Form approved.

UNITED STATES. ATTEMA (Other Ins. crom DEPARTMENT OF THE INTERIOR

5. LEASE DESIGNATION AND SERIAL

		NM-14840					
APPL	ICATION FOR	PERMIT TO DRI	LL OR DEEPEN		6. IF INDIAN, ALLOTTEI	OR TRIBE NAME	
Ia. TYPE OF WORK b. TYPE OF WELL	ILL 🛛	DEEPEN			7. UNIT AGREEMENT N	AME	
OIL 🔯	Gas Well OTHER		SINGLE MULTII ZONE	PLE	3. FARM OR LEASE NAME, WE		
Mack Energy Cor	poration	1383	7 7	<u> </u>	White Star F	ederal #4	
3. ADDRESS AND TELEPHONE N	0.				30-015-30	220/	
P.O. Box 960, Art	esia, NM 88211-0960	(505) 748-12	288		0. FIELD AND POOL, O	R WILDCAT	
4. LOCATION OF WEI	L (Report location clear)	y and in accordance with a			East Empir	e Yeso 9661	
At proposed prod. zo		2230 FNL 1650 FE	1₹	1	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
		2230 FNL 1650 FE	CMIE (A		Sec 29 T17		
	6.25 mil	AREST TOWN OR POST OFF es West of Loco Hills	ICE*		12. COUNTY OR PARIS Eddy	H 13. STATE NM	
15. DISTANCE FROM PROF LOCATION TO NEARES PROPERTY OR LEASE (Also to nearest dr	oT LINE, FT. lg. unit line. if any)	17. NO OF A	ACRES IN LEASE WELL	40			
OR APPLIED FOR, ON THIS LEASE, FT. 660 5800					OR CABLE TOOLS Rotary		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3588 GRROSWELL CONTROLLED WATER BASIN					22. APPROX. DATE WORK 7/30/		
23.		PROPOSED CASING A	ND CEMENTING PROGRA	м			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	4.	QUANTITY OF CEME		
17 1/2	K-55,13 3/8	48	300	7)	in Circ	11	
12 1/4	K-55, 8 5/8	24	800		Circ Circ		
7 7/8	J-55, 5 1/2	17	5800		Suff to Circ		
with federal regulat	ion. Specific prog kt Gl	PROVAL SUBJECT ENERAL REQUIRE PECIAL STIPULAT	the well will be plugg Land Gas Order #1 ar EMENTS ANI	e outlined in	n the following at	tachments: t ID-1 26-98	
Surface Use & Op	erating Plan AT	TACHED	I UNS Exhibit #4 - One- Mi	ile Radius M		26-78 E. J. hac	
Exhibit #1 & 1A -	Blowout Preventer I	Equipment	Exhibit #5 - Product			7 700	
Exhibit #2 - Locat	ion and Elevation Pl	at	Exhibit #6 - Location	1 Layout			
Exhibit #3 - Plann	ed Access Road		Exhibit #7 - H2S Dri	lling Opera	tions Plan		
N ABOVE SPACE DESCRIP eepen directionally, give perti	BE PROPOSED PROGRAM: nent data on subsurface locati	If proposal is to deepen, give ons and measured and true ver	data on present productive zone tical depths. Give blowout preven	e and proposed n iter program, if a	iew productive zone. If p iny.	roposal is to drill or	
1. SIGNED - Matt	1. Brewer	TITLE	Geological Eng	ineer	DATE5	/13/98	
(This space for Fede	ral or State office use)			= = - .			
PEDMIT N/)			ABBROWAL DATE				
PERMIT NO	not warrant or certify that the a	pplicant holds legal or equitable	APPROVAL DATE title to those rights in the subject		l entitle the applicant to co		
	i. SGD.) ARMANDO A.	LOPEZ Octin	fludiæDg Nednam	W bles	DATE COM	198	
		*See Instruction	ns On Reverse Side	WWW.	5 7.16		
itle 18 U.S.C. Section	1001, makes it a crim	e for any person know	ingly and willfully to m	ake to any d	epartment or agen	cy of the	

State of New Mexic

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

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 OIL CONSERVATION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088 □ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name		
	96610	East Empire Yeso		
Property Code	Pro	operty Name	Well Number	
022546	WHITESTA	4		
OGRID No.		erator Name	Elevation	
013837	MACK ENERG	Y CORPORATION	3588	

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		2230	NORTH	1650	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
Dedicated Acres	Joint o	r Infill Co	nsolidation (Code Ore	der No.			<u> </u>	

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

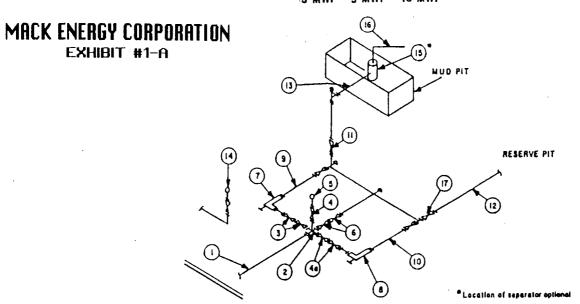
	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
3591.7' 3588.4'	Matt J. Brewer Printed Name Geological Engineer Title 5//3/98
3587.5' 3587.2'	SURVEYOR CERTIFICATION I hereby certify that the well location shown 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 to the best of my belief.
	APRIL 27, 1998 Date Surveyed DMCC Signature Seal Brill Prograssional Surveyor DMCC Signature Seal Brill Prograssional Surveyor Prograssional Surveyor DMCC Signature Seal Brill Prograssional Surveyor Prograssional Surveyor DMCC Signature Seal Brill Programmed Seal Brill Programmed Seal Brill DMCC Signature Seal Brill D
	Correction No. RONALO FIDSON 3239 CART DOWN 1264 MARCH FEDONALD 12185

Attachment to Exhibit #1 NOTES REGARDING THE BLOWOUT PREVENTERS White Star 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.

Blowout Preventers Page 1

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



BEYOND SUBSTRUCTURE

			MINII	MUM REQL	JIREMENT	S				
		T	3,000 MWP			5,000 MWP			10,000 MWF	
No.		I.D.	NOMINAL	RATING	I.D.	NOMINAL	DNITAR	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 □ Plug □(2)	1-13/16*		3,000	1-13/18*		5,000	1-13/16*		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 Gate C Plug □(2)	3-1/6*		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
8	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	3-1/6*		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		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

- (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 68 or 68X and ring gaskets shall be API RX or 8X. 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

MINIMUM BLOWOUT PREVENTER REQUIREMENTS

2,000 psi Working Pressure

2 MWP

MACK ENERGY CORPORATION EXHIBIT #1-A

CONFIGURATION A

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 to operated rams	nydraulically		
6a	Drilling spool with 2" mi 3" min choke line outlet			2"Choks
6b	2" min. kill line and 3" n outlets in ram. (Alternate	nin. choke line to 6a above.)		
7	Valve	Gale 🗆 Plug 🗅	3-1/8*	
8	Gate valve-power oper	ated	3-1/8"	
9	Line to choke manifold			3*
10	Valves	Gate □ Plug □	2-1/16"	
11	Check valve		2-1/16"	
12	Casing head			
13	Valve	Gale □ Plug □	1-13/16*	
14	Pressure gauge with ne	die valve		
15	Kill line to rig mud pump			2*

		•	•
	(3)	7 /	
	2—-C		
	<u>سکم</u>	<u></u> →	
•	. ANNL	ILAR ENTER	- ••
	کا ا	元	
	BLIND	RAMS	
		<u> </u>	①
	PIPE	IAMS /	/
6			
(15)		<u> </u>	€ خد[
	ORILL	-INOT	
	SPO	1 1.	
. (1)	F	ㅋ º/	(13) (9)
	CABI HE		; @_
	(6) (A)	ING 12	(1)

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.
- Automatic accumulator (80 gallon, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
- BOP 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 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:

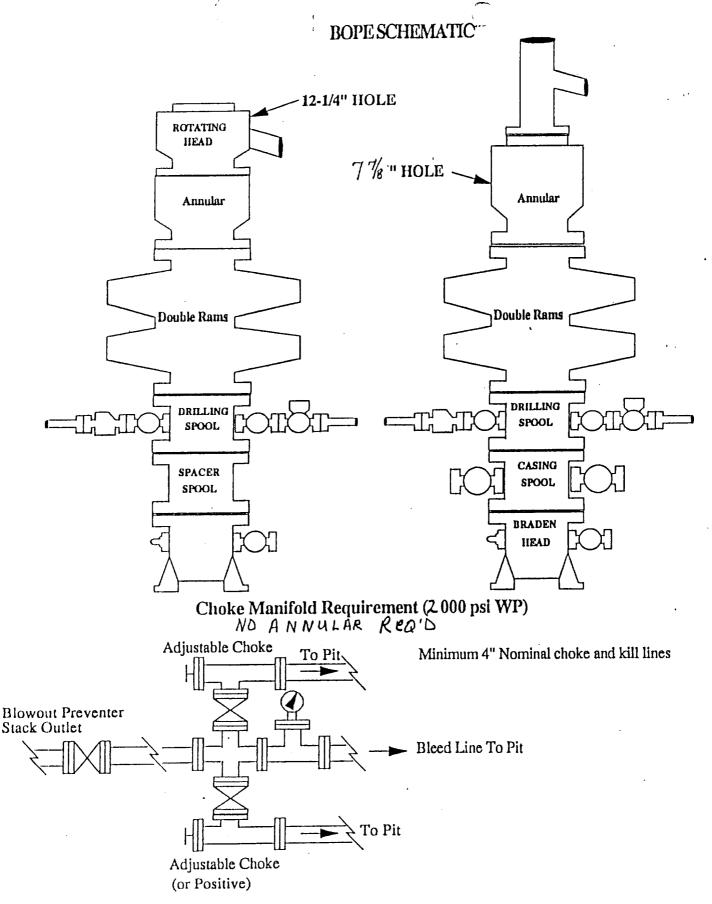
Bradenhead or casinghead and side valves.

 Ween highlight it required.

GENERAL NOTES:

- 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.
- All seamless steel control piping (Z 000 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