| Form 3160-3 (December 1990) | | - | A P | 811 SEBIST ST TR TESIA, NM 86211 TR reverse sid | CATE | Form approved. Budget Bureau No. 1004-0136 Expires: December 31, 1991 |
|---|---|--|--|--|--|---|
| December 1990) | DEPARTMENT | | ITERI | OR | | 5. LEASE DESIGNATION AND SERIAL NO. LC-062407 |
| | BUREAU OF I | | | OP DEEPEN | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME |
| | ATION FOR PER | RMITTOD | | | | 7. UNIT AGREEMENT NAME |
| IA. TYPE OF WORK | ι 🛛 | deepen [|] / | A 1 | | ALLAN AGREEMENT |
| b. TYPE OF WELL | s 🗍 anunn | | SINC | | E | 8. FARM OR LEASE NAME, WELL NO 115 |
| OIL WELL WO | ell OTHER | | | OCDECEIVE | | Cheyenne Federal #4 |
| Mack Energy Corpo | oration | | | APICO | $-\frac{\omega}{\omega}$ | 30-015-30708 |
| 3. ADDRESS AND TELEPHONE NO. | | | 10.1500 | · · · /A | 5 | 10. FIELD AND POOL, OR WILDCAT |
| P.O. Box 960, Artes | ia, NM 88211-0960 | (505) 74 | 18-1288 | | v?/ | Empire Yeso 96210 |
| 4. LOCATION OF WELL At surface | (Report location clearly an | 30 FSL & 330 |) FEL | tate to SI 1101 0 | | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA |
| At proposed prod. zone | e | 130 FSL & 330 |) FEL | | | Sec 30 T17S R29E |
| UnitP | D DIRECTION FROM NEARE | | | · · · · · · · · · · · · · · · · · · · | | 12. COUNTY OR PARISH 13. STATE Fddy NM |
| 14. DISTANCE IN MILES AN | 8 miles west | t of Loco Hills | 9 I 4 I 4 A | | | Eddy |
| 15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE L | DSED* | 330 | 16. NO. 0 | DF ACRES IN LEASE 80 | тот | OF ACRES IN LEASE THIS WELL 40 |
| (Also to nearest drig | SED LOCATION* | | 19. PRO | POSED DEPTH | 20. ROT. | ARY OR CABLE TOOLS Rotary |
| TO NEAREST WELL, DR | IS LEASE, FT. | 660 | | 5800 | | 22. APPROX. DATE WORK WILL START* |
| 21, ELEVATIONS (Show w | vhether DF, RT, GR, etc.) | | | | | 7/01/1999 |
| | GR-3615 | | | | | TOOLED WATER BASIN |
| 23. | | PROPOSED CAS | ING AND | CEMEN | | QUANTITY OF CEMENT |
| SIZE OF HOLE | GRADE, SIZE OF CASING | WEIGHT PER | FOOT | SETTING DEPTH 325 | -+ | Circ WINESS |
| 17 1/2 | K-55,13 3/8 | 48 | | 800 | | Circ |
| | | | | | | |
| <u>12 1/4</u> 7 7/8 | K-55, 8 5/8 J-55, 5 1/2 | 24 17 | | 5800 | | Suff to Circ |
| 7 7/8 Mack Ener productive, 5 1/2" c with federal regula | J-55, 5 1/2 gy proposes to drill to | 17 a depth suffic d. If non-prod as as per Onsh | luctive, t tore Oil | 5800 test the Paddock an the well will be plug and Gas Order #1 a | ged and | ndres formation for oil. If abandoned in a manor consistent ned in the following attachments: 7. Responsibility Statemen |
| 7 7/8 Mack Ener productive, 5 1/2" o with federal regula 1. <u>Surveys</u> Exhibit #1- Wel | J-55, 5 1/2 gy proposes to drill to casing will be cemente tion. Specific program I Location Plat | 17 a depth suffic d. If non-prod as as per Onsh 4. <u>Cer</u> | luctive, t tore Oil rtificatio | 5800 test the Paddock an the well will be plug and Gas Order #1 a on | ged and are outlir | ndres formation for oil. If abandoned in a manor consistent ned in the following attachments: 7. Responsibility Statemen |
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Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency o United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. DISTRICT I P.O. Box 1980, Hobbs, NM 86241-1980

DISTRICT II P.O. Drawer BD, Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV P.O. BOX 2088, SANTA FE, N.M. 87504-2088 State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| API | API Number Pool Code | | | | | | - · | Pool Name re Yeso | | | | |
|--|----------------------|-------------|---------------|--|-------------------|-----------|-------------------------------|----------------------|--|--------------|--|--|
| 96210 | | | | | | 4_ NT | Well Number | | | | | |
| Property Code Property Name CHEYENNE XXXX FEDERAL | | | | | | | | | | | | |
| | | | | <u> . </u> | | ator Nam | | | Elevatio | n | | |
| OGRID No | D. | | MACK | FNFRG | Y COF | RPORATION | | 3615' | | | | |
| 013837 | | <u> </u> | | | | | ··· | | | i | | |
| | | | | . <u></u> | | e Loca | | Feet from the | East/West line | County | | |
| UL or lot No. | Section | Township | Range | Lot Idn | Feet fro | | North/South line | 330 | EAST | EDDY | | |
| Р | 30 | 17 S | 29 E | | 43 | | SOUTH | <u></u> | | | | |
| L | h | <u></u> | Bottom | Hole Lo | cation | lf Diffe | erent From Sur | rface | | | | |
| UL or lot No. | Section | Township | Range | Lot Idn | Feet fr | | North/South line | Feet from the | East/West line | County | | |
| | | | _ | | | | | | | | | |
| Dedlarted 1 | l Ioint | or Infill (| Consolidation | Code 0 | rder No. | | L | | L | | | |
| Dedicated Acre | | | | | | | | | | | | |
| l | | | | | | | | RESTS HAVE RE | EN CONSOLID | ATED | | |
| NO ALLO | OWABLE V | WILL BE | ASSIGNED | TO THIS | COMPLE NIT HAS | BEEN | UNTIL ALL INTE APPROVED BY | THE DIVISION | | - | | |
| | <u>-</u> | UK A | HON-BIAL | | | | | | | · | | |
| | | | | | | | | OPERATO | OR CERTIFICA | TION | | |
| | 1 | | | | | i | | | y certify the the 4 | | | |
| | | | | | | 1 | | | n is true and comp wledge and belief. | lete to the | | |
| LOT 27.71 | | | | | | | | dest of high kills | | | | |
| 27.71 | AC. | | | | | | | | | | | |
| | l | | | | | 1 | | Matt | Brewer | | | |
| | | | | | | | | Signature | | | | |
| | | | | | | | | Matt J. | Brewer | | | |
| | | | | | | | | Printed Nan | le | | | |
| | | | | | | I | | | cal Enginee | <u>r</u> | | |
| LOT 27.94 | 2 | | | | | 1 | | Title | | | | |
| 27.94 | AL. | | | | | | | 2/25/99 Date | | | | |
| | | | | | | | | | | | | |
| | 1 | | | | | ł | | SURVEY | OR CERTIFICA | ATION . | | |
| | | | | | <u> </u> | | | I hereby certi | fy that the well loc | ation shown | | |
| | | | | | | | | on this plat a | was plotted from fi | eld notes of | | |
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| LOT 28.17 | 3 | | | | | I | | | he best of my be | | | |
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VICINITY MAP



 SEC. _______
 30 ______
 TWP. ______
 RGE. _ 29 - E

 SURVEY _______
 N.M.P.M.

 COUNTY _______
 EDDY

 DESCRIPTION ______
 430'______
 FSL & 330'______

ELEVATION _______ 3615'

OPERATOR MACK ENERGY CORPORATION LEASE CHEYENNE FEDERAL JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117

Attachment to Exhibit #9 NOTES REGARDING THE BLOWOUT PREVENTERS Cheyenne Federal #4 Eddy County, New Mexico

- 1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
- 2. Wear ring to be properly installed in head.
- 3. Blow out preventer and all fittings must be in good condition, 2000 psi WP minimum.
- 4. All fittings to be flanged.
- Safety valve must be available on rig floor at all times with proper connections, valve to be full 2000 psi WP minimum.
- 6. All choke and fill lines to be securely anchored especially ends of choke lines.
- 7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
- 8. Kelly cock on Kelly.
- 9. Extension wrenches and hands wheels to be properly installed.
- 10. Blow out preventer control to be located as close to driller's position as feasible.
- 11. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation all API specifications.

Mack Energy Corporation Exhibit #9 BOPE Schematic



Choke Manifold Requirement (2000 psi WP) No Annular Required

Minimum 4" Nominal choke and kill lines



Mack Energy Corporation Minimum Blowout Preventer Requirements 2000 psi Working Pressure 2 MWP EXHIBIT #10

| | stack Requireme | | |
|-----|---|----------|-------------|
| NO. | Items | Min. | Min. |
| | | I.D. | Nominal |
| 1 | Flowline | 1 | 2" |
| 2 | Fill up line | | 2" |
| 3 | Drilling nipple | | |
| 4 | Annular preventer | <u> </u> | |
| 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 | <u> </u> |
| 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" |

Stack Requirements

Blind Rams Blind Rams Pipe Rams Drilling Spool Casing Head Casing

sizes, retainers, and choke wrenches to be conveniently

- located for immediate use.
 All valves to be equipped with hand-wheels or handles ready for immediate use.
- 6. 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 seamless steel control piping (2000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
- Casinghead connections shall not be used except in case of emergency.
- 11. Do not use kill line for routine fill up operations.

OPTIONAL Flanged Valve

CONTRACTOR'S OPTION TO FURNISH:

16

- 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.
- 3. 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

- 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

Mack Energy Corporation

Exhibit #11 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



Reserve Pit

* Location of separator optional

Below Substructure

Mimimum requirements

| | | 3,0 | 00 MWP | | 5 | 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 |
| 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" | 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 quage | | | 3,000 | | | 5,000 | | | 10,000 |
| 15 | Gas Separator | 1 | 2' x5' | | | 2' x5' | · · · · · | <u> </u> | 2' x5' | t |
| 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

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

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 MWP.

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. 5. 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.
- 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.