Form 3160-3 (December 1990)	_) Moch FED STATES	(Other Instr reverse	nson	5. LEASE DESIGNATION A	0er 31, 1991 W	
	BUREAU OF	LAND MANAGEMI	ENT		LC-02902		
APPL	ICATION FOR P	ERMIT TO DRII	L OR DEEPEN	· · · · · ·	6. IF INDIAN, ALLOTTEE O		
1a. TYPE OF WORK DF b. TYPE OF WELL OIL WELL 2. NAME OF OPERATOR	RILL X Gas Well OTHER	DEEPEN	SINGLE MULT ZONE ZONE	IPLE	7. UNIT AGREEMENT NAN 8. FARM OR LEASE NAME, WELL Dexter Fede r	074 NO.	
Mack Energy Con	<u> </u>	13837			9. API WELL NO.		
3. ADDRESS AND TELEPHONE N			12	~	30-015-303		
	tesia, NM 88211-0960	(505) 748-1		ALZSA	10. FIELD AND POOL, OR	WILDCAT	
4. LOCATION OF WEI At surface	LL (Report location clearly :	and in accordance with a 2310 FSL 1650 FWI	et a	REIL	11. SEC., T., R., M., OR BL AND SURVEY OR AREA	K.	
At proposed prod. zo		2310 FSL 1650 FWI	- 001		Sec 22 T17S	R30E	
14. DISTANCE IN MILES A	ND DIRECTION FROM NEAR 0.5 mile	EST TOWN OR POST OFFI	CE*		12. COUNTY OR PARISH Eddy	13. STATE NM	
15. DISTANCE FROM PRO LOCATION TO NEARE PROPERTY OR LEASE (Also to nearest dr	sr	330 ^{16. N}	0. OF ACRES IN LEASE 120		OF ACRES IN LEASE THIS WELL 40		
OR APPLIED FOR, ON T	PRILLING, COMPLETED HIS LEASE, FT.	330 ^{19. Pl}	ROPOSED DEPTH 5500	20. ROTAF	ARY OR CABLE TOOLS Rotary		
21. ELEVATIONS (Show	whether DF, RT, GR, 3645	MELL CONTINUE			22. APPROX. DATE WORK W 8/09/98		
23.		PROPOSED CASING AN	D CEMENTING PROGRA	M			
SIZE OF HOLE	CRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPEND	NESS	QUANTITY OF CEMENT		
17 1/2	K-55,13 3/8	48	450		Circ		
12 1/4	K-55, 8 5/8	24	1040	NTNE SP	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 SUBJEC	NT TO	
Drilling Program	GENERAL REQUIR	EMENISAN	D+ TNI
Surface Use & Operating Plan	SPECIAL STIPULAT	IONS Exhibit #4 - One- Mile Radius Map	Post ID-1 7-10-98
Exhibit #1 & 1A - Blowout Prevente		Exhibit #5 - Production Facilities Layout	APIY Loc
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 J. Brown	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 holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY (ORIG. SGD.) ARMANDO A. LOPEZ

ACTING AFONI, LANDS & MUNCAALS DATE 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 88241-1980

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

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

UL

DISTRICT IV P.O. BOX 2068, SANTA FE, 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.O. Box 2088

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 96718	Pool Name Loco Hills Paddock	
Property Code 006074	Pro DEXTER	Well Number 4	
OGRID No.	Ope	rator Name	Elevation
013837	MACK ENERG	Y CORPORATION	3645

Surface Location

L or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	22	17 S	30 E		2310	SOUTH	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	s Joint o	r Infill Co	nsolidation (Code Ord	der No.	L	L		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



Attachment to Exhibit #1 NOTES REGARDING THE BLOWOUT PREVENTERS Dexter Federal #4 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	NUM REQL	IREMENTS	3				
	· · · · · · · · · · · · · · · · · · ·	1	3,000 MWP 5,000 MWP		10,000 MWP					
No.		I.D.	NOMINAL	RATING	1.0.	NOMINAL	RATING	LD.	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			
2	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 C(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 C(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		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	1	2'x5'			2'x5'			2'x5'	
18	Line		4.	1,000		4"	1,000		4"	2,000
17	Gate C Valves 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 velves only shall be used for Class 10M.

(3) Remote operated hydraulia 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 h operaled rams	ydraulically		
6a	Drilling spool with 2" mir 3" min choke line outlets	, kill line and		2"Choks
6b	2" min. kill line and 3" m outlets in ram. (Alternate			
7	Valve	Gate 🗆 Plug 🗆	3-1/8″	
8	Gate valve-power oper	ated	3-1/8*	
9	Line to choke manifold			3*
10	Valves	Gate 🗆 Plug 🗅	2-1/18"	
11	Check valve		2-1/16"	
12	Casing head			
13	Valve	Gale 🗆 Plug 🗅	1-13/18*	
14	Pressure gauge with nee	dle valve		
15	Kill line to rig mud pump	manifold		2*



DRILLING SPOOL

CASING

HEAD

CASING

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1:0

(12)

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1

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CONFIGURATION

		OPTIONAL		
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 psi, minimum.
- 2. 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.
- 5.Inside blowout prevventer or its equivalent on derrick lioor 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 casinghead and side vaives.

GENERAL NOTES:

- 1.Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 2.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 cho"e. Valves must be full opening and suitable for high pressure mud service.
- 3. 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.

- 8. 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.

2.Wear bushing, if required.