District I 1625 N French Dr , Hobbs, NM 88240.4

Dstrict 11 1301 W Grand Avenue, Artesia, NM 8

District IV

1 000 Rio Brazos Road, Aztec, NM 87410

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

AUG 2 3 2007 ___ ☐ AMENDED REPORT

1220 S St F	rancis Dr , S	Santa Fe, NN	И 87505		Santa	i re, mwi	8/303	OCD-AKT	ESIM		
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			Operator Name Mack Energ						'OGRID		013837
		P.O. I	Box 960 Arte					30- 005-62	.648 ^{API N}	lumber	
3 Prope	erty Code				5 Property			- • • • • • • • • • • • • • • • • • • •		6 Well 1	
			Proposed Pool I		Falco	n State			L	_	1
(1	المازر		Strawn					Propo	osed Pool 2	2	
		,			7 Surface	Locatio	n				
UL or lot no	Section	Township	Range	Lot 1			North/South line	Feet from the	East(We	st line	County
В	16	14S	29E		66	50	North	1980	Eas	st	Chaves
			8 Prope	sed Botto	om Hole Locat	tion If Dif	ferent From S	Surface			
UL or lot no	Section	Township	Range	Lot 1	Idn Feet fro	om the	North/South line	Feet from the	EastfWe	st line	County
					1.11.72	11 T. C.					
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	É		O	ouc		tary	, "	S S			3727'
	lultiple No		" Proposed Dep 8900	oth		mation		9 Contractor		2 Spud Date	
Depth to Grou			8900	Distance	e from nearest fres	h water well	[Distance from	8/25/07 n nearest surface water 1000'		
	- 00						1000'			irace wate	1000'
	Synthetic		nils thick Clay L	☐ Pit Vol	umebbls		Drdling Method	_	–	٦	
Close	d-Loop Syst	em 🔼		1.				Brine Diesel/O	ii-based	Gas/Air	
		,		Propos	sed Casing a	and Cem	ent Prograi	<u>n</u>		1 -	
Hole S	Size		sing Sıze		g weight/foot		ing Depth	Sacks of Ce	ement		Estimated TOC
7 1/2		13 3/8		54.5' 320'				376sx		Surface	
1		8 5/8		24		2318		730sx		Surface	
7/8		5 1/2		17		8900		1600sx		Surface	
				<u> </u>				 		 	
2 Describe the	e proposed p	orogram If t	his application is	to DEEPE	N or PLUG BACI	K, give the o	lata on the prese	nt productive zone	and propo	sed new p	roductive zone
Describe the	blowout pre	vention prog	gram, if any Use	additional s	sheets if necessary	/. of 8000'	drilling will	be done with a	nulling	unit and	l reverse unit
its will be	gy Corpor dug. this v	will be do	ne using a clo	sed loop	system. Produ	ction cas	ing will be ru	in and cemented	. punnig d. put we	ell on pr	oduction.
				P	-,				., .		112.13.70
I2S concen	trations o	f wells in	this area from	n surface	to TD are low	v enough	that a conting	gency plan is no	t require	d. 930	157
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Signature	Ju	nes C	v. She	nall				BRYAN (G. ARF	RANT	
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Title		Pre	oduction Cler	k		Title DISTRICT II GEOLOGIST AUG 2 3 2007 Expiration Date					
E-mail Addre	ss	ierry	vs@mackener	gycorp.co	om				7	-	
Date	8/20/0		Phone:		48-1288	Condition	s of Approval At	tached		-	
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MEXICO OIL CONSERVATION COMMISS. N WELL LOCATION AND ACREAGE DEDICATION PLAT

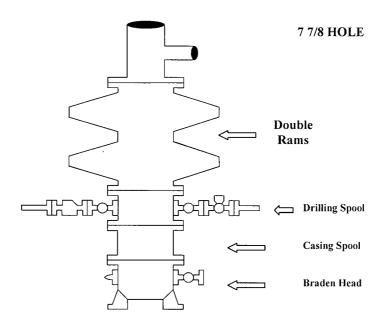
Form C-1.
Supersedes 6-128
Lite tive 1-1-65

All distances must be from the outer boundaries of the Section

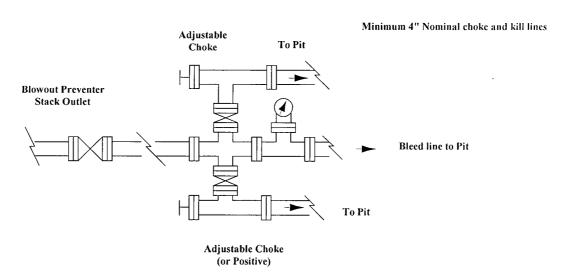
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Mack Energy Corporation

Exhibit #1-A BOPE Schematic

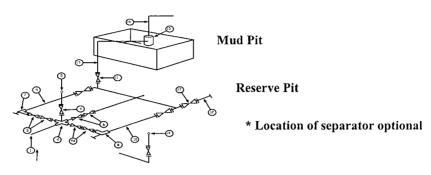


Choke Manifold Requirement (2000 psi WP) No Annular Required



Mack Energy Corporation Exhibit #1-A

Exhibit #1-A
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

				14.8111111	ium i cqu	ii ciliciits				
			3,000 MWP			5,000 MWI	P		10,000 MW	Ρ
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
3	Adjustable Choke	1"		3,000	1"		5,000	2"		10,000
)	Line		3"	3,000		3"	5,000		3"	10,000
10	Line		2"	3,000		2"	5,000	-	2"	10,000
1]	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.

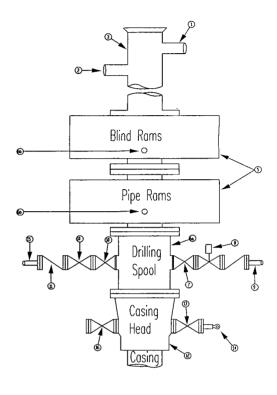
Mack Energy Corporation

Minimum Blowout Preventer Requirements

2000 psi Working Pressure 2 MWP EXHIBIT #1-A

Stack Requirements

	Stack Requireme	JAA CO		
NO	Items	Mın.	Mın.	
		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"	



ODE	TIT C			
OP	116) N	ΑI	١.

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.
- 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 BOP controls, to be located near drillers' position.
- 4 Kelly equipped with Kelly cock.
- 5 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.
- 9 Type RX ring gaskets in place of Type R.

MEC TO FURNISH:

- 1. 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 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
- 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.