Form 3160-3 (December 1990)

# **UNITED STATES** DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

SUBMIT IN TPIPLICATE\* (Other Inst. ins on

Form approved.

Budget Bureau No. 1004-0136

M. Oll Care Photos 8

Expires: December 31, 1991

7. Responsibility Statement

Post ID-1 12-31-58

	426.71.76	
814	S. 10T 30	5. LEASE DESIGNATION AND SERIAL
011	9. (9) 50	NIM 14040
ARTERIA	NM soor	NM-14840

APPLIC	ATION FOR PI	ERMIT TO I	ORILL	OR DEEPEN		6. IF INDIAN, ALLOTTEE O	R TRIBE NAME
a. TYPE OF WORK  DRILL	$\boxtimes$	DEEPEN [				7. UNIT AGREEMENT NAM	1E
b. TYPE OF WELL	_	DEE: E: (	_				2346
OIL Gas WELL We			SING ZON	ELE 2220NE	95/9°	8. FARM OR LEASE NAME, WELL	<del></del>
. NAME OF OPERATOR		-02		7/22	(3)	Blue Streak Fe	deral #2
Mack Energy Corpor	ration /	sacay	1583	//s <sup>v</sup>	17	9. API WELL NO.	
. ADDRESS AND TELEPHONE NO.			_	/ Se DEC 123	ji l	3/30-015-	3050
P.O. Box 960, Artesi	a, NM 88211-0960	(505)	748-1288	BECEIVI	:n	FIELD AND POOL, OR	<b>^</b> ,
LOCATION OF WELL (	Report location clearly a	and in accordance	with any s	tate requirement.*), DT	ECIA	East Empire	Yeso 966
At surface	•	2310 FSL 990		STATES OUD - AND	LOIN	11. SEC., T., R., M., OR BL AND SURVEY OR ARE	
At proposed prod. zone		2310 F3L 770	TLL	18	رنې	,	
At proposed prod. 2016	MITI	2310 FSL 990	FEL	(2/5)	1957	Sec 29 T17S	R29E
4. DISTANCE IN MILES AND	DIRECTION FROM NEAR	EST TOWN OR POS	T OFFICE*	110168		12. COUNTY OR PARISH	13. STATE
		West of Loco	Hills			Eddy	NM
15. DISTANCE FROM PROPOSI	ED*		16. NO. O	F ACRES IN LEASE		F ACRES IN LEASE	-
PROPERTY OR LEASE LIN	NE, FT.	330		40	тотн	IS WELL 4	)
(Also to nearest drlg. 18. DISTANCE FROM PROPOS	ED LOCATION*		19. PROP	OSED DEPTH	20. ROTAR	Y OR CABLE TOOLS	
TO NEAREST WELL, DRIL OR APPLIED FOR, ON THIS		660		5800		Rotary	
21. ELEVATIONS (Show who						22 APPROX. DATE WORK W	ILL START*
35	582 GR					01/02/9	9
23.		PROPOSED CASI	ING AND (	DEMENTING PROGRA	М		
SIZE OF HOLE	CRADE, SIZE OF CASING	WEIGHT PER F	001	SETTING DEPTH		QUANTITY OF CEMENT	
17 1/2	K-55,13 3/8	48		325 Circ		Circ	
12 1/4	K-55, 8 5/8	24 800			Circ		
7 7/8 J-55, 5 1/2 17 5800			5800		Suff to Circ		

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 attachments:

- 1. Surveys
  - Exhibit #1- Well Location Plat
  - Exhibit #2- Vicinity Map
  - Exhibit #3- Location Verification Map
- 2. Drilling Program
- 3. Surface Use & Operating Plan
  - Exhibit #4- One Mile Radius Map
  - Exhibit #5- Production Facilities Layout
  - Exhibit #6- Location Layout

- 4. Certification
- 5. Hydrogen Sulfide Drilling Operation Plan

Exhibit #7- H2S Warning Sign

Exhibit #8- H2S Safety Equipment

- 6. Blowout Preventers
  - Exhibit #9- BOPE Schematic

Exhibit #10- Blowout Preventer Requirements

Exhibit #11- Choke Manifold

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any

signed Matt J. Brown	TTTLE	Geological Engineer	DATE	11/18/98
(This space for Federal or State office use)				
PERMIT NO.	/	APPROVAL DATE		<del></del>
Application approval does not warrant or certify that the applicant ho	lds legal or equitable tit	le to those rights in the subject lease which wo	uld entitle the appli	cant to conduct operations thereo
CONDITIONS OF APPROVAL, IF ANY:				
(ORIG. SGD.) ARMANDO A. LOPEZ	Act	ing Assistant Field Office Mana Lands and Minerals	ger.	n in weige
APPROVED BY	TITLE	Lands and Willerais	DATE	<del> </del>

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

#### State of New Mexico

Energy, Kinerals 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

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

□ AMENDED REPORT

DISTRICT IV P.O. BOX 2008, SANTA FR. N.M. 87504-2088

Dedicated Acres

Joint or Infill

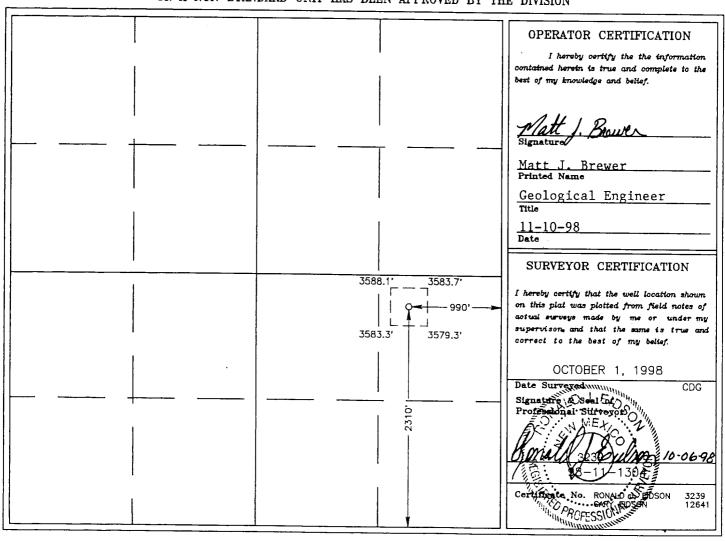
Consolidation Code

### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number			Pool Code		Pool Name					
			-96	610		East Emp	oire Yeso			
Property				DI I	Property Nam JE STREAK F	16	1	Well Nun	nber	
023468				BLU	1					
ogrid no. 013837				MACK	Operator Name MACK ENERGY CORPORATION				Mevation 3582'	
					Surface Loca	ation		<del></del>		
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		2310	SOUTH	990	EAST	EDDY	
			Bottom	Hole Loc	cation If Diffe	rent From Sur	face	I		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
	1	ľ		1	İ	i				

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

Order No.



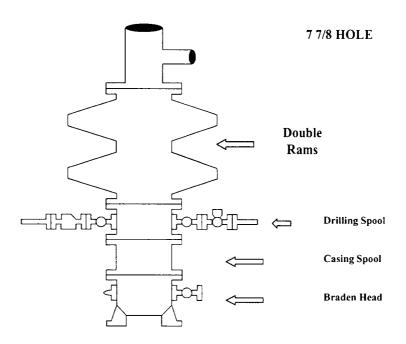
# Attachment to Exhibit #9 NOTES REGARDING THE BLOWOUT PREVENTERS Blue Streak Federal #2 Eddy County, New Mexico

- 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.

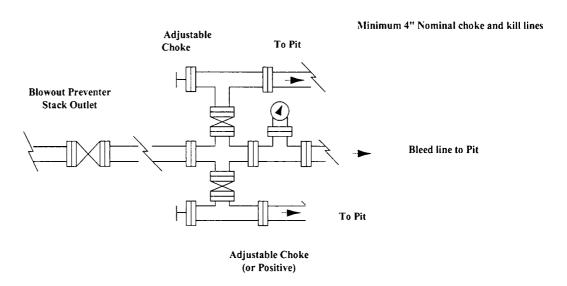
Biowout Preventers Page 15

# **Mack Energy Corporation**

# Exhibit #9 BOPE Schematic



#### Choke Manifold Requirement (2000 psi WP) No Annular Required



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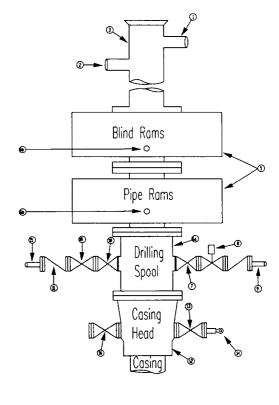
## Mack Energy Corporatio.

#### **Minimum Blowout Preventer Requirements**

#### 2000 psi Working Pressure 2 MWP EXHIBIT #10

#### **Stack Requirements**

NO.	Items	Min.	Min.
		I.D.	Nominal
1	Flowline		2"
2	Fill up line		2"
3	Drilling nipple		
4	Annular preventer		_
5	Two single or one dual hydraulically operated rams		
6a	Drilling spool with 2" min. kill line and 3" min choke line outlets		2" Choke
6b	2" min. kill line and 3" min. choke line outlets in ram. (Alternate to 6a above)		
7	Valve Gate Plug	3 1/8	
8	Gate valve-power operated	3 1/8	
9	Line to choke manifold		3"
10	Valve Gate Plug	2 1/16	
11	Check valve	2 1/16	
12	Casing head		
13	Valve Gate Plug	1 13/16	
14	Pressure gauge with needle valve		
15	Kill line to rig mud pump manifold		2"



#### **OPTIONAL**

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 2000 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.
- Inside blowout preventer 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.
- Type RX ring gaskets in place of Type R.

#### MEC TO FURNISH:

- Bradenhead or casing head and side valves.
- 2. Wear bushing. If required.

#### GENERAL NOTES:

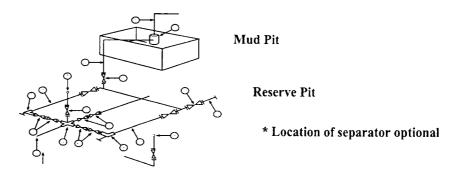
- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through choke 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
- Chokes will be positioned so as not to hamper or delay changing of choke beans.
   Replaceable parts for adjustable choke, or bean

- sizes, retainers, and choke wrenches to be conveniently located for immediate use.
- All valves to be equipped with hand-wheels or handles ready for immediate use.
- 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.
- All seamless steel control piping (2000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
- Casinghead connections shall not be used except in case of emergency.
- 11. Do not use kill line for routine fill up operations.

Blowout Preventers Page 17

## **Mack Energy Corporation**

Exhibit #11
MIMIMUM 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



#### **Below Substructure**

#### Mimimum requirements

			N	umimun	n require	ments				
		3,000 MWP			5,000 MWP			10,	10,000 MWP	
No.		I.D.	NOMINAL	Rating	I.D.	Nominal	Rating	I.D.	Nominal	Rating
1	Line from drilling Spool		3"	3,000		3"	5,000		3"	10,000
2	Cross 3" x 3" x 3" x 2"			3,000			5,000			
2	Cross 3" x 3" x 3" x 2"									10,000
3	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000
4	Valve Gate Plug	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	2 1/16		10,000
5	Pressure Gauge			3,000			5,000			10,000
6	Valve Gate Plug	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		2"	10,000
11	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000
12	Line		3"	1,000		3"	1,000		3"	2,000
13	Line		3"	1,000		3"	1,000		3"	2,000
14	Remote reading compound Standpipe pressure quage			3,000			5,000			10,000
15	Gas Separator		2' x5'			2' x5'			2' x5'	
16	Line		4"	1,000		4"	1,000		4"	2,000
17	Valve Gate Plug	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 10 M
- (3) Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling.

#### **EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTION**

- 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 bee as straight as possible. Lines downstream from chokes shall make turns by large bends or 90 degree bends using bull plugged tees.

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