N. M. Gil CORSELDIGITION Form approved.

ITED STATES AD	0.1-1	revers
ILED STATES VD		
EDARTMENT OF THE INTERIOR	LESIA	, INIVI OC

-2834

	•	
Budget	Bureau No.	1004-013
Expire:	s: December	31, 1991

	DEPARTMENT	OFTHE	NIE	RIUR	,	5. LEASE DESIGNATION	N AND SERIAL NO.
	BUREAU OF	LAND MANA	GEME	T		LC-060	0528
	CATION FOR PE	RMIT TO I	DRIL	L OR DEEPEN		6. IF INDIAN, ALLOTTE	E OR TRIBE NAME
12. TYPE OF WORK DRII b. TYPE OF WELL	LL 🛛	DEEPEN				7. UNIT AGREEMENT	NAME
011. 5 71 G	vell OTHER			NGLE MULTIP	LE	8. FARM OR LEASE NAME, W Melrose Fe	
Mack Energy Corp	oration	1383	7			9. API WELL NO.	
3. ADDRESS AND TELEPHONE NO		1000	 -			30-015-	30649
P.O. Box 960, Arte	sia, NM 88211-0960	(505)	748-12	288		10. FIELD AND POOL,	
	(Report location clearly a	nd in accordance	with any	state requirement.*)			Paddock 967/
At surface	10	550 FNL & 33	0 FWL	_		11. SEC., T., R., M., OR AND SURVEY OR A	REA
At proposed prod. zon		650 FNL & 33	0 FWI	UniTE		Sec 23 T17	'S R30E
14. DISTANCE IN MILES AN	D DIRECTION FROM NEARE	ST TOWN OR POS	T OFFIC	E*		12. COUNTY OR PARIS	
		ast of Loco Hi				Eddy	NM
15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE I (Also to nearest drl)	T LINE, FT.	330	16. NO	OF ACRES IN LEASE	TOTE	F ACRES IN LEASE HS WELL	40
18. DISTANCE FROM PROPO TO NEAREST WELL, DR OR APPLIED FOR, ON TH	OSED LOCATION* ILLING, COMPLETED IS LEASE, FT.	660	19. PR	OPOSED DEPTH 5800	20. ROTA	RY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show w	chether DF, RT, GR, etc.) GR-3668					22. APPROX. DATE WOR 5/01	
23.	1	PROPOSED CASI	ING ANI	CEME AL CAMP ERA	CONTR	OLLED WATE	r Basim
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER F		SETTING DEPTH		QUANTITY OF CEMI	ENT
17 1/2	K-55,13 3/8	48		450		Circ	ATNESS .
12 1/4	K-55, 8 5/8	24		1200		Circ	PostID-
7 7/8	J-55, 5 1/2	17		5800	1	Suff to Circ	<u>5-14-9</u> 9
with federal regulat: 1. Surveys Exhibit #1- Well Exhibit #2- Vicin Exhibit #3- Loca 2. Drilling Program 3. Surface Use & O Exhibit #4- One Exhibit #5- Prod Exhibit #6- Loca	nity Map tion Verification Map ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	5. Hyd Exhi Exhi 6. Blow Exhi ut Exhi	rogen Sibit #7- ibit #8- vout Pr ibit #9 ibit #10 ibit #11	and Gas Order #1 and On Sulfide Drilling Oper H2S Warning Sign H2S Safety Equipm reventers BOPE Schematic Blowout Preventers Choke Manifo	ent PROVAL NERAL ECAL S FACHET	7. Respons	SAND
24. SIGNED Matt	1. Brewer	ттп	LE	Geological Eng	jineer		2/26/1999
	ral or State office use)						
Application approval does	not warrant or certify that the app	licant holds legal or e	equitable t	itle to those rights in the subject	lease which w	ould entitle the applicant to	conduct operations thereon
CONDITIONS OF APPROVA		A	cting	Assistant Field Offic Lands and Minerals	ce Manag	ger. APR 3	0 19 99
APPROVED BY	y A. Stephens	TITLE	E			DATE	

DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980 State of New Mexico

Energy, Minerals and Natural Resources Depa

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

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

DISTRICT IV

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

OIL CONSERVATION DIVISION

P.O. Box 2088

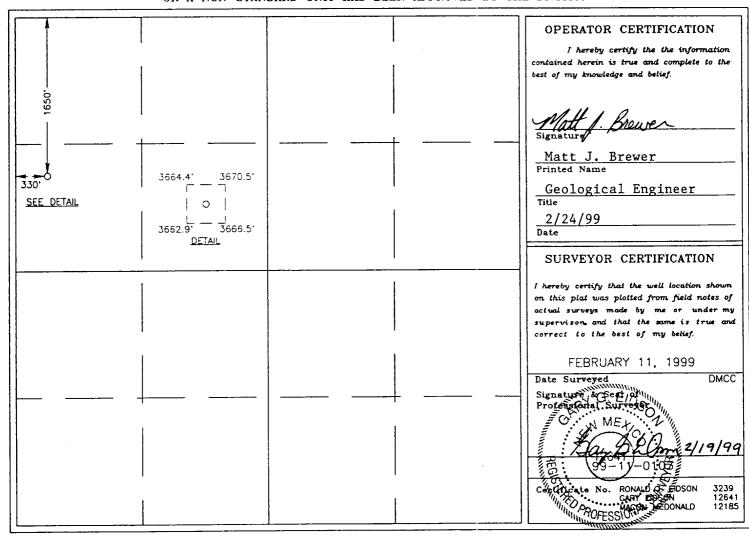
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

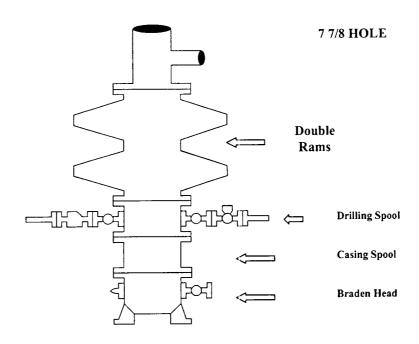
API	Number	-		Pool Code			Pool Name			
			96	5718		Loco l	Hills Paddoc	:k		
Property	Code		-		Property Nan			Weil Num	ber	
					IELROSE FEE	DERAL		2		
OGRID N	o.				Operator Nam		-	Elevatio		
013837				MACK ENERGY CORP.				3668	3668	
					Surface Loc	ation				
UL or lot No.	Section	Township	Kange	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Ε	23	17 S	30 E		1650	NORTH	330	WEST	EDDY	
		··· · ····	Bottom	Hole Lo	cation If Diffe	erent From Sur	face	•		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Dedicated Acre	s Joint	or Infill Co	nsolidation	Code Or	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

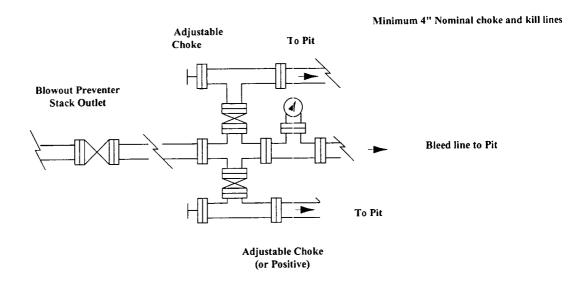


Mack Energy Corporation

Exhibit #9 BOPE Schematic



Choke Manifold Requirement (2000 psi WP) No Annular Required



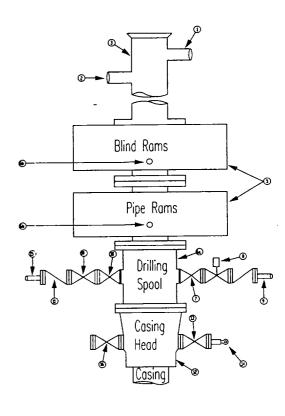
Mack Energy Corporation—

Minimum Blowout Preventer Requirements

2000 psi Working Pressure 2 MWP EXHIBIT #10

Stack Requirements

	Stack Requireme	1110	
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

16 Flanged Valve		16	Flanged Valve	1 13/16	
	16 Hanged Valve	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 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.
- 3. 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.
- 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.
- Type RX ring gaskets in place of Type R.

MEC TO FURNISH:

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

GENERAL NOTES:

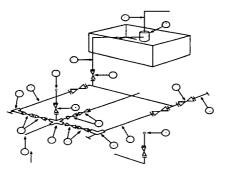
- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure 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
- 4. 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.
- 6. Choke lines must be suitably anchored.
- 7. Handwheels and extensions to be connected and ready for
- 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

	3,000 MWP		5,0	000 MWP		10,	000 MWP			
No.		I.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" x 3" x 3" x 2"			3,000			5,000			
2	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	<u> </u>	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			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"	2,000
17	Valve Gate Plug	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 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.
- 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 bee as straight as possible. Lines downstream from chokes shall make turns by large bends or 90 degree bends using bull plugged tees.