Form 3160-3 (Vecember 1990)	C.a	TED STATE	8 S ARTES	ҙӵ҉ҎӍҤ	S. Division 187 ' TCATE Instructor 1889 Jacob	 Form approved. Budget Bureau Expires: Decen 5. LEASE DESIGNATION 	ber 31, 1991	
	BUREAU O	F LAND MANA	GEMENT			LC-0287	31-A	
APPL	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME						
b. TYPE OF WELL		DEEPEN			1ULTIPLE	7. UNIT AGREEMENT N. 8. FARMOR LEASE NAME, WE	21134	
2. NAME OF OPERATOR	Well OTHER		ZONE Z			Pinon Fede		
Mack Energy Cor 3. ADDRESS AND TELEPHONE N		:383	7			9. API WELL NO 30-015 - 2	30153	
P.O. Box 960, Art	esia, NM 88211-0960	(505) 7	48-1288			10. FIELD AND POOL, O		
4. LOCATION OF WEL At surface	L (Report location clearly	and in accordance	with any state req	uirem ent.*	')	Empire Yeso		
At proposed prod. zo		2085 FNL & 99 2085 FNL & 99	0 FEL V	d, H		11. SEC., T., R., M., OR E AND SURVEY OR AR Sec 22 T17S	EA	
14. DISTANCE IN MILES A	ND DIRECTION FROM NEA	REST TOWN OR POS	T OFFICE*			12. COUNTY OR PARISH Eddy	13. STATE NM	
15. DISTANCE FROM PROF LOCATION TO NEARES PROPERTY OR LEASE (Also to nearest dr	ST LINE, FT.	990	16. NO. OF ACRES 32			FACRES IN LEASE IS WELL	40	
18. DISTANCE FROM PROP TO NEAREST WELL, D OR APPLIED FOR, ON T	RILLING, COMPLETED	1138	19. PROPOSED D 50		20. ROTAR	Y OR CABLE TOOLS Rotary		
21. ELEVATIONS (Show	whether DF, RT, GR, etc.) 3579 GR					22. APPROX. DATE WORK 12/01/		
23.		PROPOSED CASI	NG AND CEMEN	TING PRO	GRAM			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER F	OOT SET	TING DEPTH	1	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 Preventer 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

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.

igned MAR Brill	<u>Nex</u>	TITLE	Engineer	D/	ate 11/13/97
This space for Federal or State of	fice use)	····			
ERMIT NO.		APPROVAL DA	TE		
EKAIIT NO.	· · · · · ·				
pplication approval does not warrant or cer	tify that the applicant hold			h would entitle tl	he applicant to conduct operati
pplication approval does not warrant or cer ONDITIONS OF APPROVAL, IF ANY:	tify that the applicant hold		ts in the subject lease whic	h would entitle ti	he applicant to conduct operati

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.

Past FD-1 3-20-98 HPILLOC

5.

ROSWELL OFFICE SUREAU OF LAND HAND

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DISTRICT I			- ***		State	of Ne	w Mexico			
P.O. Box 1980, Hobbs	a, NM 88241-1	980		Energy.			Resources Departs	r ⊨ 8 1997		rm C-102
DISTRICT II				.				Submit	to Appropriate Dis	ry 10, 1994 trict Office
P.O. Drawer DD, Arte	ania, NM 88211	-0719						Submit		
DISTRICT III 1000 Rio Brazos I	Rd., Arton, N	DV 87410	OIL	CON		VATI Box 2	ON DIVIS	SION	Fee Loase	- S Copies
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DISTRICT IV					.,				AMENDEI	REPORT
P.O. Box 2085, Sant	ta Fe, NM 871	504-2088								
			WELL LO	JCATION	AND	ACRE	AGE DEDICATI	ON PLAT		
API	Number			Pool Code			· · · · · · · · · · · · · · · · · · ·	Pool Name		
							Empire Yeso			
Property	Code				-	erty Nan			Well Nun	aber
21134				-	PINON	FEDE	RAL		2	
OGRID N	0.				-	ator Nam			Elevatio	
013837				MACK	ENERG	SY CO	RPORATION		3579	
					Surfa	ce Loc	ation			
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Attachment to Exhibit #1 NOTES REGARDING THE BLOWOUT PREVENTERS Pinon 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 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 REQL	JIREMENT	S				
	1		5,000 MWP			10,000 MWP				
Na.		1.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING	1.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 C Plug C(2)	3-1/8*		3,000	3-1/8*		5,000	3-1/8*		10,000
4	Valve Gale G Plug (2)	1-13/18"		3,000	1-13/16*		5,000	1-13/16*		10,000
4a	Valves(1)	2-1/18*		3,000	2.1/18"		5,000	3-1/8"		10,000
5	Pressure Gauge			3,000			5,000			10,000
8	Valves Gale C Plug (2)	3-1/8*		3,000	3-1/8*		5,000	J-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
0	Line		3*	3,000		3*	5,000		3.	10,000
10	Line		2"	3,000		2"	5,000		3.	10,000
11	Gale [] Valves Plug [](2)	3-1/8*		3,000	3-1/8"		5,000	3-1/8*		10,000
12	Unes		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 buil plugged tess.

MINIMUM BLOWOUT PREVENTER REQUIREMENTS

2,000 psi Working Pressure

2 MWP

MACK ENERGY CORPORATION EXHIBIT #1-A

	STACK REQUIREMENTS					
No.	ltern		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	ydraulically				
6a	Drilling spool with 2" min 3" min choke line outlets			2"Choks		
6b	2" min. kill line and 3" mi outlets in ram. (Alternate					
7	Valve	Gate 🗆 Plug 🗅	3-1/8*			
8	Gate valve-power opera	led	3-1/8"			
9	Line to choke manifold			3*		
10	Valves	Gale 🖸 Piug 🖸	2-1/16*			
11	Check valve		2.1/16*			
12	Casing head					
13	Valve	Gale 🗆 Plug 🗆	1-13/16"			
14	Pressure gauge with need	lle valve				
15	Kill line to rig mud pump n	nanifold		2*		

STACK REQUIREMENTS



	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 pst, 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 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, 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 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.
- 5. All valves to be equipped with handwheels or handles ready for immediate
- 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.



MACK ENERGY CORPORATION EXHIBIT #1-A