											•
Distnet I 1625 N Fren	ah Dr. Ual	aha NIN	1 000-10	`		State	of New Me	exico			Form C-101
Dstrict 11	cn Dr, not	505, INN	1 88240)	Eı	nergy Minera	ls and Natu	ral Resc	urees HOBBS OC	<i>ש</i>	May 27,2004
1301 W Gra	nd Avenue,	Artesı	a, NM s	88210							priate District Office
District III I 000 R10 Bra	zos Road.	Aztec	NM 874	410			servation I		OCT 2 1 20		priate District Office
District IV							uth St. Fran				MENDED REPORT
1220 S St Fi	rancis Dr.,	Santa F	e, NM	87505		Santa	Fe, NM 87	505			
APPI	LICAT	ION	FOR	PERMIT	TO D	RILL, RE-E	ENTER. D	EEPEN	I. PREGERER	CK. OR AD	D A ZONE
				Operator Nam	e and Addre	ss				'OGRID Numb	er 013837
		п		Mack Energ					20 025 20	890 ^{API Number}	
3 Prone	rty Code		. <u>О. В</u> с	0X 900 Arto	esia, inivi	88211-0960 Property	Name		30- 023-39		ell No
, riope	6212						GS-16			• • •	2
			'Pr	oposed Pool I				i	Prop	osed Pool 2	
		Vacu	um;G	rayburg-Sar	Andres	/					
						7 Surface	Location				
UL or lot no	Section	Town	ship	Range	Lot			/South line	Feet from the	East(West line	County
<u>P</u>	16	17	'S	<u>34</u> E		76	0 S	outh	860	East	Lea
<u> </u>				8 Prop	osed Bott	om Hole Locat	ion If Differ	ent From	Surface		
UL or lot no.	Section	Towr	ship	Range	Lot	Idn Feet fro	om the North	/South line	Feet from the	EastfWest line	County
		· · ·						•		····	
u Work	Type Code			W-II T 0		lditional We	<u>II Informat</u> Rotary		L To		
	PB			12 Well Type Co Oil	ode	Cabit	, Kotary		Lease Type Code S	is Gro	ound Level Elevation 4066' GR
·	ultiple		•	" Proposed Dep	oth	" For	nation	1	9 Contractor		2' Spud Date
	No			4875'	· · · ·		. <u></u>				09/01/2011
Depth to Grou	indwater 14	45'			Distanc	e from nearest fres	h water well 10	00'	Distance from	n nearest surface v	vater 1000'
Pit Liner.	Synthetic		m11	s thick Clay	Pit Vol	ume:bbls	Drd	ling Metho	<u>i -</u>		
Close	d-Loop Sys	tem 🗵	3				Fresh	Water 🕅	Brine Diesel/O	il-based Gas/	
				2	¹ Propos	sed Casing a	nd Cemen	Progra	m		
Hole S	izo		Casir	ig Size		g weight/foot	Setting		Sacks of Ce	mont	Estimated TOC
14 3/4		9 5/8	, J-55		36	g weight/toot	1635		1300sx		ace/In place
8 3/4		7, P-			26	···	8805		1010sx		ace/In place
		, -									
						-		·			
		-						on the pres	ent productive zone	and proposed ne	w productive zone.
Describe the t Mack Energ	olowout pre v Corpor	ventior ation	i progra propo	m, if any. Use ses to Plug-	additional s back to S	heets if necessary an Andres for	mation and r	e-comple	ete as follows:		
0	,r		FF-					- - -			
Set CIBP @							oma Franci	Anoro			
Set CIBP @ Perforate 47		/ 35' c	mt caj	о. 🧖	Funit E	xpires 2 Ye Unless Dri P	thes e i wird	erway Verway	• • •		
	+J-4052				* Date	Unless 1944					
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						plete to the hest	······	······		······	
oftny knowled	lge and bel	ief I fu	rther c	ertify that the idelines 🛛 a	drilling p	it will be		OIL C	CONSERVAT	ION DIVIS	ION
an (attached					general pe	. mu, or	Approved by.				
Signature	(2.	. L	1. She	a				Kind		
Printed name	\rightarrow	<u>- </u>		erry W. She	rrell		Title CET	MULLELI	A LANGERT AN		
				·····							
Title:				uction Clerl			Approval Date	<u>,</u>	<u> E</u>	xpiration Date [.]	
E-mail Addres	s:			jerrys@mec	.com	.	N	JV U	<u># 2011</u>		
Date /C	7.20	. //		Phone	(575)74	48-1288	Conditions of	Approval A	ttached		
										-	



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"
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 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		, Pass
13	Valve Gate Plug	1,13/16	¥1
14	Pressure gauge with needle valve		
15	Kill line to rig mud pump manifold	ţ	2"



Replaceable parts for adjustable choke, or bean sizes, retainers, and choke wrenches to be conveniently located for immediate use

- 5 All valves to be equipped with hand-wheels or handles ready for immediate use
- Choke lines must be suitably 6. anchored.
- Handwheels and extensions to 7. be connected and ready for use
- Valves adjacent to drilling 8. spool to be kept open. Use outside valves except for emergency
- All seamless steel control 9. piping (2000 psi working
- pressure) to have flexible .joints to avoid stress. Hoses will be permitted
- Casinghead connections shall 10 not be used except in case of emergency.
- 11. Does not use kill line for routine fill up operations.

CONTRACTOR'S OPTION TO

Flanged Valve

16

- All equipment and connections above bradenhead or casinghead Working pressure of preventers to be 2000 psi minimum.
- 2 Automatic accumulator (80 gailons, 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 3. drillers' position
- 4 Kelly equipped with Kelly cock
- Inside blowout preventer or its 5 equivalent on derrick floor at all times with proper threads to fit pipe being used.
- Kelly saver-sub equipped with rubber 6 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

Bradenhead or casing head and 1 side valves

2 Wear bushing. If required GENERAL NOTES.

1 13/16

- Deviations from this drawing 1 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 choke
 - valves must be full opening and suitable for high pressure
- mud service Controls to be of standard 3.
- design and each marked, showing opening and closing position
- Chokes will be positioned so 4. as not to hamper or delay changing of choke beans.

10 CONTRACTOR'S OPTION TO FURNISH ME

OPTIONAL



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Below	Substructure	
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		3,000 MWP 5,000 MWP 10,000 MWP								
No.		I.D.	I .		I.D.			I.D.		
		ļ	Nominal	Rating		Nominal	Rating		Nominal	Rating
<u> </u>	Line from drilling Spool	·	3"	3,000	· · , ·	3"	5,000	ļ	3"	10,000
2	Cross 3" x 3" x 3" x 2"			3,000			5,000	ļ		
2	Cross 3" x 3" x 3" x 2"			0.1	110.1		L	ļ		10,000
3	Valve Gate Plug	3 1/8	·	3,000 "	10.000 PCT 3 1/8	,1 N	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 V.		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	, T	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	1	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'		<u> </u>	2' x5'	
16	Line		4"	1,000		4"	1,000		4"	2,000
17	Valve Gate Plug	3 1/8			31/8 H 3 11/8		5,000	3 1/8		10,000

Mimimum requirements

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 (3)

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 alternate with automatic chokes, a choke manifold pressure gauge shall be boated 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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