District I 1625 N French Dr , Hobbs, NM 88240 District i I 1301 W Grand Avenue, Artesia, NM 88

State of New Mexico Energy Minerals and Natural Resources

Form C-101 May 27,2004

<u>Dstrict i l</u>
1301 W Grand Avenue, Artesia, NM 88210
<u>District III</u>
1 000 Rio Brazos Road, Aztec, NM 87410
<u>District IV</u>

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit to appropriate District Office

AMENDED REPORT

1220 S St Fr	ancis Dr , S	anta Fe, NN	1 87505		Santa	Fe, NM 87	505					
APPI	<u>ICATI</u>	ON FO				NTER, D	<u>EEPEN,</u>	PLUGBAC	K. OR	ADD		
			Operator Name Mack Energ						'OGRID		013837	
		P.O. 1	Box 960 Arte					30- 025-312	205 ^{API N}	umber		
	erty Code				5 Property					6 Well N		
3 69 8 Qua					Quarterh	orse State					1	
			acuum;Straw	n K	eeves f	enn		Propos	sed Pool 2			
					7 Surface		T		F4/1V-	i I		
UL or lot no	Section	Township	Range	Lot	[/South line	Feet from the 2236	East(Wes		County Lea	
G	10	18S	35E	<u> </u>	23		N		Las	1	Lea	
			8 Prop		om Hole Locat	l l	- 1	l l			-	
UL or lot no	Section	Township	Range	Lot	Idn Feet fro	om the North	/South line	Feet from the	EastfWe	st line	County	
	1			Δα	lditional We	ll Informat	ion					
11 Work	Type Code		12 Well Type C			e/Rotary		Lease Type Code		15 Ground	Level Elevation	
	E		Ö		Ro	tary		S			3909'	
	lultiple No		" Proposed De 11,300'		Stra	mation awn		9 Contractor			² Spud Date 2/15/08 .	
Depth to Grou	indwater 8	15	1	Distanc	e from nearest fres	h water well 10	00'	Distance from	nearest su	rface wate	r 300'	
Pit Liner. Synthetic mils thick Clay				Pıt Vol	umebbls	bbls Drdling Method -						
Close	d-Loop Syst	tem 🛛				Fresh	Water D I	Brine Diesel/Oi	1-based] Gas/Air	· <u> </u>	
			2	1 Propos	sed Casing a	and Cement	Progran	n ´				
II-1- C				Proposed Casing and Cer						ent Estimated TOC		
Hole S 17 1/2	size	13 3/8	sing Size	Casing weight/foot 54.5		Setting 420	Беріп	455sx		Estimated TOC Surface		
12 1/4		9 5/8				3825		1550sx		Surface		
7 7/8		5 1/2		17		11,300	11,300			Surface		
					100.00							
Describe the	blowout pre	vention pro	gram, if any Use	additional s	sheets if necessary	′		nt productive zone			, run 5 1/2 casing	
Note: Well t	o be drill	ed using	closed loop sy	stem.				10 ts		, 4452334 ga , 4	A MARKA MARKA	
		•	ing Under	2A					FEB	0 8 20)08	
		YAW	ing Under	Hira se	sigser mir. Stall staff	ia T		0 00				
	T	BDLOAS	A morff 27	RaY S 24	mit Expire	~a			JDI	S	OCD	
1 harabu aar	tifu that the	informatio	n given above is t	rue and com	nlate to the best	1						
oftny knowle	dge and bel	ief I furthe	r certify that th	e drilling p	it will <u>be</u>		OIL C	ONSERVAT	ION D	IVISIO	ON	
			guidelines 🛭 2		ermit ∐, or			. «	1		·	
Signature	, ,	ive OCD-a	pproved plan.	70		Approved by	Chin	1/2//1/1				
Printed name	Jen	3-10.	Jerry W. She	rrell		TuleOC DE	STRICT SI	JPERVISOR/G	FNEDA	RAKESI	A COSIB	
Title	-	Pr	oduction Cler			1					- N. 70. 1	
E-mail Addres	ss:		/s@mackener	-	om	Approval Date	FEB	T 2 ZOOQ E	xpiration I	vale		
Date	2/7/0		Phone		48-1288	Conditions of	Approval Att	ached				

District I 1625 N French Dr , Hobbs, NM 88240

State of New Mexico EnerRy, Minerals & Natural Resources

F01111 C-104 Revised March 17, 1999

OIL CONSERVATION DIVISION 811 South First, Artesia, NM 88210 2040 South Pacheco District III

Submit to Appropriate District Office State Lease - 4 Copies

Santa Fe. NM 87505 1000 Rio Brazos Rd , Aztec, NM 87410 District IV

Fee Lease - 3 Copies AMENDED REPORT

2040 South Pacheco, Santa Fe, NM 87505 WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Name Reeves Penn Vacuum: Strawn 30-025-31205 Property Code 'Well Number Property Name 36988 1 **Quarterhorse State** Operator Name Elevation 3909 Mack Energy Corporation 013837 н Surface Location Feet from the North/South line East/West line County Range Lot Idn Feet from the UL or lot no Section Township 2236 18S 35E 2310 G 10 North East Lea

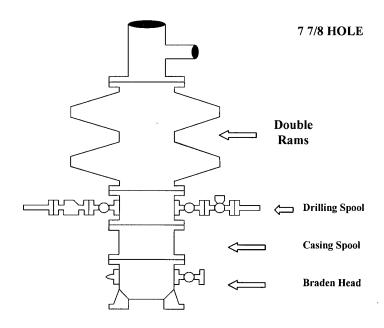
- 1	9	10	100	1 222 1	3		2.02.02			
-				" Bott	om Hole	e Location If	Different Fron	n Surface		
	UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Ī	Dedicated Acres	" joint of	Infill "C	Consolidation C	ode " Orc	ler No	-			
١	40									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL XL INTERESTS HAVE BEEN CONSOLIDATED OR A

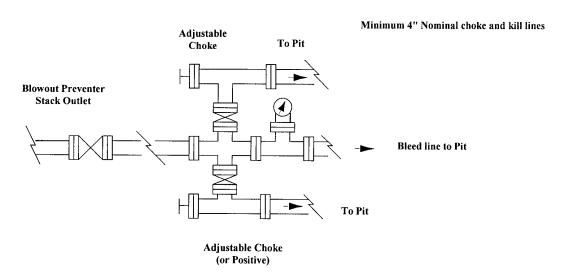
NO ALLOWABLE W	NON-STANI	DARD UNIT HAS BEI	EN APPROVED BY T	HE DIVISION
16		,-		OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
		243	36	Signature Printed Name Jerry W. Sherrell Title Production Clerk Date 2/7/08 "SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief Date of Survey Signature and Seaj of ProfessionalSurveyer
L_				Certificate Number

Mack Energy Corporation

Exhibit #1-A BOPE Schematic



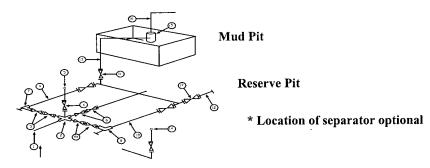
Choke Manifold Requirement (3000 psi WP) No Annular Required



Eululus #1 A

Exhibit #1-A MIMIMUM CHOKE MANIFOLD

3,000, 5,000, and 10,000 PSI Working Pressure
3 M will be used or greater
3 MWP - 5 MWP - 10 MWP



Below Substructure

Mimimum requirements

			3,000 MWP	1,1111111	ium requ	5,000 MW	P		10,000 MW	P
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
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.

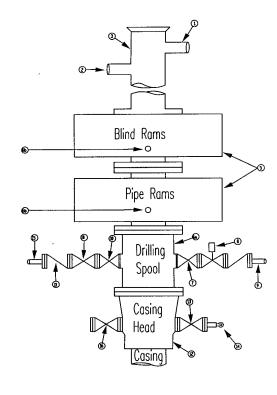
Mack Energy Corporation

Minimum Blowout Preventer Requirements

3000 psi Working Pressure 3 MWP EXHIBIT #1-A

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"					
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"					



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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 3000 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
- 3. 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.
- 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 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
- 4. 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.
- 5. All valves to be equipped with handwheels or handles ready for immediate
- 6. 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.
- 9 All seamless steel control piping (2000 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 emergency
- 11 Do not use kill line for routine fill up operations.