N. M. Oil Cons. Division

81 SEBMET IN

Form 3160-3 (December 1990)

ARTESIA (Other Inst ans on reverse and)

DEPARTMENT OF THE INTERIOR

WITED STATES

: *	Form approved.
	Budget Bureau No. 1004-013
	Expires: December 31, 199
5.	LEASE DESIGNATION AND SERIAL NO.

	BUREAU OF	LAND MANA	GEME	NT		LC-028480-A		
APPLIC	CATION FOR PE	ERMIT TO	DRIL	L OR DEEPEN		6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
1a. TYPE OF WORK DRIL b. TYPE OF WELL	L 🛛	DEEPEN				7. UNIT AGREEMENT NAME		
OIL Ga WELL W 2. NAME OF OPERATOR	S OTHER			INGLE MULTI ONE ZONE	IPLE	8. FARM OR LEASE NAME, WELL NO. 22364		
Mack Energy Corpo	ration	138	27			Western Federal #4 9. API WELL NO.		
3. ADDRESS AND TELEPHONE NO						30.015-30311		
P.O. Box 960, Artesi	ia, NM 88211-0960	(505) 7	48-128	8		10. FIELD AND POOL, OR WILDCAT		
4. LOCATION OF WELL At surface	(Report location clearly a	nd in accordance	with any	state requirement.*)	:	East Empire Yeso 96610		
		2190 FNL 330	FEL	-\$		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. zone		2190 FNL 330	FEL	Unit H		Sec 30 T17S R29E		
14. DISTANCE IN MILES AND				E*		12. COUNTY OR PARISH 13. STATE		
	7.0 miles	West of Loco	Hills			Eddy NM		
15. DISTANCE FROM PROPOS LOCATION TO NEAREST PROPERTY OR LEASE LI (Also to nearest drlg.	NE, FT. unit line, if any)	330		OF ACRES IN LEASE		OF ACRES IN LEASE HIS WELL 40		
18. DISTANCE FROM PROPOS TO NEAREST WELL, DRII OR APPLIED FOR, ON THIS	LLING, COMPLETED	660	19. PR	OPOSED DEPTH 5800	20. ROTA	RY OR CABLE TOOLS Rotary		
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)		I			22. APPROX. DATE WORK WILL START*		
3	619 GR ROSW	ELL CONT	ROLL	ED WATER BA	HM	11/30/98		
23.		PROPOSED CAS	ING ANI	CEMENTING PROGRA	M			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER I	гоот	SETTING DEPTH	far.	QUANTITY OF CEMENT		
17 1/2	K-55,13 3/8	48		300	7/	AVRO. Circ		
12 1/4	K-55, 8 5/8	24		750		Circ		
7 7/8	J-55, 5 1/2	17		5800		Suff to Circ		
Drilling Program Surface Use & Open	on. Specific programs	s as per Onsho APPRO GENEF SPECIA ATTAC	Pre Oil DVAL S RAL RI AL STI HED		re outlined AND Iile Radiu	171 + 1		
	n and Elevation Plat	•				mes Layout		
Exhibit #3 - Planned				Exhibit #6 - Location Exhibit #7 - H2S Di	•	orations Plan		
IN ABOVE SPACE DESCRIBE deepen directionally, give pertine	PROPOSED PROGRAM: If	proposal is to deep s and measured and	en give d	eta on present productive so	ne and masses			
signed Matt	1. Brewer	TIT	LE	Geological En	gineer	DATE5/13/98		
(This space for Federa	l or State office use)				-			
PERMIT NO				APPROVAL DATE				
						ould entitle the applicant to conduct operations ther		
CONDITIONS OF APPROVAL,		Z act	ing (assistant fi	ild Off	ico Managen alete		

State of New Mexic

Energy, Minerals and Natural Resources Depa

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office



Fee Lease - 3 Copies

☐ AMENDED REPORT

Elevation

3619



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

API Number

Property Code

022366 OGRID No.

013837

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

Pool Code
Pool Name

96610

Property Name
Well Number

WESTERN FEDERAL

Surface Location

Operator Name

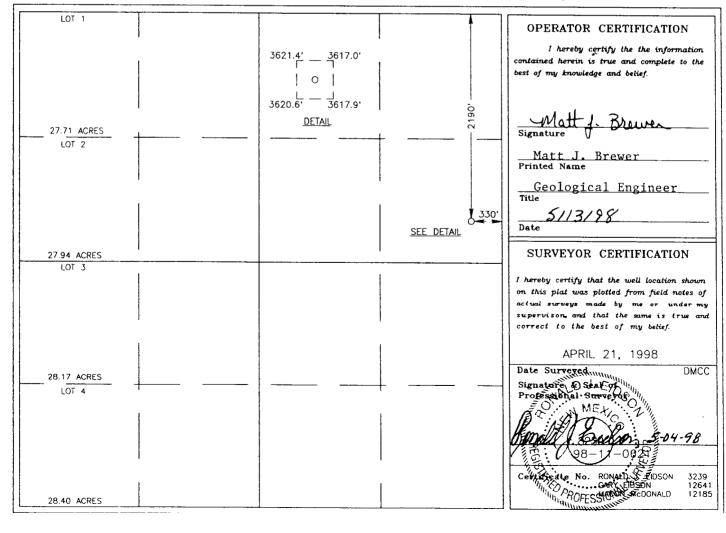
MACK ENERGY CORPORATION

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	3C	17 S	29 E		2190	NORTH	330	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>	L		

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

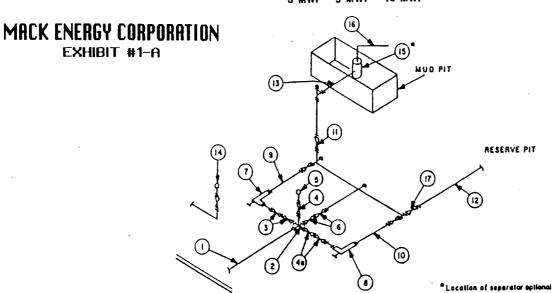


Attachment to Exhibit #1 NOTES REGARDING THE BLOWOUT PREVENTERS Western Federal #4 Eddy County, New Mexico

- 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

			MINI	MUM REQL	JIREMENT!	S				
			3,000 MWP			5,000 MWP			10,000 MWF	·
No.		I.D.	NOMINAL	RATING	I.D.	NOMINAL	DAITAR	I.D.	NOMINAL	PATING
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"								ļ	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	1-13/16*		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
6	Valves Gate C Plug □(2)	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		3*	10,000
11	Valves Gate □ (2)	3-1/8*		3,000	3-1/8"		5,000	3-1/8*		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 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 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 rasily larged ben's or 90° bends using bull phagged these

MINIMUM BLOWOUT PREVENTER REQUIREMENTS

2,000 psi Working Pressure

2 MWP

MACK ENERGY CORPORATION EXHIBIT #1-A

CONFIGURATION A

STACK REQUIREMENTS

Na.	Item		Min. I.D.	Min. Nominal
1	Flowline			
2	Fill up line			2*
3	Drilling nipple			
4	Annular preventer			
5	Two single or one dual h	ydraulically		
6a	Drilling spool with 2" mir 3" min choke line autlets			2"Choks
6b	2" min. kill line and 3" m outlets in ram. (Alternate	in. choke iine to 6a above.)		
7	Valve	Gate □ Plug □	3-1/6"	
8	Gate valve—power opera	ited	3-1/8*	
9	Line to choke manifold			3*
10	Valves	Gate 🗆 Plug 🗀	2-1/18*	
11	Check valve		2-1/16*	
12	Casing head			
13	Valve	Gate [] Plug []	1-13/16*	
14	Pressure gauge with nee	dle valve		
15	Kill line to rig mud pump			2*

3 ANNULAR ANNULAR	•
BLIND RAMS PIPE RAMS	
ORILLING POOL TO IS OF THE POO	

	OPTIONAL		
16 Flanged valve		1-13/18*	

CONTRACTOR'S OPTION TO FURNISH:

- 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.
- Kelly saver-sub equipped with rubber casing protector at all times.
- 7.Plug type blowout preventer tester.
- 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.

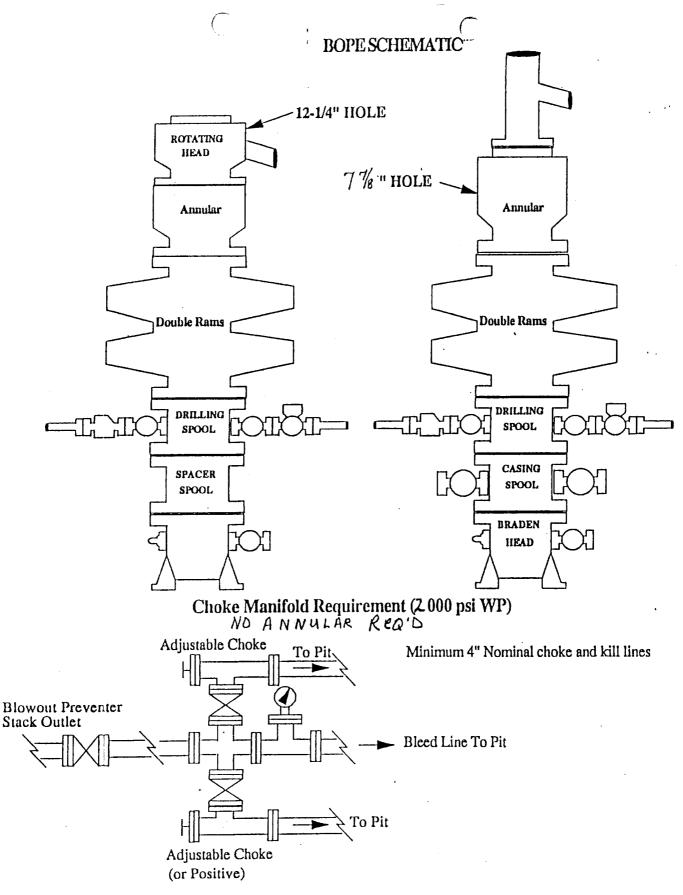
MEC TO FURNISH:

- 1.Bradenhead or casinghead and side
- valves.

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 chores. 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.
- All valves to be equipped with handwheels or handles ready for immediate use.
- 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.
- 9.&il seamless steel control piping (7.000 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

United State Department of the Interior

BUREAU OF LAND MANAGEMENT Roswell Resource Area P.O. Drawer 1857 Roswell, New Mexico 88202-1857

Statement Accepting Responsibility for Operations

Mack Energy Corporation

P.O. Box 960

Operator name: Street or box :

City, State Zip Code,		Artesia, NM 88211-0960				
	ncern				ditions, stipula sed land or port	
Lease No.:		LC-028480-A		Western F	Federal #4	
Legal Descrip	tion of	land:	Sec 30-T17S	S-R29E	SE/4 NE/4	
Formation(s)	(if app	licable):	East Empire	Yeso		
Bond Coverag	ge: (Sta		ally bonded o dually Bonded		's bond)	
BLM Bond Fil	le No.:	58 59 8	88			

Authorized Signature: ___

Title:

Date:

Geological Engineer

5/13/98