Form 3160-3 (December 1990)				re	F IN T LICATI Instr. Ins on everse side)	E* Form approved. Budget Bureau I Expires: Decemi	-	
20 C 100 C	DEPARTMEN	IUFINEI	NIERIC	JR		5. LEASE DESIGNATION A	ND SERIAL NO.	
and the second sec	BUREAU OF	LAND MANA	GEMENT			LC-02902	0G	
APPL	ICATION FOR P	ERMIT TO I		OR DEEP	EN	6. IF INDIAN, ALLOTTEE C	R TRIBE NAME	
. 1a. LYPE OF WORK D. TYPE OF WELL		DEEPEN				7. UNIT AGREEMENT NAM	NE 074	
	Gas OTHER		SINGL ZONE		MULTIPLE	8. FARM OR LEASE NAME, WELL	NO.	
2. NAME OF OPERATOR					<u> </u>	Dexter F <del>ede</del>	<del>ra</del> l #6	
Mack Energy Cor	poration	13837	ļ		*	9. API WELL NO.		
3. ADDRESS AND TELEPHONE N	0.			Ji		30-015-30	325	
P.O. Box 960. Art	esia, NM 88211-0960	(505)	748-1288	RE	CELVED	10. FIELD AND POOL, OR		
· · · · · · · · · · · · · · · · · · ·	L (Report location clearly					Loco Hills Pa	ddock 96718	
At surface	. –	2310 FSL 2310		1 000	74712 (LLC))	11. SEC., T., R., M., OR BI AND SURVEY OR ARE	JK. A	
At proposed prod. zo		2310 FSL 231				Sec 22 T17S	R30E	
14. DISTANCE IN MILES A	ND DIRECTION FROM NEAF	EST TOWN OR POS	T OFFICE*			12. COUNTY OR PARISH	13. STATE	
	0.5 mile	es East Loco Hi	lls			Eddy	NM	
15. DISTANCE FROM PROF LOCATION TO NEARES PROPERTY OR LEASE (Also to nearest dr	ST	330	16. NO. OF 2	ACRES IN LEASE 120		OF ACRES IN LEASE HIS WELL 4	0	
18. DISTANCE FROM PROF TO NEAREST WELL, D OR APPLIED FOR, ON TI	OSED LOCATION* RILLING, COMPLETED HIS LEASE, FT.	330	30 5500			ARY OR CABLE TOOLS Rotary		
21. ELEVATIONS (Show	whether DF, RT, GR, etc.) 3656	WELL GONI	ROULE	G R MAR		22 APPROX. DATE WORK W 8/28/98		
23.		PROPOSED CASI	ING AND CE	MENTING PR	OGRAM			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER F	оот	SETTING DEP	ГН	QUANTITY OF CEMENT	 [	
17 1/2	K-55,13 3/8	48		450		Circ		
12 1/4	K-55, 8 5/8	24		1040		Se Circ		
7 7/8	J-55, 5 1/2	17		5500		Suff to Circ	<u></u>	

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:

Drilling Program	APPROVAL SUBJECT TO GENERAL HEQUIREMENTS AND					
Surface Use & Operating Plan	Exhibit #4 - One- Mile Radius Map	S = 1 = 1				
Exhibit #1 & 1A - Blowout Preventer Equipment	Exhibit #5 - Production Facilities Layout	Post ID-2 7-10-98				
Exhibit #2 - Location and Elevation Plat	Exhibit #6 - Location Layout	AFF + Loc				
Exhibit #3 - Planned Access Road	Exhibit #7 - H2S Drilling Operations Plan	1				

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 Math J. Breu	v-	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 o	ertify that the applicant	t holds legal or equitable	e title to those rights in the subject lease which wo	uld entitle the applica	nt to conduct operations there
CONDITIONS OF APPROVAL, IF ANY:					
		J.	at Atom		

		$\frac{1}{2}$	•, *		э 1 - 1	Que has
APPROVED BY						

DI MUNPALE JUN 3 0 1998 TITLE

\*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, flictitious or fraudulent statements or representations as to any matter within its jurisdiction. DISTRICT I P.O. Box 1980, Hobbs, NM 86241-1980

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

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

DISTRICT IV P.O. BOX 2086, SANTA FE, N.M. 87504-2088

#### State of New Mexico-

 Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

## OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name			
	96718	Loco Hills Paddock			
Property Code		Well Number			
006074	DEXTE	6			
OGRID No.	(	perator Name	Elevation		
013837	MACK ENER	GY CORPORATION	3656		

#### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	22	17 S	30 E		2310	SOUTH	2310	EAST	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.				

#### 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



## Attachment to Exhibit #1 NOTES REGARDING THE BLOWOUT PREVENTERS Dexter Federal #6 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

## MACK ENERGY CORPORATION EXHIBIT #1-A



BEYOND SUBSTRUCTURE

			MINI	MUM REQL	IREMENTS	3				
	1	3,000 MWP 5,000 MWP								
Na.		I.D.	NOMINAL	RATING	1.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING
1	Line from drilling spool		3*	3,000		3"	5,000		3*	10,000
_ <u>_</u>	Cross 3"x3"x3"x2"			3,000			5,000			
2	Cross 3"x3"x3"x3"									10,000
3	Vaives(1) Gate [] Piug [](2)	3-1/8*		3,000	3-1/8"		5,000	3-1/8*		10,000
4	Valve Gate [] Plug [](2)	1-13/16"		3,000	1-13/18"		5,000	1-13/16*		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
9	Line		3"	3,000		3"	5,000	L	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'×5'	
18	Line		4*	1,000		4*	1,000		4"	2,000
17	Gate [] Valves Plug [](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, llanged or Cameron clamp of comparable rating.
- 2. All fianges 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

STACK	REQUIREME	NTS	
ltem		Min. I.D.	Min. Nominal
Flowline			
Fill up line		<u> </u>	2"
Drilling nipple			ļ
Annular preventer			<u> </u>
Two single or one dual hy operated rams	ydraulically		
Drilling spool with 2" min 3" min choke line autlets	, kill line and		2"Choks
2" min. kill line and 3" m outlets in ram. (Alternate	in, choke line to 6a above.)		
Valve	Gate 🗆 Plug 🗅	3-1/8"	
Gate valve-power opera	ited	3.1/8*	
Line to choke manifold			3*
Valves	Gate 🗆 Plug 🔂	2-1/16"	
Check valve		2-1/16*	
Casing head			
Valve	Gate 🗆 Plug 🗆	1-13/16*	
Pressure gauge with nee	die valve		
Kill line to rig mud pump	manifold		2*
	Item Flowline Fill up line Drilling nipple Annular preventer Two single or one dual hy operated rams Drilling spool with 2" min 3" min choke line outlets 2" min. kill line and 3" m outlets in ram. (Alternate Valve Gate valve—power opere Line to choke manifold Valves Check valve Casing head Valve	Item         Flowline       Flowline         Fill up line       Drilling nipple         Annular preventer       Two single or one dual hydraullcally operated rams         Drilling spool with 2" min. klll ilne and 3" min choke line outlets       Or         2" min. kill line and 3" min. choke line outlets in ram. (Alternate to 6a above.)       Valve         Valve       Gate []         Plug []       Gate valve—power operated         Line to choke manifold       Plug []         Check valve       Casing head         Valve       Gate []	Item     I.D.       Flowline

CONFIGURATION A



OPTION	AL.	
16 Flanged valve	1-13/16"	

## CONTRACTOR'S OPTION TO FURNISH:

- 1. All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 2,000 pst, 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.
- 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 drilt pipe in use on location at all times.
- 9. Type RX ring gaskets in place of Type R.

#### MEC TO FURNISH:

- 1.Bradenhead or casinghead 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.
- 2.All connections, valves, littings, piping, etc., subject to well or pump pressure must be lianged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through cho'le. 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.
- 5.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.
- Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- 9. 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 #1-A