	urtesia, NM Rd, Aztec, N ta Fe, NM 8	88210-1 JM 874 7504-20	404 10 088	MIT 7	Energy, Min IL CON Santa Operator ack Energ P.O. E		Accountses Departi ON DIVISI 088 7504-2088 TER, DEE ress	PEI	3430/897	nit to A 01112 3 4 15	Ins sppropria State Fee AMEN OR AI OG	ebruar tructio te Dist Lease DED H DD A RID Nu 01383 PI Nur 15 -	7
	0.7		I			H Surface I	ouma State				<u>_</u>		1
UL or lot no.	Section	Town	nship	Range	Lot Idn	Feet from the	North/South I	ine	Feet from the	East/V	Vest line	Cou	ntv
F	16	17	.	30E	200100	2310	North		2310	- ·	Vest		Eddy
	10	L			Bottom I		1	eren	t From Sur	<u> </u>		_ _	Ludy
UL or lot No.	Section	Town		Range	Lot Idn	Feet from the	North/South I		Feet from the	T	Vest line	Сои	nty
	Lo		-	1 Pool 1 Idock 96	5718				Ргороз	ed Pool	2	- I	
Work T	ype Code		v	Vell Type	Code	Cable	ble/Rotary Lease Type Code				Ground Level Elevation		
۲ ۲	J			0		, i	2		S	S 3674			
	tiple		Р	roposed	Depth		nation		Contractor			Spud Date	
N	o			4900		Paddock			LaRue			12/30/00	
				Р	roposec	l Casing ar	nd Cement	Pro	ogram				
Hole S	ize		Casing	g Size	Casir	ng weight/foot	Setting D	epth		of Cemen	t	Estima	ted TOC
17 1/:			13 3			54.5 400		Circ		Surface		ue	
12 1/-				8 5/8		24	1200'		Circ				
7 7/8	}		5 1.	/2		17	4900'	·	Sufficie	nt to Ci	rc		
zone. Describe casing and Note: Or	the blowor N d cement.	nt preve Mack F Drill on str	ntion p Energy to 490 ing, a	rogram, if Corport 00' and t fluid cal	any. Use add ation propo est Paddoc iber will bo	ditional sheets if oses to drill to k Zone, run 5 e run and will	necessary. 400', run 13 3/ 1/2" casing and figure cement	/8" ca d cen with	e present producti asing and ceme nent. Put well 25% excess. at WOC 18 HOI PER RULE 1	nt. Dri on prod tempt t JRS OR	ll to 1200 luction. o circulat	', run 8 e.	3 5/8"
I hereby certify of my knowledg		ormatio	n given	above is t	rue and comp	elete to the best	OI	L(PER RULE 1	U/			
Signature	e and bener	('.	•	$\mathcal{D}($	' - f-		Approval by: O	RIGI	NAL SIGHED	BY TI	M W. G	UM	36A
Printed name:		Cris	sa D.	Carter			Title:	STR	IST II SUPEI			-	
Title:		Produ	iction	Analyst			Approval D	: 0	4 2000	Expinti	on Dst	<u>t V (</u>	4 ZWT
Date:				Phone:			Conditions of App						
	12/1/00 (505)748-1288					1288	Attached						

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

DISTRICT II P.G. Drawer DD, Artenia, NM 88211-0719

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

DISTRICT IV P.O. Box 2068, Santa Fe, NM 87504-2088 State of New Mexic

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

Pool Code	Pool Name	·
96718	Loco Hills Paddocl	c j
-	-	Well Number
Opera	ator Name	Elevation
MACK ENER	RGY CORPORATION	3674
-	96718 Prop HOU Oper MACK ENER	

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	16	17 S	30 E		2310	NORTH	2310	WEST	EDDY

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
Dedicated Acres	Joint or	r Infill Co	nsolidation (ode Ore	ler No.				
40									

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

			OPERATOR CERTIFICATION
	I		I hereby certify the the information
			contained herein is true and complete to the
			best of my knowledge and belief.
			Signature Crissa D. Carter Printed Name
			Production Analyst
		1 1	
			Title 2/1/00
2310'-			Date
2010			
	I		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 supervison, and that the same is true and correct to the best of my bekef.
		1	NOVEMBER 15, 2000
		1	Date Surveyed JLP
		+	Signature & Seal of Professional Surveyor
			W.O. Kurn. 00-11-1432 Certificate No. RONALD J. EIDSON, 3239 GARY G. EIDSON, 12641
1 1	1	• []	
1		1 1	

VICINITY MAP



SCALE: 1'' = 2 MILES

SEC. <u>16</u> TWP.<u>17–S</u> RGE.<u>30–E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>2310'</u> FNL <u>& 2310'</u> FWL ELEVATION <u>3674</u> OPERATOR <u>MACK ENERGY CORPORATION</u> LEASE <u>HOUMA STATE</u>

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



SCALE: 1" = 2000'

SEC. <u>16</u> TWP.<u>17-S</u> RGE.<u>30-E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>2310'</u> FNL <u>& 2310'</u> FWL ELEVATION <u>3674</u> OPERATOR <u>MACK ENERGY CORPORATION</u> LEASE <u>HOUMA STATE</u> U.S.G.S. TOPOGRAPHIC MAP LOCO HILLS, N.M. CONTOUR INTERVAL - 10'

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

Mack Energy Corporation Exhibit #1

BOPE Schematic



Choke Manifold Requirement (2000 psi WP) No Annular Required

Adjustable Choke Minimum 4" Nominal choke and kill lines



To Pit

Adjustable Choke (or Positive)

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

	Stack Requirement	1	
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"

Stack Requirements



OPTIONAL

Flanged Valve 1 13/16

CONTRACTOR'S OPTION TO FURNISH:

16

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

Blowout Preventers

Mack Energy Corporation

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

Mimimum requirements

		3,0	00 MWP		5,000 MWP				10,000 MWP		
No.		1.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"	1	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

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.

- 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.
- 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.