ns on

Form approved. Budget Bureau No. 1004-01

DEPARTMENT OF THE INTERIOR

418. Divisionres: December 31, 1991 811 S. 1ST ST. 5. LEASE DESIGNATION AND SERIAL NO.

AU	OF	LAND	MANAGEMENT	A RTESIA, NI	VI 88210	2
						П

	BUREAU OF	LAND MANA	GEMEI	AT MINES	m, INIVI 88210	2834 LC-0552:	59 		
APPLI	CATION FOR P	ERMIT TO	DRIL	L OR DEEPE	N	6. IF INDIAN, ALLOTTEE O	R TRIBE NAME		
1a. TYPE OF WORK DRI	LL 🛛	DEEPEN				7. UNIT AGREEMENT NAY	ME		
b. TYPE OF WELL OIL WELL 2. NAME OF OPERATOR	vell OTHER				ILTIPLE NE	8. FARM OR LEASE NAME, WELL Mohawk Fed	<i></i>		
Mack Energy Corp	oration	138	7 2	7		9. API WELL NO.	CI di II I		
1. ADDRESS AND TELEPHONE NO		130		/		30-015-3	50630		
P.O. Box 960, Arte	sia, NM 88211-0960		748-12			10. FIELD AND POOL, OR Loco Hills Pac	WILDCAT		
4. LOCATION OF WELL At surface	(Report location clearly	and in accordance	with any	state requirement.*)	•				
At proposed prod. zon		990 FSL & 330) FWL			11. SEC., T., R., M., OR BI AND SURVEY OR ARE	A		
		990 FSL & 330) FWL	Onit N	`	Sec 14 T17S	R30E		
14. DISTANCE IN MILES AN	D DIRECTION FROM NEAR	east of Loco Hi		E*	- 	12. COUNTY OR PARISH Eddy	13. STATE NM		
15. DISTANCE FROM PROPO	DSED*			OF ACRES IN LEASE	17. NO O	F ACRES IN LEASE			
PROPERTY OR LEASE I	LINE, FT. g. unit line, if any)	330		40	TOTE	HIS WELL 4	0		
18. DISTANCE FROM PROPO TO NEAREST WELL, DR OR APPLIED FOR, ON TH	ILLING, COMPLETED	660	19. PR	OPOSED DEPTH 5800	20. RO1A.	RY OR CABLE TOOLS Rotary			
21. ELEVATIONS (Show w	thether DF, RT, GR, etc.) GR-3689					22. APPROX. DATE WORK W 5/10/99			
23.		PROPOSED CAS	ING ANI	CEMENTA	ell con	GOLLED WATER	reasing s		
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER F	тоот	SETTING DEPTH		QUANTITY OF CEMENT			
17 1/2	K-55,13 3/8	48		450		Cir le 11 (233			
12 1/4	K-55, 8 5/8	24		1200		Circ			
7 7/8	J-55, 5 1/2	17	17 5800			Suff to Circ			
 Surveys Exhibit #1- Well Exhibit #2- Vicin Exhibit #3- Loca Drilling Program Surface Use & O Exhibit #4- One 	Location Plat nity Map tion Verification Ma					The following attended in the following atte			
T 1914 06 T	Alam Yanana	EXIII	iDIT #1] en, give da true vertic	- CNOKE IVIANITOI ata on present productive al depths. Give blowout	e zone and propos preventer program	ed new productive zone. If pro, if any.	grown as to drill or		
signed Malt	1. Brewer	Trn	.E	Geological	Engineer	DATE 02/2	6/1999		
(This space for Fede	ral or State office use)			APPROVAL DATE		Pasi	t FD-1		
PERMIT NO.						100	-01 l		
Application approval does to CONDITIONS OF APPROVA			Acting			ould entitle the applicant to con-	Tupe operations ther		
/s/	Gary A. Stephen		A L	assistant Field O ands and Miner	ffice Manag	er, APR 12	1999		
APPROVED BY	/ A siepnen	S TITLE				DATE			

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ROSWELL NA

State of New Mexico

Energy, Minerals and Natural Resources Departs.

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 DIVISION

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Numbe	r	Pool Code	Pool Nam	ne
		96718	Loco Hills Pac	ldock
Property Code		Prop	erty Name	Well Number
		MOHAWI	FEDERAL	1
OGRID No.		-	ator Name	Elevation
013837		MACK EN	ERGY CORP.	3689

Surface Location

UL or lot No.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
М	14	17 S	30 E		990	SOUTH	330	WEST	EDDY

Bottom Hole Location If Different From Surface

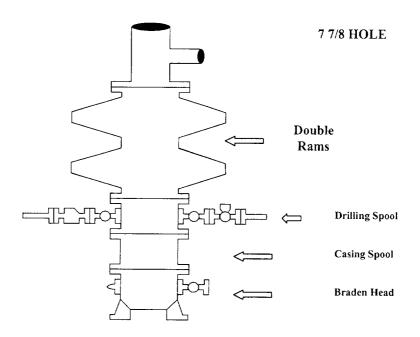
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	:								
Dedicated Acres	Joint of	r Infill Co	nsolidation (Code Ord	der No.				
40									

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

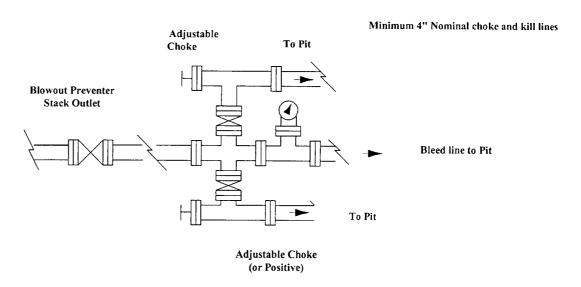
		DARD UNII HAS BEEN APPROVED BY TH	
			OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
			Signature Stewer Matt J. Brewer Printed Name
			Geological Engineer Title 2/24/99 Date SURVEYOR CERTIFICATION
		,	I hereby 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 to the best of my belief.
SEE DETAIL	3688.0' 3694.4' O 3695.2' 3690.7'		FEBRUARY 12, 1999 Date Surveyorthilling DMCC Signature to School Manual Professional Surveyorthilling DMCC MEX. 2/44/99 Copyrigate No. Romin February 3239
<u> </u>	DETAIL		Céptique de No. ROMICS FEIDSON 3239 CARLETESON 12641 PROFESSION 12185

Mack Energy Corporation

Exhibit #9 BOPE Schematic



Choke Manifold Requirement (2000 psi WP) No Annular Required



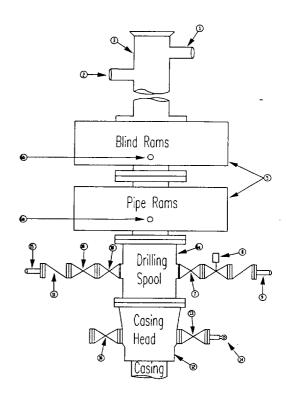
Mack Energy Corporatio

Minimum Blowout Preventer Requirements 2000 psi Working Pressure

2 MWP EXHIBIT #10

Stack Requirements

	Stack Requireme		
NO.	Items	Min.	Min.
		I.D.	Nominal
1	Flowline		2"
2	Fill up line		2"
3	Drilling nipple		
4	Annular preventer		
5	Two single or one dual hydraulically operated rams		
6a	Drilling spool with 2" min. kill line and 3" min choke line outlets		2" Choke
6b	2" min. kill line and 3" min. choke line outlets in ram. (Alternate to 6a above)		
7	Valve Gate Plug	3 1/8	
8	Gate valve-power operated	3 1/8	
9	Line to choke manifold		3"
10	Valve Gate Plug	2 1/16	
11	Check valve	2 1/16	
12	Casing head		
13	Valve Gate Plug	1 13/16	
14	Pressure gauge with needle valve		. ,
15	Kill line to rig mud pump manifold		2"



OPTIONAL

	, , , , , , , , , , , , , , , , , , , ,	
1 16	Florand Value	1 12/16
1 10	Flanged Valve	1 13/10
1		

CONTRACTOR'S OPTION TO FURNISH:

- All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 2000 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 preventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
- 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.
- Type RX ring gaskets in place of Type R.

MEC TO FURNISH:

- 1. Bradenhead or casing head and side valves.
- 2. Wear bushing. If required.

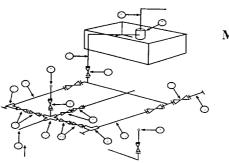
GENERAL NOTES:

- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 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 choke 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
- Chokes will be positioned so as not to hamper or delay changing of choke beans.
 Replaceable parts for adjustable choke, or bean

- sizes, retainers, and choke wrenches to be conveniently located for immediate use.
- All valves to be equipped with hand-wheels or handles ready for immediate use.
- Choke lines must be suitably anchored.
- 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 (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 Corpora

Exhibit #11
MIMIMUM 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



Mud Pit

Reserve Pit

* Location of separator optional

Below Substructure

Mimimum requirements

		3.00	00 MWP	Aimimur				••	000 5 555 5			
No.		I.D.	NOMINAL	Datina	5,000 MWP				10,000 MWP			
1	Line from drilling Spool	1.0.	3"	Rating	I.D.	Nominal	Rating	I.D.	Nominal	Rating		
2	Cross 3" x 3" x 3" x 2"	ļ	3	3,000		3"	5,000		3"	10,000		
2		ļ		3,000			5,000					
	Cross 3" x 3" x 3" x 2"									10,000		
3	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000		
4	Valve Gate Plug	1 13/16		3,000	1 13/16		5,000	1 13/16		10,000		
4a	Valves (1)	2 1/16		3,000	2 1/16	 	5,000	2 1/16		10,000		
5	Pressure Gauge			3,000			5,000	2 1710		10,000		
6	Valve Gate Plug	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		3"	10,000		
10	Line		2"	3,000		2"	5,000		2"	10,000		
11	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000		
12	Line		3"	1,000		3"	1,000		3"	2,000		
13	Line		3"	1,000		3"	1,000		3"	2,000		
14	Remote reading compound Standpipe pressure quage			3,000			5,000			10,000		
15	Gas Separator		2' x5'			2' x5'			2' x5'			
16	Line		4"	1,000		4"	1,000		4"	2000		
17	Valve Gate Plug	3 1/8		3,000	3 1/8	7	5,000	3 1/8	4	2,000 10,000		

- (1) Only one required in Class 3M
- (2) Gate valves only shall be used for Class 10 M
- (3) Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling.

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTION

- 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.
- 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 bee as straight as possible. Lines downstream from chokes shall make turns by large bends or 90 degree bends using bull plugged tees.

Blowout Preventers Page 18

Salado 415 Sa Andres 2965

Pax 1139 Louingra Sand 3060

yerras 1295 Gloriera 4425

Promos 1605

Promos 1935

Green 7223