Oistnet I 1625 N. French Dr , Hobbs, NM 88240

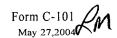
District IV

Dstrict 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

State of New Mexico Energy Minerals and Natural Resources

MAR 16 2009



Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit to appropriate District Office

☐ AMENDED REPORT

<u> </u>	<u> JCATI</u>	<u>ON FOR</u>	<u>R PERMIT</u>	TO DE	<u>RILL, RE-E</u>	ENTER, DE	EPEN,	<u>PLUGBAC</u>	<u> K. Of</u>	<u>r adi</u>	<u>) A ZONE</u>	
·			Operator Name Mack Energy						'OGRID	Number	013837	
		P.O. B	ox 960 Arte					30-005	3 API 1	Number 1	09	
Prope	rty Code	\neg			s Property					6 Wel	l No	
5	<u> کی ۱</u>	<u> </u>	roposed Pool I		Runwa	y SWD					1	
			VD;Devonia	ı				Propo	sed Pool	2		
			-		7 Surface	Location						
UL or lot no.	Section	Township	Range	Lot I				Feet from the	East(We	est line	County	
В	20	14S	29E	66	0 No	orth	1980	Ea	st	Chaves		
			8 Prope	m Hole Locat	ion If Differen	t From S	urface					
UL or lot no				Lot I	dn Feet fro	om the North/S	outh line	Feet from the	EastfWe	est line	County	
				Ad	ditional We	ll Information	on					
	Type Code		12 Well Type Co		" Cable	/Rotary		Lease Type Code			nd Level Elevation	
	N ulturla		S "Proposed Dor	×41v		tary		S			3764' GR	
	ultiple No		" Proposed Dep 11,750	AH		nation Onian		9 Contractor			r Spud Date 4/15/09	
Depth to Grou	ndwater 65			Distance	from nearest fres		0'	Distance from	nearest s	urface wa	ter 1000'	
	Synthetic	_	ls thick Clay	Pit Volu	ıme:bbls	Drdlıı	ng <u>Method</u>					
Close	d-Loop Syst	tem 🔀			•	Fresh V	Water 🛛 F	Brine Diesel/Oi	il-based	☐ Gas/A	ir 🗌	
	,		2	l Propos	ed Casing a	nd Cement	Progran	n				
Hole S	ıze	Casi	ng Size	Casing	weight/foot	Setting D	Setting Depth Sacks of Cement			Estimated TOC		
17 1/2		13 3/8		48					Surfac			
12 1/4		8 5/8		32	2 1800			800sx		Surface		
7 7/8		5 1/2		17		10,750' 2500sx				Surface		
											,	
2 Describe the	proposed r	rogram. If th	is application is	to DEEPEN	Vor PLUG BACE	give the data or	n the preser	I productive zone	and prope	sed new	productive zone	
											n 8 5/8 casing and	
маск Energ cement. Dril						asing and cer	nent. Dri	II a 12 1/4 hoi	e to 18	oor, rui	n 8 5/8 casing and	
coment, Din	14 / 7/0	11010 10 10,	750,141151.	2 casing	and coment.							
	*	Pern	- tin	to	drill	onlu	. 1	Must	797	Zej\	16	
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	Admi	n-Su	D C	nder	- Fro	\sim \sim \sim	ω	a Fe p	Y YCY	- +C)	
			injec	tion	١.			·				
					plete to the best							
			certify that the				OIL C	ONSERVAT	ION D	IVISI	ION	
			proved plan.		ımıt 🗀, vi	Approved by:	/		1	\mathcal{I}		
Signature		my a	1. Sher	rell			(lacaiú	$_$ $\!$	eeu		
Printed name.	/	<u> </u>	Jerry W. She	rrell		Title [.]	,	Goolo				
Title [.]		Pro	duction Cler	K		Approval Date.	4/5	1/0	O epiration l	1	1/8/2011	
E-mail Addres	s:	jerrys	@mackenerg	gycorp.co	m		·	• •				
Date:	3/13/0)9	Phone:	(575)74	18-1288	Conditions of A	pproval Atta	ached 🖾 🔥	Josed	al	00V1R	

State of New Mexico

DISTRICT I 1625 N. FRENCH DR., HORBS, NM 88240

Energy, Minerals and Natural Resources Department

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

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

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT ☐ AMENDED REPORT 1220 S. ST. FRANCIS DR., SANTA PE, NM 87505 API Number Pool Code Pool Name 96101 SWD; Devonian Property Code Property Name Well Number RUNWAY SWD 1 OGRID No. Operator Name Elevation 013837 MACK ENERGY CORPORATION 3764

Surface Location

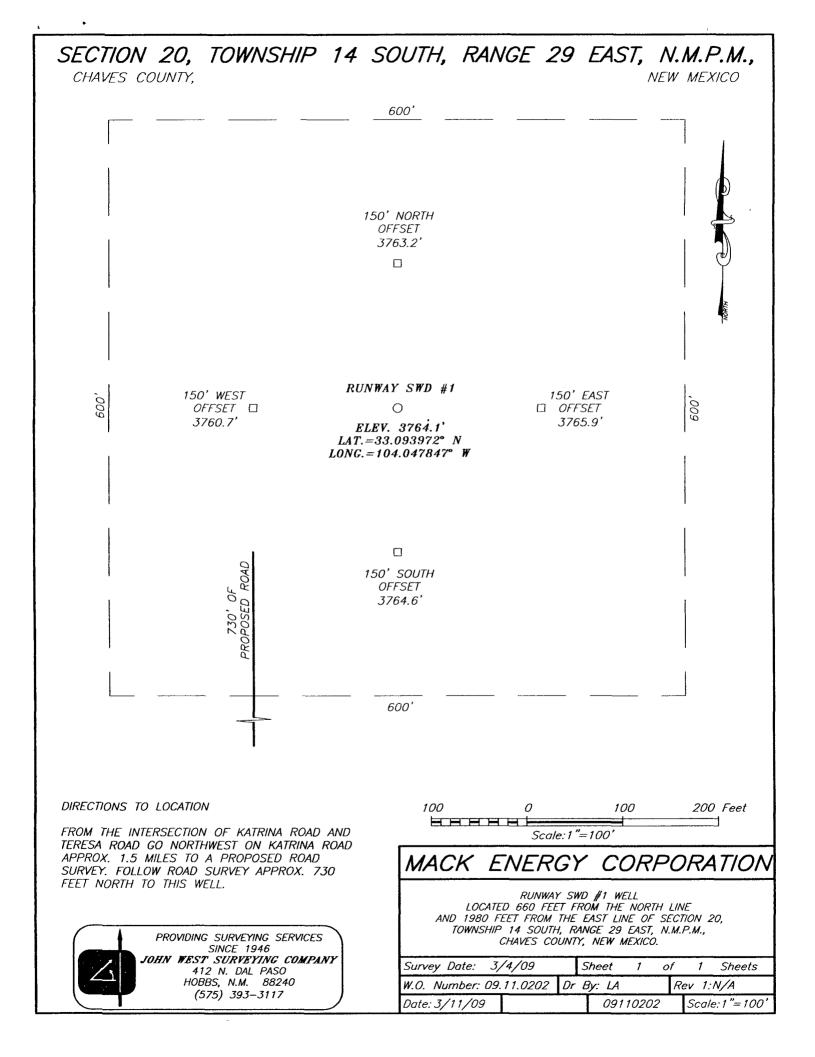
į	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	В	20	14-S	29-E		660	NORTH	1980	EAST	CHAVES

Bottom Hole Location If Different From Surface

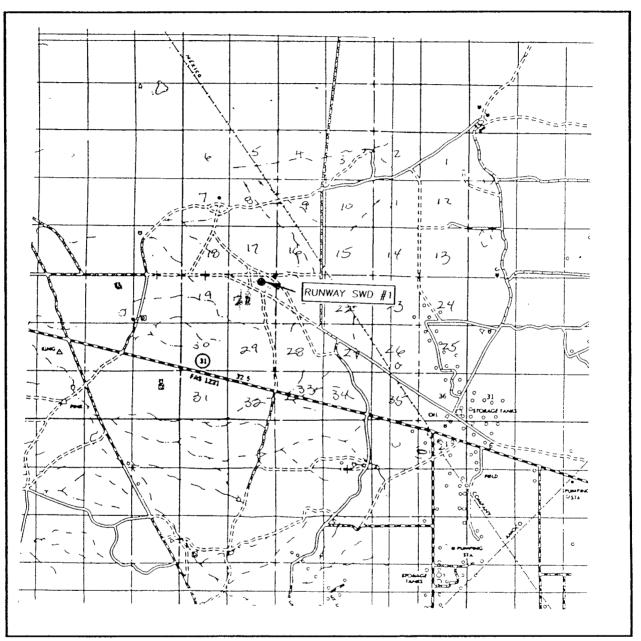
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	or Infill Co	onsolidation	Code Or	der No.				1
40									

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

1980'	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 compulsory pooling order heretofore entered by the division.
GEODETIC COORDINATES NAD 27 NME	Signature Shend 3/13/09 Date
Y=761820.5 N X=587432.7 E	Jerry W. Sherrell Printed Name
LAT.=33.093972* N LONG.=104.047847* W	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 Surveyed (Signature & Seal of Professional Surveyor9 () () () () () () () () () (
	Certificate No. RONALD EIDSON 3239



VICINITY MAP



SCALE: 1" = 2 MILES

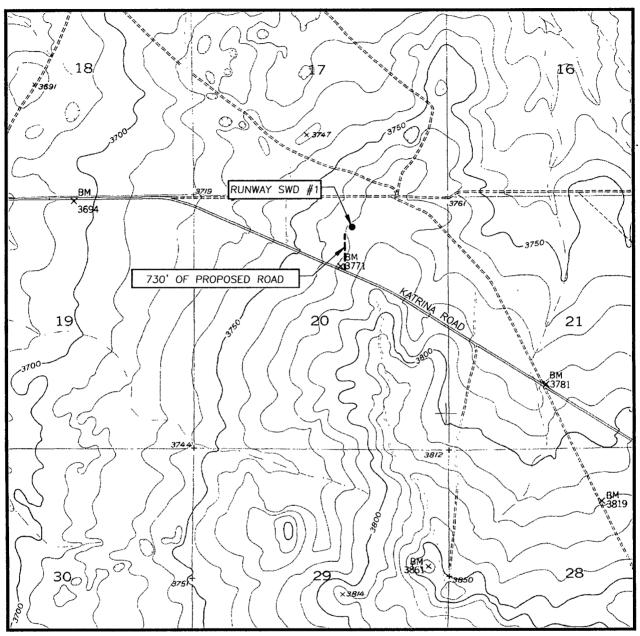
SEC. 20 TW	P. <u>14-S</u> RGE. <u>29-E</u>
SURVEY	N.M.P.M.
COUNTY_CHAV	VES STATE NEW MEXICO
DESCRIPTION_6	660' FNL & 1980' FEL
ELEVATION	3764'
OPERATOR:	MACK ENERGY CORPORATION
LEASE	RUNWAY SWD



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(575) 393-3117



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: KING CAMP, N.M. - 10'

SEC. 20 TWP. 14-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY CHAVES STATE NEW MEXICO

DESCRIPTION 660' FNL & 1980' FEL

ELEVATION 3764'

MACK ENERGY
CORPORATION

LEASE RUNWAY SWD

U.S.G.S. TOPOGRAPHIC MAP
KING CAMP, N.M.



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(575) 393-3117

Mack Energy Corporation Minimum Blowout Preventer Requirements

3000 psi Working Pressure 3 MWP EXHIBIT #1-A

Stack Requirements

	Stack Acquireme	71145	
NO.	Items	Mın.	Min.
		ID.	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	

ITD A CTOD'S ODTION TO ELIDNISH. GENERAL NOT

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.
- 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
- 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
- All valves to be equipped with handwheels or handles ready for immediate use.
- 6. Choke lines must be suitably anchored.

Handwheels and extensions to be connected and ready for use.

ANNULAR PREVENTER

Blind Rams

Pipe Rams

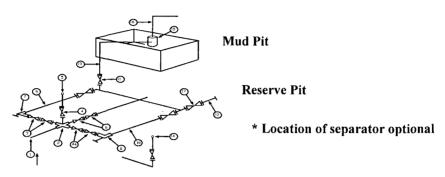
Drilling Spool

Casing Head Casing

- Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- All seamless steel control piping (3000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted
- permitted

 10. Casinghead connections shall not be used except in case of emergency.
- 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



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			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. (3)

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTION

- 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.
- 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.