District I PO Box 1980, Hobbs, NM 88241-1980 811 S. 1st Street Artesia, NM 88210-1404

State of New Mexico Energy, Minerals & Natural Resourses Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-101 Revised February 10, 1994 Instructions on back Submit to Appropriate District Office

State Lease - 6 Copies Fee Lease - 5 Copies

AMENDED REPORT

1000 Rio Brazos Rd, Aztec, NM 87410 District IV

PO Box 2088, Santa Fe, NM 87504-2088

					Name and Add				Т		DD A ZONE
			M	_	y Corporation	. • • • • • • • • • • • • • • • • • • •					013837
					30x 960				F		PI Number
			A	rtesia, NM	188211-0960].	30-DX	5-3597
Proper	ty Code				Pr	operty Name					Well No.
304	27			_	Sa	pphire State			<u>.</u>		1
					Surface	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South 1	ine	Feet from the	East/W	est line	County
L	11	23S	36E		2310	South		330	N	Vest	Lea
	-	Prop	osed E	Bottom 1	Hole Locat	ion If Diffe	erent	From Sur	face		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South I	ine	Feet from the	East/W	est line	County
					L						<u> </u>
121	,	Proposed	Pool 1					Propos	ed Pool 2		
Wild	cat	Ab)								
Work T	pe Code	<u> </u>	/ell Type	Code	Cable	/Rotary		Lease Type Co	ode	Ground	d Level Elevation
ľ	ī		0			R		S		3444'	
	tiple	P	roposed I	Depth	ļ	nation		Contractor		Spud Date	
N	0		8100'		A	bo		LaRue			9/15/02
	<u> </u>	I			l Casing ar	nd Cement	Pro	gram			
Hole S	ze	Casing	Size	Casi	ng weight/foot	Setting D	epth	Sacks of	of Cement		Estimated TOC
17 1/	2	13 3	/8		48	300' Circ		irc		Surface	
12 1/	4	8 5.	/8		24	1200		Sufficient to Cir		rc	Surface
7 7/8		5 1.	/2		17	8100	•	Sufficie	nt to Cir	rc	Surface
Duccribe the n	conosed pro	gram If this a	nnlication	is to DEEP	EN or PLUG BA	CK give the data	on the	present producti	ve zone ai	nd propose	d new productive
	the blowou	t prevention p	rogram, if	any. Use ad	ditional sheets if	necessary.					
			-			300', run 13 3)', run 8 5/8"
casing an	d cement.	Drill to 81	00' and t	est the Ab	o Zone, run 5	/2" casing and	ceme	nt. Put well o	n produ	ction.	
										,	
Note: Or	Producti	on string, a	fluid cal	iber will b	e run, will fig	are cement, wi	th 259	% excess, atte	mpt to c	irculate.	
					Permit E	xpires 1 Ye	ar F	rom Appro	val		
						Unless Dril					
		·									
		/ }	above is t	rue and comp	plete to the best	OI	LC	ONSERVA	TION	DIVIS	SION
of my knowledg Signature	e and belief	•	D/	! -(-	-	Approval by:	,		IIGINA I	r	D BY,
Printed name:		liax.		<u>~ ~ ~ </u>		Title: Ai	, U	0 1 00	<u>-27.01.</u> - 1. 31	F KAU M ENG	-
	Crissa D. Carter					Approval Date: Expintion Date Expintion Date					
Title:		Production					aro::-1				
Date:	0/22/22		Phone:	(505)740	1200	Conditions of Approval: Attached					
	8/22/02 (505)748-1288										

State of New Mexico

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

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994

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

OIL CONSERVATION DIVISION

Submit to Appropriate District Office

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

P.O. Box 2088 Santa Fe, New Mexico 87504-2088 State Lease - 4 Copies Fee Lease - 3 Copies

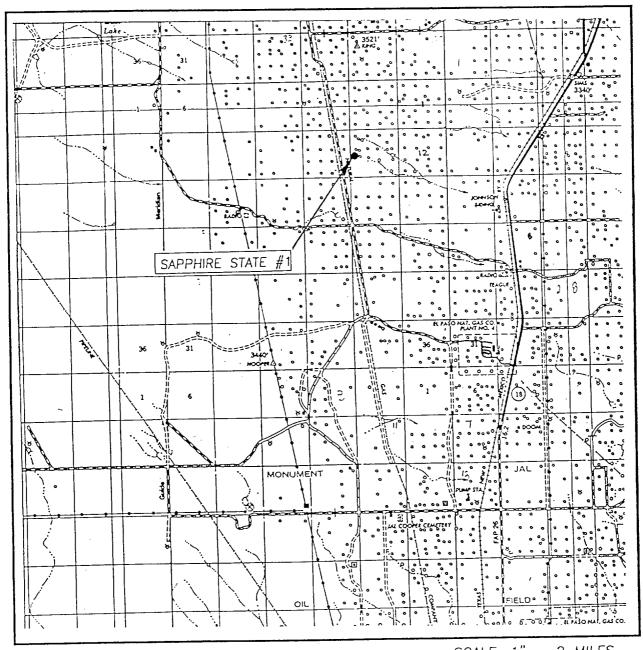
DISTRICT IV P.O. BOX 2088, SANTA FE, N.M. 87504-2088	WELL LOCATION AND	ACREAGE DEDICATION	PLAT	□ AMENDED REPORT
API Number	Pool Code	12:41	Pool Name	
30-025-35979	97019	Wildcat Abo		
Property Code	Prop	erty Name		Well Number
13 837	SAPPH	IRE STATE		1
OGRID No.	Open	ator Name		Elevation
013837	MACK ENERG	Y CORPORATION		3444'
	o •	T		

Surface Location North/South line UL or lot No. Section Township Range Lot Idn Feet from the Feet from the East/West line County 23 - S2310 11 36-E SOUTH 330 WEST LEA Bottom Hole Location If Different From Surface UL or lot No. Lot Idn Feet from the North/South line Section Township Range Feet from the East/West line County Dedicated Acres Joint or Infill Consolidation Code Order 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 hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
	Signature Cate
	Crissa D. Carter Printed Name
	Production Analyst
	8/22/2002 Date
	SURVEYOR CERTIFICATION
330'	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 belief.
	AUGUST 12, 2002
	Date Surveyed AWB Signature & Seal of Professional Surveyor
	Ronald Englan 2/12/02
	Certificate No. RONALD FIDSON 3239 GARY FIDSON 12641
	M. M

VICINITY MAP



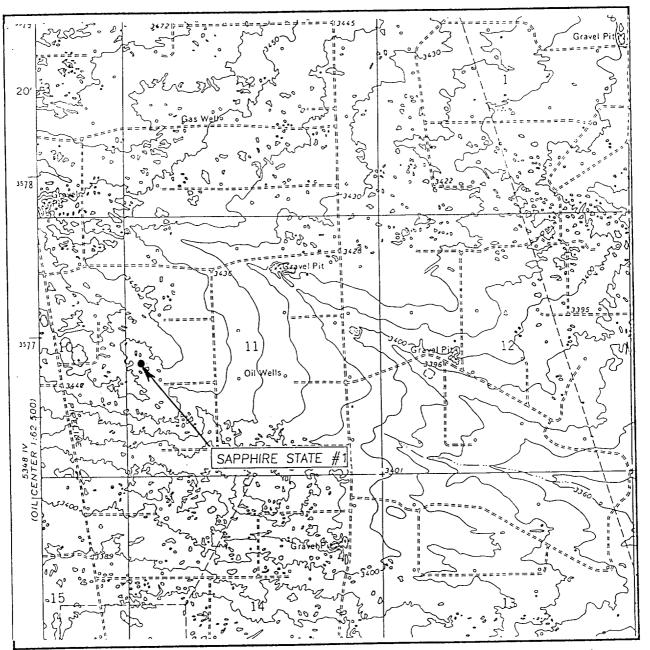
SCALE: 1" = 2 MILES

SEC. <u>11</u>	TWP. 23-S RGL. 36-E
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTIO	N 2310' FSL & 330' FWL
ELEVATION	3444'
OPERATOR.	MACK ENERGY CORPORATION
	SAPPHIRE STATE

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



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

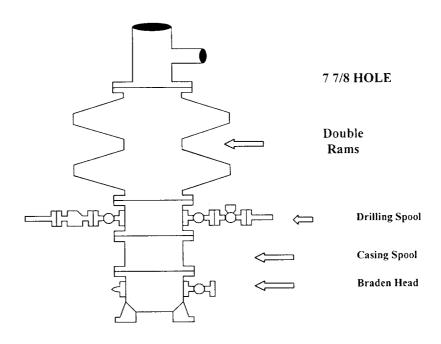
CONTOUR INTERVAL: 10' RATTLESNAKE CAYON, N.M.

SEC. 11	TWP. <u>23-S_</u> RGE. <u>_36-E</u>
SURVEY	N.M.P.M.
COUNTY_	EDDY
DESCRIPT	ION 2310' FSL & 330' FWL
ELEVATION	V3444'
OPERATOR	R MACK ENERGY CORPORATION
LEASE	SAPPHIRE STATE
	TOPOGRAPHIC MAP

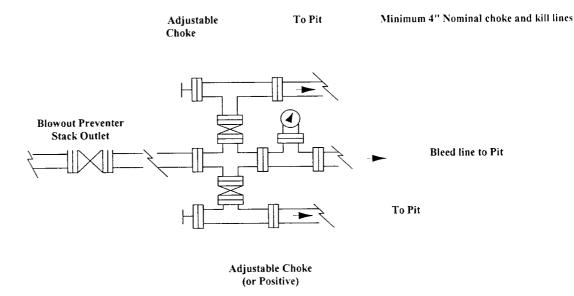
JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117

Mack Energy Corporation

Exhibit #1 BOPE Schematic



Choke Manifold Requirement (2000 psi WP) No Annular Required



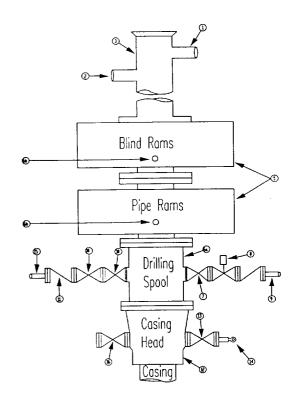
Mack Energy Corporation

Minimum Blowout Preventer Requirements

2000 psi Working Pressure 2 MWP EXHIBIT #2

Stack Requirements

	Stack Requirement	1115	
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 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.
- 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.

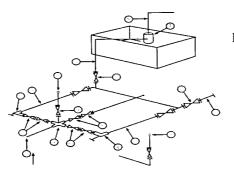
GENERAL NOTES:

- 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.
- 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.
- 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.
- 9. 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 Corporation Exhibit #3

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



Mud Pit

Reserve Pit

* Location of separator optional

Below Substructure

Mimimum requirements

			N	Aimimun	ı requirei	ments					
		3,00	00 MWP		5,000 MWP				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'		
16	Line		4"	1,000		4"	1,000	<u> </u>	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.
- 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.

ABOVE DATE DOES NOT INDICATE WHEN CONFIDENTIAL LOGS
WILL BE RELEASED