PO Bcx 1980, Hobbs, NM 88241-1980 811 S. 1st Street Artesia, NM 88210-1404 District III 1000 Rio Brazos Rd, Aztec, NM 87410 District IV

PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resourses Departmen OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-101 Revised February 10, 1994 Instructions on back Submet to Appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies

AMENDED REPORT

APPLICA	TION	FOR	PE	RMIT	TO DRI	LL, RE-EI	NTER, DE	EPE	N, PLUGBA	ACK,	OR AL	DD A ZONE
				M	Operato Iack Energ P.O. I	r Name and Ad sy Corporation Box 960 1 88211-0960		26.28.29		769751	OGI	RID Number 013837 PI Number
					Titesia, ivi			77	RECEIVED	Z 1.12	30-0	15-32242
Proper	rty Code					P	roperty Name	07.0	OCD - ARTESIA	<u>.</u>		Well No.
22	547					<u>T</u>	enneco State	15		3		4
						Surface	Location	165	ر ادم دخ	7 5)		
UL or lot no.	Section	Town	ıship	Range	Lot Idn	Feet from the	North/South	line	Feet from the	East/W	est line	County
M	20	17	S	29E		990	South		330	V	Vest	Eddy
			Prop	posed I	Bottom 1	Hole Loca	tion If Diff	eren	t From Surf	ace		
UL or lot No.	Section	Town	ship	Range	Lot Idn	Feet from the	North/South	line	Feet from the	East/W	est line	County
	<u> </u>	Pr	opose	d Pool 1		<u> </u>	<u> </u>		Propose	d Pool 2		
	East	Empi	re Ye	eso 9	6610				Tropose	d 7 001 2	-	
,												
Work Ty	pe Code			Well Type	Code	Cable	/Rotary		Lease Type Coo	de	Ground	Level Elevation
N	ſ			О		R			S		3647'	
Mult	tiple		F	Proposed I	Depth	Formation		<u> </u>	Contractor		Spud Date	
No	0			4350'		Paddock			LaRue 4/		1/30/02	
				P	roposed	Casing a	nd Cement	Pro	gram			
Hole Siz	ze		Casing	g Size	Casir	g weight/foot	Setting D	Pepth	Sacks of	Cement	I	Estimated TOC
17 1/2			13 3	3/8		48# 350'			Circ			Surface
12 1/4			8 5	· · · · · · ·		24#			Sufficien	t to Cir	с	Surface
7 7/8			5 1.	/2		17#	4350'		Sufficient to Circ		С	Surface
					_							
Describe the pro	posed pros	zram. If	this a	nnlication	is to DEEDE	N or PLUG BA	'V give the date	an ab a	present productive			
zone. Describe t	M	ack E	nergy	Corpora	any. Use add tion propo	ses to drill to	necessary. 350', run 13 3/	/8" ca	sing and cement	t. Drill	to 800', r	
Note: On	Productio	on strir	ıg, a	fluid calil	oer will be	run, will figu	re cement, wit	th 25%	% excess, attemp	ot to cir	culate.	
I hereby certify the	hat the info	mation	given	above is tru	e and compl	ete to the best						
of my knowledge		7	_	_ /		4	OI	L C	ONSERVAT	NOI	DIVISI	ON
Signature		les	Ĵс_) بے	te		Approval by:	ORIG	inal signel	D BY T	IM W. G	UM
Printed name:		Criss	a D. (Carter		1	itle:	9167	THICT IS SUPE	XVIO	R	
Title:	I	Produc	tion .	Analyst			pproval Date:	AP	R 0 3 2002	xpintion	Dstc AP	2 0 3 2003
Date:				Phone:		Fi -	onditions of App	roval:				· · · · · · · · · · · · · · · · · · ·
	4/2/02			(:	505)748-1	288	Attached					

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State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

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

OIL CONSERVATION DIVISION

Revised February 10, 1994 Submit to Appropriate District Office

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 P.O. Box 2088 Santa Fe, New Mexico 87504-2088 State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT IV

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

□ AMENDED REPORT

API Number	Pool Code	Pool Name	Pool Name	
	96610	East Empire Yes	30	
Property Code	Property Na			
022547	TENNECO S	STATE	Well Number	
OGRID No.	Operator Na			
013837	MACK ENERGY CO		Elevation	
		JUL OIMITOR	3647'	

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	T 32 42 40 11				
1.4	20	17 0	29_F	Loc lun	_	North/South line	Feet from the	East/West line	County	1
IVI	20	11/-3	29-E		990	SOUTH	330	WEST	EDDY	1
								11231	EDDI	1

Bottom Hole Location If Different From Surface

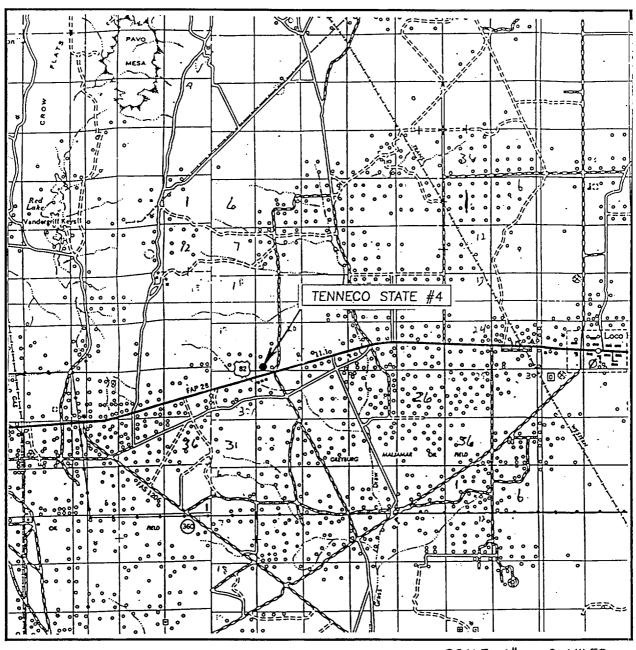
						LIGHT DUI	Idec		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	B Joint o	r Infill Co	nsolidation	Code Or	der No.				
40									
370									

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

	THE DIVIS	1011
	contained	RATOR CERTIFICATION I hereby certify the the information I herein is true and complete to the ty knowledge and belief.
	Signatu	ura D. Cat
SPC NME NAD 1927 Y=660454.58 X=570449.43 LAT.= 32*48*55.68*1 LONG.= 104*06*14.47	Printed Prod	uction Analyst
	Date SURV	VEYOR CERTIFICATION
	on this pactual su supervisa	certify that the well location shown lat was plotted from field notes of rveys made by me or under my on and that the same is true and to the best of my belief.
	Date Sur	MARCH 21, 2002 rveyed AWB e & Seal of onal Surveyor
330'	Bona	W. Joseph 3/29/02 W2.11.0216
	Certificat	te No. RONALD J. EIDSON 3239 GARY EIDSON 12641

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VICINITY MAP



SCALE: 1" = 2 MILES

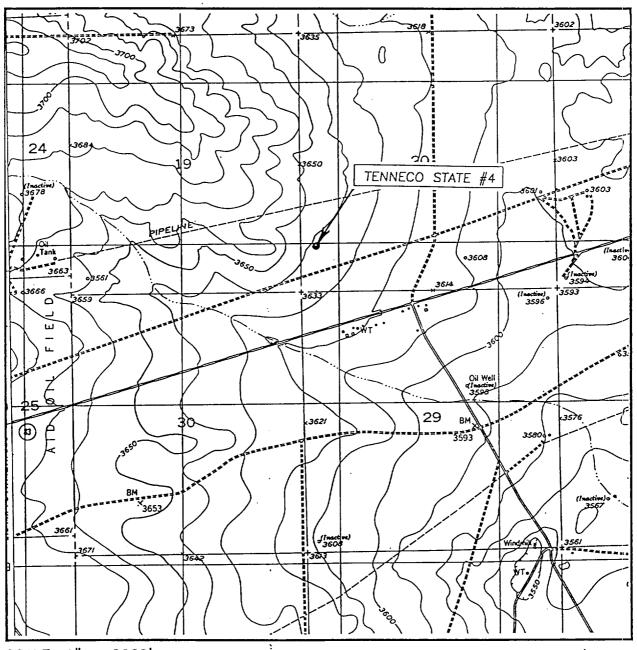
SEC. 20 TWP	2 <u>.17–S</u> RGE. <u>29–E</u>
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTION 95	90' FSL & 330' FWL
ELEVATION	3647'
OPERATOR MACI	K ENERGY CORPORATION
LEASE	TENNECO STATE

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



		NAMES AND PROPERTY OF THE PARTY
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LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10 RED LAKE SE, N.M.

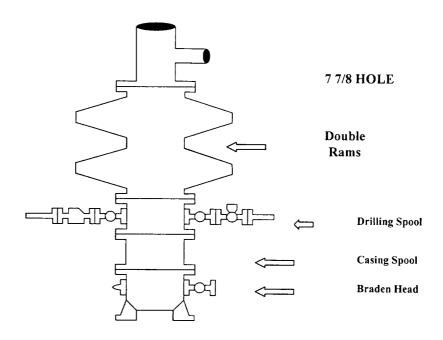
SEC. 20 T	WP. <u>17-S</u> RGE. <u>29-E</u>
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTION	990' FSL & 330' FWL
ELEVATION_	3647'
OPERATOR M	ACK ENERGY CORPORATION
LEASE	TENNECO STATE
U.S.G.S. TOP	POGRAPHIC MAP

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

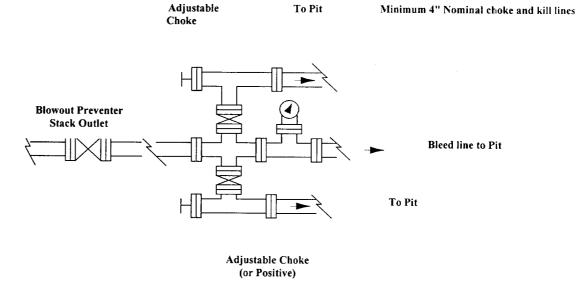
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Mack Energy Corporation

Exhibit #1 BOPE Schematic



Choke Manifold Requirement (2000 psi WP) No Annular Required



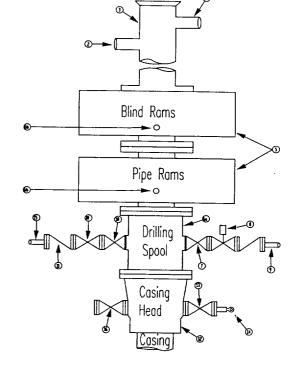
Mack Energy Corporatio

Minimum Blowout Preventer Requirements

2000 psi Working Pressure
2 MWP
EXHIBIT #2

Stack Requirements

	Stack Requireme	шь	
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" 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

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.
- 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.
- Wear bushing. If required.

GENERAL NOTES:

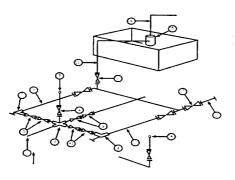
- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 2. All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working 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
- 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.
- 10. Casinghead connections shall not be used except in case of emergency.
- 11. Do not use kill line for routine fill up operations.

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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



Mud Pit

Reserve Pit

* Location of separator optional

Below Substructure

Mimimum requirements

	Mimimum requirements									
			00 MWP		5	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	<u> </u>	3"	10,000
2	Cross 3" x 3" x 3" x 2"			3,000			5,000			10,000
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	T	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	2	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		3	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.

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