 <u>Distnet I</u> 1625 N. French Dr., Hob <u>Dstrict 11</u> 1301 W. Grand Avenue 	bs, NM 8824	10 88210 HOB	3S OCT	State o pergy Minera	of New ls and N	Mexi Matural	lco l Resou	irces			Form C-101 May 27,2004
District III I 000 Rio Brazos Road, A <u>District IV</u> 1220 S. St. Francis Dr., S	Aztec, NM 8 Santa Fe, NM	⁷⁴¹⁰ JAN	2 4 20	13 Oil Cons 1220 Son Santa	ervatic uth St. 1 Fe, NM	on Div Francis A 8750	vision s Dr. 95	S	ubmit to :	appropriz	nte District Office NDED REPORT
APPLICATI	<u>ON FOI</u>	<u>R PERMI</u>	EFBINE	d Rill, re-e	NTER	<u>, dei</u>	<u>epen,</u>	PLUGBAC	<u></u>	ADD	A ZONE
		Operator Name Mack Energy	and Addre	ess ration					'OGRID I	Number	013837
	<u>P.O. E</u>	Sox 960 Arte	sia, NM	88211-0960				30- 025-27	056 ^{API N}	umber	
3 Property Code				s Property 1 Magni	Name e State					6 Well N	10. 7
	ـــــــــــــــــــــــــــــــــــــ	Proposed Pool I		iviagpi		•		Propo	sed Pool 2		<u> </u>
	Airst	rip; Bone Spr	ing								· · · · · · · · · · · · · · · · · · ·
Lill or lot no Costion		p	<u> </u>	7 Surface	Locati	on	<u></u>	David Comments	Enst(Was		
H 26	18S	Range 34E	Lot	Idn Feet fro	in the	North/So	uth line	Feet from the	East	t inte	Lea
		Pronc	sed Bott	om Hole Locat	ion If D	ifferent	From S	urface		<u> </u>	
UL or lot no. Section	Township	Range	Lot	Idn Feet fro	in the	North/So	uth line	Feet from the	EastfWes	t line	County
											<u> </u>
n Work Type Code E		12 Well Type Co	A(dditional We "Cable Rot	<u>II Intoi</u> /Rotary /arv	<u>rmatio</u>	<u>n</u>	Lease Type Code S		15 Ground	Level Elevation
16 Multiple		" Proposed Dep	th	" Form	nation			» Contractor	~ ~ ~	2' Spud Date	
NO ·		10500'	Distanc	Bone S	Spring				1 nearest su	Z/15/2013	
Pit Liner: Synthetic Closed-Loop Sys	□m tem ⊠	ils thick Clay [Pit Vol	lume:bbls		Drdlin Fresh W	g <u>Method</u>	 - Brine Diesel/O	il-based]_Gas/Air	
		2	Propo	sed Casing a	nd Cer	nent F	rogran	<u>n</u>			
Hole Size	Cas	ing Size	Casin	g weight/foot	Se	etting De	pth	Sacks of Ce	ement	E	stimated TOC
17 1/2	13 3/8		48		317 450sx			450sx	sx Surface		-In place
12 1/4 8 3/4	9 5/8		36 17		4000			2400sx		Surface	-In place
	5 172			·· ·· ·	10,000	<u>.</u>		10700		1000	
										İ	
² Describe the proposed prop	ation prop	ram, if any. Use a oses to Re-en t well on proc	ter the fa	Sheets if necessary	26 Stat	e #1 nc	w calle	d the Magpie 3 mit Expires Date Unles	State #2 2 Year 5 Drilli	to a dep s From ng Une	th of 10,500' test n Approval derway
23 1 hereby certify that the oftny knowledge and bef	information	given above is tr	ue and con	nplete to the best			OIL C	ONSERVAT	TION D	IVISIO)N
constructed according t	io NMOCD g ive OCD-or	guidelines 🛛 a	general p	ermit 🛄, or	A	ad by:	_ 2			/	
Signature	7	W. SI	- un A	n	Approve	u uy.			uls .		
								/ /			
Printed name: Jerry W. Sherrell						Petro	leum I	Ingineer	/		
Title:	Pro	Jerry W. She	rrell		Title:	Petro		ingineer	Zxpiration D	Date: 02	1/24/16
Title: E-mail Address:	Pro	Jerry W. She oduction Clerl jerrys@mec	rrell c.com		Title:	Petro		ingineer 24/13 E	Expiration D	Date: 0	1/24/15

<u>District I</u> 1625 N. French D	r., Hobbs, Ni	HO M 88240	BBS OCI) EnerRy	State of Nev y, Minerals &	w Mexico Natural Resources	i		Revised N	Form C-102 4arch 17, 1999
District 11 811 South First, Artesia, NM 88210 JAN 2 4 2013 District III 1000 Rio Brazos Rd., Aztec, NM 87410					OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505			Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies		
<u>District IV</u> 2040 South Pache	co, Santa Fe,	NM 87505	ECEIVED)					AMENE	DED REPORT
	B1	WI	<u>ELL LOO</u>	CATION	AND ACE	<u>REAGE DEDIC</u>	<u>A HON PLA</u>	.1		
'A PI Number 'Pool Code							'Pool Nam	e		
	30-025-27056 960 Airstrip; Bone Spring									
' Property (Code		' Property Name						'Well Number	
3905	5				Magpie	State			2	
'OGRID I	Vo.				' Operator	Name			'El	evation
01383	7			N	1ack Energy (Corporation 3979'				
h					HI Surface	Location		<u></u>		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/V	√est line	County
H	26	18S	34E		1910	North	660	East	:	Lea
			" Bott	tom Hole	e Location I	f Different From	n Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	√est line	County
" Dedicated Acres	ioint or	Infill Co	onsolidation C	ode "Ord	ler No.					

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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL XL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

		.0161	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.
		660'	Signature Printed Name Lerry W. Sherrell
		/	Title Production Clerk Date 1/23/2013
			"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.
 			On File Date of Survey Signature and Sea) of ProfessionalSurveyer.
			Certificate Number

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 Su	bstructu	re				·	·····
	<u>a a de la construcción de la constru Construcción de la construcción de l Construcción de la construcción de la</u>	3,0	N 100 MWP	limimun	n requirer 5,	nents 000 MWP		10),000 MWP	
No.		I.D.	Nominal	Rating	I.D.	Nominal	Rating	L.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"									
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	21/16		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
	Valve Gate	····3 178 ~		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		N	5,000			
15	Gas Separator		2' x5'			2''x5'			2' ×5'	
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

Only one required in Class 3M (1)

Gate valves only shall be used for Class 10 M (2)

(3) Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling.

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTION

All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating. ١.

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.

5. 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 6. 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

Stac	k Req	uirements

		NO.	Items	Min.	Min.
				<u> </u>	Nominal
	{	I	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	<u></u> -
· · ·			Plug	•••••	•• • •
		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

CONTRACTOR'S OPTION TO 10 CONTRACTOR'S OPTION TO FURNISH:

Flanged Valve

16

- All equipment and connections above ME 1. bradenhead or casinghead -Workingpressure of preventers 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 3. drillers' position.
- 4. Kelly equipped with Kelly cock.
- Inside blowout preventer or its 5. equivalent on derrick floor at all times with proper threads to fit pipe being used.
- Kelly saver-sub equipped with rubber 6. casing protector at all times.
- 7 Plug type blowout preventer tester.
- 8. Extra set pipe rains 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, 2.

GENERAL NOTES

1 13/16

- Deviations from this drawing 1. 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.
- 3. Controls to be of standard design and each marked, showing opening and closing position
- Chokes will be positioned so 4. as not to hamper or delay changing of choke beans.

adjustable choke, or bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.

ANNULAR PREVENTER

Blind Roms

Pipe Rams -0

> Drilling Spool

Casing

- 5. All valves to be equipped with hand-wheels or handles ready for immediate use.
- 6. Choke lines must be suitably anchored.
- 7. Handwheels and extensions to be connected and ready for use.
- 8. 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.
- Does not use kill line for 11. routine fill up operations.

Head Casing Replaceable parts for