Form 3160-3			N. M. (SUBMIT IN	LICATE	* Form approved	. L I
(December 1990)	(T	ED STATE	c	(Other Ins.	jons on	Budget Burea	u No. 1004-0131
	DEPARTMEN			reverse)	side)	Expires: Deco	~\`'
				N		5. LEASE DESIGNATIO	
		LAND MANA				NM-2	
APPLI Ia. TYPE OF WORK	CATION FOR PI	ERMIT TO	DRILL OF	R DEEPEN		6. IF INDIAN, ALLOTTI	E OR TRIBE NAME
		DEEPEN			-	7. UNIT AGREEMENT	NAME
2. NAME OF OPERATOR	as OTHER		SINGLE ZONE	MULTI ZONE		8. FARM OR LEASE NAME, W Schley Fe	TELL NO. 22367 deral #7
Mack Energy Corp 3. ADDRESS AND TELEPHONE NO.		13837	/			9. API WELL NO.	
	sia, NM 88211-0960	(505) 7	48-1288		-	30-015-	OR WILDCAT
4. LOCATION OF WELL At surface	. (Report location clearly a	and in accordance	with any state	requirement.*)			ire Yeso 96610
At proposed prod. zon		1710 FNL 330	FWL			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
		1710 FNL 330	V	NIT E		Sec 29 T17S R29E	
14. DISTANCE IN MILES AN	D DIRECTION FROM NEAR 7 miles	EST TOWN OR POS West Loco Hi				12. COUNTY OR PARI Eddy	SH 13. STATE NM
15. DISTANCE FROM PROPO LOCATION TO NEAREST	ISED*		16. NO. OF AC	RES IN LEASE		F ACRES IN LEASE	
PROPERTY OR LEASE 1 (Also to nearest drip	INE, FT. z. unit line, if any)	330		280		IS WELL	40
18. DISTANCE FROM PROPO TO NEAREST WELL, DR OR APPLIED FOR, ON TH 21. ELEVATIONS (Show w	ILLING, COMPLETED IS LEASE, FT.	300	19. PROPOSE	о depth 5800	20. ROTAR	Y OR CABLE TOOLS Rotary	
	3617 GR	ELL CONTI	ROLLED V	VATER BAS	194	22. APPROX. DATE WOR 6/10	
23.		PROPOSED CAS	ING AND CEM	ENTING PROGRA	лм	<u> </u>	
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER F	FOOT	SETTING DEPTH		NTITY OF CEM	ENT
17 1/2	13 3/8, K-55	54		280		Circ	
<u> </u>	<u>8 5/8, K-55</u>	24		750		Circ	
7 7/8	5 1/2, J-55	17		TD		Sufficient to C	lire
be cemented. If non	gy proposes to drill to -productive, the well s per Onshore Oil and	will be plugged i Gas Order # APPROVA	d and aband 1 are outline 1 SUBJEC	oned in a mano d in the followi T TC	or consister ing attachn	nt with federal reg nents:	ulation. st FD-1
Drilling Program		GENERAL	REQUIRE	MENTS ANT		t	-26-98
Surface Use & Ope	erating Plan	SPECIAL :	STIPULATI	ONS bit #4 - One- M	lile Radius	Map AP	-26-92 IX Loc
Exhibit #1 & 1A -]		Exhibit #5 - Production Facilities Layout					
Exhibit #2 - Locati	on and Elevation Plat	t	Exhi	bit #6 - Locatio	on Layout		
Exhibit #3 - Planne	ed Access Road		Exhi	bit #7 - H2S Dr	rilling Oper	rations Plan	
IN ABOVE SPACE DESCRIB deepen directionally, give pertin	ent data on subsurface location	is and measured and	true vertical depth	is. Give blowout prev	enter program,	if any.	proposal is to drill or
signed Matt	J - Breuse		LF	Geological Eng	gineer	DATE	5/13/98
(This space for Feder							
PERMIT NO.							
Application approval does n CONDITIONS OF APPROVAL	ot warrant or certify that the app ., IF ANY:	plicant holds legal or i	equitable title to th	ose rights in the subjec	ct lease which wo	uld entitle the applicant to	conduct operations thereo
	16. 580 / APMADUG A .	LOPEZ Ja	trigin	itant File	a print	lisiager MUN	15 1098
		TITLE		and I JAM	M	DATE	

*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.

DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980 DISTRICT II					State of New		Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 5 Copies			
				Energy, 1	Minerals and Natural I	Submit				
DISTRICT III				OIL CONSERVATION DIVISION						
000 Rio Brazos Rd., Aztec, NM 87410 DISTRICT IV			P.O. Box 2088 Santa Fe, New Mexico 87504–2088							
P.O. BOX 2088, SANT.	A FE, N.M. 87			CITION		CE DEDICATI			REPO	
API	Number			Pool Code	AND ACKEA	GE DEDICATI	Pool Name			
Property	Cada		9661	0	Property New	East Empire	Yeso	Well Num		
Property 02236					Property Nam SCHLEY 1			7		
OGRID N 01383				MACK E	Operator Nam NERGY CORF			Elevation 3617		
0,1303	<u>.</u>	1			Surface Loca	ation				
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	Coun	
E	29	17 S	29 E		1710	NORTH	330	WEST	ED	
UL or lot No.	Section	Township	Bottom Range	Hole Loc Lot Idn	Feet from the	verent From Sur	face Feet from the	East/West line	Cour	
			8-			···-,···				
Dedicated Acre	s Joint	or Infill Co	nsolidation	Code Or	der No.	1	I	···-··	L	
					- .					
						JNTIL ALL INTER APPROVED BY	THE DIVISION	CEN CONSOLID. OR CERTIFICA ny certify the the in in is true and compi wiedge and betief.	FION formati	
330' SEE DETA	<u>u</u>	OR A N					THE DIVISION OPERATO I heretic contained heretic best of my known Matt Signature Matt J Printed Nam <u>Geolog</u> Title <u>5//3</u> Date SURVEY I hereby certiy on this plat waveys supervison, a correct to t	OR CERTIFICA' ny certify the the in in is true and compi- wiedge and belief. J BALWEA Brewer ae ical Engines A 28 OR CERTIFICA by that the well loca was plotted from file is made by me or mod that the same i he best of my belt PRIL 22, 1998	FION formati lete to lete to TION tion shu d notes under s true	

Attachment to Exhibit #1 NOTES REGARDING THE BLOWOUT PREVENTERS Schley Federal #7 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.





BEYOND SUBSTRUCTURE

			MINI	MUM REQL	IREMENT	S				
	<u> </u>	3,000 MWP			5,000 MWP			10,000 MWP		
Na.		1.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING	1.D.	NOMINAL	RATING
1	Line from drilling spool		3*	3,000		3"	5,000		3*	10,000
2	Cross 3"x3"x3"x2"	1		3,000			5,000			
4	Cross 3"x3"x3"x3"									10,000
3	Valves(1) Gale C Piug C(2)	3-1/8*		3,000	3-1/8*		6,000	3-1/8*		10,000
4	Gate ⊡ Valve Piug □(2)	1-13/18"		3,000	1-13/16*		5,000	1-13/18*		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
6	Gale C Valves 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 D Piug D(2)	3-1/8*		3,000	3-1/8*		5,000	3-1/6*		10,000
12			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'×5'	
16	Line		4*	1,000		4.	1,000		4"	2,000
17	Valves Gate D . Plug D(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 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 Lands or one bende using bull plugaed lass.

MINIMUM BLOWOUT PREVENTER REQUIREMENTS

2.,000 psi Working Pressure

2 MWP

MACK ENERGY CORPORATION EXHIBIT #1-A

STACK REQUIREMENTS

No.	ltem		Min. I.D.	Min. Nominal
1	Flowline			
2	Fill up line			2"
3	Drilling nipple			
4	Annular preventer			
5	Two single or one dual operated rams	hydraulically		
6a	Drilling spool with 2" m 3" min choke line outle			2"Choke
6b	2" min. kill line and 3" i outlets in ram. (Alternat	nin. choke line e to 6a above.)		
7	Valve	Gate 🗆 Plug 🗅	3-1/8*	
8	Gate valve-power ope	rated	3.1/8"	
9	Line to choke manifold			3*
10	Valves	Gale C Plug C	2-1/18*	
11	Check valve		2-1/16"	
12	Casing head			
13	Valve	Gate 🗆 Plug 🗋	1-13/16*	
14	Pressure gauge with ne	edle valve		
15	Kill line to rig mud pump			2"



OPTIO	NAL	
16 Flanged valve	1-13/16"	

CONTRACTOR'S OPTION TO FURNISH:

- 1.All equipment and connections above bradennead 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.
- 3.80P 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.
- 8.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.

GENERAL NOTES:

- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 2.Ali connections, vaives, fittings, 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. Vaives 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 dil 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