		UMIC D.	MRECSINI			, , (
Form 3160-3 (December 1990)		ED STATES	(Other Insti reverses	LICATE Ins on Side)	* Form approved. Budget Bureau N Expires: Decemi	· \/ \	
	DEPARTMEN	I OF THE IN	IERIOR		5. LEASE DESIGNATION A	ND SERIAL NO.	
	BUREAU OF	LAND MANAGE	MENT		LC-02902	0G	
APPL	ICATION FOR PI	ERMIT TO DE	RILL OR DEEPEN		6. IF INDIAN, ALLOTTEE O	R TRIBE NAME	
1a. TYPE OF WORK	57			-	7. UNIT AGREEMENT NAM	45	
DR b. type of well		DEEPEN 📖				0711	
	Gas		SINGLE MULTI	PLE	8. FARM OR LEASE NAME, WELL	<u>v / 4</u>	
2. NAME OF OPERATOR	Well OTHER		2.0NE ZONE		Dexter Feder		
Mack Energy Cor	poration	1383	7.		9. API WELL NO.		
3. ADDRESS AND TELEPHONE N	0.		A A		30-015-303	524	
P.O. Box 960, Art	esia, NM 88211-0960	(505) 74	8-1288	· [10. FIELD AND POOL, OR	WILDCAT	
	L (Report location clearly a	nd in accordance wit	h any state requirement.*)		Loco Hills Paddock 9671		
At surface		1590 FSL 2410 F	WL OCD - ARTES		11. SEC., T., R., M., OR BL AND SURVEY OR ARE.	.K. A	
At proposed prod. 20		1590 FSL 2410 F	WL	И	Sec 22 T17S	R30E	
14. DISTANCE IN MILES A	ND DIRECTION FROM NEAR	EST TOWN OR POST O	FFICE*		12. COUNTY OR PARISH		
	0.5 mile	s East Loco Hills			Eddy	NM	
15. DISTANCE FROM PROF LOCATION TO NEARES PROPERTY OR LEASE (Also to nearest dr	$5T \qquad 77$		16 NO. OF ACRES IN LEASE 120		FACRES IN LEASE IS WELL 4)	
18. DISTANCE FROM PROP	POSED LOCATION* RILLING, COMPLETED	430	9. PROPOSED DEPTH 5500	20. ROTAR	Y OR CABLE TOOLS Rotary		
21. ELEVATIONS (Show	whether DF, RT, GR	VELL CONTR	OLLED WATER SA	ls in	22. APPROX. DATE WORK W 8/18/98		
23.		PROPOSED CASING	AND CEMENTING PROGRA	м			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT		
17 1/2	K-55,13 3/8	48	450	WITHE	SS Circ		
12 1/4	K-55, 8 5/8	24	1040		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: Mac S Mac

Drilling Program	A REPAIL HE OUREMENTS AND NSL -
Surface Use & Operating Plan	Exhibit #4-One- Mile Radius Map 4062
Exhibit #1 & 1A - Blowout Preventer Equipment	Exhibit #5 - Production Facilities Layout 6-25-98
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.

24. SIGNED Matt J. Brewer	TITLE Geological Engineer	5/04/98
(This space for Federal or State office use)		Port 10-2
PERMIT NO.	APPROVAL DATE	7-10-98
	nnt holds legal or equitable title to those rights in the subject lease which would	entitle the application for duct operations thereou
APPROVED BY (ORIG. SGD.) ARMANDO & LOPEZ	TITLE LANDS JONGERALS	dateJUN 3 0 1998
	*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. Box 1980, Hobbs, NM 88241-1980

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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

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 006074		[Prop DEXTER	erty Nam FEDER		Vell Nun 5	aber				
ogrid n 013837	o.			MACK		ator Nam CORF	PORATION	Arit 2	365		
					Surfa	ce Loca	ation		~		
UL or lot No. K	Section 22	Township 17 S	Range 30 E	Lot Idn	Feet fro 159		North/South line SOUTH	Feet from the 2410	East/West line WEST	County EDDY	
<u>.</u>	L	1	1	Hole L			rent From Sur				
UL or lot No.	Section	Township	Range	Lot Idn	Feet fro		North/South line	Feet from the	East/West line	County	
Dedicated Acre			nsolidation		Order No.				l		
NO ALLO	OWABLE V						UNTIL ALL INTER APPROVED BY '		EEN CONSOLID	ATED	
								I herei contained here best of my kno <u>Matt</u> Signature <u>Matt J</u> Printed Nar Geolog Title 4/28/9 Date SURVEY	Brewer ical Enginee 8 OR CERTIFICA	eformation lete to the er TION	
	2410'			5651.7	1 1 1 2 2			on this plat a actual survey supervison o	Ar Cee Doy	id notes of under my s true and UNCC HOAL HOAL HOAL HOAL HOAL HOAL HOAL HOAL	

Attachment to Exhibit #1 NOTES REGARDING THE BLOWOUT PREVENTERS Dexter Federal #5 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 LD. 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	IREMENT	3				
	1		3,000 MWP		5,000 MWP			10,000 MWP		
No.		1.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"x3"x3"x2"			3,000			5,000			
4	Cross 3"x3"x3"x3"									10,000
з	Valves(1) Gale [] Plug [](2)	3-1/8*		3,000	3-1/8*		5,000	3-1/8*		10,000
4	Valve Gale [] Plug [](2)	1-13/16"		3,000	1-13/16"		5,000	1-13/18*		10,000
4a	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
6	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 C Plug C(2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8*		10,000
12			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
16	Gas Separator		2'x5'			2'x5'			2'x5'	
18	Line		4*	1,000		4*	1,000		<u> </u>	2,000
17	Valves Gate [] 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 velves 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 con-
- junction 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

CONFIGURATION

STACK REQUIREMENTS

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 hyd operaled rams	raulically		
6a	Drilling spool with 2" min. 3" min choke line outlets	kill line and		2"Choks
66	2" min. kill line and 3" min outlets in ram. (Allernate to	, choke line o 6a above.)		
7	Valve	Gate 🗆 Plug 🗆	3-1/8*	
8	Gate valve-power operate	ad	3-1/8"	
9	Line to choke manifold			3"
10	Valves	Gate 🗆 Piug 🗅	2-1/16"	
11	Check valve		2-1/16*	
12	Casing head			
13	Valve	Gate 🗆 Plug 🗆	1-13/16*	
14	Pressure gauge with need	e valve		
15	Kill line to rig mud pump m		2"	

BLIND RAMS

OPTIONAL	-
16 Flanged velve	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 psl, minimum.
- 2. Automatic accumulator (80 gailon, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
- 3.80P controls, to be located near drillers position.
- 4.Kelly equipped with Kelly cock.
- 5.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 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
- 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.
- 3. Controls to be of standard design and each marked, showing opening and clos-Ing 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 1188.
- 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.



MACK ENERGY CORPORATION EXHIBIT #1-A