Form 3160-3 (December 1990) N. N. SUBMIT IN

'LICATE\*

Form approved.

Budget Bureau No. 1004-01

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR

(Other Instructions on reverse side)

Expires: December 31, 1991

			NIEK			5. LEASE DESIGNATION AND SERIAL NO.		
	BUREAU OF	LAND MANA	GEMEN	T		NM-29281		
APPLI	CATION FOR PE	ERMIT TO I	DRILL	OR DEEPEN		6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
Ia. TYPE OF WORK	<b>N</b>		_			7. UNIT AGREEMENT NAME		
b. TYPE OF WELL	L 🛛	DEEPEN l				2236 7		
oir 🔼 G	as		SIN	GLE Q2021	ųe ┌┐ Ì	8. FARM OR LEASE NAME, WELL NO.		
WELL 🔼 W. 2. NAME OF OPERATOR	/ell OTHER		ZO	NE ZAGIZO ZIGHE Z	₹	Schley Federal #4		
Mack Energy Corp	oration 13	837		16 G	<i>B</i> ,	9. API WELL NO.		
3. ADDRESS AND TELEPHONE NO.				15,	67	30-015 - 30451		
P.O. Box 960, Artes	sia, NM 88211-0960	(505) 7	48-1288	4	772	10. FIELD AND POOL, OR WILDCAT		
4. LOCATION OF WELL At surface	(Report location clearly a	nd in accordance	with any	state requirement.*)	£ 29	East Empire Yeso		
Atsuriace	L 11	2180 FSL 430	FWL	S ONL AUTEN	A &	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. zon	/A ·	2100 EST 420	EXX/X	101	\$0	Sec 29 T17S R29E		
14 DISTANCE IN MILES AN	ID DIRECTION FROM NEARI	2180 FSL 430		13456 × 8	//_	12. COUNTY OR PARISH 13. STATE		
14. DISTANCE IN MILES AN		West of Loco H		39000		Eddy NM		
15. DISTANCE FROM PROPO	OSED*			OF ACRES IN LEASE	17 NO O	F ACRES IN LEASE		
PROPERTY OR LEASE I	LINE, FT.	430		160		ils Well 40		
(Also to nearest drig 18. DISTANCE FROM PROPO			19. PRC	POSED DEPTH	20. ROTAI	RY OR CABLE TOOLS		
TO NEAREST WELL, DR OR APPLIED FOR, ON TH		150	1	5800		Rotary		
21. ELEVATIONS (Show w	hether DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*		
	3616 GR	SHE STAND	RILLI	O WATER BAS	<b>M</b>	12/20/98		
23.		PROPOSED CASI	ING AND	CEMENTING PROGRA	M			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER F	тоот	SETTING DEPTH		QUANTITY OF CEMENT		
17 1/2	K-55,13 3/8	48		280	A	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	asing will be cemented	i. If non-produ s as per Onsho	ictive, t ore Oil a	he well will be plugg and Gas Order #1 ar	ed and al	res formation for oil. If  pandoned in a manor consistent  I in the following attachments:		
		APPROVAL	SUBJ	ECT TO				
<b>Drilling Program</b>		GENERAL	REQU	IREMEN IS AND		0 1 1		
		SPECIAL S	TIPUL	ations		Post ID-1		
Surface Use & Ope	erating Plan	ATTACHE		Exhibit #4 - One- M	ile Radius	Map 10-28-98 HPT+ Lec		
Fyhihit #1 & 1A -	Blowout Preventer Ed			** ***		HPITHUC		
Exhibit #1 & 1A								
	Diowout Preventer Eq	(dipinent		Exhibit #5 - Product	ion Facili	ties Layout		
Exhibit #2 - Locati	ion and Elevation Plat	•				ties Layout		
Exhibit #2 - Locati		•		Exhibit #5 - Product		ties Layout		
Exhibit #2 - Locati	on and Elevation Plat	•			n Layout	ues Layout		
Exhibit #3 - Plann	ion and Elevation Plat	 !		Exhibit #6 - Locatio Exhibit #7 - H2S Dr	n Layout illing Ope	erations Plan		
Exhibit #3 - Planno	ion and Elevation Plat	f proposal is to deep	en, give da	Exhibit #6 - Locatio Exhibit #7 - H2S Dr	n Layout illing Ope	erations Plan		
Exhibit #3 - Planno IN ABOVE SPACE DESCRIF deepen directionally, give perti	ion and Elevation Plated  ed Access Road  BE PROPOSED PROGRAM: 1	f proposal is to deep	en, give da	Exhibit #6 - Locatio Exhibit #7 - H2S Dr	n Layout illing Ope	erations Plan		
Exhibit #3 - Planno	ed Access Road  BE PROPOSED PROGRAM: I nent data on subsurface location	f proposal is to deep	en, give da true vertic	Exhibit #6 - Locatio  Exhibit #7 - H2S Dr  Ita on present productive zon al depths. Give blowout preve	n Layout illing Ope e and propos nter program	erations Plan		
Exhibit #3 - Planno IN ABOVE SPACE DESCRIF deepen directionally, give perti 24. SIGNED	ed Access Road  BE PROPOSED PROGRAM: I nent data on subsurface location	f proposal is to deep as and measured and	en, give da true vertic	Exhibit #6 - Locatio  Exhibit #7 - H2S Dr  Ita on present productive zon al depths. Give blowout preve	n Layout illing Ope e and propos nter program	erations Plan  ed new productive zone. If proposal is to drill or if any.		
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DISTRICT I P.O. Box 1980, Hobbe, NM 88241-1980

#### 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

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

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

DISTRICT IV P.O. BOX 2088, SANTA FR, N.M. 87504-2088

#### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

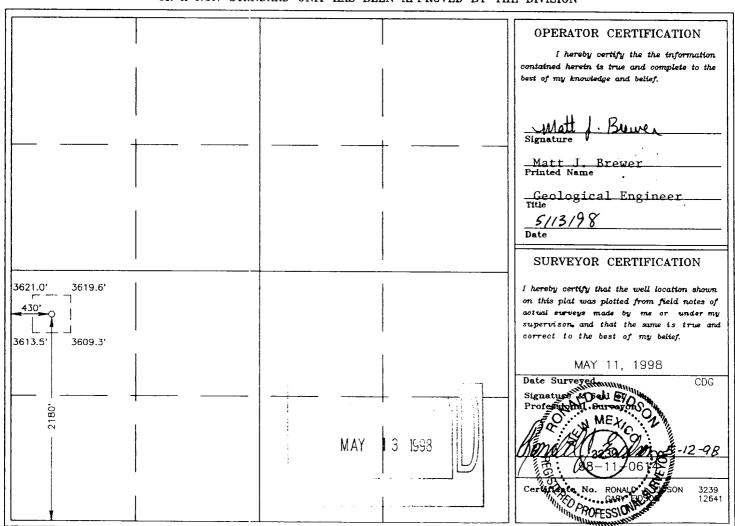
API Number	Pool Code	Pool Name	
	96610	East Empire Yeso	
Property Code		perty Name	Well Number
022367	S.	4	
OGRID No.	Ope	rator Name	Elevation
013837	MACK ENERG	GY CORPORATION	3616'
	Surfa	ce Location	

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	29	17 S	29 E		2180	SOUTH	430	WEST	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 Or	der No.	L		<u> </u>	

### 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

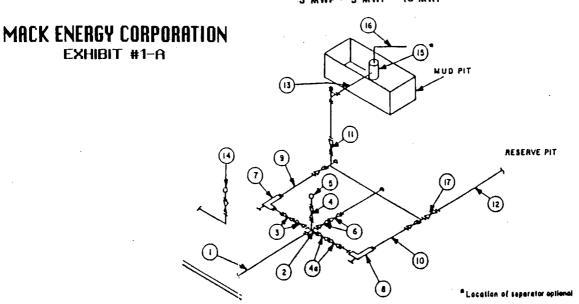


# Attachment to Exhibit #1 NOTES REGARDING THE BLOWOUT PREVENTERS Schley Federal #4 Eddy County, New Mexico

- 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 flar ged.
- 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

			MINII	MUM REQL	HREMENTS	3				
	<u> </u>	1	3,000 MWP			5,000 MWP			10,000 MWP	
No.		1.D.	NOMINAL	BATING	1.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING
1	Line from drilling spool		3.	3,000		3"	5,000		3"	10,000
	Cross 3"x3"x3"x2"	1		3,000			5,000			
2	Cross 3"x3"x3"x3"	1								10,000
3	Vaives(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	1-13/18*		5,000	1-13/16*		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
8	Valves Gate □ 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
_ <u>.</u>	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	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
16	Gas Separator		2'x5'			2'x5'			2'x5'	
18	Line		4*	1,000		4"	1,000		4"	2,000
17	Valves Gate ☐ . Plug ☐(2)	3-1/8"		3,000	3-1/8*		5,000	3-1/8*	<u> </u>	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. Chakes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.
- 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

#### MINIMUM BLOWOUT PREVENTER REQUIREMENTS

#### 2..000 psi Working Pressure

2 MWP

## MACK ENERGY CORPORATION EXHIBIT #1-A

CONFIGURATION A

#### STACK REQUIREMENTS

No.	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 hy operated rams			
6a	Drilling spool with 2" min. 3" min choke line outlets		2"Choks	
6b	2" min. kill line and 3" mi outlets in ram. (Allernate			
7	Valve	Gale [] Plug []	3-1/8*	
8	Gate valve-power opera	ted	3-1/8"	
9	Line to choke manifold			3*
10	Valves	Gale □ Plug □	2-1/16*	
11	Check valve		2-1/16"	
12	Casing head			
13	Valve	Gale □ Plug □	1-13/16*	
14	Pressure gauge with need	ile valve		
	Kill line to rig mud pump r		1	2*

ANNULAR PREVENTER  BLIND RAMS  PIPE RAMS	
ORILLING SPOOL CASING HEAD CASING	

1		OPTIONAL		
16	Flanged valve		1-13/16"	

#### CONTRACTOR'S OPTION TO FURNISH.

- 1. All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 2,000 psi,
- 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 times.
- 9. Type RX ring gaskets in place of Type R.

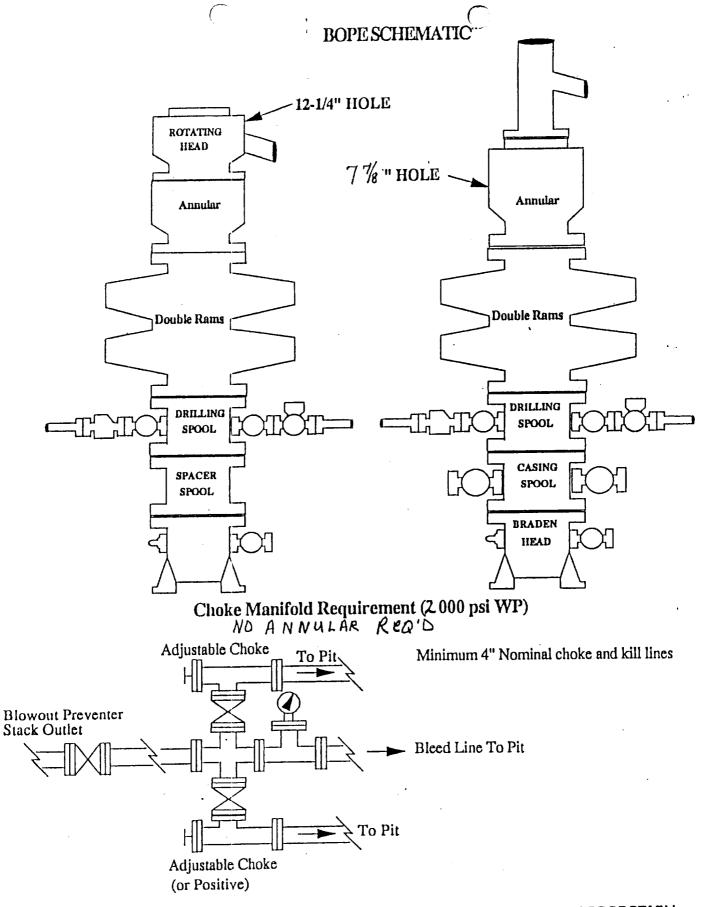
#### MEC TO FURNISH:

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 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 sultably 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 ( 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 emergancy.
- 11.Do not use kill line for routine fill-up operations.



MACK ENERGY CORPORATION EXHIBIT #1-A