Distnet 1 1625 N French Dr., Hobbs, NM 88240 Dstrict 11				En	-								Form C-101 May 27,2004
<ul> <li>1301 W Grand Avenue, Artesia, NM 88210</li> <li><u>District III</u></li> <li>I 000 Rio Brazos Road, Aztec, NM 87410</li> <li><u>District IV</u> /</li> <li>1220 S. St Francis Dr , Santa Fe, NM 87505</li> </ul>				Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505					S	Submit to appropriate District Office			
APPI	LICATI	<u>on fof</u>	<u>PERMIT</u>			<u>ENTE</u>	<u>R, DE</u>	EPEN.	<u>, PL</u>	UGBAC	<u>K. OR</u>	ADE	A ZONE
			Operator Name Mack Energ								'OGRID		013837
		P.O. B	ox 960 Arte		88211-0960				3	0- 025-28	660		
1 -	erty Code				s Propert	y Name o State						ه Well	No.
	34432		roposed Pool I			0 State				Propo	sed Pool 2		<b>^</b>
		Vac	uum;Blineb	у						•			
				-1	7 Surfac				E		East(Wes	t line I	County
UL or lot no K	Section 7	Township 18S	Range 35E	Lot		from the 275		outh line uth		et from the 1969	Wes	1	County Lea
K	/	105			om Hole Loc								
UL or lot no	Section	Township	Range	Lot		from the		outh line		et from the	EastfWes	st line	County
	[						<u> </u>						
LI Work	Type Code		12 Well Type Co		ditional W	ell Inf	ormati		Lease	Type Code		15 Grou	nd Level Elevation
	E		0		R	otary				S			3969
	iultipie No		" Proposed Dep 6900	oth		ormation inebry			⊸Coi	ntractor			r Spud Date 2/1/2008
Depth to Gro		 ;	0,00	Distanc	e from nearest fr	······	well 100	ר טי		Distance from	nearest su		
	Synthetic		ils thick Clay	Pit Vo	lumebbls	;		ng <u>Method</u>					1000
	d-Loop Syst	_					Fresh V	Water 🔲	Brine	Diesel/O	Il-based	] Gas/A	ir 🗖
			2	<sup>1</sup> Propo	sed Casing	and C	ement	Prograi	m				
Hole S	Size	Cas	ing Size	Casın	g weight/foot		Setting D	epth		Sacks of Ce	ment		Estimated TOC
17 1/2		13 3/8		61		499	499 500				Surface		
12 1/4		9 5/8		40				1750 				Surfa 1300	<u>.</u>
7 7/8		5 1/2		14, 17		9014			230			1300	
		-					the data o	n the prese	ent pro	ductive zone	and propo	sed new	productive zone.
Describe the		1 0	ram, 1f any. Use			•							
attemn			corporation p ell on produc		to Re-enter t	he Ohio	State #	1 to a de	pth o	of 6900' tes	t the Bli	nebry f	formation,
attemp	t to produ	icc. Tut w	en on produc	aon.						REC			
-					aval					REC		V L	
			AVearF	rom Al	pproval								
	Permi	tExpire	ss Drilling	Under	4-11					JA	N 1 1 2	cuuo	
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			s <b>2</b> Year F ss D <del>rilling</del> Re							HUE	<b>D</b> C		
oftny knowle	dge and be	ief I furthe	· certify that th	e drilling p	oit will <u>be</u>	<u>t</u>		OIL C	CON	SERVAT	ION D	IVIS	ION
constructed	according t	o NMOCD g	guidelines 🛛 a oproved plan.	general p	ermit 🛄, or	<b>A</b>	wod L		7 -	n 1	~ .		
Signature		1.1	Sherran Plan.	Ì		Appro	oved by:	/hu	is,	[]]]_]	na-		
Printed name	7 0		Jerry W. She	rrell		Tufle	X DIS	TRICT S	UPE	AVISOR/G	ENERAL	MAN	IAGER
Title.		Pro	duction Cler				TitleOC DISTNICT SUPERVISOR/GENERAL MANAGER           Approval Date         JAN 1 5 2008         Expiration Date:						
E-mail Addre	ss.		s@mackener		om		u. Duit	_: JUN18	- <b>-</b>				
Date <sup>.</sup>	1/9/20		Phone	<u> </u>	48-1288	Cond	itions of A	pproval At	ttached				
	1/9/20	00		(515)1	-1200	1 20.74		-r P					

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District I 1625 N French Dr , Hobbs, NM 88240 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd , Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505

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#### State of New Mexico EnerRy, Minerals & Natural Resources

Form C-102 Revised March 17, 1999

#### OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe. NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

· · · · · · · · · · · · · · · · · · ·	г		Pool Code		'Pool Name							
30-025-28660						Vacuum; Blinebry						
' Property		_		'Well Number								
34432					1							
'OGRID I				' Elevation								
01383	37			Ν	3969'							
					нı Surface I	Location						
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County			
K	7	18S	35E		2275	South	1969	West	Lea			
			" Bott	om Hol	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			
" Dedicated Acre	s /" joint or	Infill "C	onsolidation C	ode "Ord	ler No		<u>_</u>	I				
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 I hereby certify that the information herein is true and complete to the best of my knowledge and helief, 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 Printed Name Jerry W. Sherrell
	ļ		Title           Production Clerk           Date         1/9/08
1969'			"SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes ofactuai surveys made by me or under my supervision, and that the same is true and correct to the best of my belief
	3275'	· · · · · · · · · · · · · · · · · · ·	Date of Survey Signature and SeaJ of ProfessionalSurveyer

## Mack Energy Corporation Exhibit #1-A BOPE Schematic



Choke Manifold Requirement (3000 psi WP) No Annular Required



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Adjustable Choke (or Positive)

# Mack Energy Corporation

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



				Mimin	um requ	irements				
			3,000 MWP		-	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
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 3000 psi Working Pressure 3 MWP EXHIBIT #1-A

#### **Stack Requirements**

NO.	Items	Mın.	Min.
		I.D.	Nomina
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"

**OPTIONAL** 



CONTRACTOR'S OPTION TO FURNISH:

Flanged Valve

16

- 1. 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.
- 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.
- 2. Wear bushing. If required.

#### GENERAL NOTES:

1 13/16

- 1. 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.
- 10. Casinghead connections shall not be used except in case of emergency.
- 11 Do not use kill line for routine fill up operations.