

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-101  
May 27, 2004

Submit to appropriate District Office

AMENDED REPORT

HOBBS OGD  
JAN 24 2013 RECEIVED

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address Mack Energy Corporation P.O. Box 960 Artesia, NM 88211-0960		OGRID Number 013837
		API Number 30-025-27056
Property Code 39055	Property Name Magpie State	Well No. 2
Proposed Pool 1 Airstrip; Bone Spring		Proposed Pool 2

7 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	26	18S	34E		1910	North	660	East	Lea

8 Proposed 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

Additional Well Information

Work Type Code E	Well Type Code O	Cable/Rotary Rotary	Lease Type Code S	Ground Level Elevation 3979'
Multiple No	Proposed Depth 10500'	Formation Bone Spring	Contractor	Spud Date 2/15/2013
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
Pit Liner: Synthetic <input type="checkbox"/> _____mils thick Clay <input type="checkbox"/>		Pit Volume: _____ bbls		Drilling Method -
Closed-Loop System <input checked="" type="checkbox"/>		Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>		

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2	13 3/8	48	317	450sx	Surface-In place
12 1/4	9 5/8	36	4000	2400sx	Surface-In place
8 3/4	5 1/2	17	10,880	1575sx	4000'

Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Mack Energy corporation proposes to Re-enter the formerly Wisner 26 State #1 now called the Magpie State #2 to a depth of 10,500' test the Bone Spring formation. Put well on production.

Permit Expires 2 Years From Approval Date Unless Drilling Underway

I hereby certify that the information given above is true and complete to the best of my knowledge and belief I further certify that the drilling pit will be constructed according to NMOCD guidelines <input checked="" type="checkbox"/> a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan. <input type="checkbox"/>		OIL CONSERVATION DIVISION	
Signature <i>Jerry W. Sherrell</i>		Approved by: <i>[Signature]</i>	
Printed name: Jerry W. Sherrell		Title: Petroleum Engineer	
Title: Production Clerk		Approval Date: 01/24/13	Expiration Date: 01/24/15
E-mail Address: jerrys@mec.com			
Date: 1/23/13	Phone: (575)748-1288	Conditions of Approval Attached <input type="checkbox"/>	



# Mack Energy Corporation

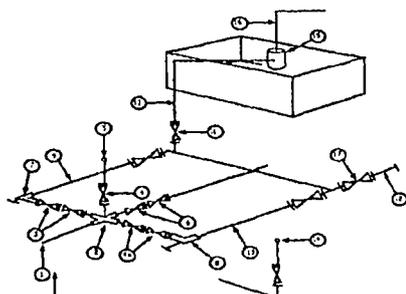
Exhibit #2

## MINIMUM 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

No.		3,000 MWP		5,000 MWP		10,000 MWP	
		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 gauge		3,000		5,000		10,000
15	Gas Separator		2' x 5'		2' x 5'		2' x 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

(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.

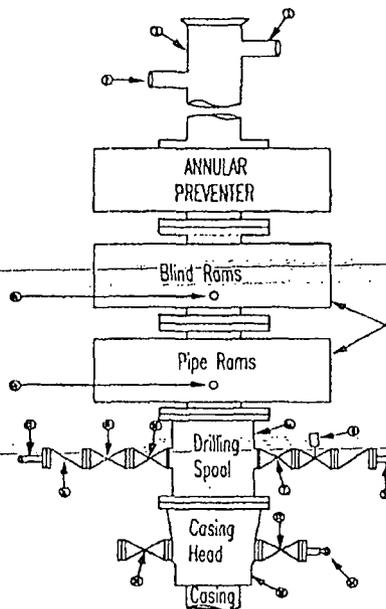
### EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTION

- 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.
- 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 be 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**

NO.	Items	Min. I.D.	Min. 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	
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**CONTRACTOR'S OPTION TO FURNISH:**

1. All equipment and connections above bradenhead or casinghead. Working pressure 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.
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.
2. Wear bushing. If required.

**GENERAL NOTES:**

1. 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 (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
4. Chokes will be positioned so as not to hamper or delay changing of choke beans.

5. Replaceable parts for adjustable choke, or bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.
6. All valves to be equipped with hand-wheels or handles ready for immediate use.
7. Choke lines must be suitably anchored.
8. Handwheels and extensions to be connected and ready for use.
9. Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
10. All seamless steel control piping (2000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
11. Casinghead connections shall not be used except in case of emergency.
12. Does not use kill line for routine fill up operations.