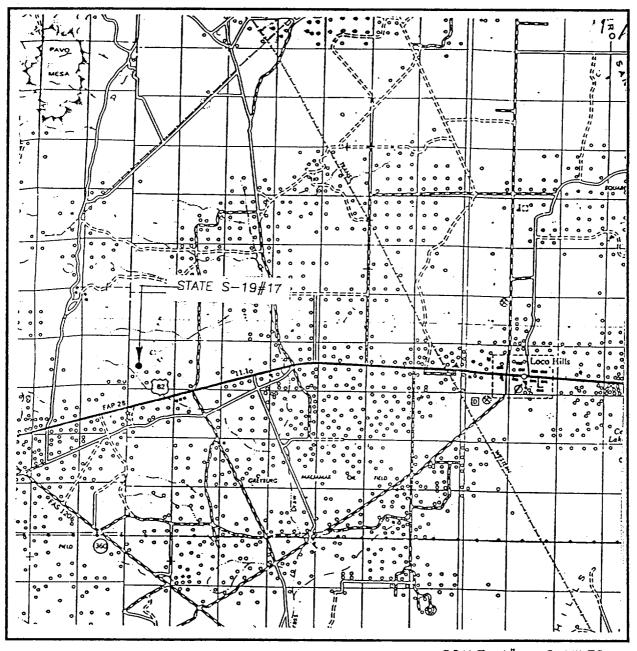
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation (Code Ore	der No.			1	L
40				İ					

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

LOT 1	OPERATOR CERTIFICATIO
	I hereby certify the the inform contained herein is true and complete
	best of my knowledge and belief.
27.36 AC.	(llon - (out
27.30 AC.	Signature
LOT 2	Crissa D. Carter
	Printed Name
	Production Analyst
	Title
	12/8/00
	Date
27.28 AC.	SURVEYOR CERTIFICATIO
LOT 3	
1233'	I hereby certify that the well location on this plat was plotted from field no
330'	estud surveys made by me or uni
	expervison, and that the same is treerest to the best of my ballaf.
	NOVEMBER 00, 0000
	NOVEMBER 22, 2000
27.40 AC.	Date Surveyed Signature & Seal of
LOT4	Professional Surveyor
5250,	1 1 1 10
	Day 52 m 12/6
	00-11-1443
	Certificate No. RONALD I. EIDSON
27,50 AC.	GARY EIDSON
27.30 MO.	The second secon

	-	

VICINITY MAP



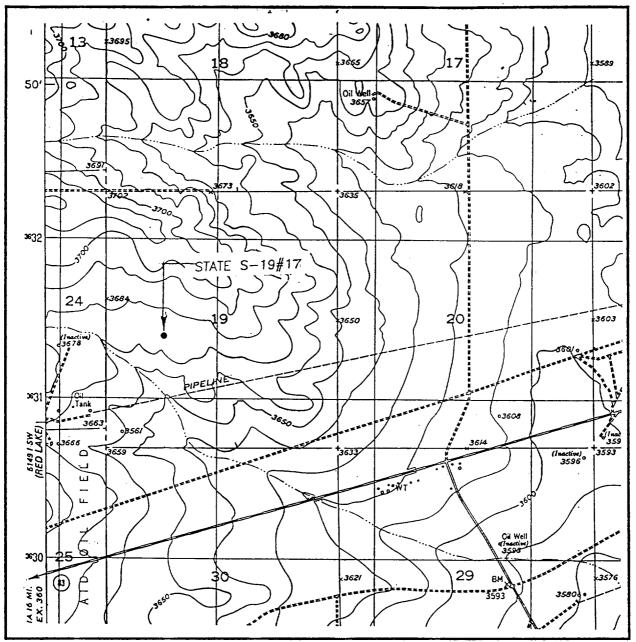
SCALE: 1" = 2 MILES

SEC. <u>19</u>	TWP. <u>17-S</u> , RGE. <u>29-E</u>
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTION	N 2250' FSL & 1233' FWL
ELEVATION_	3674
OPERATOR_	MACK ENERGY COPORATION
LEASE	STATE S-19 #17

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

,		

LOCATION VERFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10' RED LAKE SOUTHEAST N.M

SEC. <u>19</u> TWP. <u>17-S</u> RGE. <u>29-E</u>
SURVEYN.M.P.M.
COUNTYEDDY
DESCRIPTION 2250' FSL & 1233' FWL
ELEVATION 3674
OPERATOR MACK ENERGY COPORATION
LEASE STATE S-19 #17
U.S.G.S. TOPOGRAPHIC MAP RED LAKE SOUTHEAST N.M

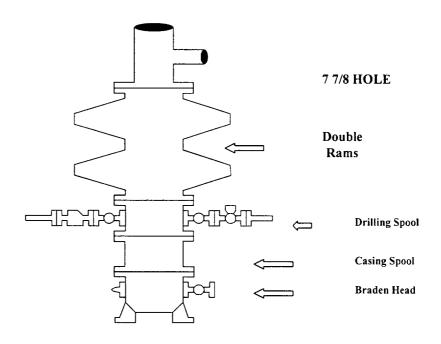
JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117



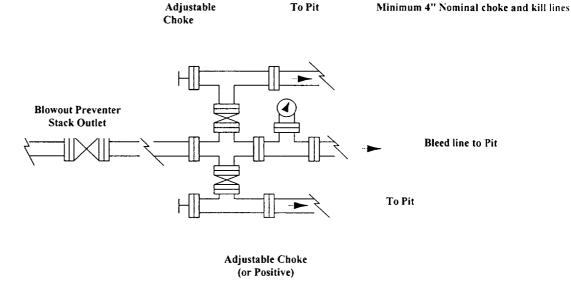
-	_	

Mack Energy Corporation

Exhibit #1 BOPE Schematic



Choke Manifold Requirement (2000 psi WP) No Annular Required



Blowout Preventers Page 1

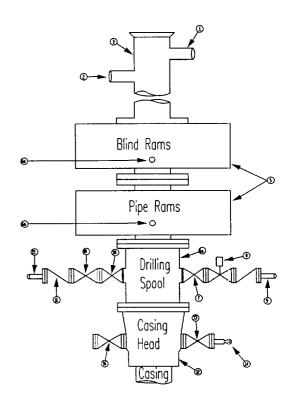
Mack Energy Corporatio

Minimum Blowout Preventer Requirements

2000 psi Working Pressure 2 MWP EXHIBIT #2

Stack Requirements

	Stack Requirement		
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	
	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.
- 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.

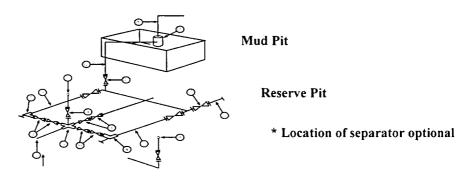
GENERAL NOTES:

- 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

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		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

	_	