

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other in-  
structions on  
reverse side)Form approved.  
Budget Bureau No. 42-10355.5.

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

|                                                                                                                                                                                                                                                                       |  |                                                                                                                      |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------|--|
| 1a. TYPE OF WELL:<br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other _____                                                                                                                          |  | 5. LEASE DESIGNATION AND SERIAL NO.<br><b>L. C. 070315</b>                                                           |  |
| b. TYPE OF COMPLETION:<br>NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____                                       |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME                                                                                 |  |
| 2. NAME OF OPERATOR<br><b>Ernest A. Hanson</b>                                                                                                                                                                                                                        |  | 7. UNIT AGREEMENT NAME                                                                                               |  |
| 3. ADDRESS OF OPERATOR<br><b>P. O. Box 1515, Roswell, New Mexico</b>                                                                                                                                                                                                  |  | 8. FARM OR LEASE NAME<br><b>Federal "RB"</b>                                                                         |  |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*<br>At surface <b>660' FNL &amp; 1980' FEL</b><br>At top prod. interval reported below <b>Sec. 21, T. 20 S., R. 34 E.</b><br>At total depth <b>Lea County, New Mexico</b> |  | 9. WELL NO.<br><b>1</b>                                                                                              |  |
| 14. PERMIT NO.                                                                                                                                                                                                                                                        |  | DATE ISSUED                                                                                                          |  |
| 15. DATE SPUNDED<br><b>12/20/65</b>                                                                                                                                                                                                                                   |  | 16. DATE T.D. REACHED<br><b>2/11/66</b>                                                                              |  |
| 17. DATE COMPL. (Ready to prod.)<br><b>2/21/66</b>                                                                                                                                                                                                                    |  | 18. ELEVATIONS (DF, REB, RT, GR, ETC.)*<br><b>3644' DF</b>                                                           |  |
| 19. ELEV. CASINGHEAD<br><b>3642'</b>                                                                                                                                                                                                                                  |  | 20. TOTAL DEPTH, MD & TVD<br><b>3742' dolo.</b>                                                                      |  |
| 21. PLUG, BACK T.D., MD & TVD<br><b>3733'</b>                                                                                                                                                                                                                         |  | 22. IF MULTIPLE COMPL., HOW MANY*                                                                                    |  |
| 23. INTERVALS DRILLED BY<br><b>0 - 1551</b>                                                                                                                                                                                                                           |  | 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*<br><b>3523 - 3560' Yates Formation</b> |  |
| 25. WAS DIRECTIONAL SURVEY MADE<br><b>No</b>                                                                                                                                                                                                                          |  | 26. TYPE ELECTRIC AND OTHER LOGS RUN<br><b>GR-Den-Cal</b>                                                            |  |
| 27. WAS WELL CORED<br><b>No</b>                                                                                                                                                                                                                                       |  | 28. CASING RECORD (Report all strings set in well)                                                                   |  |
| CASINO SIZE                                                                                                                                                                                                                                                           |  | WEIGHT, LB./FT.                                                                                                      |  |
| 13-3/8"                                                                                                                                                                                                                                                               |  | 48#                                                                                                                  |  |
| 8-5/8"                                                                                                                                                                                                                                                                |  | 32#                                                                                                                  |  |
| 7"                                                                                                                                                                                                                                                                    |  | 23#                                                                                                                  |  |
| 4-1/2"                                                                                                                                                                                                                                                                |  | 11.6#                                                                                                                |  |
| DEPTH SET (MD)                                                                                                                                                                                                                                                        |  | HOLE SIZE                                                                                                            |  |
| 30'                                                                                                                                                                                                                                                                   |  | 20"                                                                                                                  |  |
| 1551'                                                                                                                                                                                                                                                                 |  | 12"                                                                                                                  |  |
| 3310'                                                                                                                                                                                                                                                                 |  | 8"                                                                                                                   |  |
| 3733'                                                                                                                                                                                                                                                                 |  | 6"                                                                                                                   |  |
| CEMENTING RECORD                                                                                                                                                                                                                                                      |  | AMOUNT PULLED                                                                                                        |  |
| 2 cu. yds.                                                                                                                                                                                                                                                            |  | Circ.                                                                                                                |  |
| 450 sx.                                                                                                                                                                                                                                                               |  | Circ.                                                                                                                |  |
| 25 sx.                                                                                                                                                                                                                                                                |  | 3085'                                                                                                                |  |
| 285 sx.                                                                                                                                                                                                                                                               |  | None                                                                                                                 |  |
| 29. LINER RECORD                                                                                                                                                                                                                                                      |  | 30. TUBING RECORD                                                                                                    |  |
| SIZE                                                                                                                                                                                                                                                                  |  | TOP (MD)                                                                                                             |  |
| BOTTOM (MD)                                                                                                                                                                                                                                                           |  | SACKS CEMENT*                                                                                                        |  |
| SCREEN (MD)                                                                                                                                                                                                                                                           |  | SIZE                                                                                                                 |  |
| DEPTH SET (MD)                                                                                                                                                                                                                                                        |  | PACKER SET (MD)                                                                                                      |  |
| 2-3/8"                                                                                                                                                                                                                                                                |  | 3450'                                                                                                                |  |
| None                                                                                                                                                                                                                                                                  |  | None                                                                                                                 |  |
| 31. PERFORATION RECORD (Interval, size and number)<br><b>1 - 0.50" jet perf. per ft. @ 3523', 3530', 3536', 3545', 3554' and 3560'</b>                                                                                                                                |  | 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.                                                                       |  |
| DEPTH INTERVAL (MD)                                                                                                                                                                                                                                                   |  | AMOUNT AND KIND OF MATERIAL USED                                                                                     |  |
| 3523-3560'                                                                                                                                                                                                                                                            |  | Frac. w/500 gals. acid                                                                                               |  |
|                                                                                                                                                                                                                                                                       |  | + 20,000 gals. lease oil                                                                                             |  |
|                                                                                                                                                                                                                                                                       |  | + 24,000 lbs. sand                                                                                                   |  |
| 33.* PRODUCTION                                                                                                                                                                                                                                                       |  | WELL STATUS (Producing or shut-in)                                                                                   |  |
| DATE FIRST PRODUCTION<br><b>2-20-66</b>                                                                                                                                                                                                                               |  | Producing                                                                                                            |  |
| PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)<br><b>Flowing</b>                                                                                                                                                                                |  |                                                                                                                      |  |
| DATE OF TEST<br><b>2-20-66</b>                                                                                                                                                                                                                                        |  | HOURS TESTED<br><b>24</b>                                                                                            |  |
| CHOKE SIZE<br><b>1/4"</b>                                                                                                                                                                                                                                             |  | PROD'N. FOR TEST PERIOD<br><b>49</b>                                                                                 |  |
| OIL—BBL.<br><b>49</b>                                                                                                                                                                                                                                                 |  | GAS—MCF.<br><b>1</b>                                                                                                 |  |
| WATER—BBL.<br><b>1</b>                                                                                                                                                                                                                                                |  | GAS-OIL RATIO<br><b>32</b>                                                                                           |  |
| FLOW. TUBING PRESS.<br><b>49</b>                                                                                                                                                                                                                                      |  | CASING PRESSURE<br><b>1</b>                                                                                          |  |
| CALCULATED 24-HOUR RATE<br><b>49</b>                                                                                                                                                                                                                                  |  | OIL GRAVITY-API (CORR.)<br><b>32</b>                                                                                 |  |
| 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)<br><b>Vented</b>                                                                                                                                                                                           |  | TEST WITNESSED BY<br><b>Henderson</b>                                                                                |  |
| 35. LIST OF ATTACHMENTS<br><b>2 - GR-Den-Cal logs</b>                                                                                                                                                                                                                 |  |                                                                                                                      |  |
| 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records                                                                                                                                     |  |                                                                                                                      |  |
| SIGNED <b>Mary J. Schuman</b>                                                                                                                                                                                                                                         |  | TITLE <b>Geologist</b>                                                                                               |  |
| DATE <b>2-21-66</b>                                                                                                                                                                                                                                                   |  |                                                                                                                      |  |

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

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

## 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.                                 |
|-----------|-----|--------|-------------------------------------------------------------|
|           |     |        | No appreciable fluids were encountered between 1551' to TD. |

## 38. GEOLOGIC MARKERS

| NAME | TOP         |                  |
|------|-------------|------------------|
|      | MEAS. DEPTH | TRUE VERT. DEPTH |
|      |             | 33' 40" 12       |

UNITED STATES  
DEPARTMENT OF THE INTERIOR

SUBMIT IN TYPE  
(Other instructions on reverse side)

Form approved.  
Bureau No. 42-R1424.

LOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

|                                                                                                                                                                                                                                 |                                                            |                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|
| 1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>                                                                                                                |                                                            | 5. LEASE DESIGNATION AND SERIAL NO.<br>L. C. 070315                 |
| 2. NAME OF OPERATOR<br>Ernest A. Hanson                                                                                                                                                                                         |                                                            | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME                                |
| 3. ADDRESS OF OPERATOR<br>P. O. Box 1515, Roswell, New Mexico                                                                                                                                                                   |                                                            | 7. UNIT AGREEMENT NAME                                              |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)<br>At surface<br>660' FNL & 1980' FEL<br>Sec. 21, T. 20 S., R. 34 E., N.M.P.M.<br>Lea County, New Mexico |                                                            | 8. FARM OR LEASE NAME<br>Federal "RD"                               |
| 14. PERMIT NO.                                                                                                                                                                                                                  | 15. ELEVATIONS (Show whether DF, RT, GR, etc.)<br>3644' DF | 9. WELL NO.<br>1                                                    |
|                                                                                                                                                                                                                                 |                                                            | 10. FIELD AND POOL, OR WILDCAT<br>Middle Lynch-Yates                |
|                                                                                                                                                                                                                                 |                                                            | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA<br>Sec. 21-20S-34E |
|                                                                                                                                                                                                                                 |                                                            | 12. COUNTY OR PARISH<br>Lea                                         |
|                                                                                                                                                                                                                                 |                                                            | 13. STATE<br>N. Mex.                                                |

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON\* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☒

FRACTURE TREATMENT ☒

SHOOTING OR ACIDIZING ☒

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT\* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

2/11/66 Ran 4-1/2", 11.6 lb., J-55 casing to 3733.37'. Began pulling 7" intermediate casing. Shut down cable tools overnight.

2/12/66 Pulled total of 3085' of 7" casing. Cemented 4-1/2" casing with 185 sx. Incor w/4% Gel + 100 sx. neat Incor cement. WOC.

2/16/66 Perforated 1 - 0.50" jet per foot @ 3523', 3530', 3536', 3545', 3554' and 3560'. Frac w/500 gals. acid + 20,000 gals. lease oil + 20,000 lbs. 20-40 sand + 4,000 lbs. 8-12 sand.

18. I hereby certify that the foregoing is true and correct

SIGNED Harry J. Schuman TITLE Geologist

DATE 2/17/66

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side

FEB 21 1966  
J. L. GUNN  
ACTING DISTRICT ENGINEER