Form C-District I PO Box 1980, Hobbs, NM 88241-1980 State of New Mexico Revised February 10, rgy, Minerals & Island
CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-208 192021222322 Energy, Minerals & Natural Resourses Departm Instructions on b 811 S. 1st Street Artesia, NM 88210-1404 **OIL CONSERVATION DIVISION** Submit to Appropriate District Off State Lease - 6 Copie District III 1000 Rio Brazos Rd, Aztec, NM 87410 Fee Lease - 5 Copies District IV AMENDED REPORT PO Box 2088, Santa Fe, NM 87504-2088 $\operatorname{\mathfrak{E}}$ k, or add a zone APPLICATION FOR PERMIT TO DRILL, RE-ENTER OGRID Number Operator Name and Address Mack Energy Corporation 013837 P.O. Box 960 API Number Artesia, NM 88211-0960 30-015-31480 Property Code Property Name Well No. 22547 Tenneco State 3 Surface Location UL or lot no Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line **17S** 29E 330 990 20 South West Eddy M Proposed Bottom Hole Location If Different From Surface East/West line Lot Idn Feet from the North/South line Feet from the UL or lot No. Section Township Range County Proposed Pool 1 Proposed Pool 2 East Empire Yeso 96610 Work Type Code Well Type Code Cable/Rotary Lease Type Code Ground Level Elevation N S 3631 Proposed Depth Formation Spud Date Multiple Contractor 4200' Paddock LaRue 12/23/00 No Proposed Casing and Cement Program Casing weight/foot Hole Size Casing Size Setting Depth Sacks of Cement Estimated TOC 17 1/2 54.5# 350' Circ 13 3/8 Surfale Sufficient to Circ 12 1/4 8 5/8 24# 800' ., Sufficient to Circ 7 7/8 5 1/2 17# 4300' Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary Mack Energy Corporation proposes to drill to 350', run 13 3/8" casing and cement. Drill to 800', run 8 5/8" casing and cement. Drill to 4300' and test Paddock Zone, run 5 1/2" casing and cement. Put well on production. Note: On Production string, a fluid caliber will be run, will figure cement, with 25% excess, attempt to circulate. **WOC 18 HOURS OR FOLLOW OPTION 2** PER RULE 107 I hereby certify that the information given above is true and complete to the best OIL CO of my knowledge and belief Signature Approval by Printed name Title: Crissa D. Carter Approval Date Title

Conditions of Approval

Attached

Production Analyst

(505)748-1288

Date

11/22/00

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

Pool Name

East Empire Yeso

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

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

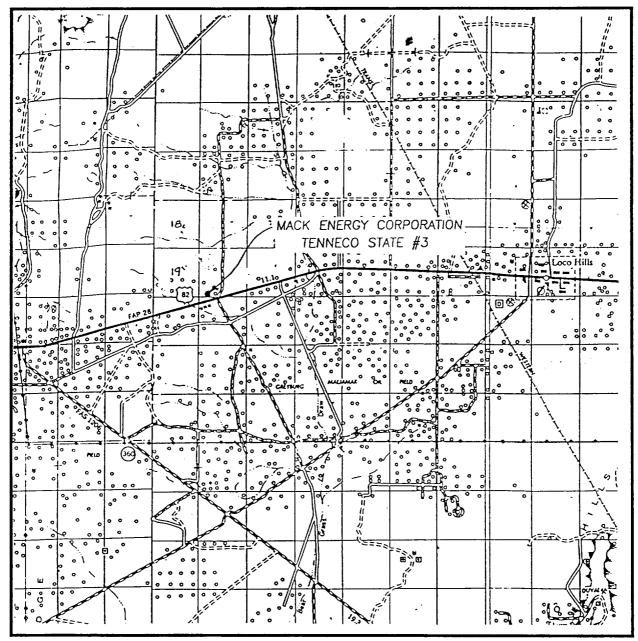
Property Name

Pool Code

96610

Property Code			Property Nam		Well Number						
022547			TENNECO ST	3							
OGRID No	•			MAAC	Operator Nam K ENERGY CC			Elevation			
013837			· · ·	MAC				3631			
L or lot No.	Section	Township	Range	Lot Idn	Surface Loc	North/South line	Feet from the	East/West line	G		
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— 990 -	330'							um. 00—11—]./ o. ronald J. Eidso GARY G. Eidso	N. 323		

VICINITY MAP

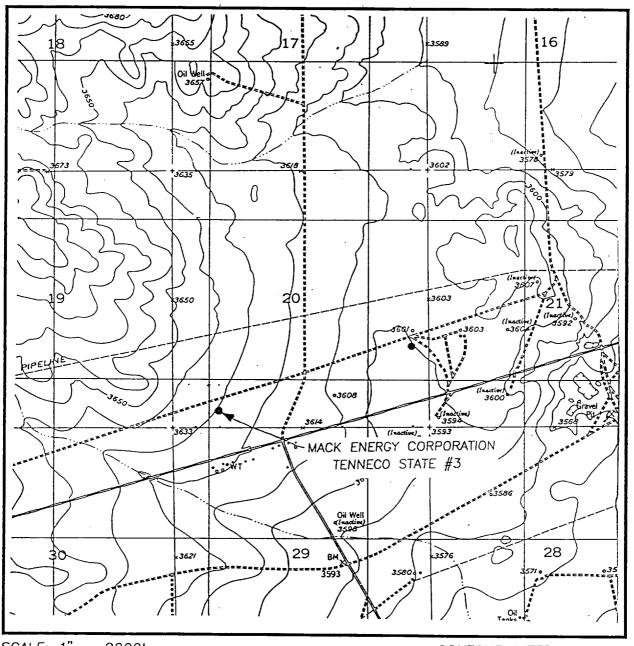


SCALE: 1" = 2 MILES

SEC. <u>20</u>	TWP. <u>17-S</u> RGE. <u>29-E</u>
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTIO	N 330' FSL & 990' FWL
ELEVATION_	3631
OPERATOR .	MACK ENERGY CORPORATION
I FASE	TENNECO STATE

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

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL - 10'

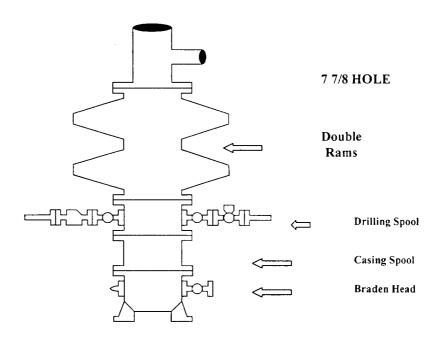
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JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117



Mack Energy Corporation

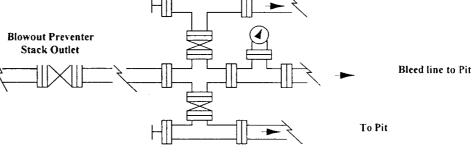
Exhibit #1 BOPE Schematic



Choke Manifold Requirement (2000 psi WP) No Annular Required

Adjustable To Pit Minimum 4" Nominal choke and kill lines Choke

Rlowout Prayantar



Adjustable Choke (or Positive)

Blowout Preventers Page 1

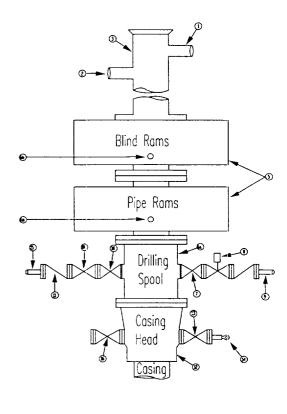
Mack Energy Corporation

Minimum Blowout Preventer Requirements

2000 psi Working Pressure 2 MWP EXHIBIT #2

Stack Requirements

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	<u> </u>	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.
- 3. 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.
- 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.

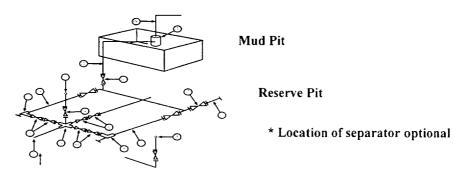
GENERAL NOTES:

- 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.
- 6. 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

			N	Aimimun	n require	ments				
		3,000 MWP			5	,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	<u> </u>		1
2	Cross 3" x 3" x 3" x 2"							1		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'	T		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.
- 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.
- 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