

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*

FOR APPROVED  
OMB NO. 1004-0137  
Expires: December 31, 1991

LEASE DESIGNATION AND SERIAL NO.

LC-028480-A

IF INDIAN, ALLOTTEE OR TRIBE NAME

WELL COMPLETION OR RECOMPLETION REPORT

|                                                                                                                                                                                                                                                          |                                         |                                                                                                                   |                                    |                                                            |                                      |                                                                              |                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------|
| <b>1a. TYPE OF WELL:</b><br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other <input type="checkbox"/>                                                                                   |                                         |                                                                                                                   |                                    |                                                            |                                      | <b>7. UNIT AGREEMENT NAME</b>                                                |                                               |
| <b>b. TYPE OF COMPLETION:</b><br>NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other <input type="checkbox"/> |                                         |                                                                                                                   |                                    |                                                            |                                      | <b>8. FARM OR LEASE NAME, WELL NO.</b><br>Western Federal #5                 |                                               |
| <b>2. NAME OF OPERATOR</b><br>Mack Energy Corporation                                                                                                                                                                                                    |                                         |                                                                                                                   |                                    |                                                            |                                      | <b>9. API WELL NO.</b><br>30-015-31777                                       |                                               |
| <b>3. ADDRESS AND TELEPHONE NO.</b><br>P.O. Box 960, Artesia, NM 88211-0960 (505) 748-1288                                                                                                                                                               |                                         |                                                                                                                   |                                    |                                                            |                                      | <b>10. FIELD AND POOL, OR WILDCAT</b><br>Empire Yeso                         |                                               |
| <b>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*</b><br>At surface 2160 FNL & 2310 FEL<br>At top prod. interval reported below<br>At total depth                                                          |                                         |                                                                                                                   |                                    |                                                            |                                      | <b>11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA</b><br>Sec 30 T17S R29E |                                               |
| <b>14. PERMIT NO.</b>                                                                                                                                                                                                                                    |                                         |                                                                                                                   |                                    | <b>DATE ISSUED</b>                                         |                                      | <b>12. COUNTY OR PARISH</b><br>Eddy                                          | <b>13. STATE</b><br>NM                        |
| <b>15. DATE SPUDDED</b><br>5/23/01                                                                                                                                                                                                                       | <b>16. DATE T.D. REACHED</b><br>5/31/01 | <b>17. DATE COMPL. (Ready to prod.)</b><br>6/24/01                                                                |                                    | <b>18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*</b><br>3651 RKB |                                      | <b>19. ELEV. CASING HEAD</b><br>3638                                         |                                               |
| <b>20. TOTAL DEPTH, MD &amp; TVD</b><br>4366                                                                                                                                                                                                             |                                         | <b>21. PLUG, BACK T.D., MD &amp; TVD</b><br>4346                                                                  |                                    | <b>22. IF MULTIPLE COMPL., HOW MANY*</b>                   | <b>23. INTERVALS DRILLED BY</b><br>→ | <b>ROTARY TOOLS</b><br>Yes                                                   | <b>CABLE TOOLS</b>                            |
| <b>24. PRODUCING INTERVAL (S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*</b><br>3929.5-4222.5 Paddock                                                                                                                                         |                                         |                                                                                                                   |                                    |                                                            |                                      |                                                                              | <b>25. WAS DIRECTIONAL SURVEY MADE</b><br>Yes |
| <b>26. TYPE ELECTRIC AND OTHER LOGS RUN</b><br>Gamma Ray, Neutron, Density, Lateralog, Spectral Gamma Ray                                                                                                                                                |                                         |                                                                                                                   |                                    |                                                            |                                      |                                                                              | <b>27. WAS WELL CORED</b><br>No               |
| <b>28. CASING RECORD (Report all strings set in well)</b>                                                                                                                                                                                                |                                         |                                                                                                                   |                                    |                                                            |                                      |                                                                              |                                               |
| CASING SIZE/GRADE                                                                                                                                                                                                                                        | WEIGHT, LB./FT                          | DEPTH SET (MD)                                                                                                    | HOLE SIZE                          | TOP OF CEMENT, CEMENTING RECORD                            |                                      | AMOUNT PULLED                                                                |                                               |
| 13 3/8, K-55                                                                                                                                                                                                                                             | 48                                      | 377                                                                                                               | 17 1/2                             | 400 sx                                                     |                                      | None                                                                         |                                               |
| 8 5/8, J-55                                                                                                                                                                                                                                              | 24                                      | 922                                                                                                               | 12 1/4                             | 475 sx                                                     |                                      | None                                                                         |                                               |
| 5 1/2, J-55                                                                                                                                                                                                                                              | 17                                      | 4360                                                                                                              | 7 7/8                              | 740 sx                                                     |                                      | None                                                                         |                                               |
| <b>29. LINER RECORD</b>                                                                                                                                                                                                                                  |                                         |                                                                                                                   |                                    |                                                            |                                      |                                                                              |                                               |
| SIZE                                                                                                                                                                                                                                                     | T O P (MD)                              | BOTTOM (MD)                                                                                                       | SACKS CEMENT                       | SCREEN (MD)                                                | <b>30. TUBING RECORD</b>             |                                                                              |                                               |
|                                                                                                                                                                                                                                                          |                                         |                                                                                                                   |                                    |                                                            | SIZE                                 | DEPTH SET (MD)                                                               | PACKER SET (MD)                               |
|                                                                                                                                                                                                                                                          |                                         |                                                                                                                   |                                    |                                                            | 2 7/8                                | 4242                                                                         |                                               |
| <b>31. PERFORATION RECORD (Interval, size and number)</b><br>3929.5-4222.5, .41, 95                                                                                                                                                                      |                                         |                                                                                                                   |                                    | <b>32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC</b>       |                                      |                                                                              |                                               |
|                                                                                                                                                                                                                                                          |                                         |                                                                                                                   |                                    | DEPTH INTERVAL (MD)                                        |                                      | AMOUNT AND KIND OF MATERIAL USED                                             |                                               |
|                                                                                                                                                                                                                                                          |                                         |                                                                                                                   |                                    | 3929.5-4222.5                                              |                                      | 2500 gals 15% NE acid                                                        |                                               |
|                                                                                                                                                                                                                                                          |                                         |                                                                                                                   |                                    | 3929.5-4222.5                                              |                                      | 32,000 gals 20% acid                                                         |                                               |
|                                                                                                                                                                                                                                                          |                                         |                                                                                                                   |                                    | 3929.5-4222.5                                              |                                      | 54000 gals 40# gel                                                           |                                               |
|                                                                                                                                                                                                                                                          |                                         |                                                                                                                   |                                    | 3929.5-4222.5                                              |                                      | 5000 cold 15% HCL Acid                                                       |                                               |
| <b>33. PRODUCTION</b>                                                                                                                                                                                                                                    |                                         |                                                                                                                   |                                    |                                                            |                                      |                                                                              |                                               |
| <b>DATE FIRST PRODUCTION</b><br>6/29/01                                                                                                                                                                                                                  |                                         | <b>PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump)</b><br>2 1/2 x 2 x 16' RHBC HVR PAP BNC |                                    |                                                            |                                      | <b>WELL STATUS (Producing or shut-in)</b><br>Producing                       |                                               |
| <b>DATE OF TEST</b><br>7/09/01                                                                                                                                                                                                                           | <b>HOURS TESTED</b><br>24               | <b>CHOKE SIZE</b>                                                                                                 | <b>PROD'N FOR TEST PERIOD</b><br>→ | <b>OIL-BBL.</b><br>125                                     | <b>GAS-MCF.</b><br>130               | <b>WATER-BBL.</b><br>433                                                     | <b>GAS-OIL RATIO</b><br>1040                  |
| <b>FLOW. TUBING PRESS.</b>                                                                                                                                                                                                                               | <b>CASING PRESSURE</b>                  | <b>CALCULATED 24-HOUR RATE</b><br>→                                                                               | <b>OIL-BBL.</b><br>125             | <b>GAS-MCF.</b><br>130                                     | <b>WATER - BBL.</b><br>433           | <b>OIL GRAVITY - API (CORR.)</b><br>38                                       |                                               |
| <b>34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)</b><br>Sold                                                                                                                                                                                |                                         |                                                                                                                   |                                    |                                                            |                                      |                                                                              |                                               |
| <b>35. LIST OF ATTACHMENTS</b>                                                                                                                                                                                                                           |                                         |                                                                                                                   |                                    |                                                            |                                      |                                                                              |                                               |
| <b>36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records</b>                                                                                                                 |                                         |                                                                                                                   |                                    |                                                            |                                      |                                                                              |                                               |
| <b>SIGNED</b> Lisa D. Cart                                                                                                                                                                                                                               |                                         |                                                                                                                   |                                    | <b>TITLE</b> Production Analyst                            |                                      |                                                                              |                                               |
| <b>DATE</b> 7/27/01<br>LES BABYAK<br>PETROLEUM ENGINEER                                                                                                                                                                                                  |                                         |                                                                                                                   |                                    |                                                            |                                      |                                                                              |                                               |

\*(See Instructions and spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES- (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

| FORMATION   | TOP  | BOTTOM | DESCRIPTION, CONTENTS, ETC. | GEOLOGIC MARKERS |             |                            |
|-------------|------|--------|-----------------------------|------------------|-------------|----------------------------|
|             |      |        |                             | NAME             | MEAS. DEPTH | TOP<br>TRUE<br>VERT. DEPTH |
| Empire Yeso | 3877 | 4210   |                             | Queen            | 1653        |                            |
|             |      |        |                             | San Andreas      | 2368        |                            |
|             |      |        |                             | Glorietta        | 3805        |                            |

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