District I 1625 N French Dr , Hobbs, NM 88240 District 11 1301 W Grand Avenue, Artesia, NM 88210 District III 1 000 Rio Brazos Road, Aztec, NM 87410

1220 S St Francis Dr , Santa Fe, NM 87505

District IV

State of New Mexico Energy Minerals and Natural Resources

Form C-101 May 27,2004

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

APPI	LICATI	ON F	<u>OR PERMIT</u>	`TO DRIL	L. RE-H	ENTER.	DE	EPEN	, PLUG	BACK	. OR AD	D A ZONE	
			Operator Name	e and Address					, <u> </u>		GRID Numbe		
		P.O	Mack Energ Box 960 Arto	y Corporationesia, NM 882					30- 0	15-3330.	API Number	<i>V</i>	_
3 Prope	rty Code				s Property							ell No.	
	33581		1	So	outhern C	ross 32 St	ate					3 -	
			'Proposed Pool I Abo							Proposed	Pool 2		
				7	Surface	Location	n		, .				
UL or lot no	Section	Townshi	p Range	Lot Idn	Feet fro			outh line	Feet from	the I	East(West line	County	
Н	32_	18S	24E		19	80	No	orth	660		East	Eddy	
		1	8 Propo	osed Bottom F	Hole Locat	tion If Diff	feren	t From S	Surface				
UL or lot no	Section	Townshi	p · Range	Lot Idn	Feet fre	om the N	Iorth/S	outh line	Feet from	the I	EastfWest line	County	
				A dditi	onal We	ell Inform	natio	⊥ ∩n				·	
	Type Code		12 Well Type Co			e/Rotary	iluti		Lease Type C			und Level Elevation	
	PB ultiple		Oil " Proposed Den	yth .		<u>. </u>			S		<u> </u>	3780' GR	
	vio		4950')		mation bo			9 Contracto	Γ		9/27/11	
Depth to Grou	indwater 14	45'		Distance from	nearest fres	h water well	1000	0'	Distan	ce from nea	irest surface w	ater 1000'	
Pit Liner	Synthetic		mils thick Clay	Pit Volume	bbls	• -,]	Drdin	ng Method		·			
Close	d-Loop Sys	tem 🛛				<u>E</u> i	resh V	Vater 🛛	Brine D	iese /Oil-ba	sed Gas/	Air 🗖	
			2.	¹ Proposed	Casing a	and Ceme	ent l	Prograi	n ˙				
Hole S	ıze		Casing Size	Casing weigh			ing De			s of Cemer	nt	Estimated TOC	
12 1/4		8 5/8		24		1280			830sx		Surfa	Surface/In place	
7 7/8		4 1/2		10.5		6969			1790sx		Surfa	ice/In place	
	·-	-							-				
				<u></u>		-			-		<u> </u>		—
			f this application is							e zone and	proposed nev	v productive zone.	
Describe the t	olowout pre	vention pr	ogram, if any Use a oposes to Plug-	additional sheets	if necessary	go f	mple	ete as fo	llows.	•			
Triadic Energ	<i>y</i> corpor	ation pr	oposes to Trug	J	Cimation	una re co	mpi	ote us to	110 11 5.				
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n I hereby cer	tify that the	ınformatı	on given above is tr			T				_			
oftny knowle	dge and bel	ief I furtl	ner certify that the	drilling pit wil	l_be			OIL C	ONSER	VATIO	N DIVIS	ION	
constructed a	according t 1) alternat	o NMOCI	D guidelines 🔀 a approved plan. 🗆	general permit	∟, or	Approved	bur	_	11 (1	}			
Signature		2	W Shew	a Ol		Арргочец	Uy		6. M	Walle Park			
Printed name.	7	0	Jerry W. She	rrell		Title:	-	6	dest	4			
Title		F	Production Clerk			Approval I	Date:	5/2	9/2011	Evnir	ation Date		
E-mail Addres			jerrys@mec				- 410.	11-1	·1	1 Evhii	and Date		
Date.	9/27/	11	Phone.	(575)748-1	788	Conditions	of A	onroval An	ached				
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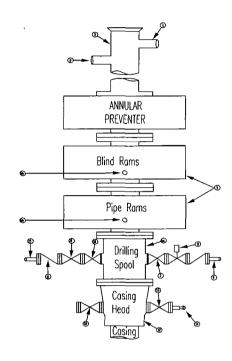
Mack Energy Corporation

Minimum Blowout Preventer Requirements

3000 psi Working Pressure 13 3/8 inch- 3 MWP 11 Inch - 3 MWP **EXHIBIT #1**

Stack Requirements

NO	Items	Min	Min.
_		ID	Nominal
1	Flowline		2"
	Fill up line		2"
3	Drilling nipple		
4	Annular preventer		
5	Two single or one dual hydraulcally 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	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 .		Cl're.
13	Valve Gate Plug	1 13/16	Vi c.
14	Pressure gauge with needle valve	i	(2
15	Kill line to rig mud pump manifold	; ,	2"



OPTIONAL

16	Flanged Valve	1 13/16	

10

CONTRACTOR'S OPTION TO CONTRACTOR'S OPTION TO FURNISH

- All equipment and connections above bradenhead or casinghead Working pressure of preventers to be 2000 psi mınimum.
- Automatic accumulator (80 gallons, 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
- 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.
- Kelly saver-sub equipped with rubber casing protector at all times
- 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
- Wear bushing. If required

ME GENERAL NOTES.

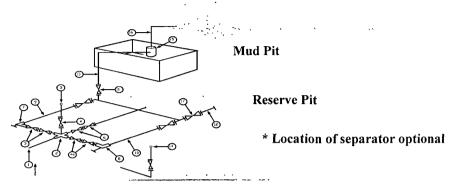
- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager
- All connections, valves, fittings, piping, etc, subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure 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
- 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.
- Does not use kill line for routine fill up operations.

Mack Energy Corporation Exhibit #2

MIMIMUM CHOKE MANIFOLD 3,000, 5,000, and 10,000 PSI Working Pressure 3M will be used 3 MWP - 5 MWP - 10 MWP



Below Substructure

Mimimum requirements

				IMITAL	mum reqi		•				
			3,000 MWP 5,000 MWP						10,000 MWP		
No.		I.D.			I.D.			I.D.			
			Nominal	Rating		Nominal	Rating		Nominal	Rating	
1	Line from drilling Spool		3"	3,000	٠,,,	3"	5,000		3"	10,000	
2	Cross 3" x 3" x 3" x 2"	1		3,000	-		5,000				
2	Cross 3" x 3" x 3" x 2"			5 %	1144. 1 .					10,000	
3	Valve Gate Plug	3 1/8	, 17	5 13000 and	10 000 PS:	.1 11	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	

Only one required in Class 3M

Only one required in Class 3M
Gate valves only shall be used for Class 10 M (2)

Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTION

- All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating
- 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
- Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.
- 5 alternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the standpipe pressure gauge
- 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