	JMUCT FED STATES ENT OF THE IN OF LAND MANAGE	(Other Inst: reverse	fr ICATE s on /	<ul> <li>Form approved.</li> <li>Budget Bureau</li> <li>Expires: Decem</li> <li>5. LEASE DESIGNATION /</li> <li>NM-0467</li> </ul>	AND SERIAL NO.
APPLICATION FOR				6. IF INDIAN, ALLOTTEE	-
1a. TYPE OF WORK         DRILL         b. TYPE OF WELL         OIL         WELL         WELL         2. NAME OF OPERATOR         Mack Energy Corporation		SINGLE MULT		7. UNIT AGREEMENT NA 8. FARM OR LEASE NAME, WEL Sinclair Par 9. API WELL NO.	<u>6190</u> LNO.
3. ADDRESS AND TELEPHONE NO.		······································	4	30-015-3	0329
P.O. Box 960, Artesia, NM 88211-09 4. LOCATION OF WELL (Report location clea	· ·/		<b>r</b>	10. FIELD AND POOL, OR	
At surface At proposed prod. zone Unit F 14. DISTANCE IN MILES AND DIRECTION FROM N	2310 FNL 1650 F 2310 FNL 1650 F	WL UCD - AR	VED TESIA	11. SEC., T., R., M., OR B AND SURVEY OR ARI Sec 22 T17S	R30E
	e Northeast Loco Hi			12. COUNTY OR PARISH Eddy	13. STATE NM
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)	330	6 NO. OF ACRES IN LEASE 40		F ACRES IN LEASE	0
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED OR APPLIED FOR. ON THIS LEASE, FT.	658	9. PROPOSED DEPTH 5500		RY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc 3654	ROSWELL CON	TROLLED WATER	BASIN	22. APPROX. DATE WORK 10/06/9	
23.	PROPOSED CASING	AND CEMENTING PROGRA	M		
SIZE OF HOLE CRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	1	QUANTITY OF CEMENT	г
17 1/2 K-55,13 3/8	48	450	WITH	Circ	
12 1/4 K-55, 8 5/8	24	1040	<b>A</b> 1,	Circ	
7 7/8 J-55, 5 1/2	17	5500		Suff to Circ	

Mack Energy proposes to drill to a depth sufficient to test the Paddock and San Andres formation for oil. If productive, 5 1/2" casing will be cemented. If non-productive, the well will be plugged and abandoned in a manor consistent with federal regulation. Specific programs as per Onshore Oil and Gas Order #1 are outlined in the following attachments: APPROVAL SUBJECT TO

Drilling Program	GENERAL REQUIREMENTS AND				
Surface Use & Operating Plan	SPECIAL STIPULATIONS Exhibit #4 - One-Mile Radius Map	Post_JD-1 7-10-98			
Exhibit #1 & 1A - Blowout Preventer Equipment	Exhibit #5 - Production Facilities Layout	APItLoc			
Exhibit #2 - Location and Elevation Plat	Exhibit #6 - Location Layout				
Exhibit #3 - Planned Access Road	Exhibit #7 - H2S Drilling Operations Plan				

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED Matt f. Brewer	TITLE	Geological Engineer	DATE	5/04/98
(This space for Federal or State office use)				
PERMIT NO		APPROVAL DATE		
Application approval does not warrant or certify that the applicant ho CONDITIONS OF APPROVAL, IF ANY:	lds legal or equitable i	title to those rights in the subject lease which wo	uld entitle the appli	cant to conduct operations therec
APPROVED BY (ORIG. SGD.) ARMANDO A. LOPEZ	ПТLЕ(	TWY AFONI ANDS Schurch 15		1 3 0 19 <b>98</b>

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DISTRICT I

P.O. Boy 1980, Hobbs, NM 88241-1980

DISTRICT II P.O. Drawer DD, Artesia, NM 86211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 67410

DISTRICT IV P.O. BOX 2088, SANTA PE, N.M. 87504-2088

## 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

# OIL CONSERVATION DIVISION P.0. Box 2088

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code Pool Nar		me		
	96718	Loco Hills Paddock			
Property Code 006190	Property Name SINCLAIR PARKE FEDERAL		Well Number		
ogrid No. 013837	opera MACK ENERGY	CORPORATION	Elevation 3654		

Surface Location

177	a	1				<u> </u>				
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	1
F	22	17 S	30 E		2310	NORTH	1650	WEST	EDDY	

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation (	Code Or	der No.	L			

## 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

	1	
		OPERATOR CERTIFICATION 1 hereby certify the the information contained herein is true and complete to the
		best of my knowledge and belief.
		Matt J. Braver Signature Matt J. Brewer
		Printed Name Geological Engineer
3661.1' <u>3</u> 662.3'		Title 4/28/98 Date
3652.6' <u>3648.9</u> '		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.
		APRIL 14, 1998 Date Successed J. Standard DMCC Signature See 50
		Preferancial Surveyor Preferancial Surveyor C. 7 23 23 23 23 23 23 23 23 23 23
		Certificate No. ROMALD 2 EIDSON 3239 Certificate No. ROMALD 2 EIDSON 3239 In A OFESSION 12641 In CORESSION MCDONALD 12185

# Attachment to Exhibit #1 NOTES REGARDING THE BLOWOUT PREVENTERS Sinclair Parke Federal #2 Eddy County, New Mexico

- 1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
- 2. Wear ring to be properly installed in head.
- 3. Blow out preventer and all fittings must be in good condition, 2000 psi WP minimum.
- 4. All fittings to be flanged.
- 5. Safety valve must be available on rig floor at all times with proper connections, valve to be full 2000 psi WP minimum.
- 6. All choke and fill lines to be securely anchored especially ends of choke lines.
- 7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
- 8. Kelly cock on Kelly.
- 9. Extension wrenches and hands wheels to be properly installed.
- 10. Blow out preventer control to be located as close to driller's position as feasible.
- 11. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation all API specifications.

## MINIMUM 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

(16

## MACK ENERGY CORPORATION EXHIBIT #1-A





BEYOND SUBSTRUCTURE

			MINI	MUM REQU	IREMENT	5				
	1		3,000 MWP			5,000 MWP			10,000 MWF	)
No.		I.D.	NOMINAL	RATING	LD.	NOMINAL	RATING	I.D.	NOMINAL	RATING
1	Line from drilling spool		3*	3,000		3*	5,000		3*	10,000
2	Cross 3"x3"x3"x2"			3,000			5,000			
4	Cross 3"x3"x3"x3"									10,000
3	Valves(1) Gate C Plug C(2)	3-1/8*		3,000	3-1/8*		5,000	3-1/8*		10,000
4	Valve Gate C Plug (2)	1-13/16*		3,000	1-13/18"		5,000	1-13/18*		10,000
48	Valves(1)	2-1/16"		3,000	2.1/16"		5,000	3-1/8*		10,000
5	Pressure Gauge			3,000			5,000			10,000
8	Gate C Valves Plug (2)	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
8	Line		3"	3,000		3*	5,000		3*	10,000
10	Line		2*	3,000		2"	5,000		3.	10,000
11	Valves Gate D Plug D(2)	3-1/8*		3,000	3-1/8"		5,000	3-1/8"		10,000
12	Lines		3.	1,000		3*	1,000		3"	2,000
13	Lines		3*	1,000		3"	1,000	•	3*	2,000
14	Remote reading compound standpipe pressure gauge			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	Valves Gate C Plug C(2)	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 10M.

(3) Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling.

## EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS

- 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 be as straight as possible. Lines downstream from chokes shall make turns by large bends or 90° bends using bull plugged tees.

## MINIMUM BLOWOUT PREVENTER REQUIREMENTS

#### 2.,000 psi Working Pressure

2 MWP

# MACK ENERGY CORPORATION

EXHIBIT #1-A

	STACK	REQUIREME	NTS	
No.	ltem		Min. I.D.	Min. Nominal
1	Flowline			
2	Fill up line			2"
3	Drilling nipple			
4	Annular preventer			
5	Two single or one dual hy operated rams	draulically		
6a	Drilling spool with 2" min. 3" min choke line outlets	kill line and		2"Choks
6b	2" min. kill line and 3" mi outlets in ram. (Alternate			
7	Valve	Gale 🗆 Plug 🗆	3-1/8"	
8	Gate valve-power opera	ted	3-1/8"	
9	Line to choke manifold			3*
10	Vaives	Gale 🗆 Plug 🕞	2-1/16*	
11	Check valve		2-1/16"	
12	Casing head			<u> </u>
13	Valve	Gale D Plug D	1-13/16*	
14	Pressure gauge with need	die valve		
15	Kill line to rig mud pump r			2*



· · · · · · · · · · · · · · · · · · ·		
OPTIONAL	-	
	1-13/16"	
	OPTIONAL	OPTIONAL 1-13/18"

## CONTRACTOR'S OPTION TO FURNISH:

- 1. All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 2,000 psl, 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 prevventer 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 AX ring gaskets in place of Type A.

#### MEC TO FURNISH:

- 1.Bradenhead or casinghead and side valves.
- 2.Wear bushing, if required.

### GENERAL NOTES:

- 1. Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 2.All connections, valves, littings, 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 chore. 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.
- 4. Chokes will be positioned so as not to hamper or delay changing of choke beans. Replaceable parts for adjustable choke, other bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.
- All valves to be equipped with handwheels or handles ready for immediate use.
- 6.Choke lines must be suitably anchored.

- 7.Handwheels and extensions to be connected and ready for use.
- Vaives adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- 9.All seamless steel control piping ( Z000 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.

MACK ENI



exhibit #1-a