Form approved.

Budget Bureau No. 1004-013 Expires: December 31, 1991

UNITE	D S	TATE	ES	JAN 1
DEPARTMENT	OF	THE	INT	ERIOR

	DEPARIMENT	OF THE II	NIER	N252627	20 [5. LEASE DESIGNATION AN	D SERIAL NO.
	BUREAU OF	LAND MANA	GEMEN'	1 2324 252627	.050 ³	LC-06240	7
APPLI	CATION FOR PE	RMIT TO D	RILL	OR DEEPEN	3	6. IF INDIAN, ALLOTTEE O	R TRIBE NAME
1a. TYPE OF WORK DRIL b. TYPE OF WELL	L 🛛	DEEPEN [OCD RECEIVED		7. UNIT AGREEMENT NAM	A11000
	as OTHER		SIN	GARANTE ZOMES		8. FARM OR LEASE NAME, WELL	•
2. NAME OF OPERATOR	veir Unex			0	<u>, %/</u>	Cheyenne Fede	eral #3
Mack Energy Corp	oration			Sip	.681/	9. API WELL NO.	
3. ADDRESS AND TELEPHONE NO.				1112137		30-015-30	711
P.O. Box 960, Artes	sia, NM 88211-0960	(505) 74	48-1288			10. FIELD AND POOL, OR	
	(Report location clearly a	nd in accordance	with any	SUBJECT: TO			so 96210
At surface		30 FSL & 155		LIKE APPRO	VAL	11. SEC., T., R., M., OR BL AND SURVEY OR ARE.	K. A
At proposed prod. zon	e. 17 0	30 FSL & 155	0 FEL	BY STATE		Sec 30 T17S	
14. DISTANCE IN MILES AN	D DIRECTION FROM NEAR	ST TOWN OR POS	T OFFICE	*		12. COUNTY OR PARISH	
		t of Loco Hills				Eddy	NM
15. DISTANCE FROM PROPO LOCATION TO NEAREST			16. NO. 0	OF ACRES IN LEASE	17. NO O	F ACRES IN LEASE	•
PROPERTY OR LEASE I	LINE, FT.	330		80	1011	40	0
18. DISTANCE FROM PROPO TO NEAREST WELL, DR	OSED LOCATION* RILLING, COMPLETED	660	19. PRO	POSED DEPTH 5800	20. ROTAL	RY OR CABLE TOOLS Rotary	
OR APPLIED FOR, ON TH			l			22. APPROX. DATE WORK W	'ILL START*
	GR-3629					6/20/199	
23.		PROPOSED CASI	ING AND	CEME ROSULL	CONTR	WALES	3.301
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER F	- 1	SETTING DEPTH		QUANTITY OF CEMENT	A CONTROL OF THE PARTY OF THE P
17 1/2	K-55,13 3/8	48		325		Circ	THI MESS
12 1/4	K-55, 8 5/8	24		800		Circ	
7 7/8	J-55, 5 1/2	17		5800		Suff to Circ	
	gy proposes to drill to asing will be cemented						
•							
_	ion. Specific program	s as per Onsho	ore Oil a	ind Gas Order #1 a	re outlined	in the following atta	chinents:
1. Surveys	v	4. <u>Cert</u>	ification	<u>n</u>		7. Responsibi	lity Statement
Exhibit #1- Well						P	st IP-1
Exhibit #2- Vicin	nty Map ition Verification Map			ulfide Drilling Ope		~_ · ·	-6-99
Exhibit #5- Loca	ition vermeation map			H2S Warning Sign	N	SL A	05/15
2. Drilling Program	n	Exn	idit #8-	H2S Safety Equipm		VAL SUBJECT TO	the reco
z. Dining Hogian		6 Plan	vont De	eventers	CENTO	al mediumenteri	TO ALIM
3. Surface Use & C	perating Plan			ROPE Schematic	UENER	AL REQUIREMEN	IISANU
	Mile Radius Map	Exh	ibit #10	- Blowout Preventer	ALECIA	STIPULATIONS	;
	luction Facilities Layo			- Choke Manifold	ATTACH	IFD	
Exhibit #6- Loca		ZXII				7 Bening № E	
	BE PROPOSED PROGRAM:	f proposal is to deep	en, give da	ta on present productive zo	ne and propos	sed new productive zone. If pr	oposal is to drill or

deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any. 24. 03/11/1999 Geological Engineer APPROVAL DATE Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL, IF ANY: Acting Assistant Field Office Manager, JUL 27 1999 Lands and Minerals

*See Instructions On Reverse Side

" Seganno ish.

CHILL SO WHILL SO WHI

DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico

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 IV

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

P.O. BOX 2068, 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 Number	Pool Code 96210	Pool Nan Empire Yeso	ne
Property Code	Prop CHEYEN	Well Number	
OGRID No. 013837	-	ator Name Y CORPORATION	Elevation 3629'

Surface Location

ĺ	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	0	30	17 S	29 E		330	SOUTH	1550	EAST	EDDY

Bottom Hole Location If Different From Surface

			2000						
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 o	r Infill Co	nsolidation (Code Or	der No.				

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

			OPERATO
			I hereby
	107 1		best of my know
	LOT 1 27.71 AC.		oest of mry know.
			1114
			Signature
			Matt J. Printed Name
			ł
	107.0	'	Geologic Title
	LOT 2 27.94 AC.		2/25/99
			Date
			SURVEYO
			I hereby certify
			on this plat we
			actual surveys
	LOT 3 28.17 AC.		supervisor, and correct to the
			ОСТО
			Date Surveye
		 	Signature & Professional
			0.7
			Man 13/1
	LOT 4 28.40 AC.		1 2 1
		1550	Certificate N
		2550'	1 16.7655 ***
		0 8	"Human
L		the second secon	100.2

R CERTIFICATION

y certify the the information n is true and complete to the vledge and belief.

Brewer

cal Engineer

OR CERTIFICATION

y that the well location shown ias plotted from field notes of made by me or under my nd that the same is true and he best of my belief.

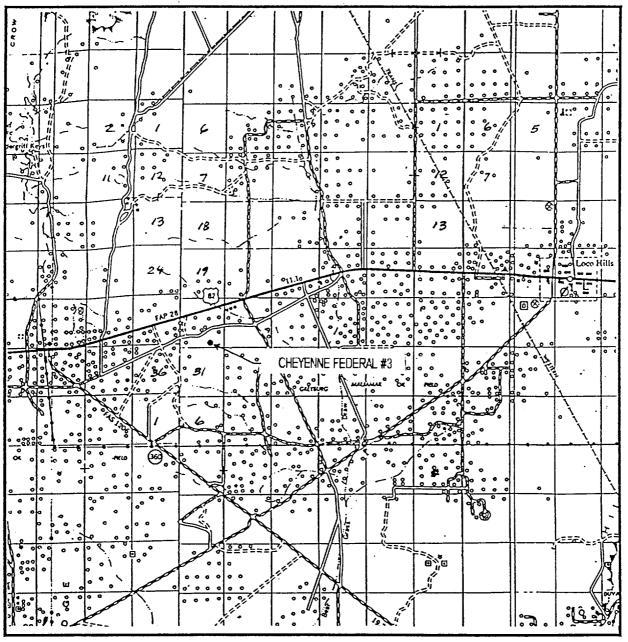
OBER 1, 1998

OBL. RAMINION OF THE STREET MENO

CARY EDSON

3239 12641

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 30 T	WP. <u>17-S</u> RGE. <u>29-E</u>
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTION	330' FSL & 1550' FEL
ELEVATION	3629'
OPERATOR	MACK ENERGY CORPORATION
LEASE	CHEYENNE FEDERAL

JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117

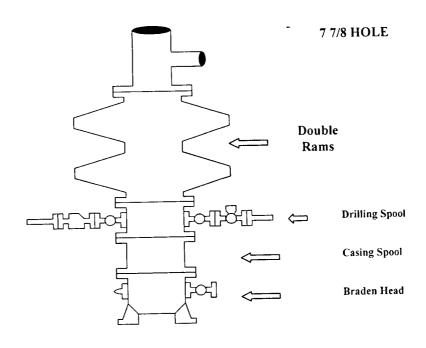
Attachment to Exhibit #9 NOTES REGARDING THE BLOWOUT PREVENTERS Cheyenne Federal #3 Eddy County, New Mexico

- 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.
- 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.

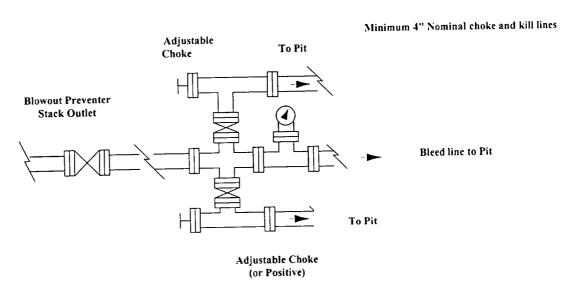
Blowout Preventers Page 15

Mack Energy Corporation

Exhibit #9 BOPE Schematic



Choke Manifold Requirement (2000 psi WP) No Annular Required



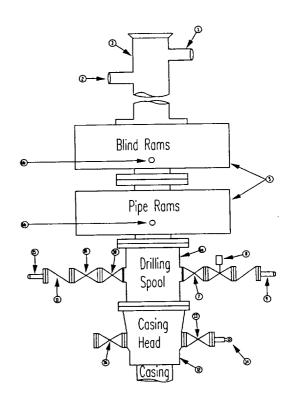
Mack Energy Corporation

Minimum Blowout Preventer Requirements

2000 psi Working Pressure 2 MWP EXHIBIT #10

Stack Requirements

	Stack Requiremen	1140	
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	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.
- BOP controls, to be located near drillers' position.
- 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.
- 9. Type RX ring gaskets in place of Type R.

MEC TO FURNISH:

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

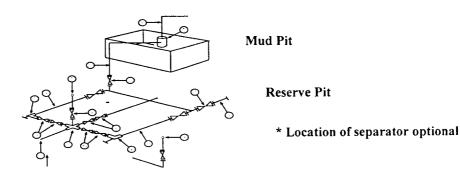
GENERAL NOTES:

- 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 Corporation

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



Below Substructure

Mimimum requirements

			IV.	ıımımun	i require	ments					
		3,0	00 MWP		5,000 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		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	1	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.
- 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.

Blowout Preventers Page 18