

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

Form C-101
May 27, 2004

Oil Conservation Division
1220 South St Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

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
Property Code 33887		API Number 30- 015-33405
Property Name Coral State		Well No 1
Proposed Pool 1 Siegest Draw, Abo		Proposed Pool 2

7 Surface Location

UL or lot no H	Section 26	Township 19S	Range 23E	Lot Idn	Feet from the 1980	North/South line North	Feet from the 660	East/West line East	County Eddy
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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
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Additional Well Information

Work Type Code New P	Well Type Code Oil	Cable/Rotary Rotary	Lease Type Code S	Ground Level Elevation 3923' GR
Multiple No	Proposed Depth	Formation Abo	Contractor	Spud Date 8/09/2011
Depth to Groundwater 145'		Distance from nearest fresh water well 1000'		Distance from nearest surface water 1000'
Pit Liner Synthetic ☐ mils thick Clay ☐		Pit Volume _____ bbls		
Closed-Loop System ☒		Drilling Method: Fresh Water ☒ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐		

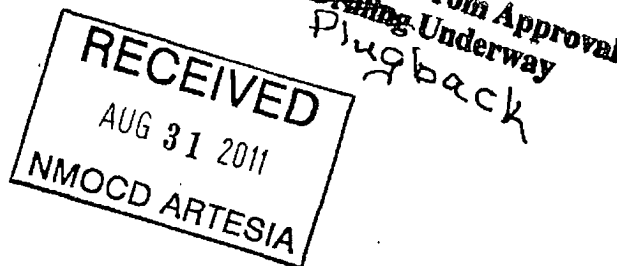
21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12 1/4	8 5/8	24	1280	830sx	Surface/In place
7 7/8	4 1/2	10 5	6969	1790sx	Surface/In place

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 Plug-back Penn Zone and re-complete as follows

Set CIBP @ 6400' w/35' cmt cap
Perf 3rd Zone @ 4667 5-4915 5' 31 setting 2/SPF 62 holes 42" holes
Do 2500gal 15% NEFE acid, swab/test zone

Set CIBP @ 4600' w/ 35' cmt cap
Perf 4th zone @ 3789-3877' 22 setting 2/SPF 44 holes 42" holes
Do 2500gal 15% NEFE acid, swab/test zone.

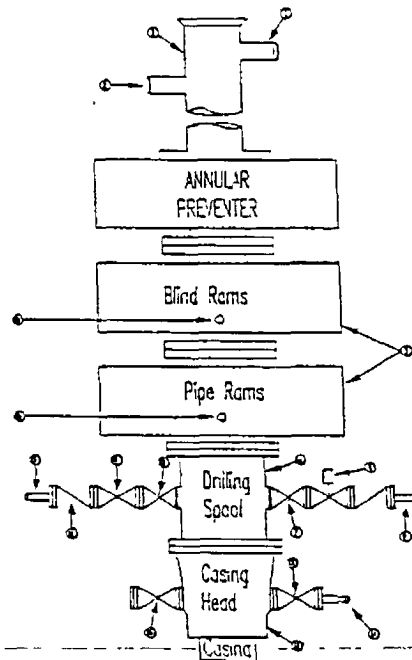


I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☒ a general permit ☐ , or an (attached) alternative OCD-approved plan ☐		OIL CONSERVATION DIVISION	
Signature Jerry W. Sherrell		Approved by David W. Gray	
Printed name Jerry W. Sherrell		Title Field Supervisor	
Title Production Clerk		Approval Date 09/12/2011	Expiration Date 09/12/2013
E-mail Address jerrys@mec.com			
Date 8/30/11	Phone (575)748-1288	Conditions of Approval Attached ☐	

Mack Energy Corporation
Minimum Blowout Preventer Requirements
 3000 psi Working Pressure
 3 MWP
 EXHIBIT #10

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 (30 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 Replaceable parts for adjustable choke, or bean

sizes, retainers, and choke wrenches to be conveniently located for immediate use

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

Mack Energy Corporation

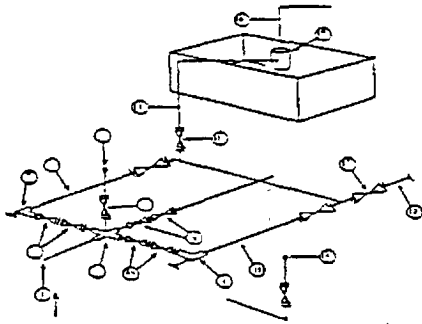
Exhibit #11

MINIMUM CHOKE MANIFOLD

3,000, 5,000, and 10,000 PSI Working Pressure

3M will be used

5 MWPP - 5 MWPP - 10 MWPP



Mud Pit

Reserve Pit

* Location of separator optional

Below Substructure

Minimum requirements

No.		3,000 MWPP			5,000 MWPP			10,000 MWPP		
		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

- 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 MWPP
- 3 All lines shall be securely anchored
- 4 Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available
- 5 Choke manifold pressure and standpipe pressure gauges shall be available at the choke manifold to assist in regulating chokes. As an alternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the standpipe pressure gauge
- 6 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

DISTRICT I --- CHECKLIST FOR INTENTS TO DRILL

APD is for N

E

A

D

WELL TYPE

O

G

I

S

OTHER

Operator Mack Energy CorpOGRID # 13837Well Name & # Coral 5+ #1

Surface Type (F) (S) (P)

Location: UL 44 Sect 26 Township 19 s, RNG 23,

Sub-surface Type (F) (S) (P)

1: BHL @: UL , Sect , Township s, RNG e, H DD 2: BHL @: UL , Sect , Township s, RNG e, H DD A. Date C101 rec'd 8/31/11 C101 reviewed / /

B. 1 Check mark, Information is OK on Forms

OGRID , BONDING , PROP CODE , WELL # , SIGNATURE 2 Inactive Well list as of 9/12/11 # wells 357, # Inactive wells 0

a District Grant APD but see number of inactive wells

No letter required , Sent Letter to Operator , to Santa Fe 3 Additional Bonding as of 9/12/11

a District Denial because operator needs addition bonding

No Letter required , Sent Letter to Operator , To Santa Fe

b District Denial because of inactive well list and Financial Assurance

No Letter required , Sent Letter to Operator , To Santa Fe C102 YES , NO , Signature 1 Pool Siegest Draw Abo, Code a Dedicated acreage 40, What Units Hb SUR Location Standard Non-Standard Location c Well shares acres Yes , No , # of wells plus this well # 2 2nd Operator in same acreage, Yes , No WELL(S) SHARINGWELL(S) BY 2nd OPER Agreement Letter , Disagreement letter 3 Intent to Directional Drill Yes , No Dedicated acreage , What Units Bottomhole Location Standard , Non-Standard Bottomhole 4 Downhole Commingle Yes , No a Pool #2 , Code , Acres Pool #3 , Code , Acres Pool #4 , Code , Acres 5 POTASH Area Yes , No C Blowout Preventer Yes , No D H2S Yes , No E C144 Pit Registration Yes , No

F Does APD require Santa Fe Approval

1 Non-Standard Location Yes , No , NSL # 2 Non-Standard Proration Yes , No , NSP # 3 Simultaneous Dedication Yes , No , SD # Number of wells Plus # 4 Injection order Yes , No , PMX # or WFX # 5 SWD order Yes , NO , SWD # 6 DHC from SF , DHC-HOB , Holding 7 OCD Approval Date 9/12/11API #30-0 25-334058 Reviewers dm25-31210
PA'd