District 1 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

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

Revised February Instructions on Submit to Appropriate District State Lease - 6 Copies Fee Lease - 5 Copies

AMENDED REPORT

PO Box 2088, Santa Fe, NM 87504-2088

APPLICA	.TION 1	FOR PE	2RMIT	TO DRI	LL, RE-EN	TER, DEE	PEN.	, PLUGBA	ACK,	OR A	DD A ZONE
				•	or Name and Addr	ress	H	PECETURE		OC	GRID Number
			N	_	gy Corporation Box 960		40D	ANTONE			013837
			,		M 88211-0960	₹"2)	112	1	A	API Number
								* /·			30-015-30942
Proper	rty Code				Pro	operty Name					Well No.
02:	3810				Me	esquite State					10
					Surface L	_ocation	. <u> </u>				
UL or lot no.	Section	Township	p Range	Lot Idn	Feet from the	North/South I	ine I	Feet from the	East/W	Vest line	County
D	20	17S	29E		330	North		990	<u></u> /	West	Eddy
		Pr	oposed '	Bottom !	Hole Locati	ion If Diffe	erent	From Surf	face		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South I	ine 1	Feet from the	East/V	Vest line	County
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	·	Propo	osed Pool 1					Propose	d Pool 2	2	
	East	t Empire Y	Yeso	96610							
Work Ty	ype Code		Well Type	e Code	Cable/	Rotary	1	Lease Type Co	de	Grour	nd Level Elevation
N	1		0		R	t		S			3627
Mul	ltiple		Proposed	Depth	Form	ation		Contractor		Spud Date	
N	io		4200)'	Padd	lock		LaRue] _:	2/25/2000
			F	Proposed	d Casing an	d Cement	Prog	ram		<u> </u>	
Hole Si	ize	Cas	sing Size		ng weight/foot	Setting D			f Cement	t [Estimated TOC
17 1/2	2	1.5	3 3/8		54.5	350'		Ci	irc	S	urface
12 1/4	4	8	3 5/8		24#	800'		Sufficier	nt to Cir	ı	11
7 7/8	<u>, </u>	5	5 1/2		17#	4200'		Sufficier	ıt to Cir	rc	- 17
					EN or PLUG BAC ditional sheets if n		on the pr	resent productiv	e zone a	nd propose	ed new productive
		· •		Ť)', run 13 3/8" ca	•	ent. D	rill to 800', rı	ın 8 5/8	3" casing	and cement.
·		-	-		easing and ceme	_		·		~	
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Note: On	Producti	an etrina	a fluid ca	libor will b	e run, will figur	comont wit	L 250/	ottom	to oi	lata	
Note. On	Producin	M Sumg,	a Huiu Cai	iber will be	3 run, wili ilgui	e cement, wit	n 2370 i	excess, atten	pt to ci	rculate.	
71	-1 - Alexander		h i -		• • • • • • • •						
I hereby certify of my knowledge		rmation give	en above is to	rue and comp	lete to the best	OI	L CO	NSERVA	TION	DIVIS	SION
Signature		/ /	· · · · · · · · · · · · · · · · · · ·	5 (=	\oint_{-} A	approval by:		- AIANED	SV TI		um Ban
Printed name:	,		ga-	(),	T			AL SIGNED T II SUPER			UM DW.
Title:			D. Carter			angered Date: 4		т			
		Productio	on Analyst			[-	~ `	- 00	Expintio	n Dsic (-27-61
Date:	1/26/00		Phone:		- li .	Conditions of App Attached	roval:				!
i	1/20/00		1	(505)748-1	1288 11.						

DISTRICT I P.O. Ber 1980, Hobbe, 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

Pool Name

East Empire Yeso

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II P.O. Drawer BD, Artesia, NM 55211-0719

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

Well Number

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

API Number

Property Code

WELL LOCATION AND ACREAGE DEDICATION PLAT

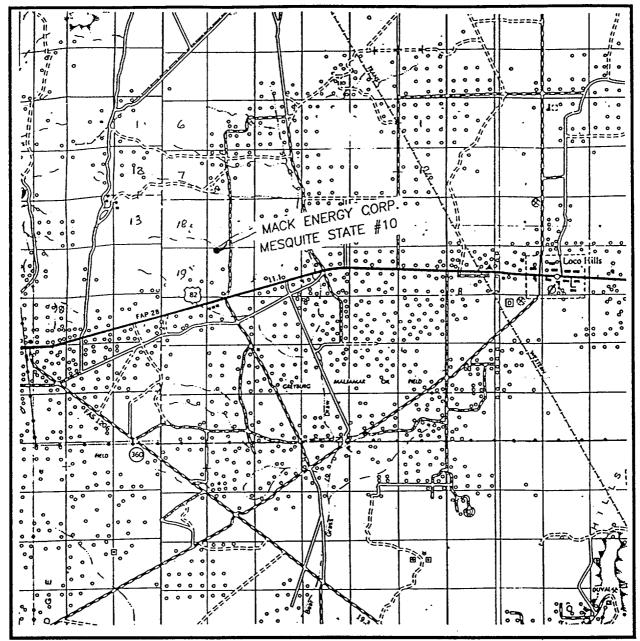
Property Name

Pool Code

96610

Property	roperty Code Property Name							- Well Number		
23810								10		
OGRID No. Operator Name								Elevation		
13837 MACK ENERGY CORPORATION								3627		
					Surface Loc	ation				
L or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
D	20	17 S	29 E		330	NORTH	990	WEST	EDD	
			Bottom	Hole Lo	cation If Diffe	erent From Sur	face			
L or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
edicated Acre	Toint	or Infill C	onsolidation	Code Co	der No.	L				
	30Inc (onsondadon	Code Or	der 110.					
40			COLONIA		GOLDEN TOTAL					
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VICINITY MAP



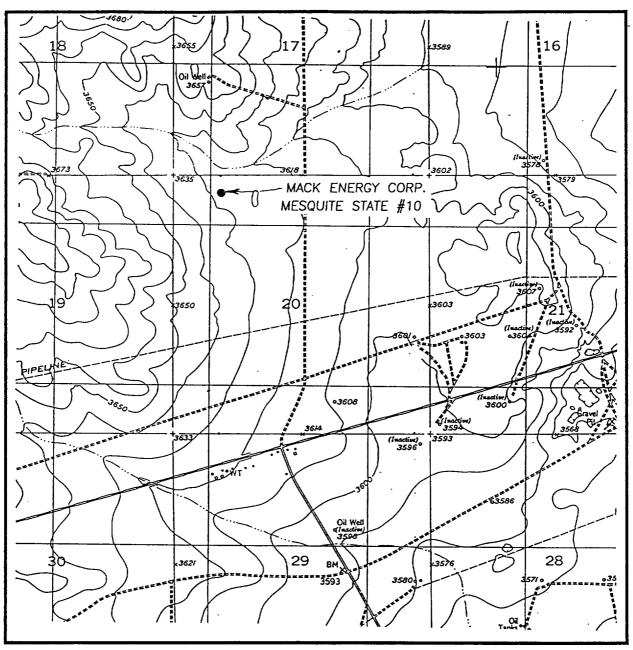
SCALE: 1" = 2 MILES

SEC. <u>20</u> T	WP. <u>17-S</u> RGE. <u>29-E</u>
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTION	330' FNL & 990' FWL
ELEVATION_	3627
OPERATOR_	MACK ENERGY CORP.
I FASE	MESQUITE STATE

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



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

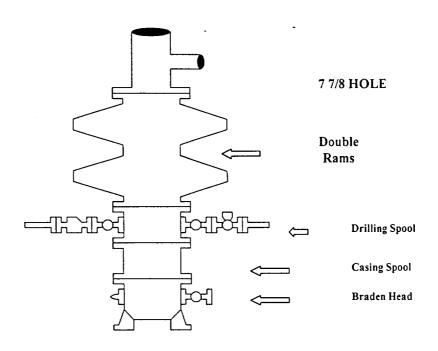
CONTOUR INTERVAL - 10'

SEC. <u>20</u> T	WP. <u>17</u>	<u>–S</u> F	RGE	<u> 29 – E</u>	·
SURVEY	N	.M.P.	м.		
COUNTY		EDDY			
DESCRIPTION	330'	FNL	&_	990'	FWL
ELEVATION		36	27		
OPERATOR	MACK	ENE	RGY	COR	Ρ.
LEASE	MESQL	IITE :	STAT	E	
U.S.G.S. TOP		HIC .	MAP		

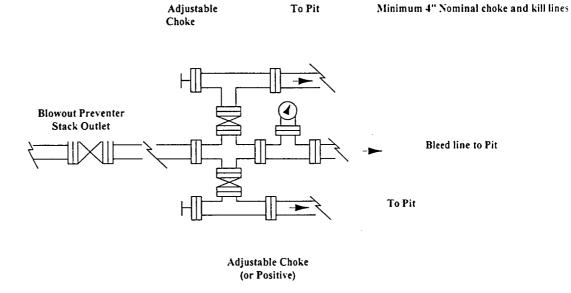
JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117

Mack Energy Corporation

Exhibit #1 BOPE Schematic



Choke Manifold Requirement (2000 psi WP) No Annular Required



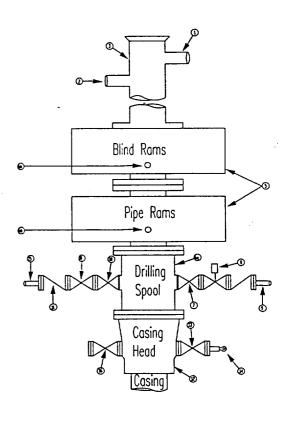
Mack Energy Corporation

Minimum 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"
l	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	
l	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.
- 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.
- 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.

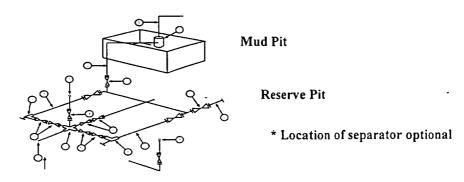
GENERAL NOTES:

- 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 Corporat

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		T	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'	1		2' x5'			2' x5'	1	
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