		4 99 119	• • • • •					
Form 3160-3 (December 1990)	DEPARTMEN	ED STATE	ATERIA, S	S. 19T ST. Nim 20210-2934 IN (Other Inst. reverse RIOR	ru on	Budget Bureau Expires: Decem	ber 31, 1991	
	BUREAU OI	LAND MANA	GEMEN	IT		5. LEASE DESIGNATION A LC-02873		
APPL	ICATION FOR P	ERMIT TO	DRILL	OR DEEPEN	······	6. IF INDIAN, ALLOTTEE (OR TRIBE NAME	
		DEEPEN				7. UNIT AGREEMENT NA	ME	
	Gas OTHER		SII ZC	NGLE MULT		8. FARMOR LEASE NAME, WELL Dinon Forder		
Mack Energy Cor	poration	13837	7			Pinon Feder 9. API WELL NO	al #3	
3. ADDRESS AND TELEPHONE N	0					Empire Y		
··································	esia, NM 88211-0960 L (Report location clearly		48-1288			10. FIELD AND POOL, OR WILDCAT		
Atsurface	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA							
At proposed prod. zo		2160 FNL & 23	10 FEL	wt, G		Sec 22 T17S R29E		
14. DISTANCE IN MILES A	ND DIRECTION FROM NEAF	EST TOWN OR POS	T OFFICE	*		12. COUNTY OR PARISH Eddy	13. STATE NM	
	ST LINE, FT. lg. unit line, if any)	330	16. NO. (OF ACRES IN LEASE 320		FACRES IN LEASE IS WELL 4(
18. DISTANCE FROM PROP TO NEAREST WELL, D OR APPLIED FOR, ON TI	RILLING, COMPLETED	1322	19. PRO	POSED DEPTH 5000	20. ROTAR	Y OR CABLE TOOLS Rotary		
21. ELEVATIONS (Show	whether DF, RT, GR, etc.) 3551 GR					22. APPROX. DATE WORK W 12/15/9		
23.		PROPOSED CASI	NG AND	CEMENTING PROGRA	м			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER F	тос	SETTING DEPTH		QUANTITY OF CEMENT		
17 1/2	13 3/8, k-55	48		300		Circ		
12 1/4	K-55, 8 5/8	24		450		Circ		
7 7/8	J-55, 5 1/2	17		5000		Suff. to Circ.		

Mack Energy proposes to drill to a depth sufficient to test the Empire Yeso 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

Surface Use & Operating Plan

Exhibit #1 & 1A - Blowout Preventér Equipment

Exhibit #2 - Location and Elevation Plat

Exhibit #3 - Planned Access Road

Exhibit #4 - One- Mile Radius Map

Exhibit #5 - Production Facilities Layout

Exhibit #6 - Location Layout

Exhibit #7 - H2S Drilling Operations Plan

617 000

Post \$P-1 3-20-98

APt / Loc

R.

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 Breuer	TITLE	Engineer	DATE	11/13/97
(This space	for Federal or State office use)			······································	
PERMIT NO.	· · · · · · · · · · · · · · · · · · ·	APPROV	AL DATE	······	
	proval does not warrant or certify that the applicant ho)F APPROVAL, IF ANY:	lds legal or equitable title to the	e rights in the subject lease which	would entitle the applican	it to conduct operations thereof
APPROVED B	(ORIG, SGD.) ARMANDO A. LOPEZ	TTTE 4DM	MINERALE	DAT 3-11	1-95

*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. Res 1980, Eobbs, NM 88241-1 DISTRICT II P.O. Drawer DD, Artesia, NM 88211 DISTRICT III 1000 Rio Brazos Rd., Astec, N DISTRICT IV P.O. Box 2088, Santa Fe, NM 876 API Number	-0719 N 87410 504-2088	VELL LO	CON Santa H	Minerals a SER P.O. Se, New	VATI Box 2 Mexic		SION CON PLAT Pool Name	Revised Februa to Appropriate Dis State Lease	- 4 Copies - 3 Copies
Property Code 21134				-	erty Nam	18	1030	Well Nur	aber
OGRID No.					ator Nam			3 Elevatio	
013837			MACK	ENER	SY CO	RPORATION		3551	
	······································		·		ce Loca	ation			
UL or lot No. Section G 22	Township 17 S	Range 29 E	Lot Idn	Feet fr		North/South line	Feet from the	East/West line	County
			Uele Ier	1		l	2310	EAST	EDDY
UL or lot No. Section	Township	Range	Hole Loo	Feet fro		rent From Sur North/South line	face Feet from the	East/West line	County
Dedicated Acres Joint or	Infill Con	solidation (Code Ore	ier No.					
NO ALLOWABLE W	ILL BE ASS OR A NO	SIGNED T ON-STAN	TO THIS DARD UN	COMPLE IT HAS	TION U BEEN	NTIL ALL INTER APPROVED BY 1	ESTS HAVE BE	EEN CONSOLIDA	TED
		355		552.4'		2310'	I hereby contained hereis best of my know Signature Matt Brev Printed Name Engineer Title 11-13-97 Date SURVEYO I hereby certify on this plat was actual surveys supervison, and correct to the OCTOBE Date Surveyor Signature & S Professional 4 SURVEYO	R CERTIFICAT that the well locations plotted from field made by me or well that the same (s best of my belief. ER 27, 1997	ION m shown notes of sader my true and 7 JLP -3/-97 29

Attachment to Exhibit #1 NOTES REGARDING THE BLOWOUT PREVENTERS Pinon Federal #3 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 W.P. 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 W.P. 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 hand 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.



			MINI	MUM REQI	JAEMENT	S				<u> </u>	
	3,000 MWP 5,000 MWP 10,000 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	[
-	Cross 3"x3"x3"x3"									10,000	
3	Valves(1) Gate [] Plug [](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	
4a	Valves(1)	2-1/18*		3,000	2.1/16"		5,000	3-1/8"		10,000	
б	Pressure Gauge			3,000			5,000			10,000	
8	Valves Gate C Plug (2)	3-1/8*		3,000	3-1/8*		\$,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 Gale [] Plug [](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	
16	Gas Separator		2'x5'			2'x5'			2'x5'		
16	Line		4*	1,000		4.	1,000		4.	2,000	
17	Valves Gate [] Plug [](2)	3-1/8*		3,000	3-1/8*		5,000	3-1/8"		10,000	

BEYOND SUBSTRUCTURE

(1) Only one required in Class 3M.

(2) Gale 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 railing.
- 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

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 hy operaled rams	draulically		
6a	Drilling spool with 2" min 3" min choke line outlets	, kill line and		2"Choks
66	2" min. kill line and 3" mi outlets in ram. (Alternate			
7	Valve	Gate 🗆 Plug 🗆	3-1/8*	
8	Gale valve-power opera	led	3.1/8"	
9	Line to choke manifold		1	3*
10	Valves	Gata 🗆 Plug 🗋	2-1/16"	
11	Check valve		2-1/16*	
12	Casing head			
13	Valve	Gale 🗆 Plug 🗆	1-13/16*	
14	Pressure gauge with need	le valve		
15	Kill line to rig mud pump m	nanifold		2*



HEAD

CASING

(18

MACK ENERGY CORPORATION EXHIBIT #1-A

		OPTIONAL		
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 2,000 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.
- 3.80P 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 lit pipe being used.
- Kelly saver-sub equipped with rubber casing protector at all times.
- 7.Plug type blowout preventer tester.
- 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.Bradenhaad 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 lianged (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 auitable 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.

llbo

(1)

(12)

- Valves 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 ENERGY CORPORATION EXHIBIT #1-A