Disanct I

State of New Mexico Energy Minerals and Natural Resources

Form C-101 May 27,2004

Oil Conservation Division 1220 South St. Francis Dr.

Submit to appropriate District Office

☐ AMENDED REPORT

<u>District 1</u>
1625 N French Dr , Hobbs, NM 88240
Dstrict 11
1301 W Grand Avenue, Artesia, NM 88210
District III
I 000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St Francis Dr., Santa Fe, NM 87505

1220 S St Fr	•					Fe, NN						
APPI	<u>LICATI</u>	ON FO	R PERMIT			NTER	<u>l, DE</u>	EPEN.	<u>, PLUGBAC</u> T	K. OR		A ZONE 013837
			Mack Energ	y Corpor	ation				20.025.20	a chAPI N	umber	013837
		P.O. I	Box 960 Arte	esia, NM		NT			30- 025-29	288	6 Well N	I a
3 Property Code SProperty N 3 6 8 5 6 Mule					SWD						1	
30	D36		Proposed Pool I			T			Propo	sed Pool 2		
							••••		•			
		(2000)			7 Surface							
UL or lot no	Section	Township	Range	Lot I			North/So		Feet from the	East(Wes	ı	County
M	13	18S	34E		66		Sou			Wes	st	Lea
					m Hole Locat					E .011	[0
UL or lot no	Section	Township	Range	Lot I	dn Feet fro	rom the North/South line		Feet from the	EastfWes	st line	County	
			I	Ad	ditional We	ll Info	rmatic	n				
	Type Code		12 Well Type Co			/Rotary			Lease Type Code			Level Elevation
	E ultiple		" Proposed De	oth	" Form	nation			S Contractor			3982 pud Date
	No		11,200	,		camp					12	2/27/07
Depth to Grou	indwater 85	5'		Distance	e from nearest fres	h water we	ell 1000)'	Distance from	nearest su	rface wate	r 1000'
Pit Liner	Synthetic	n	ils thick Clay	Pit Vol	umebbls		Drdlin	g Method	<u>-</u>			
Close	d-Loop Syst	tem 🔀					Fresh W	ater 🗌	Brine Diesel/O	ıl-based	Gas/Aır	
			2	1 Propos	sed Casing a	and Cei	ment l	Prograi	n			
Hole S	lize	Ca	sing Size	T	g weight/foot		etting De	-	Sacks of Ce	ment	F	stimated TOC
17 1/2	120	13 3/8	sing oize			350		350sx		Surface		
12 1/4		8 5/8		24 & 32		3572	3572		1700sx		Surface	
7 7/8		5 1/2		17		11,200			2300sx	_		
Describe 4h			his amplication is	to DEEDE	N or DI LIG DACK	/ give the	a data on	the prese	nt productive zone	and propo	sed new n	roductive zone
Describe the Mack Energ well. Note: Work Permit Da	blowout preserved over oper	vention projection projections will see 1 Years Drilling		additional s nter this v hout a pit oproval	heets if necessary vell to a depth					ormation	and cor 0.2122 Received	nvert into a SWD
oftny knowle	dge and bel	lef I furthe	r certify that th	e drilling p	it will <u>be</u>			OIL C	ONSERVAT	TON D	IVISIO	ON
constructed according to NMOCD guidelines a general permit , or an (attached) alternative OCD-approved plan. Signature Cerry W. Sheroll						Approved by Hayle Wink						
Printed name			Jerry W. She	errell		Title.	SC PIE	ED RET	ACASEMIATIAS	<i>पाठाना</i>	1 1/0-01	And the second s
Title.	Title. Production Clerk					Approva		<u>~~</u>	4 2007 E	xpiration E	Date	
E-mail Addre	ess.	jerry	/s@mackener	gycorp.co	om		D	IFC O	4 2907			
Date.	11/27	/07	Phone:	(505)7-	48-1288	Conditio	ons of Ap	pproval At	tached			

District I 1625 N French Dr., Hobbs, NM 88240

District 11

811 South First, Artesia, NM 88210

State of New Mexico EnerRy, Minerals & Natural Resources

Form C-102 Revised March 17, 1999

OIL CONSERVATION DIVISION

Submit to Appropriate District Office

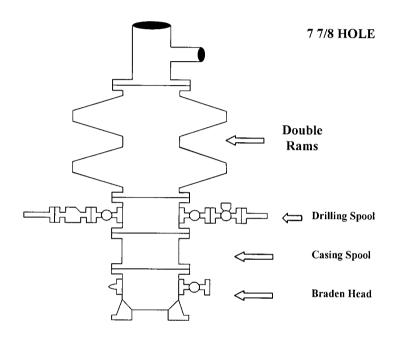
2040 South Pacheco Santa Fe. NM 87505 District III State Lease - 4 Copies 1000 Rio Brazos Rd, Aztec, NM 87410 Fee Lease - 3 Copies District IV 2040 South Pacheco, Santa Fe, NM 87505 AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT 'API Number Pool Code Pool Name 6135 30-025-29288 Wolfcamp Property Code Property Name 'Well Number 36856 Mule SWD Operator Name Elevation 013837 Mack Energy Corporation 3982 н Surface Location UL or lot no Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County M 13 18S 34E 660 South 660 West Lea Bottom Hole Location If Different From Surface UL or lot no Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County Consolidation Code " Dedicated Acres joint or Infill Order No 40

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL XL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

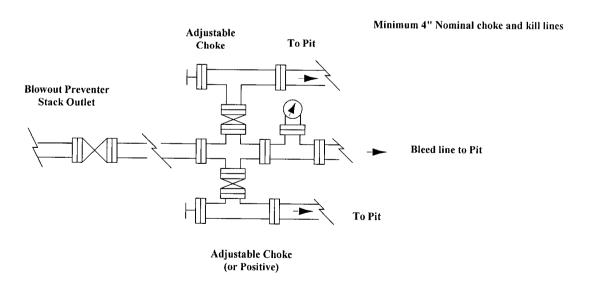
16				OPERATOR CERTIFICATION
		1		I hereby certify that the information
				herein is true and complete to the best of my knowledge and belief, and that this
				organization either owns a working interest
				or unleased mineral interest in the land including the proposed bottom hole location
				or 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.
				Signature / 1 / 1 / 1
				Signature Very W. Shenell
3				Printed Name 0
	[Jerry W. Sherrell
				Title
				Production Clerk
				Date 11/27/07
Ī				"SURVEYOR CERTIFICATION
				I hereby certify that the well location shown on this plat was
				plotted from field notes ofactual 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
			ĺ	
660'				
			ĺ	
109/		ĺ		
3/				Certificate Number
				Ceruncate Muniber

Mack Energy Corporation

Exhibit #1-A BOPE Schematic

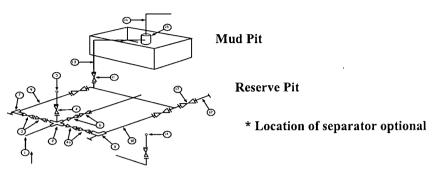


Choke Manifold Requirement (2000 psi WP) No Annular Required



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

		3,000 MWP				5,000 MW	P	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.

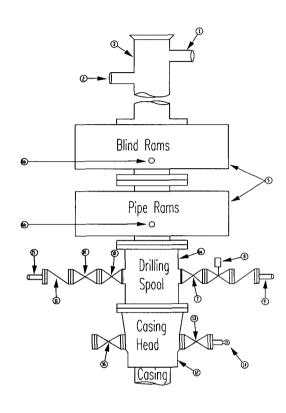
Mack Energy Corporation

Minimum Blowout Preventer Requirements

2000 psi Working Pressure 2 MWP EXHIBIT #1-A

Stack Requirements

	Stack Requireme	-11 to	
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"



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v				

16	Flanged Valve	1.13/16	
10	Tranged varie	1 10/10	

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.
- 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.
- 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.

- 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.
- 9 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.