District I 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

PO Box 2088, Santa Fe, NM 87504-2088

District IV

State of New Mexico Energy, Minerals & Natural Resourses Departme

OIL CONSERVATION DIVISION Submit 19 Appropriate District Conservation of the conservat PO Box 2088 Santa Fe, NM 87504-2088

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

	Operator Name and Address Mack Energy Corporation P.O. Box 960		OGRID Number 013837 API Number
	Artesia, NM 88211-0960		30-015- 3/34
Property Code	Property Name	•	Well No.
021114	White Oak Sta	te	5

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	23	17S	28E		990	North	330	East	Eddy

Proposed Bottom Hole Location If Different From Surface

		FIG	poseu i	SOLIOIT	TOIC LOCAL	on n bineren	tt i Tom out		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
ned L	ale;	Propose	ed Pool 1 Graybur	g SA			Propose	ed Pool 2	

Work Type Code	Well Type Code	Cable/Rotary	Lease Type Code	Ground Level Elevation
N	0	R	S	3707
Multiple	Proposed Depth	Formation	Contractor	Spud Date
No	3300	San Andreas	LaRue	10/22/00

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12 1/4	8 5/8	24	75c'3	Circ	Surface
7 7/8	4 1/2	15	3300'	Sufficient to Circ	11
		17.			
		050			

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 my, run 8 5/8" casing and cement. Drill to 3300', run 4 1/2" casing and cement. 25c1 Put well on production.

Note: On Production string, a fluid caliber will be run, will figure cement, with 25% excess, attempt to circulate.

I hereby certify that the information given above is true and complete to the of my knowledge and belief	OIL CONSERVATION DIVISION
Signature Usac D. Call	Approval by: ORIGINAL SIGNED BY TIM W. GUM
Printed name: Crissa D. Carter	Title: BISTRICT II SUPERVISOR
Title: Production Analyst	Approval Date: SEP 2 U 2000 Expintion Date SEP 2 0 2001
Date: Phone: (505)748-1288	Conditions of Approval: Attached

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

Autoria Queen Grayburg SA

State Lease - 4 Copies Fee Lease - 3 Copies

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

DISTRICT IV

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

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

API Number

Property Code

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

Well Number

WELL LOCATION AND ACREAGE DEDICATION PLAT

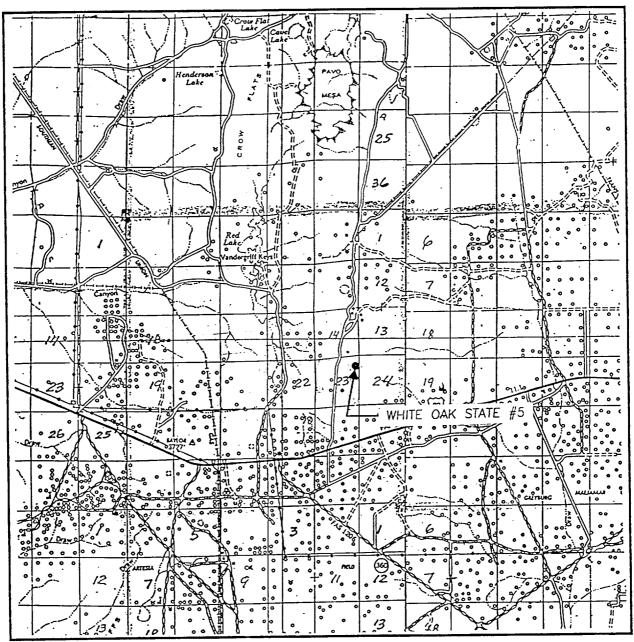
Property Name

Pool Code

0020051300

Property	Code			TA	Property Nam			Well Num	nber	
021114		ļ			HITE OAK S			5		
OGRID No. ODERATION ODERATION ODERATION ODERATION								Elevation 3707		
					Surface Loc	ation				
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Α	23	17 S	28 E		990	NORTH	330	EAST	EDD	
· · · · · · · · · · · · · · · · · · ·	·		Bottom	Hole Lo	cation If Diffe	erent From Sur	face	<u> </u>	L	
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
		}								
Dedicated Acre	s Joint	or Infill Co	nsolidation (Code 01	der No.	<u></u>	1	1	ł	
40		*								
NO ALL	OWABLE V	WILL BE A	SSIGNED 1	ro This	COMPLETION U	JNTIL ALL INTER	RESTS HAVE B	EEN CONSOLID	ATED	
						APPROVED BY				
						*	OPERAT		EVON	
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							Date			
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	1				1		SEPTE	MBER 12, 200	00	
							Date Survey		DC	
							Signature & Professional			
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							Konald	1 Enulson 9	14/00	
							1 / WILLIAM	0-11-1076	- 1700	
	'				,		Certificate N	o. RONALD J. EIDS	ON 3239	
	!				ļ			GARY EIDSON	1264	
								·		

VICINITY MAT



SCALE: 1" = 2 MILES

SEC. 23 TWP. 17—S RGE. 28—E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 990' FNL & 330' FEL

ELEVATION 3707

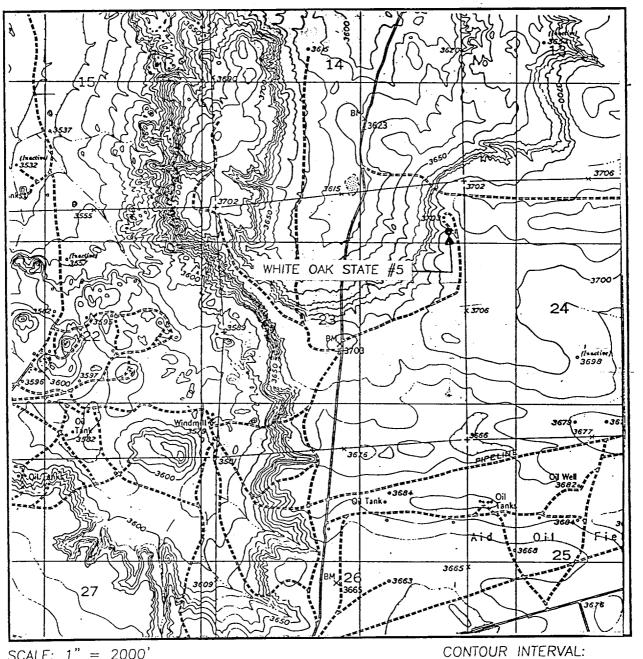
OPERATOR MACK ENERGY CORPORATION

LEASE WHITE OAK STATE

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



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

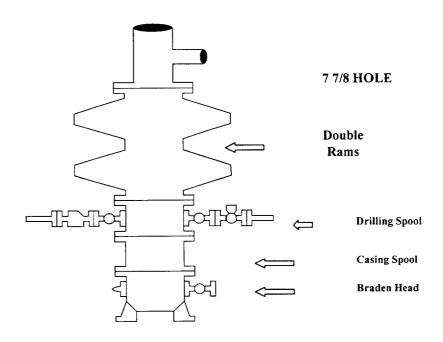
CONTOUR INTERVAL: RED LAKE - 10'

SEC. <u>23</u> TWP. <u>17-S</u> RGE. <u>28-E</u>
SURVEYN.M.P.M.
COUNTYEDDY
DESCRIPTION 990' FNL & 330' FEL
ELEVATION3707
OPERATOR MACK ENERGY CORPORATION
LEASE WHITE OAK STATE
U.S.G.S. TOPOGRAPHIC MAP RED LAKE, 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

Adjustable Choke **Blowout Preventer** Stack Outlet Bleed line to Pit To Pit Adjustable Choke (or Positive)

To Pit

Minimum 4" Nominal choke and kill lines

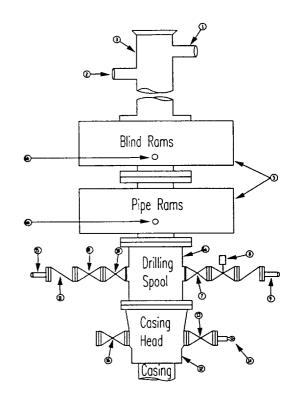
Mack Energy Corporation

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" 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

ı	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.

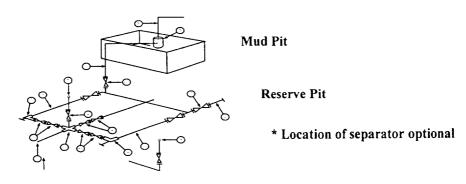
GENERAL NOTES:

- 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.
- 6. Choke lines must be suitably anchored
- 7. Handwheels and extensions to be connected and ready for
- 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

			17	THUITHIAN	ı require	ments				
		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			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	<u> </u>	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.