# District I 1625 N French Dr, Hobbs, NM 88240 District 11 1301 W Grand Avenue, Artesia, NM 88210 District III

I 000 Rio Brazos Road, Aztec, NM 87410

1220 S St Francis Dr, Santa Fe, NM 87505

District IV

#### 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 Submit to appropriate District Office

☐ AMENDED REPORT

APPI	LICATI	ON FC	R PERMIT	TOD	RILL,	RE-F	ENTE	R, DE	EPEN	PLUGBAC	K. OR	R ADI	O A ZONE
Operator Name and Address  Mack Energy Corporation ——								'OGRID Number 013837					
P.O. Box 960 Artesia, NM 88211-0960							30- 025-29025 <sup>API Number</sup>						
3 Property Code 5 Property												6 Wel	
					State	F					1		
		7	acuum;Straw	<sub>n</sub> Ke	eves	re	UN			Propo	sed Pool 2	2	
			_				Locat						· · · · · · · · · · · · · · · · · · ·
UL or lot no	Section 15	Township 18S	Range 35E	Lot	Idn	Feet fr	om the	i .	outh line uth	Feet from the 660	,	East West line County  East Lea	
r	13	100			L			i	l l		Еа	sı	Lea
UL or lot no	Section	Township	8 Prop	osed Bott	Idn Hol	e Loca Feet fr			outh line	Surface Feet from the	EastfWe	st line	County
										r cet irom the			
u Work	Type Code		Wall Tona C		<u>ddition</u>		ell Info e/Rotary	ormati					11 12
	E		12 Well Type C O	ode			tary		14	Lease Type Code S		15 Grou	nd Level Elevation 3897'
	ultiple No		" Proposed De 11,200'	pth			mation awn			9 Contractor			2/15/08
Depth to Grou		<u></u> 5'	11,200	Distanc	ce from ne			vell 100	n'	Distance from	nearest si		
	Synthetic		nils thick Clay	Pıt Vo	lume	bbls			ng <u>Method</u>				1000
Close	d-Loop Syst	tem 🛚						Fresh V	Vater	Brine Diesel/O	l-based	Gas/A	ar 🔲
		ı	2	<sup>1</sup> Propo	sed Ca	sing a	nd Ce	ment	Progran	<u>n</u>		,	
Hole S	ize		ising Size		g weight/	foot		Setting D	epth	Sacks of Ce	ment		Estimated TOC
17 1/2		13 3/8				500		500sx		Surface			
12 1/4 7 7/8		9 5/8 5 1/2				5005	_		2100sx		Surface		
7 770		3 1/2		17, 15.5			11,186	11,180 1970sx		1970sx	508		
	<del>-</del>												
2 Describe the	proposed p	rogram If	this application is	to DEEPE	N or PLU	G BACI	(, give th	e data or	the prese	nt productive zone	and propo	sed new	productive zone
Mack Energ	y corpora	tion prop	gram, if any Use poses to Re-en closed loop sy	ter the O		Ĭ		of 11,2	200' test	the Strawn for	A SOUTH OF A		ell on production.
,	Permit Expires 2 Years From Approval  Date Unless Dritting Underway  Re-Entry  MAR 0 6 2008								, Linker , Erster ,				
		a nave								HUB	BS	0	CD
oftny knowledge and belief I further certify that the drilling pit will be						OIL CONSERVATION DIVISION							
constructed according to NMOCD guidelines \( \) a general permit \( \), or an (attached) alternative OCD-approved plan. \( \)  Signature \( \) \							Approved by:						
Printed name. Jerry W. Sherrell TutlOC DISTRICT SUPERVISOR/GENERAL MANAGER							ACER .						
Title.	Title. Production Clerk						Approval Dale AR 1 3 2008 Expiration Date.						
E-mail Address	s.	jerry	s@mackenerg	gycorp.co	m								
Date.	2/7/0	8	Phone.	(575)74	48-1288	3	Condita	ons of Ap	proval Att	ached			

District I

1625 N French Dr , Hobbs, NM 88240

District 11

811 South First, Artesia, NM 88210

District III

1000 Rio Brazos Rd , Aztec, NM 87410

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

Revised March 17, 1999

Form C-102

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe. NM 87505

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

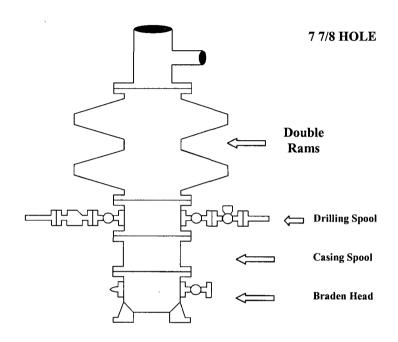
District IV				I CC L	rec Lease - 5 Copies				
, Santa Fe,								DED REPORT	
	WI	ELL LOC			EAGE DEDIC	ATION PLA	Γ		
I Number			' Pool Code	とっしょう		'Pool Name	Reeves	Penn	
25-290	25	-   .	<del>-62310</del>	3200		awn			
de				' Property Na	ime		'Well Number		
.3				1					
'OGRID No				'Е	'Elevation				
013837			N		3897				
		· · · · · · ·		н Surface L	ocation		•		
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
15	18S	35E		660	South	660	East	Lea	
		" Bott	om Hol	e 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	
								:	
" joint or	Infill "Co	onsolidation C	ode " Oro	ler No					
	İ						•		
,	Section	Section Township  Section Township  Section Township	Section Township Range 15 18S 35E  Bottom Township Range 15 Range 15 Range	WELL LOCATION   Pool Code   25-29025   62310	WELL LOCATION AND ACRI Property Na 25-29025  de Property Na Owl Star Operator Na Mack Energy Co Hi Surface L  Section Township Range Lot Idn Feet from the 15 18S 35E 660  "Bottom Hole Location If Section Township Range Lot Idn Feet from the Section Township Range Lot Idn Feet from the Location If	WELL LOCATION AND ACREAGE DEDICATION AND ACRE	WELL LOCATION AND ACREAGE DEDICATION PLA  I Number  25-29025  de  Property Name Owl State  Operator Name Mack Energy Corporation HI Surface Location  Section Township Range Lot Idn Feet from the North/South line Feet from the 15 18S 35E 660 South 660  "Bottom Hole Location If Different From Surface  Section Township Range Lot Idn Feet from the North/South line Feet from the Feet from the Feet from the Surface	AMEN WELL LOCATION AND ACREAGE DEDICATION PLAT  Pool Code 2210  Property Name Owl State  Owl State  Owl State  Owl State  Owl Surface Location  Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line 15 18S 35E 660 South 660 East  Bottom Hole Location If Different From Surface  Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line East/W	

#### 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

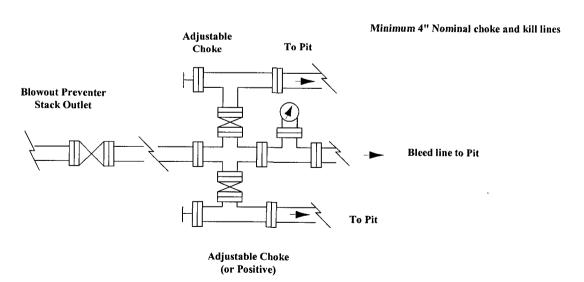
16			OPERATOR CERTIFICATION
			I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill 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 computery pooling order heretofore entered by the division.
			Signature My W. Shenell PrintegName
			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 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
	,		
		3 600'-	
L_		/ 9/	Certificate Number

## **Mack Energy Corporation**

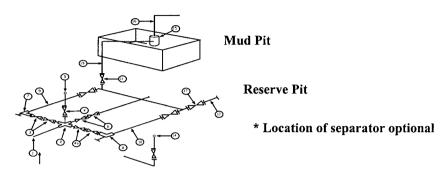
## Exhibit #1-A BOPE Schematic



### Choke Manifold Requirement (3000 psi WP) No Annular Required



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



#### **Below Substructure**

#### Mimimum requirements

			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		7.00.3	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
- 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.

#### EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTION

- 1. All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating.
- 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.
- Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.
- 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.
- 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.

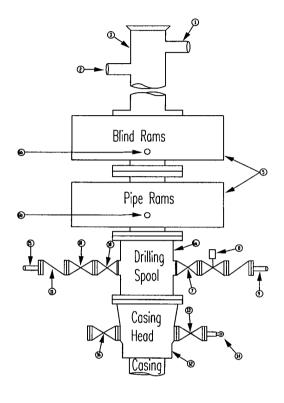
#### **Mack Energy Corporation**

#### **Minimum Blowout Preventer Requirements**

3000 psi Working Pressure 3 MWP **EXHIBIT #1-A** 

Stack Pagniraments

	Stack Requireme		
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" 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**

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, mınımum) 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.
- Extra set pipe rams to fit drill pipe in use on 8. location at all times.
- Type RX ring gaskets in place of Type R

#### MEC TO FURNISH:

- 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
- 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
- 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.
- 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.
- Do not use kill line for routine fill up operations.