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Work T	ype Code		We	ell Type	Code	Cable	Cable/Rotary Lease Type Code Gr				Grou	Ground Level Elevation			
1	V			0			R		S			3617'			
Mul	ltiple		Pro	posed l	Depth	For	nation		Contractor			Spud Date			
N	lo			4350			eso		LaRue		1/31/02				
							nd Cement								
Hole S		(Casing S		Casir	ng weight/foot	Setting D	epth		of Cemen	t	Estimated TOC Surface			
17 1/2			13 3/8	·····		<u>48</u> 24	350' 800'		Sufficier	irc		Surface			
12 1/4			8 5/8 5 1/2		· · · · · · · · · · · · · · · · · · ·	17	4350	,				Surface			
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	I hereby certify that the information given above is true and complete to the best						ST AL OIL CONSERVATION DIVISION								
of my knowledg Signature	of my knowledge and belief Signature						Approval by: ORIGINAL SIGNED BY THE W. GUM								
Printed name:	Printed name					<u>></u>	Title:								
Title:			a D. C				Approval Date and 1 1 2000. Expinition Lin 1 1 2005								
		Produc	tion A	*			Conditions of Approval:								
Date:	1/9/02			Phone:	(505)748-		Attached								
1/9/02					(202)/10-	<u> </u>									

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DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV P.O. BOX 2088, SANTA FE, N.M. 87504-2088

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State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API	Number		····	Pool Code			·····	Pool Name				
				96610		ast Empire Yeso						
Property	Code			Well Number								
23810				N	12							
OGRID N	0.				Elevation							
01383	7			MA	CK ENI	ERGY	CORP.		361			
		L,,,,,			Surfac	e Loca	ation					
UL or lot No.	Section	Township	Range	Lot Idn	Feet from	m the	North/South line	Feet from the	East/West line	Countr		
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UL or lot No.	Section	Township	Range	Hole Loc					T			
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Dedicated Acres	s Joint o	r Infill Co	nsolidation	Code Or	der No.							
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VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 20 TWP. 17-S RGE. 29-E SURVEY N.M.P.M. COUNTY EDDY DESCRIPTION 910' FSL & 2310' FWL ELEVATION 3617 OPERATOR MACK ENERGY CORP. LEASE MESQUITE STATE

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117

LOCATION VERIFICATION MAP



JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117

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SEC. 20 TWP. 17-S RGE. 29-E SURVEY N.M.P.M. COUNTY____EDDY DESCRIPTION 910' FSL & 2310' FWL ELEVATION _____ 3617 OPERATOR ______ MACK ENERGY CORP.____ LEASE _____MESQUITE_STATE U.S.G.S. TOPOGRAPHIC MAP RED LAKE SE, N.M.

Mack Energy Corporation Exhibit #1 BOPE Schematic



Choke Manifold Requirement (2000 psi WP) No Annular Required

Adjustable Choke

ble

Minimum 4" Nominal choke and kill lines



To Pit

Adjustable Choke (or Positive)

Mack Energy Corporation Minimum Blowout Preventer Requirements 2000 psi Working Pressure 2 MWP EXHIBIT #2

	Stack Requirement	ut3	
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"		2"
	min choke line outlets		Choke
6b	2" min. kill line and 3" min. choke line		
	outlets in ram. (Alternate to 6a above)		
7	Valve Gate	3 1/8	
	Plug		
8	Gate valve-power operated	3 1/8	
9	Line to choke manifold		3"
10	Valve Gate	2 1/16	
	Plug		
11	Check valve	2 1/16	
12	Casing head		
13	Valve Gate	1 13/16	
	Plug		
14	Pressure gauge with needle valve		
15	Kill line to rig mud pump manifold		2"
L	1	I	L

Stack Requirements



OPTIONAL

	OTHOMAD		
16	Flanged Valve	1 13/16	

CONTRACTOR'S OPTION TO FURNISH:

- 1. All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 2000 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.
- Plug type blowout preventer tester.
 Extra set pipe rams to fit drill pipe in
- use on location at all times.
 Type RX ring gaskets in place of
- 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
- 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 hand-wheels or handles ready for immediate use.
- 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.
- 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.

Mack Energy Corporatio...

Exhibit #3 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



Reserve Pit

* Location of separator optional

Below Substructure

			N	limimun	1 require	ments					
		3,0	00 MWP		5,000 MWP				10,000 MWP		
No.		I.D.	NOMINAL	Rating	I.D.	Nominal	Rating	1.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"					1				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'	1		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	

(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.