District I PO Box 1980, Hobbs, NM 88241-1980 Energy, Minerals & Natural Resourses Department District II 311 S. 1st Street Artesia, NM 88210-1404 OIL CONSERVATION DIVISION 56789 Submit to District III PO Box 2088 6 Copies 1000 Rio Brazos Rd, Aztec, NM 87410 Santa Fe, NM 87504-208 District IV PO Box 2088, Santa Fe, NM 87504-2088 AMENDED REPORT RECEIVED APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, FARTEGIBACK, OR ADD A ZONE OGRID Number Operator Name and Address Mack Energy Corporation 013837 P.O. Box 960 API Number Artesia, NM 88211-0960 30-015-32148 Property Code Property Name Well No. 17568 Antelope State Surface Location UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 36 17S 31E 1650 South 990 West Eddy Proposed Bottom Hole Location If Different From Surface UL or lot No. Section Township Lot Idn Feet from the Range North/South line Feet from the East/West line County Proposed Pool 1 Proposed Pool 2 Tamano San Andres Work Type Code Well Type Code Cable/Rotary Lease Type Code Ground Level Elevation N 3812' Multiple Proposed Depth Formation Contractor Spud Date No 5000' San Andres L & M 1/30/02 Proposed Casing and Cement Program Hole Size Casing Size Casing weight/foot Sacks of Cement Estimated TOC 17 1/2 13 3/8 48 Circulated Surface 12 1/4 8 5/8 32 2200' Sufficient to Circ Surface 7 7/8 17 5 1/2 5000' Sufficient to Circ Surface 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 2200', run 8 5/8" casing and cement. Drill to 5000' and test San Andres Zone, run 5 1/2" casing and cement. Put well on production. Note: On Production string, a fluid caliber will be run and will figure cement with 25% excess, attempt to circulate. I hereby certify that the information given above is true and complete to the best OIL CONSERVATION DIVISION of my knowledge and belief Signature Approval by: ORIGINAL SIGNED BY TIM W. GUM DISTRICT II SUPERVISOR Printed name: Title Crissa D. Carter Title: Expintion D: **Production Analyst** Date: Phone: Conditions of Approval: Attached 1/8/02 (505)748-1288

State of New Mexico

DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT III

DISTRICT IV

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 88211-0719

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

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

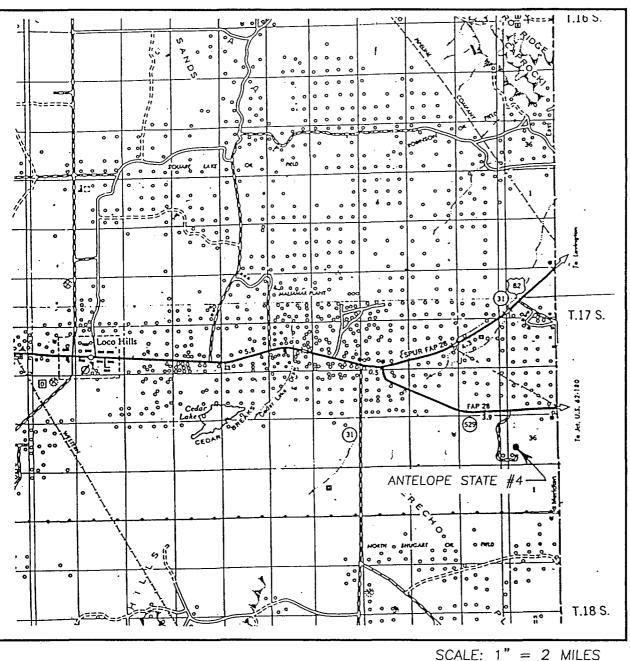
		WE	ELL LO	CATION	AND ACREA	GE DEDICATION	ON PLAT			
API Number	API Number Pool Code Pool Name									
	58060 Tamano San Andres									
Property Code	Property Code Property Name							Well Num	ber	
17568 ANTELOPE STATE						4	4			
OGRID No.					Operator Nam			Elevatio	Elevation	
013837 MACK ENERGY CORP.						3812				
					Surface Loca	ation				
UL or lot No. Section	n Town	ship	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
L 36		7 S	31 E		1650	SOUTH	990	WEST	EDDY	

Bottom Hole Location If Different From Surface UL or lot No. Lot Idn Feet from the North/South line Feet from the East/West line County Section Township Range Dedicated Acres Consolidation Code Order No. Joint or Infill 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.
	Signature Cal
	Crissa D. Carter Printed Name
,	Production Analyst Title
	1/8/2002 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.
990'	DECEMBER 21, 2001 Date Surveyed LMP Signature & Scal of
1650'	Professional Surveyor Small Enthon 01/03/02 01-11-1334
	Certificate No. RONALD J. EIDSON 3239 GARY EIDSON 12641

VICINITY MAP

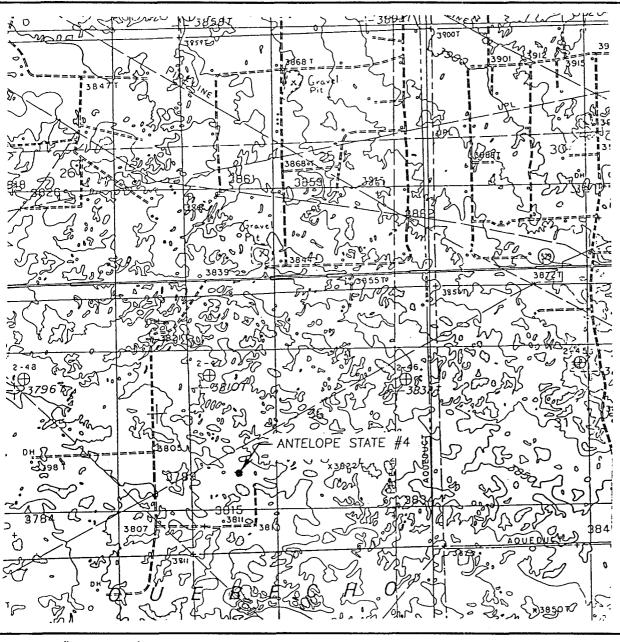


SEC. <u>36</u> TWP. <u>17-S</u> RGE. <u>31-E</u> SURVEY_____N.M.P.M. COUNTY____EDDY DESCRIPTION 1650' FSL & 990' FWL ELEVATION______3812 OPERATOR MACK ENERGY CORP.

LEASE ANTELOPE STATE

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

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

MALJAMAR, N.M.

CONTOUR INTERVAL: MALJAMAR, N.M. - 10'

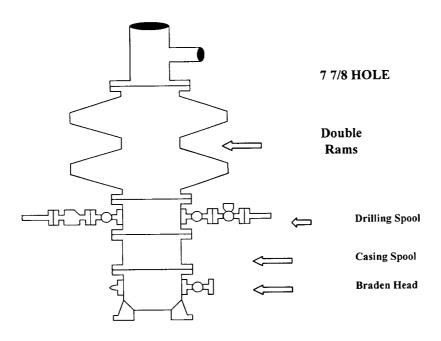
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OPERATOR <u>MACK ENERGY CORP.</u> LEASE ANTELOPE STATE U.S.G.S. TOPOGRAPHIC MAP

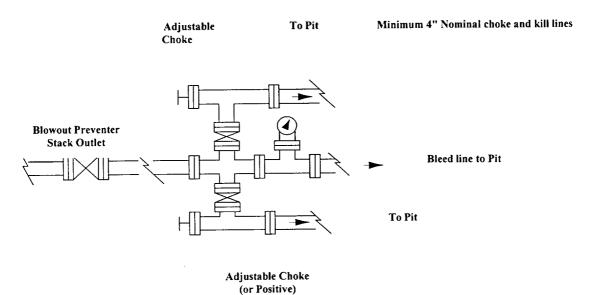
JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117

Mack Energy Corporation

Exhibit #1 BOPE Schematic



Choke Manifold Requirement (2000 psi WP) No Annular Required



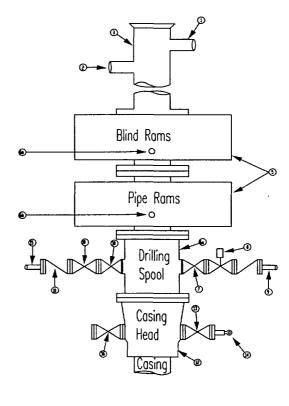
Mack Energy Corporation

Minimum Blowout Preventer Requirements

2000 psi Working Pressure 2 MWP EXHIBIT #2

Stack Requirements

	<u>_</u>		
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.
- 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.

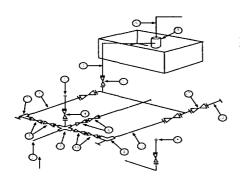
GENERAL NOTES:

- 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.
- 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



Mud Pit

Reserve Pit

* Location of separator optional

Below Substructure

Mimimum requirements

			17	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	i require	ments				
_		3,0	00 MWP		5,000 MWP			1	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			1
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.