| . k |
|---|
| District I PO Box 1980, Hobbs, NM 88241-1980 |
| District II |
| 811 S. 1st Street Artesia, NM 88210-1404 |
| District III |
| 1000 Rio Brazos Rd, Aztec, NM 87410 |
| District IV |
| PO Box 2088, Santa Fe, NM 87504-2088 |
| |

State of New Mexico Energy, Minerals & Natural Resourses Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-101 Revised February 10, 1994 Instructions on back Submit to Appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies

AMENDED REPORT

| APPLICA | TION | FOR P | ERMIT | TO DRI | LL, RE- | EN | TER, DEI | EPEN, | , PLUGB | ACK, | OR A | DD A ZONE |
|--|--|---------------|---------------------------------|-----------------|-----------------|---------------------------------|--|---------------------------------|----------------|-----------------|--|-------------------|
| | | | | - | or Name and A | | ress | | | | OG | RID Number |
| Mack Energy Corporation P.O. Box 960 | | | | | | | | | | 013837 | | |
| | P.O. Box 960 Artesia, NM 88211-0960 | | | | | | | | | | А | PI Number |
| | | | | ······· | | | | | | | 30- | 025-31657 |
| | | 511 | | | | Pro | operty Name | | | | | Well No. |
| د | ~10: | 24 | | | | E | Bird SWD | | | | | 1 |
| | | y | _ | | Surfac | e I | Location | | | | | |
| UL or lot no. | Section | Townsh | ip Range | Lot Idn | Feet from t | he | North/South | line F | eet from the | East/V | Vest line | County |
| F | 9 | 18S | 34E | | 1980 | | North | | 1980 | V | West | Lea |
| | | Pr | oposed I | Bottom | Hole Loc | cati | on If Diff | erent l | From Surf | face | | |
| UL or lot No. | Section | Townshi | p Range | Lot Idn | Feet from t | he | North/South | line F | eet from the | East/V | Vest line | County |
| | | | | | | | | | | | | |
| | - | Ргоро | osed Pool 1 | | | | • | ł | Propose | d Pool : | 2 | _ L ., |
| | <u>Su</u> | D De | laware | | | | | | Bone S | Spring | | |
| | | | | | | | | | | <u> </u> | ······································ | |
| Work T | ype Code | | Well Type | Code | Cal | ble/l | Rotary | L | ease Type Co | de | Groun | d Level Elevation |
| H | | | S | | | R | | | S | | 4048' | |
| Mul | tiple | | Proposed 1 | Fo | ormation | | | Coptraction 12 13 74 15 Spud Da | | | Spud Date | |
| N | 0 | | | | D | Delaware (1,25/2005 | | | | | | |
| | | | P | roposed | l Casing | an | d Cement | Progr | ·Sm | 1. <u>1</u> 11. | 18 | \ |
| Hole Si | ze | Ca | sing Size | Casii | ng weight/foot | Setting Depth Sacks of Cement - | | | | Estimated TOC | | |
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| 12 1/4 | | | 3 5/8 | | 32 | | 3650 | | 866D | | N/ | 498' |
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| Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the pr | | | | | | | | | | | | |
| 20110. Deseried | M | ack Ener | gy Corpora | any. Use add | oses to Re-en | nter | ecessary. | Dirt De | vil 9 State #1 | | | d new productive |
| | Date U | niess [| Year Fro Dilling Un Re-En | neerwey Ntry | 1 | | | | 51 | ψſ |).9 | * 8) |
| I hereby certify t of my knowledge | | mation giv | en above is tru | ue and compl | ete to the best | [| 011 | L CON | JSER VAT | TION | DIVIS | ION |
| Signature | | | | | | | OIL CONSERVATION DIVISION | | | | | |
| Printed name: | ` | <u>, in t</u> | <u> </u> | men | ave | Tit | ie i | | LEUM ENG | NEEP | | |
| Title: | Jerry W. Sherrell | | | | | | | PETHO | ЛПИ | | | |
| | Production Clerk | | | | | | Approval Date N 1 3 2005 Expinition Date | | | | | |
| Date: | 11/2007 | | Phone: | | | Conditions of Approval: | | | | | | |
| 4/ | 11/2005 | | | 505)748-1 | 288 | | ttached | | | | | |

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

Energy, Minerals and Natural Resources Department OIL CONSERVATION DIVISION

DISTRICT I P.O. Box 1980, Hobbs, NH 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

WELL LOCATION AND ACREAGE DEDICATION PLAT

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

State of New Mexico

| In Distance with a first a first and the state of the | DISTRICT III 1000 Rio Brazos Re | d., Axtec, NM 87 | | _ | | EAGE DEDIC | | PLAI | | |
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Form C-102 Revised 1-1-89

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Mack Energy Corporation Exhibit #1-A BOPE Schematic

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Choke Manifold Requirement (2000 psi WP) No Annular Required



(or Positive)

Mack Energy Corporation Minimum Blowout Preventer Requirements 2000 psi Working Pressure 2 MWP EXHIBIT #1-A

Stack Requirements

| NO. | Items | Min. | Min. |
|-----|---|----------|-------------|
| | | I.D. | 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 | <u> </u> | 2" |

OPTIONAL



CONTRACTOR'S OPTION TO FURNISH:

Flanged Valve

16

- 1. All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 2000 psi minimum.
- Automatic accumulator (80 gallon, 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.
- 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 13/16

- 1. Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 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.
- 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 wrenches to be conveniently located for immediate use.
- All valves to be equipped with handwheels or handles ready for immediate use.
- 6. Choke lines must be suitably anchored.

- 7. 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 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. Do not use kill line for routine fill up operations.

Mack Energy Corporation Exhibit #1-A MIMIMUM CHOKE MANIFOLD 3,000, 5,000, and 10,000 PSI Working Pressure 2 M will be used or greater 3 MWP - 5 MWP - 10 MWP



* Location of separator optional

Below Substructure

| | | | | TATITU | ium requ | | | | | |
|--------------------------------|---|------------|---------|--------|----------|---------|---------------|---------------------------------------|---------|--------|
| 3,000 MWP 5,000 MWP 10,000 MWP | | | | | | | | | | |
| No. | | _ 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 |
| • | Valve Gate Plug | 1 13/16 | | 3,000 | 1 13/16 | | 5,000 | 1 13/16 | | 10,000 |
| a | Valves (1) | 2 1/16 | | 3,000 | 2 1/16 | | 5,000 | 2 1/16 | | 10,000 |
| i | Pressure Gauge | | | 3,000 | | | 5,000 | | | 10,000 |
| ó | Valve Gate Plug | 3 1/8 | | 3,000 | 3 1/8 | | 5,000 | 3 1/8 | | 10,000 |
| | Adjustable Choke (3) | 2" | | 3,000 | 2" | | 5,000 | 2" | | 10,000 |
| | Adjustable Choke | 1" | | 3,000 | 1" | | 5,000 | 2" | | 10,000 |
|) | Line | | 3" | 3,000 | | 3" | 5,000 | | 3" | 10,000 |
| 0 | Line | | 2" | 3,000 | | 2" | 5,000 | | 2" | 10,000 |
| 1 | Valve Gate Plug | 3 1/8 | | 3,000 | 3 1/8 | | 5,000 | 3 1/8 | | 10,000 |
| 2 | Line | | 3" | 1,000 | | 3" | 1,000 | | 3" | 2,000 |
| 3 | Line | | 3" | 1,000 | | 3" | 1,000 | | 3" | 2,000 |
| 4 | Remote reading compound Standpipe pressure quage | | | 3,000 | | | 5,000 | | | 10,000 |
| 5 | Gas Separator | | 2' x5' | | | 2' x5' | · · · · · · · | | 2' x5' | |
| 6 | Line | | 4" | 1,000 | | 4" | 1,000 | | 4" | 2,000 |
| 7 | Valve Gate Plug | 3 1/8 | | 3,000 | 3 1/8 | | 5,000 | 3 1/8 | | 10,000 |

Mimimum requirements

Only one required in Class 3M (1)

5

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. 1.
- All flanges shall be API 6B or 6BX and ring gaskets shall be API RX or BX. Use only BX for 10 MWP. 2.
- 3. All lines shall be securely anchored.
- 4. Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.
- 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 5. 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.

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State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-144 March 12, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office. For downstream facilities, submit to Santa Fe office

| Pit or Below-Grade Tank Registration or Closure Is pit or below-grade tank covered by a "general plan"? Yes No Type of action: Registration of a pit or below-grade tank Closure of a pit or below-grade tank | | | | | | | | |
|---|---|---|--|--|--|--|--|--|
| Operator: Mack Energy Corporation Telephone: Address: P.O. Box 960, Artesia, NM 88211-0960 Facility or well name: Bird SWD #1 API #. County: Lea Latitude Longitude | (505)748-1288 e-mail address: jerrys@mack -31657 U/L or Qtr/Qtr_F_Sec_9_T_1 NAD: 1927 [] 1983 [] Surface Ow | 85 _R 34E | | | | | | |
| Pit Type: Drilling Production Disposal Workover Emergency Lined Unlined Liner type: Synthetic Thickness <u>12</u> mil Clay Volume <u>300</u> bbl | Below-grade tank Volume:bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes [] If not, | | | | | | | |
| Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) | Less than 50 feet 50 feet or more, but less than I 00 feet 100 feet or more | (20 points) 1(20 points) (0 points) 0 Points | | | | | | |
| Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.) | Yes /Yes /Yes | (20 points) A points) Control O Points | | | | | | |
| Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.) | Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more | (10 points) (0 points) 92 52 477, 9 Points | | | | | | |
| If this is a pit closure: (1) attach a diagram of the facility showing the pit's onsite offsite If offsite, name of facility | (3) Attach a general description of remedial actio | n taken including remediation start date and end | | | | | | |
| date. (4) Groundwater encountered: No Yes I If yes, show depth belo diagram of sample locations and excavations. | | | | | | | | |
| I hereby certify that the information above is true and complete to the best of i been/will be constructed or closed according to NMOCD guidelines , a Date: 4/11/2005 Printed Name/Title Jerry W. Sherrell/Production Clerk Your certification and NMOCD approval of this application/closure does not re otherwise endanger public health or the environment. Nor does it relieve the or regulations. | general permit 🖄, or an (attached) alternative OC Signature | D-approved plan | | | | | | |
| Approval: Date: PETROLEUM ENGINEER JUN 1 3 2005 | Signature Curry | | | | | | | |