District.1
1625 N. French Dr. Hobbs NM. 88240
Phone: (575) 393-0161 Fax: (575) 393-0720
District.1
811 S. First St., Artesia, NM. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District.11
1000 Rio Brazos Road, Aztec, NM. 87410
Phone: (505) 334-6174 Fax: (505) 334-6170
District.1V
1220 S. St. Francis Dr., Santa Fe, NM. 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

Printed name Deana Weaver

E-mail Address dweaver@mec.com

Phone 575-748-1288

Title Production Clerk

Date

State of New Mexico

Form C-101 Revised July 18, 2013

RECEIVED | On Canada Natural Resources

JAN 09 2014

1220 South St. Francis Dr.

Santa Fe, NM 87505

☐AMENDED REPORT

4

Expiration Date:

NMOCD ARTESIA

A PPI I	CATIO	N FOR	PERMIT	TO DR	ZILL, RE-EN	ITER DE	EPEN PI	UGRAC	'K' (OR ADI) 4 70NF	
711111	CATIO.	NIOR	Operator Nan			HER, DE	111,111,11	70 GD/30		IRID Numb	er	
Mack Ene P.O. Box			88211-0960					30-00	05	Pl. Number	013837	
	177319	7	Airplane SV	WD	Property N	Jame		<u> </u>	1	Wel	II No.	
	~~/ -/		<u> </u>		Surface Lo	ocation						
UL - Lot	Section	Township	S "	Lo	ot Idn Feet fr		I/S Line	Feet From		E/W Line	County	
I ,	32	14S	29E		1320 roposed Botton	South)	East	· •	Chaves	
UL - Lot	Section	Township	Range		ot Idn Feet fr		I/S Line	Feet From		E/W Line	County	
L			,		Pool Inform	mation					<u></u>	
SWD; Miss	ツー FO: sissippian,	5- MO Woodfe	N-SM) – EU 1 , Montoy	Pool Name	enburge r					97775	
			_	A	dditional Well	Information	1			÷		
Work Drill	k Type	SWD		Cable/R	otary	tary LeaseType Ground Level E S 3782'				nd Level Elevation		
NO	Itiple	11,70			Format Mississippian, Woodt Montoya, Simpson, E	llenburger		ntractor		2/1/2014_	Spud Date	
Depth to Grou	und water		D	istance from	n nearest fresh water	well	7	Distance	e to nea	arest surface	water	
We will b	e using a c	losed-loop	p system in lie		pits	Cement Pr	ogram					
Type	Hole	e Size	Casing Size		asing Weight/ft		g Depth	Sacks of	f Ceme	nt	Estimated TOC	
H-40	17 1/2	2 1	3 3/8	48	<u> </u>	200		250sx		0	0	
J-55	12 1/4		5/8	24		2280		1000sx		0	0	
P-110	7 7/8	5	1/2	17		11700		1600sx		0		
			Ca	sing/Cem	nent Program: .	 -	Comments					
Mack Energy propo	oses to drill a 17	1/2" hole to 20	00', run 13 3/8" casing	g and cement. Γ	Orill a 12 1/4" hole to 228()', run 8 5/8" casing	and cement. Drill a	7 7/8" hole to 11,70	00', run 5	1/2" casing and	cement. Put well on injection.	
			<u>·</u>	Propose	ed Blowout Pre	evention Pr	ogram	- <u></u>		·		
	Туре			Working	Pressure	Test Pressure			Manufacturer			
Double Ran	n		3000			3000						
										1		
best of my kn	nowledge and	nd belief	on given above i				OIL CO	ONSERVA	TIOI	N DIVIS	ION	
I further cer 19.15.14.9 (E Signature:	B) MACE	if applie	lied with 19.15. cable.		MAC 🛭 and/or	Approved B	y: //	Ohnus		•		

Title

Approved Date:

Conditions of Approval Attached

District 1 1625 N. French Dr., Hobbs, NM \$8240 Phone: (575) 393-6161 Fav: (575) 393-0720 District II \$11 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

Phone: (575) 748-1283 Fax: (575) 748-9720 District IIII 1000 Rio Brazos Road, Aztec, NM 57410 Phone: (505) 334-6178 Fax: (505) 334-6170

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

District IV

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

		W	ELL LO	<u>DCATIO</u>	<u>n and acf</u>	REAGE DEDIC	CATION PLA		
30-00	VPI Number	4189		Pool Cod	A	; Mississipp	¹PoolN: ian, WoodF		oson, Ellenburge Zonian, Montoya
Property C	Code				5 Property	000	-FUS- M	910-5111	P Civel Number
<u> </u>					AIRPLAN	E SWD	51	٥	l .
⁷ OGRIDA	No.				8 Operator	Name	-		⁹ Elevation
13837			MACK ENERGY CORPORATION 3782.1						
					" Surface	Location			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line County
I	32 14 S 29 E 1320 SOUTH 760 EAST						Γ CHAVES		
			" E	Bottom H	ole Location	If Different Fro	om, Surface		
UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West	line County
12 Dedicated Acres	Joint o	r Infill 14 C	onsolidation	Code 15 O	rder 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.

F					·			"OPERATOR CERTIFICATION
	N89°21'34"E	2638.90 FT	N89'13'27"E				1	Thereby certify that the information contained herein is true and complete
	NW CORNER SEC. 32		R SEC. 32		CORNER S			
Ϊ	LAT. = 33.0665601'N		0666219'N		= 33.066 = 104.04		ĺ	to the best of my knowledge and belief, and that this organization either
l	LONG. = 104.0589187'W	LONG, = 10 NMSP	4.000074 W FAST		NMSP	EAST		owns a working interest or unleased mineral interest in the land including
∥	N = 751838.32	N = 75	1867.79	I	N = 75			the proposed bottom hole location or has a right to drill this well at this
L	E = 584067.84	E = 58	6705.89	ĺ	£ = 56	9344.22	180	location pursuant to a contract with an owner of such a mineral or working
-				İ			500.42	interest, or to a voluntary pooling agreement or a compulsory pooling
405	{		, (i			05	order heretofore entered by the division.
č	<u> </u>	L	· 	! 			Lui,	Nous Delacused 1711
Į.	J 	NOTE:		F			276	Sandflaver 1.1.14
5.		LATITUDE AND LONGITUD SHOWN USING THE NOR		1			764	Signature Date
:	• [OF 1927 (NAD27). NEW PLANE EAST COORDINATI	MEXICO STATE				.93	Deana Weaver
2		NAD27 DATUM.	SALE SHOWN IN	į.			2	Printed Name
-				ļ				, ,
	W/4 CORNER SEC. 32							dweaver@mec.com
	LÁT. = 33.0594045'N				CORNER			E-mail Address
	LONG. = 104.0589703'W				. = 33.05 . = 104.04		1	
	N = 749234.92				NMS	EAST	1	*SURVEYOR CERTIFICATION
	E = 584058.84			/	N = 74	9135.68 39378.03	1	I hereby certify that the well location shown on this
	1		AIRPLANE .		1	,5570.05	1	' ''
			ELEV. = AT. = 33.0557447*N				S	plat was plotted from field notes of actual surveys
		· ·	LONG. = 104.044				0.	made by me or under my supervision, and that the
Ì			NMSP EAST (/ 	RFACE	500.17.5	same is true and corrects to the best of my belief.
		1	N = 74 $E = 58$	7915.64		CATION	51 E	AUGUST 5.2013-2
		<u> </u>		0024.52	- / 2	60'	1 1	
		; 1	1	1	İ		25	Date of Stirvey (12797)
				ļ			47	
ļ		S/4 CORNER SEC. 32	מר ממחייבה מי	- 70	.'		78	VIDO EVILORONI
ļ		LAT. = 33.0521810'N	SE CORNER S LAT. = 33.052		320			TOTAL WING TOUR
}		LONG. = 104.0503199'W	LONG. = 104.041	5898'W	Ī			Signature and Seat of Professional Surveyor
1		NMSP EAST = 746613.89	NMSP N = 746				K	Certificate Number FILIMONES ARAMILLO, PLS 12797
	COMPUTED	E = 586716.23	N = 746 $E = 589$		1 .			SURVEY NO. 2060
			N89'27'33"W		83 FT		ן ו	· V ·
L								

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 Reduireme		
Items	Min.	Min. Nominal
Flowline	<u>1,17;</u>	2"
Fill up line		2"
Drilling nipple		
Anument proventer		
Two single or one dual hydraulically operated tarms		
Drilling spool with 2" min. kill line and 3" min ohoko line outlets		2" Choke
2" min. kill fir to and 3" min. choke line outlets in man. (Alternate to 6s above)		
Valvo Gate Plug	3 1/8	
Onto valvo-150 wer operated	3 1/8	
Line to choke manifold	1	3"
Valve Onte Plug	2 1/16	·
Clicok valvo	2.1/16	
Casing head		
Valve Onto	1 13/16	
Pressure gauge with needle valve		[
Kill line to rig mud pump manifold		2"
	Flowline Fill up line Drilling nipple Annular proventer Two single on one dual hydraulically operated tarns Drilling spool with 2" min. kill line and 3" min oloke line outlets 2" min. kill line and 3" min. choke line outlets in min. (Alternate to 6a above) Valve Gate Plug Gato valve-po wer operated Line to choke manifold Valve Gate Plug Circok valve Casing head Valve Gate Plug Pressure gauge with needle valve	Items Min. I.D. Flowline Fill up line Drilling nipple Annular proventer Two single or one dual hydraullently operated tarns Drilling spool with 2" min. kill line and 3" min ohoke time outlets in rarn. (Alternate to 6a above) Valvo Gate Plug Gate valve-po wer operated 3 1/8 Line to choke manifold Valve Gate Plug Circok valve Caste Circok valve Casting head Valve Gate 1 13/16 Plug Pressure gauge with needle valve

	OPTIONA	J.,
16	Planged Valve	1 13/16

CONTRACTOR'S OPTION TO CONTRACTOR'S OPTION TO FURNISH:

- All equipment and connections above bradenhead or casinghead. Working pressure of preventors to be 2000 psi minimum.
- 2. 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.
- Kelly saver-sub equipped with rubber onsing protector at all times.
- 7. Plug type blowout preventer tester.
- 8. Extra set pipe mans to fit drill pipe in use on location at all times.
- Type RX ring gaskeets in place of Type R.

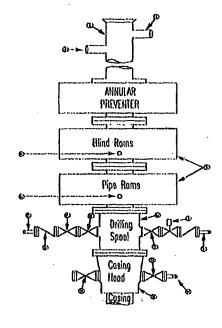
MEC TO FURNIS H:

- 1. Bindenhead or casing head and side valves.
- 2. Wear bushing, If required.

. . .

GENERAL NOTES:

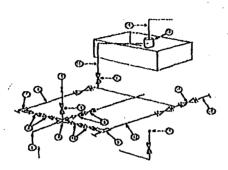
- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager,
- 2. All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (sultable clamp connections acceptable) and have minimum working pressure equal to rated working 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 wronches to be conveniently located for immediate use.

- All valves to be equipped with land-wheels or handles ready for immediate use.
- Choke fines must be suitably anchored.
- 7. Handwheels and extensions to be connected and ready for
- Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- All semuless steel control plping (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. Does not use kill line for routine fill up operations.

Mack Energy Corporation
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

Minimum requirement

				venmman	i require	ments				
		3,0	00 MWP			000 MWP		10	0,000 MWP	
No.	,	1.1),			J.D.	I		1.1).	T]
		l	Nominal	Itating		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		1	5,000			
22	Cross 3" x 3" x 3" x 2"									10,000
3	Vulvo Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000
4	Valvo Oate Ping	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	1	5,000	21/16		10,000
5	Prossure Chugo			3,000		1	5,000 .			10,00O
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	["		3,000	["		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	Valvo 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 change			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 Ciate Plug	3 1/8		3,000	3 1/8		5,000	31/8		10,000

Only one required in Class 3M

Cite valves only shall be used for Class 10 M Remote operated hydraulic choke required on 5,000 pst and 10,000 pst for drilling.

- EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTION All connections in choice manifold shall be welded, studded, flanged or Cameron clamp of comparable miting. 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 tangsten embide 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
- Line from drilling spool to choke manifold should bee as stangent as possible. Lines downstream from chokes shall make turns by large bends or 90 degree bends using bull plugged tees