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

State of New Mexico Energy, Minerals & Natural Resourses Department

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

Revised February (1994

Instructions on bank,	
Submit to Appropriate District (Concession)	
State Lease - 6 Copies	
Fee Lease - 5 Copies	
AMENDED REPORT 🌘	

District IV PO Box 2088, Santa Fe, NM 87504-2088						(3)				AMEN	DED REPORT
APPLICA	TION I	FOR I	PERMIT	TO DRI	LL, RE-EN	(A` ITER,∫≸EE	PEN,	PLU 6 B	ACK,	OR AI	DD A ZONE
				Operato	r Name and Add	ress	,3,5,	1	-	OGI	RID Number
			N	_	y Corporation		30	E		ı	013837
					30x 960 1 88211-0960		Ų			Al	PI Number
			,	titesia, iviv	1 00211-0300				-	3	30-015-30940
Prope	rty Code				Pr	operty Name		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•		Well No.
02:	3810				Me	squite State					8
					Surface I	Location					
UL or lot no.	Section	Towns	ship Range	Lot Idn	Feet from the	North/South I	ine F	eet from the	East/W	est line	County
Е	20	17S	29E		1650	North		990	N W	/est	Eddy
		F	Proposed I	Bottom 1	Hole Locat	ion If Diffe	erent F	From Sur	face		
UL or lot No.	Section	Townsh	hip Range	Lot Idn	Feet from the	North/South I	ine F	eet from the	East/W	est line	County
		Pro	posed Pool 1	-				Propose	d Pool 2		1
	East	Empire	e Yeso	96610							
					· · · · · · · · · · · · · · · · · · ·						
Work Ty	ype Code		Well Type	Code	Cable/	Rotary	L	ease Type Co	de	Ground	Level Elevation
N			0		F			S			3632
Mul	itiple		Proposed 1	Depth	Form	ation		Contractor		S	pud Date
N	0		4200'		Pado			LaRue		2.	/25/2000
<u></u>					l Casing an	·		am			
Hole Si	-		Casing Size	Casir	ng weight/foot	Setting D	epth		f Cement		Estimated TOC
17 1/2			13 3/8	-	54.5	350'			irc		rface
12 1/4			8 5/8		24#	800'		Sufficien		· · · · · · · · · · · · · · · · · · ·	! t
7 7/8			5 1/2		17#	4200'		Sufficien	nt to Cir	c '	·
								ļ			
Describe the pr	oposed pro	gram. If	this application	is to DEEPE	EN or PLUG BAC	'K give the data	on the pre	sent productiv	e zone an	d proposed	I new productive
1		•		•	ditional sheets if r	•	_				-
					, run 13 3/8" c	_			ın 8 5/8'	' casing a	ind cement.
Drill to 42	200" and to	est Pado	dock Zone, n	ın 5 1/2" c	asing and ceme	ent. Put well o	on produ	iction.			
Note: On	Production	on strin	g, a fluid cali	iber will be	run, will figu	re cement, wit	h 25% e	xcess, attem	pt to cir	culate.	
I hereby certify		rmation (given above is to	rue and comp	lete to the best	OI	L CO	NSERVA'	TION	DIVIS	ION
of my knowledge Signature	and bellet	1' 1 N	\sim	11. 4	(_ A						
Printed name:	(Cricas	a D. Carter	Car		U		L SIGNED		. W. W.	™ D6⊀i
Title:					-	pproval Date:	- 27		Expintion	Dste .	
[rroduci	tion Analyst		1	l	~ 1	. ()	-	1-1	27 .01

Conditions of Approval:

Attached 🔲

Phone:

(505)748-1288

Date:

1/26/00

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 58211-0719

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

DISTRICT IV P.O. Bax 2088, Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool 1	lame
	96610	East Empi	re Yeso
Property Code]	Property Name	Well Number
23810	MES	8	
OGRID No.	•	Operator Name	Elevation
13837	MACK EN	ERGY CORPORATION	3632

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Ε	20	17 S	29 E		1650	NORTH	990	WEST	EDDY

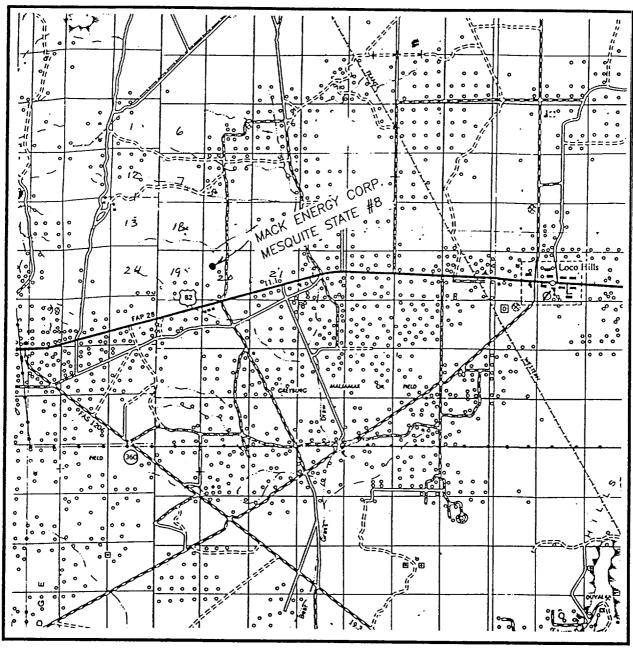
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1		ļ						i	
Dedicated Acre	s 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.
1650	 	Signature Lat
990'		Crissa D. Carter Printed Name Production Analyst Title
	 	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.
 	 	JANUARY 11, 2000 Date Surveyed Signature & Seal of Professional Surveyor
	 	0. Rom 00-11-9024 Certaricate No. RONALD E EDSON, 3239 CARY C ELIDSON, 12641

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 20 TWP. 17-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1650' FNL & 990' FWL

ELEVATION 3632

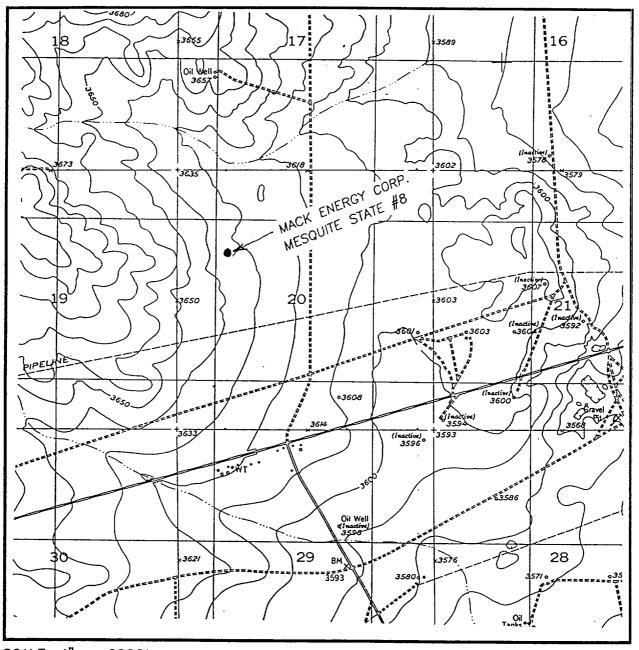
OPERATOR MACK ENERGY CORP.

LEASE MESQUITE STATE

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



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

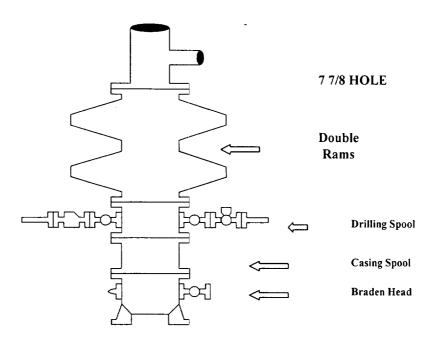
CONTOUR INTERVAL - 10'

SEC. <u>20</u> TWP. <u>17-S</u> RGE. <u>29-E</u>
SURVEY N.M.P.M.
COUNTYEDDY
DESCRIPTION 1650' FNL & 990' FWL
ELEVATION 3632
OPERATOR MACK ENERGY CORP.
LEASE MESQUITE STATE
U.S.G.S. TOPOGRAPHIC MAP
RED LAKE SE, N.M.

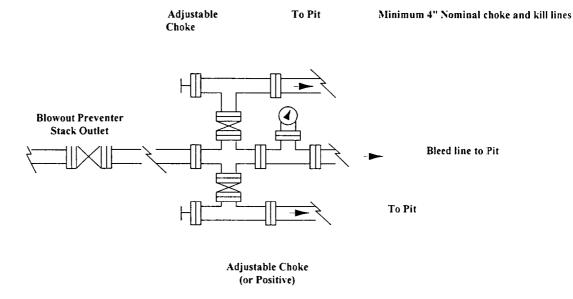
JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117

Mack Energy Corporation

Exhibit #1 BOPE Schematic



Choke Manifold Requirement (2000 psi WP) No Annular Required



Blowout Preventers Page 1

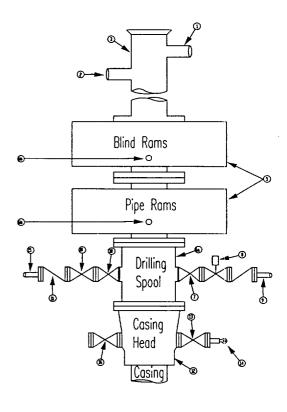
Mack Energy Corporation

Minimum Blowout Preventer Requirements

2000 psi Working Pressure 2 MWP EXHIBIT #2

Stack Requirements

Stack Requiremen		
Items	Min.	Min.
	I.D.	Nominal
Flowline		2"
Fill up line		2"
Drilling nipple		
Annular preventer		_
Two single or one dual hydraulically		
operated rams		
Drilling spool with 2" min. kill line and 3"		2"
min choke line outlets		Choke
2" min. kill line and 3" min. choke line		
outlets in ram. (Alternate to 6a above)		
Valve Gate	3 1/8	
Plug		
Gate valve-power operated	3 1/8	ļ
Line to choke manifold		3"
Valve Gate	2 1/16	
Plug		
Check valve	2 1/16	
Casing head		
Valve Gate	1 13/16	
Plug		
Pressure gauge with needle valve		
Kill line to rig mud pump manifold		2"
	Flowline Fill up line Drilling nipple Annular preventer Two single or one dual hydraulically operated rams Drilling spool with 2" min. kill line and 3" min choke line outlets 2" min. kill line and 3" min. choke line outlets in ram. (Alternate to 6a above) Valve Gate Plug Gate valve-power operated Line to choke manifold Valve Gate Plug Check valve Casing head Valve Gate Plug Pressure gauge with needle valve	Items Min. J.D. Flowline Fill up line Drilling nipple Annular preventer Two single or one dual hydraulically operated rams Drilling spool with 2" min. kill line and 3" min choke line outlets 2" min. kill line and 3" min. choke line outlets in ram. (Alternate to 6a above) Valve Gate Plug Gate valve-power operated Line to choke manifold Valve Gate Plug Check valve Casing head Valve Gate Plug Pressure gauge with needle valve



OPTIONAL

ĺ	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.
- 6. 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.
- 9. 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.

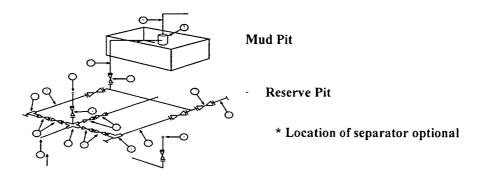
GENERAL NOTES:

- 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 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 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

		3,6	00 MWP		. 5	,000 MWP		1	10,000 MWP	
No.		I.D.	NOMINAL	Rating	l.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	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	•	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'	1		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