			N. M	l. Oil Cons. 🖸					
Form 3160-3				811 SUBMIT IN T	-	* Form approved.	١		
(December 1990) UN. LD STATES ARTESIA, Mother Instruction Budget Bureau No reverse st. Expires: December									
	DEPARTMEN		•		or.				
		5. LEASE DESIGNATION AND SERIAL NO.							
		LAND MANA	·			6. IF INDIAN, ALLOTTEE			
APPLI TYPE OF WORK	CATION FOR P	ERMITIO		OR DEEPEN			ON TRIBE NAME		
	LL 🛛	DEEPEN				7. UNIT AGREEMENT NAME			
b. TYPE OF WELL	2230								
	vell OTHER			NGLE MULTI NE ZONE		8. FARM OR LEASE NAME, WELL NO.			
Mack Energy Corp	oration	,	38	27		Western Federal #3			
ADDRESS AND TELEPHONE NO.						30-015-3	A3 [ M		
P.O. Box 960, Artes	sia, NM 88211-0960	(505) 7	48-1288	3		10. FIELD AND POOL, O			
LOCATION OF WELL	L (Report location clearly :				<u></u> .	<b>Earb</b> Empir	e Yeso 9621		
At surface		2330 FNL 165				11. SEC., T., R., M., OR AND SURVEY OR A	BLK.		
At proposed prod. zon		1220 ENT 145	A FEI						
	UNIT G	2330 FNL 165			<u></u>	Sec 30 T175			
. DISTANCE IN MILES AN		West of Loco I			F Ente	Eddy	NM		
5. DISTANCE FROM PROPO LOCATION TO NEAREST	DSED*		1	OF ACRES IN LEASE	17. NO C	F ACRES IN LEASE			
PROPERTY OR LEASE I	LINE, FT.	310		80	80 TO TH		HIS WELL 40		
B. DESTANCE FROM PROPO TO NEAREST WELL, DR	DSED LOCATION*		19. PROPOSED DEPTH 20. I			DTARY OR CABLE TOOLS			
OR APPLIED FOR, ON TH	IS LEASE, FT.	660	1	5800		Rotary			
1. ELEVATIONS (Show w	vhether DF, RT. GR. etc.) 3634 GR	WELL CON	TROLI	ED WATER BA	SIN	22. APPROX. DATE WORK 11/20			
3.		PROPOSED CAS	ING AND	CEMENTING PROGRA	м				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER F	тоот	SETTING DEPTH		QUANTITY OF CEME	 NT		
17 1/2	K-55,13 3/8	48				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			
productive, 5 1/2" ca	gy proposes to drill to asing will be cemented ion. Specific program	d. If non-produ	uctive, t	he well will be plug	ged and a	bandoned in a mano	r consistent		
Drilling Program		I	GENE	RAL REQUIREM	ENTS AN	I NSL-	4063		
Surface Use & Ope	erating Plan			HEDit #4 - One- M		s Map 6-7	5-98		
Exhibit #1 & 1A - 1	Blowout Preventer Ed	quipment		Exhibit #5 - Produc	tion Facil	ities Layout	+ TO J		
Exhibit #2 - Locati	on and Elevation Pla	t		Exhibit #6 - Locatio	•	105 7	± FD-1 -31-98		
Exhibit #3 - Planne	ed Access Road			Exhibit #7 - H2S Di	illing Ope	erations Plan H17	- 4 hoc		
epen directionally, give perti	BE PROPOSED PROGRAM: I nent data on subsurface location	f proposal is to deep is and measured and	en, give da true vertica	ta on present productive zo il depths. Give blowout prev	ne and propos enter program	ed new productive zone. If p , if any.	proposal is to drill or		
signed Matt	J. Brewen	TITI	LE	Geological En	gineer	DATE	5/13/98		
(This space for Feder	ral or State office use)		<u> </u>			· · · · · · · · · · · · · · · · · · ·			
PERMIT NO.			Δ	PPROVAL 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	

AF'PROVED BY

Acuug
Acuug

三乐点 公司 计中国制度 化中型		Assistant Field Office Manager,		
	TITLE	Lands and Minerals	DATE	JUL 2 3 1998

# \*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



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# 85-52-9 NST- 4003

DISTRICT I P.O. Box 1960, Hobbs	s, NM 88241-1	980		Energy.	State of Ne Minerals and Natural		DEPER	Revisite Tobres	rm C-102 y 10, 1994
DISTRICT II P.C. Draver DD, Arte	esia, NN 88211	-0719					Submite III	to appropriate pid State Lease	
DISTRICT III 1030 Rio Brazos I	Rd., Aztec, N	M 87410	OIL	CON	SERVATI P.O. Box 2		<b>TON</b>		:
DISTRICT IV P.C. BOX 2088, SANT	A FE, N.M. 87	504-208E		Santa F		co 87504-2088	-HESCE	UMENDED	REPORT
			WELL LO	CATION	AND ACREA	AGE DEDICATI	ON PLAT	بالمار برار والدوميل بعيام معامد مدهده	
API	Number		0.00	· · · · · · · · · · · · · · · · · · ·					
Property	Code		9661	0	eso	Well Number			
022366				WE	STERN FEDE	RAL		3	
OGRID N	o.			MACK E	Operator Name NERGY CORI			Elevation 3634	
					Surface Loc	ation			
UL or lot No. G	Section 30	Township 17 S	Range 29 E	Lot Idn	Feet from the 2330	North/South line NORTH	Feet from the 1650	East/West line EAST	County EDDY
L	L		Bottom	Hole Loo	cation If Diffe	erent From Sur	face	<u> </u>	
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	s Joint o	or Infill Co	nsolidation	Code Or	der No.	<u> </u>			<u> </u>
		OR A 1	SSIGNED NON-STAN	TO THIS	IT HAS BEEN	UNTIL ALL INTER APPROVED BY	RESTS HAVE BI	EEN CONSOLIDA	ATED
LOT 1							I hereb contained herei	DR CERTIFICAT y certify the the in n is true and compl wledge and belief.	formation
27.71 ACF LOT 2	RES					<u> </u>		J. Brenner	
							<u>Matt J</u>	Brewer	
				3			Geolog	ical Enginee 3/98	2r
27.94 ACR	ES I			3(	537.8 <u> </u>		SURVEYO	OR CERTIFICAT	FION
							on this plat w actual surveys supervison, an	y that the well locat as plotted from field made by me or ad that the same is be best of my belie	d notes of under my true and
28.17 ACR LOT 4	ES						AP Date Survey Signature & Protestoned	-1 $-1$ $-1$ $-1$ $-1$ $-1$ $-1$ $-1$	DMCC
28.40 ACR	es						Certificate +	8-17-06.264	12641

# 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	NUM REQL	IREMENT	S				
	I	3,000 MWP			5,000 MWP			10,000 MWP		
No.		1.0.	NOMINAL	RATING	LD.	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"								ļ	10,000
3	Valves(1) Gate C Plug C(2)	3-1/8*		3,000	3-1/8*		6,000	3-1/8*		10,000
4	Valve Gate C Plug D(2)	1-13/18*		3,000	1-13/16*		5,000	1-13/16*		10,000
48	Valves(1)	2-1/16*		3,000	2.1/18"		5,000	3-1/8*		10,000
5	Pressure Gauge	_		3,000			5,000			10,000
8	Gale C Valves Plug D(2)	3-1/8"		3,000	3-1/8*		5,000	J-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 D Plug D(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	1	2'x5'			2'x5'			2'x5'	
16	Line		4*	1,000		4*	1,000		4*	2,000
17	Valves Gate C	3-1/8*		3,000	3-1/8*		5,000	3-1/8*		10,000

(1) Only one required in Class 3M.

(2) Gate velves 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 railing.
- 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

#### STACK REQUIREMENTS Min. Min. Nominal 1.D. Item No Flowline 1 2" 2 Fill up line **Drilling nipple** 3 Annular preventer 4 Two single or one dual hydraulically 5 operated rams Drilling spool with 2" min. klll line and 2" Cheks 6a 3" min choke line outlets 2" min. kill line and 3" min. choke line 6b outlets in ram. (Alternate to 6a above.) Gale 🗆 3-1/8\* 7 Valve Plug 🗆 3-1/8" 8 Gate valve-power operated 3\* Line to choke manifold 9 Gate 🛛 2-1/16\* Valves 10 Plug D 2.1/16" Check valve 11 Casing head 12 Gate D 1-13/16\* Valve 13 Plug ()

# MACK ENERGY CORPORATION

CONFIGURATION . 3 (2 ANNULAR (4) PREVENTER BLIND RAMS F PIPE RAMS 6 **i (**) DRILLING SPOOL (7) CASING 7.0 HEAD **(1** (12) (6) CASING

OPTIONAL							
16 Flanged valve	1-13/18"						
10 Trianged terre	<b></b>						

CONTRACTOR'S OPTION TO FURNISH:

Pressure gauge with needle valve

Kill line to rig mud pump manifold

14

15

- 1.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.
- 5.Inside blowout prevventer 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 drilt pipe in use on location at all times.
- 9. Type AX ring gaskets in place of Type A.

## MEC TO FURNISH:

1.Bradenhead or casinghead and side valves. 2 Waar bushing if required.

## **GENERAL NOTES:**

2\*

- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 2.All connections, valves, littings, piping, etc., subject to well or pump pressure must be flanged (auitable 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.
- 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.
- 5. All valves to be equipped with handwheels or handles ready for immediate use.
- 6.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.
- 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.
- 11.Do not use kill line for routine fill-up operations.



# EXHIBIT #1-A



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131



Mack Energy Corporation P. O. Box 960 Artesia, New Mexico 88211-0960 Attention: Matt Brewer

Administrative Order NSL-4063

Dear Mr. Brewer:

Reference is made to your application dated June 2, 1998 for an unorthodox oil well location in either the Undesignated Empire-Yeso or Undesignated East Empire-Yeso Pools for Mack Energy Corporation's proposed Western Federal Well No. 3 to be drilled 2330 feet from the North line and 1650 feet from the East line (Unit G) of Section 30, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico. The SE/4 NE/4 of Section 30 is to be dedicated to the well in order to form a standard 40-acre oil spacing and proration unit for either pool.

The application has been duly filed under the provisions of Rule 104.F of the General Rules and Regulations of the New Mexico Oil Conservation Division ("Division").

By the authority granted me under the provisions of Division General Rule 104.F(2), the above-described unorthodox oil well location is hereby approved.

Sincerely, Di Wrotenbery Lori Wrotenbery

Director

LW/MES/kv

cc: New Mexico Oil Conservation Division - Artesia / U. S. Bureau of Land Management - Carlsbad