Form 3160-3 (December 1990)	N						
		34 TED STATES	5	UBMIT IN ^ (Other Inst. reverse s	LICATE* ons on side)	Budget Bure	d. 14 No. 1004-0136 ember 31, 1991
					Γ	5. LEASE DESIGNATIO	
		F LAND MANA				NM-2	
	LICATION FOR P	ERMIT TO	DRILL OR D	EEPEN		6. IF INDIAN, ALLOTT	EE OR TRIBE NAME
a. TYPE OF WORK D. TYPE OF WELL	ORILL 🛛	DEEPEN			-	7. UNIT AGREEMENT	NAME
	Gas OTHER			MULTH ZONE		8. FARM OR LEASE NAME, V	$\sigma \propto J \epsilon$
NAME OF OPERATOR Mack Energy Co		1383	17			9. API WELL NO.	deral #1
ADDRESS AND TELEPHON	<u> </u>	1555		A. 17		3. API WELL NO.	21121
P.O. Box 960, A	rtesia, NM 88211-0960	(505) 74	48-1288			10. FIELD AND POOL,	OR WILDCAT
	ELL (Report location clearly	· · · · · · · · · · · · · · · · · · ·	/N	rement.*)	<u>19</u>	Empire P	addock
At surface At proposed prod.	zone	1650 FSL 2310	FWL S	IAN IN	VED RTESIA	11. SEC., T., R., M., O AND SURVEY OR	AREA
4 DISTANCE IN MILE	S AND DIRECTION FROM NEA	1650 FSL 2310		A. 670 -	KIL-	Sec 29 T1 12. COUNTY OR PAR	
•. DISTANCE IN MILE.		s West Loco Hil		00-		Eddy	NM
5. DISTANCE FROM PF LOCATION TO NEAL PROPERTY OR LEA	REST	330	16. NO. OF ACRES IN 280	1-19		ACRES IN LEASE S WELL	40
8. DISTANCE FROM PR TO NEAREST WELL OR APPLIED FOR, ON	ROPOSED LOCATION* ., DRILLING, COMPLETED N THIS LEASE, FT.		19. PROPOSED DEP 550(20. ROTARY	OR CABLE TOOLS Rotary	
1. ELEVATIONS (Sho	ow whether DF, RT, GR, etc.) 3628 GR			_		22. APPROX. DATE WO 1/1	RK WILL START• /972
3.		PROPOSED CASI	NG AND CEMENTI	NG PROGRA	м		· _ · · · ·
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER F	OOT SETTI	G DEPTH		QUANTITY OF CEM	IENT
12 1/4	8 5/8, K-55	24		300	WIINE	Circ	
7 7/8	<u>5 1/2, J-55</u>	17	5	500	WITNE	Sufficient to C	Circ.
be cemented. If r	nergy proposes to drill to non-productive, the well as as per Onshore Oil an m	will be plugged	and abandoned	l in a mano	or consisten ng a ftachin GENE	t with federal reg	gulation. ET TO EMENTS AND
Surface Use & (E	4 O M	TA		
			Exhibit #	4 - Une- M	ile Radius	wap / 202	-37-92
	A - Blowout Preventer E		Exhibit #	5 - Produc	tion Faciliti	ies Layout AF	1 In-1 -32-92 It Lac
	cation and Elevation Pla	It	Exhibit #	6 - Locatio	n Layout		
	nned Access Road					ations Plan	
i ABOVE SPACE DESC repen directionally, give	CRIBE PROPOSED PROGRAM: pertinent data on subsurface location	If proposal is to deepe ons and measured and t	n, give data on presen rue vertical depths. Gi	productive zor e blowout preve	e and proposed nter program, il	new productive zone. I f any.	f proposal is to drill or
I. () SIGNED	ina D. Caita		. <u></u> PI	oduction Cl	erk	DATE	12/11/97

(This space for Federal or State office use)

PERMIT NO. __

APPROVAL DATE

DATE 1.72

4 fr

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:

(ORIG.	SGD.)	ALEXIS C	, Swob oda
APPROVED BY			

A	TITLE ACTIN	, ADM, MINERALS
	Instructions On F	

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 including the statements of the United States any false, fictitious or fraudulent statements or representations as to any matter within its including the statements of the United States and States any false, fictitious or fraudulent statements or representations as to any matter within its including the statements of the States and States and States are stated as the statement of the States and States are stated as the state of the States are states are stated as the state of the States are states are stated as the state of the States are states

Sin : II V SI 330 Lbby

-

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

DISTRICT II

F.O. Drawer DD, Artesia, NM 55211-0719

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

DISTRICT IV P.O. Box 2088, Santa Fe, NM 87504-2088

٢-

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

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

□ AMENDED REPORT

٦

WELL LOCATION AND ACREAGE DEDICATION PLAT

API 1	API Number Pool Code Pool Name					Pool Code			Pool Name								
							Empire Paddock					Empire Paddock					
Property C							Well Number										
			SCHLEY FEDERAL						1								
OGRID No						-	tor Nam				Elevation						
013837				MA	ICK E	NERG	r co	RPORATION			3597						
						Surface	e Loc	ation									
UL or lot No.	Section	Township	Range	Lot 3	Idn	Feet from		North/South line	Fee	et from the	East/West line	County					
К	29	17 S	29 E			165	0	SOUTH		2310	WEST	EDDY					
LL		1	Bottom	Hole	Loca	ation If	Diffe	erent From Sur	face	2	ł						
UL or lot No.	Section	Township	Range	Lot	Idn	Feet from	n the	North/South line	Fee	et from the	East/West line	County					
Dedicated Acres	Joint	r Infill Co	nsolidation (Code	Orde	er No.		1	1		1	L					
	WADIE W		SSICNED '			ANDI FT		JNTIL ALL INTER	DECT		FEN CONSOLID						
NU ALLU	TADLE 1							APPROVED BY			CONSULID	ALED					
								·····									
	1						1			OPERAT	OR CERTIFICAT	TION					
	· · · · · ·						1			I hereb	ny certify the the in	formation					
	1						1				n is true and compl	ete to the					
							1			best of my know	wiedge and belief.						
	1 						1			$\hat{\Lambda}$	· · /	Λ					
	1									- (1t)	in D.C.	. ('o 🚬					
	ا 44			L						Signature							
	1						1				D. Carter						
	1						Printed Name										
	1						1				ion Clerk						
	1						1			Title 12/11/9	7						
							1			<u>12/11/9</u> Date	/						
	(1				· · · · · · · · · · · · · · · · · · ·						
				ļ						SURVEY	OR CERTIFICAT	FION					
	1						1			I hereby certif	y that the well local	ion shown					
	1						İ			on this plat u actual surveys	as plotted from fiel						
	ļ						İ			-	: made by me or nd that the same is	under my					
	i	359	8.0 <u>' 35</u> 9	5.3			Í			correct to th	he best of my belie	ıf.					
	2310'-L		 ⊳ ∩							DECEN	/BER 5, 199	97					
	2010									Date Survey		JLP					
┣ — — — —	+	<u>359</u>	17.8'35	<u>94.9'</u>			- + -			Signature &	Seal Of						
	1						1			Professional	Surveyor						
										1 x	7 031						
	ĺ		650							ormall	S-OUME-1	2.08.97					
	1		Ī	1						WO. N	(m. 87-11)	969					
				l						Certificate N	No. RONALD LETOS	DN, 3239					
	1			1							GARYCO EIDSC)N. 12641					
L	l		¥				l				All and a second and a second						

Attachment to Exhibit #1 NOTES REGARDING THE BLOWOUT PREVENTERS Schley 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 or greater 3 MWP - 5 MWP - 10 MWP



BEYOND SUBSTRUCTURE

			MINI	NUM REQL	JIREMENT	S				
	T	1	3,000 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) Gale C Plug C(2)	3-1/8*		3,000	3-1/8*		5,000	3-1/8*		10,000
4	Vaive Gate C Plug (2)	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	3-1/8"		10,000
5	Pressure Gauge			3,000			5,000			10,000
8	Valves Gate C Plug D(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 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		2'x5'			2'x5'			2'x5'	
18	Line		4"	1,000		4*	1,000		4*	2,000
17	Gate C . Valves Plug C(2)	3-1/8*		3,000	3-1/8*		5,000	3-1/8*		10,000

(1) Only one required in Class 3M.

EXHIBIT #1-A

(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 shell 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 elternate 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 LD. Nominal Item No Flowline 1 2" 2 Fill up line 3 **Drilling nipple** Annular preventer 4 Two single or one dual hydraulically 5 operated rams Drilling spool with 2" min. kill line and 6 a 2"Choks 3" min choke line outlets 2" min, kill line and 3" min, choke line 6b outlets in ram. (Alternate to 6a above.) Gate 🛛 3-1/8* 7 Valve Plug 🛛 3.1/8" Gate valve-power operated 8 3* Line to choke manifold 9 Gate O 2-1/16" 10 Valves Plug C 2-1/16* 11 Check valve 12 Casing head Gate 🗆 1-13/18* 13 Valve Plug 🗆 Pressure gauge with needle valve 14 2-Kill line to rig mud pump manifold 15



MACK ENERGY CORPORATION

EXHIBIT #1-A

. OPTIO	NAL	
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 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.
- 3.80P 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.
- 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.
- 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, littings, 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.
- 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.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 #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

Operator name:	Mack Energy Corporation		
Street or box :	P.O. Box 960		
City, State :	Artesia, NM		
Zip Code, :	88211-0960		

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

Lease No.:	NM-29281	Schley Federal #1				
Legal Description	of land:	Sec 29-T17S-R29E	NE/4 SW/4			

Formation(s) (if applicable): Empire Paddock

Bond Coverage: (State if individually bonded or another's bond) Individually Bonded

BLM Bond File No.: 58 59 88

Authorized Signature:

Crissa D. Carter

Title:

Production Clerk

Date: 12/11/97