District.I 1625 N. French Lr. Hobbs NM 88240 Phone: (\$75) 393-6161 Fax: (\$75) 393-0720 District.II 811 S. First St., Arlesia, NM 88210 , Phone: (\$75) 748-1283 Fax: (\$75) 748-9720 District.III 1000 Rio Brazos Road, Aziec, NM 87410 Phone: (\$05) 334-6174 Fax: (\$505) 334-6170 District.IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (\$05) 476-3460 Fax: (\$05) 476-3462

State of New Mexicon OIL CONSERVATION

ARTESIA DISTRICT

Form C-101 Revised July 18, 2013

Energy Minerals and Natural Resources 3 2014

Oil Conservation Division

☐AMENDED REPORT

1220 South St. Francis Dr. RECEIVED Santa Fe, NM 87505

APPL	ICATIO	N FO	R PE	RMIT T	O DRII	LL, RE-EN	TER,	DEEPEN	I, PLU	GBAC	K, OR	ADD	A ZONE	,
Mack En	ergy Corp	oration	. Ор 	erator iname	and Address	• ·					API N		(01383
P.O. Box	960, Arte		8821	1-0960		Property N				خصـ	8)-O	<u>/S</u>	425.	<u>29</u>
	3/35	32	Hol	ow SWD					- (DIT_	1		I NO.	
						Surface Lo	cation						·	
UL - Lot.	Section 28	Townsh 23S	27I	Range	Lot Id	n Feet fro 660 oosed Bottom	s	N/S Line outh	1880	et From	E/W L East	ine	County Eddy	
UL - Lot	Section	Townsh	р	Range	Lot Ide			N/S Line	Fe	et From	E/W L	ine	County	
	<u> </u>				<u></u>				<u> </u>					
			ı			Pool Inforn	nation						1	
SWD; Bel	l Canyon,	Cherry	Canyo	n		Pool Name							Pool Co. 96802	de 🗸
	1 7				Add	itional Well I		tion					17 17	
Wo New	rk Type	sw		Well Type		Cable/Ro	otary .	Fee	Lease	Гуре	3188.		d Level Elevatio	n
	ultiple			posed Depth	1	Formati	ion		Contra	ctor			Spud Date	
NO		425	0'	, 1 500		ell Canyon and Cl		yon	· ·	Distant	8/1/20		4	
Depth to Gr	ound water			Dist	ance from ne	earest fresh water v	weii			Distance	e to nearest s	urrace	water	
₩e will	be using a	closed-lo	op syst	em in lieu (of lined pit	s .								
	1			P	roposed	Casing and C	Gement	Program		•				
Туре	Но	le Size	Ca	sing Size	Casit	ng Weight/ft	s	etting Depth		Sacks of	Cement	1_	Estimated TO	С
J-55	12 1/	4	8 5/8"		32		1,150'		670sx			0		
L-80	80 7 7/8 5 1/2" 1		17		4,250'		62	620sx		0				
				Casi	ng/Cemer	nt Program: A	Addition	ial Comme	nts					
Drill a 12 1	/4" hole to	1,150', rt	ın 8 5/8	" casing an	d cement.	Drill a 7 7/8" h	ole to 4,	250', run 5 1	/2" casin	g and cen	nent. Put w	ell on	injection	
				. P	roposed	Blowout Pre	vention	Program						
	Туре				Working Pro	essure		Test Pr	ressure			Mai	nufacturer	
Double Ra	ım			3000			3000		-					
							· · · · .	· ·		÷	, :		-	
best of my l	enowledge a	nd belief.				iplete to the		OI	L CON	SERVA	TION D	VISI	ON	
	ertify that I				.9 (A) NMA	AC <mark>⊠</mark> and/or ्	Approv	ed By:	0	Shan	und		. ,	
Printed name Deana Weaver					Title "Géologist"									
Title Prod	Title Production Clerk						Approved Date: 7-29-20/4 Expiration Date: 7-29-20/6							
E-mail Add	lress dwea	ver@me	c,com											-
Date	Jo	J.TC	/ T _I	Phone 575	748-1288		Conditi	ons of Approv	al Attache	d .		<u> </u>		

District 1
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (375) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (305) 334-6178 Fax: (305) 334-6170
District IV
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

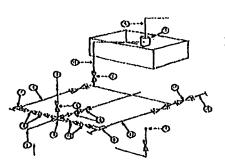
WELL LOCATION AND ACREAGE DEDICATION PLAT

•	r	968	302	SWI	SWD; Bell Canyon, Cherry Canyon						
4 Property (Code	⁵ Property Name							6	⁶ Well Number	
					HOLLOW	V SWD				1	
⁷ OGRID	No.	8 Operator Name						⁹ Elevation			
13837	7	MACK ENERGY CORPORATION						3188.5			
•	•				[™] Surface	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County	
О	28	23 S	27 E		660	SOUTH	1880	EAST EDDY			
			" E	Bottom Ho	le Location	If Different Fro	om Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County	
¹² Dedicated Acres 40	s ¹³ Joint o	r Infill 14 C	onsolidation	Code 15 Ord	er No.						

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.

S8819'17'E 2622.16 FT S8819'17'E 2622.16 FT S8819'17'E 2622.16 FT NE CORNER SC. 28 LAT. = 32.2825670'N LONG. = 1014.20350530'N LONG. = 1014.20350530'N LONG. = 1014.20350570'N L					
NE CORNER SEC. 28 LAT. = 32.2825627N LONG. = 104.20555657W NASP EAST (FT) N = 465700.46 N = 466700.46 N = 466700		\$88*19'17 * E	2622.16 FT S88*19*	17*E 2622.16 FT	ll i
Note 100			DNE		
No. 465709.16			1		to the best of my knowledge and belief, and that this organization either
No. 465700,46 No. 465700,46 No. 4655,46,87			1		owns a working interest or unleased mineral interest in the land including
N = 46546.87 E = 58649.78 E = 581448.94			<u> </u>		the proposed bottom hole location or has a right to drill this well at this
Date	8		<u> </u>	N = 466546.87	location pursuant to a contract with an owner of such a mineral or working
Date	18'5		i 	2 - 300003:73	interest, or to a voluntary pooling agreement or a compulsory pooling
Date	2		1 1	138	order heretofore entered by the division.
MARTICAN DATUM OF 1983 (MAD83) USED ARE MEXICO STATE PLANE EAST COORDINATES ARE GRID (MAD83) BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE.			LATITUDE AND LONGITUDE COORDINATES		Deangweaver 1.22.14
COORDINATES AND DISTANCES USED ARE New MEXICO STATE PLANE ELAST COORDINATES MODIFIED TO IME SURFACE. USED ARE New MEXICO STATE PLANE ELAST COORDINATES MODIFIED TO IME SURFACE.	638.5		AMERICAN DATUM OF 1983] (NAD83).	2520	
New MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. Printed Name			COORDINATES ARE GRID (NAD83), BASIS		Deana Weaver
W/4 CORNER SEC. 28			NEW MEXICO STATE PLANE EAST	7	Printed Name
W/4 CORNER SEC. 28			SURFACE.		dweaver@mec.com
LAT. = 32.2757158"N LONG. = 104.2034999"W NMSP EAST (FT) N = 464052.60 E = 581463.41 ELEV. = 3188.5' E = 586778.18 LAT. = 32.2701681"N (NAD83) LONG. = 104.1924653"W NMSP EAST (FT) N = 462048.72 E = 584376.4] SURFACE LAT. = 32.2683632"N LOCATION LONG. = 104.2035057"W LAT. = 32.2683563"N LONG. = 104.2035057"W LAT. = 32.2683563"N LONG. = 104.2035057"W LAT. = 32.2683633"N LONG. = 104.2035057"W LAT. = 32.2683633"N LONG. = 104.2035057"W NMSP EAST (FT) N = 461386.63 E = 584166.72 SURVEYOR CERTIFICATION Inverse of actual surveys MMSP EAST (FT) N = 464028.77 E = 586778.18 MSP EAST (FT) N = 461387.83 N = 461387.83 N = 461387.83 E = 584166.72 SURVEYOR CERTIFICATION Inverse of actual surveys MMSP EAST (FT) N = 46108.630 MMSP EAST (FT) N = 461387.83 N = 461386.63 E = 584166.72 SURVEYOR CERTIFICATION Inverse of actual surveys MMSP EAST (FT) N = 46108.630 MMSP EAST (FT) N = 461387.83 N = 461388.63 E = 584166.72 SURVEYOR CERTIFICATION Inverse of actual surveys MMSP EAST (FT) N = 46108.630 MMSP EAST (FT) N = 46108.630 MMSP EAST (FT) MSP EAST (FT		_	1		E-mail Address
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				;	sı
		\$89'58'58'W	·	53"W 2642.68 FT	/ هَدُّر

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 requirements

3,000 MWP 5,000 MWP 10,000 MWP 1.1). No. 1.1). Rating Rating Nomlun Nominal Rating Nominal Line from drilling Spool 3,000 5,000 10,000 Cross 3" x 3" x 3" x 2" Cross 3" x 3" x 3" x 2" 3,000 5,000 10,000 Calo Vulvo 3 1/8 3 3,000 3 1/8 5,000 3 1/8 10,000 Plug Valvo ī Clate 3,000 4 1 13/16 5,000 1 13/16 10,000 13/16 Plug VnIvos (1) 3,000 40 2 1/16 21/16 5,000 10,000 21/16 Prossure Chugo 3,000 5,000 10,000 Valvo Cialo 3 1/8 3,000 3 1/8 6 5,000 3 1/8 10,000 Plug Adjustable Choke (3) 3,000 5,000 10,000 Adjustable Chuke Ĩ". 3,000 ī" 2" 5,000 10,000 õ Line 3,000 5,000 10,000 10 Line 3,000 5,000 10,000 Oate Valvo u 3 1/8 3,000 3 1/8 5,000 3 1/8 10,000 Plug 1,000 2,000 12 Line 1,000 Line 1,000 13 1,000 2,000 Remote reading compound 14 3,000 5,000 10,000 Standalpe pressuro cumpo 2' x5' 13 2' x5' 2' x5' Ons Separator Line 2,000 16 1,000 1,000 Cinte Valve 3 1/8 3,000 3 1/8 17 5,000 31/8 10,000 Plug

Only one required in Class 3M $\overline{(1)}$

Onto valvos only shall be used for Class 10 M

Remote operated hydraulic choice required on 5,000 psi and 10,000 psi for drilling.

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTION

- All connections in choice manifold shall be welded, studded, flanged or Cameron clamp of comparable rating. t.
- All flanges shull 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.

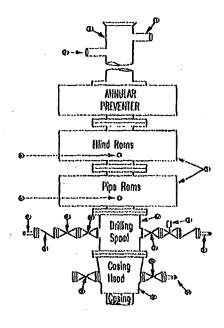
- alternate with automatic chokes, a choke manifold pressure gauge shall be lacated on the rig floor in conjunction with the standpipe pressure gauge.
- Line from drill ling spool to choke manifold should bee as straight as possible. Lines downstream from chokes shall make turns by large bonds or 90 degree bonds 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

NO.	Items	Min.	Min.
	·	I,D,	Nominal
1	Plowline		2"
2	14H up Hnc		2"
3	Drilling nipple		
4	Annular proventor		
5	Two single or one dual hydraulically operated rains		
GR	Drilling speed with 2" min, kill line and 3" min choke line outlets		2" Choko
Gh	2" min. kill time and 3" min. choke line onilets in man. (Alternate to 6s above)		
7	Valvo Gate Plug	3 1/8	
8	Cinto valvo-po wer operated	3 1/8	
9	Lino to choke manifold		3"
10	Valvo Onto Plug	2 1/16	
11	Cheek valve	2.1/16	
12	Casing head		
13	Valvo Onto Plug	1 13/16	
14	Pressure gauge with needle valve		I
15	Kill-line to rig mud pump manifold		2"



	OPTIONAL		
16	Planged Valve	1 13/16	

CONTRACTOR'S OPTION TO CONTRACTOR'S OPTION TO PURNISH:

- All equipment and connections above bindenhead or ensinghead. Working pressure of proventors to be 2000 psi intrimum.
- 2. Automatic necuminator (80 gallons, minimum) enpublic 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 proventer or its equivalent on dearlol Alor at all times with proper threads to fit pipe being used.
- Kelly saver-sub-equipped with rubber onsing protector at all times.
- 7. Plug typo blowout preventer tester.
- 8. Extra set pipe mins to fit drill pipe in use on location at rell times.
- Type ItX ring gaskets in place of Type It.

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 sultable 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 beaus.

Replaceable parts for adjustable choke, or beau sizes, retainers, and choke wroneles to be conveniently toonted 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 scanness steel control piping (2000 psi working pressure) to have floxible 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.

Permit Conditions of Approval

API: 30-0 15-42529

OCD Reviewer	Condition
CSHAPARD	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string