Ī	<u>Distřict I</u> 1625 N Fren <u>Dstrict 11</u>				Eı			w Mexico Natural Resc	ources			Form C-101 May 27,2004	
<u>I</u> I	1301 W Gra District III I 000 Rio Bra District IV 1220 S St Fi	azos Road, A	Aztec, NM 8	7410	۰.	1220 Sc	outh St.	on Division Francis Dr. M 87505	S	Submit to ap		District Office	
				· •	, , ,								
APPLICATION FOR PERMIT						TO DRILL, RE-ENTER, DEEPEN; F			<u>; PLUGBAC</u> I	OGRID Number 013837			
ľ			DO I	Mack Energ					30- 025-31	API Nun	nber	013837* - ~	
+	3 Prope	erty Code	 	50X 900 AII	esia, inivi	88211-0960 s Property	Name		30- 023-31		6 Well No		
	6	120				Humb	le State				1	1	
		W;(d		Proposed Pool I Canyon					Propo	osed Pool 2			
r	UL or lot no	Section	Township	Danca		7 Surface		· · · · · · · · · · · · · · · · · · ·	E de la	E		~	
	G	22	Township 17S	Range 37E	Lot		om the 80	North/South line N	Feet from the 1650	East(West li East	ine	County Lea	
L		L		.	 osed Bott			Different From		Duot	I		
	UL or lot no	Section	Township	Range	Lot	1	rom the	North/South line	Feet from the	EastfWest II	ne	County	
Γ	11 Work	Type Code		12 Well Type C		ditional We	<u>ell Infc</u> e/Rotary		+ Lease Type Code		s Ground Leve	Elevation	
		E		0			otary		S	1:	3739		
		ultiple NO		" Proposed De 11,100'	pth		mation iyon		" Contractor		2' Spud E 4/15/0		
ſ	Depth to Grou	indwater 65	I		Distanc	e from nearest fres		ell 1000'	Distance from	nearest surfa			
		Synthetic		ils thick Clay		ume bbls		Drdling Method			100	00'	
		d-Loop Syst							Brine Diesel/O	il-based 🗌 (Gas/Air 🗔 -		
	-		· ,	2	¹ Propos	sed Casing a	and Ce	ment Progra		· · ·	· · ·	· · · · · · · · · · · · · · · · · · ·	
	Hole S	ize	Cas	ing Size		g weight/foot		etting Depth	Sacks of Ce	mont	Entres		
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11			8 5/8		32		4500		1500sx	Sı	urface	· · · ·	
7	7/8		5 1/2		17		11,100		900sx	tie	e back into	o 8 5/8	
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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 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

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

2040 South Pache	co, Santa Fe,	, NM 87505							AMEN	IDED REPORT
		WF	ELL LO	CATION	J AND ACR	EAGE DEDIC	ATION PLA	.т. —		~
'2	API Numbe	r		' Pool Code			'Pool Nam	e		
	-025-316	29		~		wilde	Canyon	1		
' Property	Code				' Property N	ame			'We	ell Number
612	\mathcal{P}	1			Humble S	state				1
'OGRID	No				' Operator N	lame			' r	Elevation
01383	37			N	Aack Energy Co	orporation				3739'
F					н Surface I	Jocation				
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	Vest line	County
G	22	17S	37E		1980	North	1650	East	:	Lea
			" Bott	tom Hole	e Location If	Different Fron	n Surface			
UL or lot no	UL or lot no Section Towns		Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	Vest line	County
" Dedicated Acre.	s joint of	r Infill "Cc	onsolidation C	Jode "Ord	ier No	L				

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	,086		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 compulsary pooling order heretofore entered
		1650'	Signature Printed Name Jerry W. Sherrell Title
			Production Clerk Date 3/24/08 "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 Sea] of ProfessionalSurveyer
u			Certificate Number

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" 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	1
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
- 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
- 5 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. Deviations from this drawing 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
- 3 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 use
- 6 Choke lines must be suitably anchored



- 7. Handwheels and extensions to be connected and ready for use
- 8 Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- 9 All seamless steel control piping (3000 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

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



Reserve Pit

* Location of separator optional

Below Substructure

				IVIIIIIII	ium requ	irements				
			3,000 MWP		-	5,000 MWI	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'	1
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

Mimimum requirements

(1) Only one required in Class 3M

Gate valves only shall be used for Class 10 M (2)

(3)Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTION

- All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating 1.
- All flanges shall be API 6B or 6BX and ring gaskets shall be API RX or BX Use only BX for 10 MWP. 2
- 3. All lines shall be securely anchored

Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available. 4.

Choke manifold pressure and standpipe pressure gauges shall be available at the choke manifold to assist in regulating chokes 5. 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 6 by large bends or 90 degree bends using bull plugged tees