F. mm 3160-3			N. M.	SUBMIT IN T	R GATE	Form approved.	N
(December 1990)		ED STATE	S ART	OII Other Instru TESIA, NA reverse	u ion sicul	Budget Bureau Expires: Decem	
	DEPARTMEN)R		5. LEASE DESIGNATION	AND SERIAL NO.
	• • • • • • • • • • • • • • • • • • • •	F LAND MANA				NM-148	
APPL a. TYPE OF WORK	ICATION FOR P	ERMIT TO	DRILL (OR DEEPEN		6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
		DEEPEN				7. UNIT AGREEMENT NA	ME
b. TYPE OF WELL						22.	546
OIL WELL A	Gas Well OTHER		SINGL ZONE	E MULTI	PLE	8. FARM OR LEASE NAME, WEL	
Mack Energy Cor	poration	17	0 2 7	,		White Star Fe	deral #5
ADDRESS AND TELEPHONE N			837			9. API WELL NO. 30-015-30	351
P.O. Box 960, Art	esia, NM 88211-0960	(505) 7	48-1288			10. FIELD AND POOL, OR	WILDCAT
4. LOCATION OF WEI At surface	LL (Report location clearly	and in accordance	with any sta	t« requirement.*)		East Empire	Yeso 966
	C	1650 FNL 2220	0 FEL	:		11. SEC . T., R., M., OR B AND SURVEY OR ARI	LK. EA
At proposed prod. ze	INIT V	1650 FNL 2220	0 FEL			Sec 29 T17S	R29E
4. DISTANCE IN MILES A	AND DIRECTION FROM NEAF					12. COUNTY OR PARISH	13. STATE
5 DISTANCE FROM PRO		s West of Loco l	· · · · · · · · · · · · · · · · · · ·		·	Eddy	NM
PROPERTY OR LEASE (Also to nearest di	ST E LINE, FT. rlg. unit line, if any)	420	16. NO. OF A	CRES IN LEASE 280		FACRES IN LEASE IS WELL 4	0
OR APPLIED FOR, ON T	RILLING, COMPLETED HIS LEASE, FT.	660	19. PROPOS	SED DEPTH 5800	20. ROTAR	Y OR CABLE TOOLS Rotary	
1. ELEVATIONS (Show	whether DF, RROSWE	LL CONTRO	LLED W	ATER BASIN	↓	22. APPROX. DATE WORK V 8/01/9	
3.		PROPOSED CASI	ING AND CE	MENTING PROGRA	м		0
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FO	тоот	SETTING DEPTH	1	CANTITY OF CEMENT	 Г
17 1/2	K-55,13 3/8	48		300 , 0		Circ	
<u>12 1/4</u> 7 7/8	K-55, 8 5/8	24		800		Circ	
1 170	J-55, 5 1/2	17		5800		Suff to Circ	
productive, 5 1/2" o	rgy proposes to drill to casing will be cemented tion. Specific program	d. If non-produ	ictive, the v ore Oil and	well will be plugg Gas Order #1 ar	ed and ab	andoned in a manor	consistent
Drilling Program				EMENTS AND			
Surface Use & Op	erating Plan	SPECIAL ST ATTACHED	TIPULATI	IONS iibit #4 - One- Mi	ile Radius	Map Post	FD-1 1-98 4 Loc
Exhibit #1 & 1A -	Blowout Preventer Ec	quipment	Exh	nibit #5 - Product	ion Facilit	ies Layout APT	i Loc
Exhibit #2 - Locat	ion and Elevation Plat	t	Exh	nibit #6 - Locatior	ı Layout	1114	,
Exhibit #3 - Plann	ed Access Road		Exh	nibit #7 - H2S Dri	lling Oper	ations Plan	
ABOVE SPACE DESCRI epen directionally, give pert	BE PROPOSED PROGRAM: In inent data on subsurface location	f proposal is to deeper is and measured and tr	n, give data on rue vertical dep	present productive zone ths. Give blowout prever	e and proposed iter program, i	l new productive zone. If pro f any,	posal is to drill or
SIGNED Matt	J. Breur	TITLI	E	Geological Eng	ineer	DATE5/	13/98
	eral or State office use)						
(This space for Fede							
-			APPRO)VAL DATE			
PERMIT NO	not warrant or certify that the app		quitable title to t				

*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.

DIŚ	STR	ICT	I		
P.O.	Box	1980,	Hobbe,	NM	88241-1980

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

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

DISTRICT IV

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

State of New Mexico

Energy, Minerals and Natural Resources Departme

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease 4 Fee Lease - 3 Copies N 1 1 1 1003

OIL CONSERVATION DIVISION P.0. Box 2088 Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool	Name
	96610	East Empire Yeso	
Property Code		Well Number	
022546	WHITE	5	
OGRID No.		Operator Name	Elevation
013837	3598		

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	29	17 S	29 E		1650	NORTH	2220	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
		<u> </u>		L					
Dedicated Acres	Joint o	r Infill Co	nsolidation (Code Or	der No.				
				1					

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

1920.	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
3599.5'3598.6'	Matt J. Browen
3596.4' 3595.2'	Printed Name <u>Geological Engineer</u> Title
	5//3/98 Date SURVEYOR CERTIFICATION
	I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct t: the best of my belief.
	APRIL 27, 1998 Date Surveyed DMCC Signature & Sear of Professional Surveyor
	Consticate No. RONALOS ELIDSON 3239
	OFESSING McDONALD 12185

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 REGL	IREMENT	S				
	1		3,000 MWP	P 5,000 MWP			10,000 MWF	2		
Na.		I.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 D Plug D(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	1-13/16*		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	Valves Gale C Plug (2)	3-1/8*		3,000	3-1/6*		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
9	Line		3*	3,000		3*	5,000		3*	10,000
10	Line		2*	3,000		2*	5,000		3.	10,000
11	Gate D Valves Plug D(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	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, 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 standploe 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 standploe 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 tees.

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	FIII up line			2*
3	Drilling nipple			
4	Annular preventer			
5	Two single or one dual hypoperated rams	draulically		
6a	Drilling spool with 2" min. 3" min choke line outlets	kill line and		2"Choks
6b	2" min. kill line and 3" mlr outlets in ram. (Alternate t			
7	Valve	Gate 🗆 Plug 🗆	3-1/8*	
8	Gate valve-power operat	ed	3-1/8*	
9	Line to choke manifold			3"
10	Valves	Gate 🖸 Plug 🔂	2-1/16"	
11	Check valve		2.1/16*	
12	Casing head			
13	Valve	Gate D Plug D	1-13/18"	
14	Pressure gauge with need	le valve		
15	Kill line to rig mud pump m			2*



		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 psl, 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, 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 cho"s. 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 U\$8,
- 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