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Form 3160-3	P 17 1 C Martin	n an tha an t		SUBMIT IN	· · · ·				
(December 1990)		E* Form approved.							
	UN	ITED STAT	ES	(Other Inst. reverse	side)	Budget Bureau No. 1004 0126			
	DEPARTME	NT OF THE	INTE	ERIOR		Expires: December 31, 1991			
	BUREAU O	F LAND MAN	AGEM	RNT		5. LEASE DESIGNATION	AND SERIAL NO.		
APP		LC-028480-A							
Ia. TYPE OF WORK	LICATION FOR	ERMIT TO	DRI	LL OR DEEPEN		6. IF INDIAN, ALLOTTEE	OR TRIBE NAME		
	RILL 🖾	DEEDEN	— 1	JP 12/15	192				
b. TYPE OF WELL		DEEPEN		/ /	.,	7. UNIT AGREEMENT NA	ME		
	Gas OTHER			SINGLE MILLE		· · · · · · · · · · · · · · · · · · ·			
2. NAME OF OPERATOR	OTHER			ZONE MULTI		8. FARM OR LEASE NAME, WEL	LNO. 32366		
Mack Energy Co	-	1383	-7			Western Fed	eral #1		
3. ADDRESS AND TELEPHONE	NO.		<u> </u>			9. API WELL NO.			
P.O. Box 960, Ar	tesia, NM 88211-0960		740 14	0 0		31-015-30	032		
4. LOCATION OF WE	LL (Report location clearly	(505)	748-12	88 4		10. FIELD AND POOL, OR			
At surface	Corport location clearly			ny state requirement.*)		Empire Pad	dock		
At proposed prod. z	0ne	1650 FNL 99	0 FEL	lan ananan t		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA			
		1650 FNL 99	A DET	E E E E E E E E E E E E E E E E E E E	-				
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	LEST TOWN OF PO	TOTEL	<u> </u>	tole.	Sec 30 T17S			
	8 mile	s West Loco Hi	SI UFFIC	N N N N N N N N N N N N N N N N N N N		12. COUNTY OR PARISH	13. STATE		
15. DISTANCE FROM PRO LOCATION TO NEARE				· · · · · · · · · · · · · · · · · · ·		Eddy	NM		
PROPERTY OR LEASE	LINE FT	330	10. NC). OF ACRES IN LEASE	17. NO OI	F ACRES IN LEASE			
	rig. unit line, if any) POSED LOCATION*			80	TOTH	IS WELL 4()		
TO NEAREST WELL, D OR APPLIED FOR, ON T	DILLING COMPLEMENT		19. PR	OPOSED DEPTH	20. ROTAR	Y OR CABLE TOOLS			
21. ELEVATIONS (Show	whether DF, RT, GR, etc.)			4500		Rotary			
	3628 GR					22. APPROX. DATE WORK W			
23.						1/1/97			
		PROPOSED CASI	NG ANI	CEMENTING PROGRAM	 1				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FO			- 				
12 1/4	8 5/8, K-55	24		SETTING DEPTH	899982	QUANTITY OF CEMENT			
7 7/8	5 1/2, J-55	17		300	WITA				
		1/		4500		Sufficient to Circ.			
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Mack Energy proposes to drill to a depth sufficient to test the Abo formation for oil. If productive, 5 1/2" casing will be cemented. If non-productive, the well will be plugged and abandoned in a manor consistent with federal regulation. Specific programs as per Onshore Oil and Gas Order #1 are outlined in the following attaching BJECT TO

Drilling Program

Surface Use & Operating Plan

Exhibit #1 & 1A - Blowout Preventer Equipment

Exhibit #2 - Location and Elevation Plat

Exhibit #3 - Planned Access Road

SPECIAL STIPULATIONS TACHED Exhibit #4 - One- Mile Radius Map

GENERAL REQUIREMENTS AND

Exhibit #6 - Location Layout

Exhibit #4 - One- Mile Radius Map Exhibit #5 - Production Facilities Layout Facilities Layout APE + 200 APE + 200

Exhibit #7 - H2S Drilling Operations Plan

APPROVED BY		TITLE	ADM, MINERALS	DATE/-	K-4K
	and the second second	州市行籍 名。	ANS LAGAMERA		
PERMIT NO Application app CONDITIONS OF	roval does not warrant or certify that APPROVAL, IF ANY:	the applicant holds legal or equitable	_APPROVAL DATE	would entitle the applica	nt to conduct operations
	for Federal or State office use	e)	Production Clerk	DATE	12/9/97
SIGNED	(rissa D. Ca	ute TITLE			

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1.

DISTRICT I

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P.O. Box 1980, Hobbs, NM 86241-1980

DISTRICT II P.O. Drewer DD, Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 67410

DISTRICT IV

P.O. Box 2068, Santa Fe, NM 87504-2088

API Number

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

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

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Lot idn Feet from the North/South line Feet from the East/West line County	API Number			Pool Code				Pool Name					
Property Manage Weilt Ring FEDERAL 1 OGRID Ne. Operator Name Weilt Number OUR or lots Surface Location Surface Location Bottom Hole Location Feet from the North/South line Feet from the Peet from the Section Bottom Hole Location If Different From Surface Bottom Hole Location If Different From Surface Disting Samge Lot tan Peet from the Section to Bestive time County Bottom Hole Location If Different From Surface Inter to Infill Consetidation Code Ortage from the Section Tormably Bange Lot tan Peet from tan Section Torma Peet from tan Section Tormably Bange Lot tan Peet from t	Property Code				Empire Paddock								
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Attachment to Exhibit #1 NOTES REGARDING THE BLOWOUT PREVENTERS Western Federal #1 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 W.P. 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 W.P. 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 hand 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.

MINIMUM CHOKE MANIFOLD 3,000, 5,000 and 10,000 PSI Working Pressure 2 M WILL be used of greater 3 MWP · 5 MWP · 10 MWP

MACK ENERGY CORPORATION EXHIBIT #1-A



BEYOND SUBSTRUCTURE

	-		MINI	MUM REOL	JIREMENT	S				
	· · · ·	3,000 MWP	DO MWP		5,000 MWP			10,000 MWP		
No.		I.D.	NOMINAL	RATING	1.D.	NOMINAL	RATING	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 D Plug D(2)	3-1/8*		3,000	3-1/8*		5,000	3-1/8*		10,000
4	Valve Gate C Plug C(2)	1-13/16*		3,000	1-13/16*		5,000	1-13/16*		10,000
48	Valves(1)	2-1/18*		3,000	2.1/16*		5,000	3-1/8*		10,000
5	Pressure Gauge			3,000			5.000			10,000
8	Valves Gale 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 [] Plug [](2)	3-1/8*		3,000	3-1/8*		5,000	3-1/8*		10,000
12	Unes		3-	1,000		3.	1.000		3.	2,000
13	Lines		3.	1,000		3.	1.000		3.	
	Remote reading compound standpipe pressure gauge			3.000		_ <u>_</u> _	5,000	•		2,000
16	Gas Separator	1	2'x5'			2'x5'	·		2'x5'	
6	Line		4*	1,000		4*	1,000		4"	2.000
7	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 turns by large bends or 90* bends using bull plugged tees.

MINIMUM BLOWOUT PREVENTER REQUIREMENTS

2.000 psi Working Pressure

2 MWP

Min, Min No. Nominal Item LD. 1 Flowline 2 Fill up line 2" 3 Drilling nipple 4 Annular preventer Two single or one dual hydraulically 5 operated rams Drilling spool with 2" min, kill line and 6a 2" Cheks 3" min choke line outlets 2" min. kill line and 3" min. choke line 6b oullets in ram. (Alternate to 6a above.) Gate 🛛 Valva 7 3-1/8* Plug 🛛 8 Gate valve-power operated 3-1/8* 9 Line to choke manifold 3" Gale [] 10 Valvas 2-1/18* Plug C 11 Check valve 2-1/18* 12 Casing head Gale O Valve 1-13/18* 13 Plug D Pressure gauge with needle valve 14 15 Kill line to rig mud pump manifold 2"



MACK ENERGY CORPORATION EXHIBIT #1-A

	0	PTIONAL	
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 pst, minimum.
- 2. 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 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 ilmes.
- 9. Type RX ring gaskets in place of Type R.

MEC TO FURNISH:

- 1.Bradenhead or casinghead 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.
- 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.
- 3. 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 spoof to be kept open. Use outside valves except for emergency.
- 9.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.
- Do not use kill line for routine fill-up operations.

STACK REQUIREMENTS



EXHIBIT #1-A