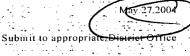
District I 1625 N. French Dr., Hobbs, NM 88240 <u>Dstrict 11</u> 1301 W. Grand Avenue, Artesia, NM 88210, -1 000 Rio Brazos Road: Aztec, NM 87410 District IV

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr.



☐ AMENDED REPORT

		<u>JN FO</u> F	<u>CPERMII I</u>	<u>O DRILL</u>	<u>. RE-</u> E	NTER.	DEEPEN.	PLUGBAC	CK. OR A	DD A ZONE
			Operator Name an - Mack Energy C	nd Address Corporation		,			2. OGRÍÐ Nu	nber 013837
			P.O. Box Artesia, NM	.960		•		30- 15	- 3 API Nymb	889
3 95 8	y Code				s Property T Dark Can	Name yon SWI)	2/2	. 6	Well No. T
			roposed Pool 1. D; Ellenburger	9610	 ┐ろ			Propo	osed Pool 2	
			z, zneneu ge			Locatio	<u> </u>			
IL or lot no. B	Section 3	Township 23S	Range 23E	Lot Id	Feet fro	om the	lorth/South fine North	Feet from the 2630	East/West line East	County Eddy
			8 Propose	d Bottom H	ole Locat	ion If Dif	ferent From S	urface		
L or lot no.	Section	Township	Range	Lot Id	Feet fro		lorth/South line	Feet from the	East/West line	e County
	بل ،	7	* / .	Additio	nal We	ll Inform	nation	· · · ·		
ıı. Work Type Code New Well			12 Well Type Code SWD	ridanie		le/Rotary		Lease Type Code State	- 15 (Ground Level Elevation 4227'
16 Mul			17. Proposed Depth 12,300'			rmation ourger		19. Contractor		20. Spud Date 12/17/2012
epth to Ground	dwater		The first of the second of the	Distance from	nearest fres	h water well	ga sajada ma	· Distancé fron	n nearest surface	e water "
Hole Siz		Casi 13.375 8.625	ing Size 48	 		400' 2600'	ing Depth.	Sacks of Co 750sx 1700sx	0 · · · · · 0 ·	Estimated TOC
375 -	· .	5.5		7		12,300'		1725sx	0	
escribe the bloack Energy	owout prev Corpora	ention progration prope		litional sheets i 7 1/2" hole	f necessary to 400', r	un 13 3/8	" casing and	cement. Drill a	a 12 1/4" ho	new productive zone. le to 2600', run 8 5
	· ···· • • ·	- 	ene en		Number of the state of the stat		en de la companya de La companya de la co		RECE	EIVED
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A Page 1 Table 1	* *		,						MOCD	ARTESIA
erie per en										
	-		given above is true	•						
ftny knowledg onstructed ac in (attached)	ge and beli	of I further NMOCD g	given above is frue certify that the di quidelines \(\subseteq \) a ge proved plan. \(\subseteq \)	rilling pit will,	bę.	Approved		ONSERVAT	TION DIV	ISION
ftny knowledg onstructed ac	ge and beli	of I further NMOCD g	certify that the dudled	rilling pit will neral permit [bę.	Approved		ONSERVATO MAJASA	TION DIV	ISION

Conditions of Approval Attached 🔽

Phone:

575-748-1288

District I

1625-N. French Dr., Hobbs, NM 38240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811'S.-First St., Artesia, NM 88210 Phone: (575) 748-1233 Fax: (575)-748-9720.

В

3

23 S

23 E

District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

EDDY

EAST

WELL LOCATION AND ACREAGE DEDICATION PLAT

ئا مما	Ari Numbe	' Las Core	¬	root Cour	١		F 001 :Na	me		
30-0	15- 4	10887	96	103 ·		SWD; Elle	nburger	•		
Property	Code				5 Property	Name		6	Well Number	
3952	86				DARK CANY	ON SWD	•		1	
OGRID No.						⁹ Elevation				
13837 MACK ENERGY CORPORATION						4227.6				
	¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	

330 NORTH 2630

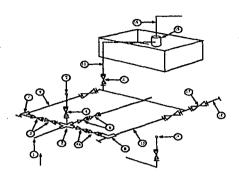
	•	<u>~</u>	n I	Bottom H	ole Location	If Different Fro	om Surtace		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
									•
`	<u> </u>		<u> </u>	<u> </u>			li		
12 Dedicated Acres	s ¹³ Joint o	r Infill 📑 C	Consolidation	Code 15 Oi	rder No.				
10/10	-			'					
1 40 103	'			ŀ				•	

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.

	N89'51'4	4"W 2641.98 FT	N89'52'50"W	2641.04 FT		" OPERATOR CERTIFICATION
	NW CORNER SEC. 3	N/4. CORNER SEC. 3				I hereby certify that the information contained herein is true and complete
∦ .	LAT. = 32.3399880'N LONG. = 104.5962218		2630'.			to the best of my knowledge and belief, and that this organization either
1	NMSP EAST (FT)	NMSP EAST (FT)	7	NE CORNER SEC. 3		owns a working interest or unleased mineral interest in the land including
	N = 487503.14 E = 418807.99	N = 487496.73 E = 421449.25		LAT. = 32.3399896'N LONG. = 104.5791208'W		the proposed bottom hole location or has a right to drill this well at this 2 -
S00:00	L = 418607.33	£ = 421449.20	SURFACE LOCATION	NMSP EAST (FT)	NO NO	location pursuant to a contract with an owner of such a mineral or working
8			DARK CANYON SWD	N = 48749116	9	interest, or to a voluntary pooling agreement or a compulsory pooling
£9.			ELEV. = 4227.6'	" = +2+069.57	40"	order heretofore entered by the division.
		 	, LAT. = 32.33908091 LONG = 104.58763	<u> (NAD27)</u>	'''	1) 00 100 11 Paren 12 11 12
265			I-NMSP EAST (FT)).	2639	DeanaWlaver 12 11 12
2654.5			N = .487166.75		39.00	Signature Date
=			E ₋ = 421459.19		Ō	Deana Weaver
_		. 1			-	Printed Name
		•	1	1		dweaver@mec.com E-mail Address
· ·	W/4 CORNER SEC. 3		da a de estada estada en estad Estada en estada en	E/4 CORNER SEC. 3		t man macs
- ي	LÁT. = 32.3326933 N		T	LAT: = 32.3327374'N	/ ·	
٠٠	LONG.,= 104.5961990' NMSP EAST (FT).	W	The state of the s	LONG. = 104.5791156 W NMSP EAST (FT)		"SURVEYOR CERTIFICATION
	N = 484849.46	NOTE:	· · · · ·	N .= 484852.99		-I hereby certify that the well location shown on this
	E = 418808.53	LATITUDE AND LONGITUDE		E = 424085.12		plat was plotted from field notes of actual surveys
00.1	·	COORDINATES ARE SHOWN USING THE NORTH		i	00	made by me or under my supervision, and that the
10,		AMERICAN DATUM OF 1927 (NAD27), AND ARE IN	1		V00'08'02	same is true and correct to the best of my belief.
W.9		DECIMAL DEGREE FORMAT.	 ·		02 E	Same is the gam correct to the ocal of my ocal.
		-+		 		
263)		2640.8	OCTOBER 19/2012
6.8			;	·	0.8	Date of Survey
7 FI	CW 000HED 050 7	044.000	50.050.3	05 000,50 050 3	1	1 / Joseph 1 / 1/200 - 10/1/2
. '	SW CORNER SEC. 3 LAT. = 32.3254470'N		IER SEC. 3 	SE CORNER SEC. 3		Think The bijule
-	LONG. = 104.5962051	W -1 LONG. =- 10	14.5876756'W	LONG = :104.5791163'W	1	Signature and Sod of Profestional Surveyor
ŀ	NMSP. EAST (FT) \cdot		AST (FT) = "	NMSP EAST (FT)		Certificate Number FILATION F. JARAMIELO, PLS 12797
.	E = 418800.17	E. = -42	1.434.91.	E = 424078.86		SURVEY NO. 1320
<u>. </u>	. S89'58'38	3"E. 2635.46 FT	N89'59'00"E	2644.66 FT		

Mack Energy Corporation Exhibit #2

Exhibit #2
MIMIMUM CHOKE MANIFOLD
3,000, 5,000, and 10,000 PSI Working Pressure
3M will be used
3 MWP - 5 MWP - 10 MWP



Mud Pit

Reserve Pit

* Location of separator optional

Below Substructure

Mimimum requirements

vilmimum requirements										
<u></u>			00 MWP	T		000 MWP		10	0,000 MWP	
No.		I.D.			I.D.			I.D.		
			Nominal	Rating		Nominal	Rating		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"			t 6.5×22.4						-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"	m. s. un.	. 3,000	2"		5;000	2"		10,000
8	Adjustable Choke	l"		3,000	l"		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
:1t ·	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	-3 1/8	A DESCRIPTION OF THE PROPERTY	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

- 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.

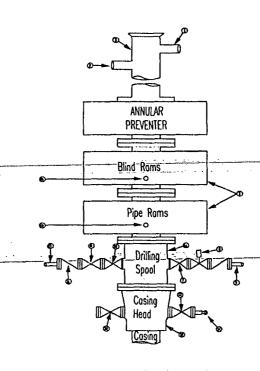
- 4. Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.
- alternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the standpipe pressure gauge.
- Line from drilling spool to choke manifold should bee as straight as possible. Lines downstream from chokes shall make turns
 by large bends or 90 degree bends using bull plugged tees

Mack Energy Corporation Minimum Blowout Preventer Requirements

3000 psi Working Pressure 13 3/8 inch- 3 MWP 11 Inch - 3 MWP EXHIBIT #1

Stack Requirements

	Stack Requireme	1113	
NO.	Items	Min.	Min.
l		I.D.	Nominal
l	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	_3.1/8	
	Plug		A
8	Gate valve-power operated	3 1/8	
9	Line to choke manifold		3"
10	Valve Gate Plug	2 1/16	
11	Check valve	21/16	
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	
	<u> </u>		

ME

CONTRACTOR'S OPTION TO 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 gallons, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
- 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.
- Type RX ring gaskets in place of Type R.

MEC TO FURNISH:

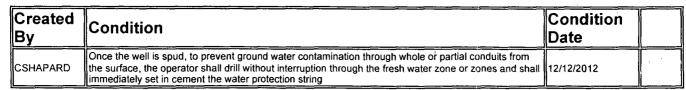
- 1. Bradenhead or easing head and side valves.
- 2. Wear bushing. If required.

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.

- 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.
- 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.
- Does not use kill line for routine fill up operations.





UserID	Condition	
CSHAPARD	^	[Add]
	The state of the s	

https://wwwapps.emnrd.state.nm.us/OCD/OCDPermitting/SubmitForm/C101/Review/C1... 12/12/2012