

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R355.5

copy 54

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

5. LEASE DESIGNATION AND SERIAL NO.

LC 029390 (a)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Keohane et al Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Shugart Y, SR, Q, GR

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Section 28, T18S, R31E

12. COUNTY OR PARISH

Eddy

13. STATE

New Mexico

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ Other **Water injection**

b. TYPE OF COMPLETION:

NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other **Re-entry**

2. NAME OF OPERATOR

Shenandoah Oil Corporation

3. ADDRESS OF OPERATOR

1500 Commerce Building, Fort Worth, Texas 76102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface 1980' FNL and 360' FWL Section 28, T18S, R31E, E.

At top prod. interval reported below

Eddy County, New Mexico

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

Re-entry 8/10/72

16. DATE T.D. REACHED

8/13/72

17. DATE COMPL. (Ready to prod.)

for injection 8/14/72

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

3614 GL 3624 KB

19. ELEV. CASINGHEAD

3613'

20. TOTAL DEPTH, MD & TVD

Original T.D. 3650'

21. PLUG, BACK T.D., MD & TVD

PBTD 3604'

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

Reverse Unit

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

3265' - 3275'

3535' - 3540'

3286' - 3294' Queen Fm.

3546' - 3550' Penrose

25. WAS DIRECTIONAL SURVEY MADE

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26. TYPE ELECTRIC AND OTHER LOGS RUN

Acoustilog run by Gulf Oil 3/5/62

27. WAS WELL CORED

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28. CASING RECORD (Report all strings set in well) in 1962

| CASING SIZE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | CEMENTING RECORD  | AMOUNT PULLED |
|-------------|-----------------|----------------|-----------|-------------------|---------------|
| 8-5/8"      | 24#             | 250'           | 11"       | 200 sx circulated | None          |
| 4-1/2"      | 9.5#            | 3,650'         | 7-7/8"    | 752 sx circulated | None          |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) |
|------|----------|-------------|---------------|-------------|
|      |          |             |               |             |

30. TUBING RECORD

| SIZE                 | DEPTH SET (MD) | PACKER SET (MD) |
|----------------------|----------------|-----------------|
| See attached diagram |                | 3182'           |
|                      |                | 3475'           |

31. PERFORATION RECORD (Interval, size and number)

3265'-3275' (10' 2SPF) 20 holes  
3286'-3294' (8' 2SPF) 16 "  
3535'-3540' (5' 2SPF) 10 "  
3546'-3550' (4' 2SPF) 8 "  
Total 54 holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---------------------|----------------------------------|
| 3265 - 3275         | 750 gals 15% N. E. HCL Acid      |
| 3286 - 3294         |                                  |
| 3535 - 3540         | 750 gals 15% N. E. HCL Acid      |
| 3546 - 3550         |                                  |

33.\* PRODUCTION

DATE FIRST PRODUCTION  
Injection Well  
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)  
Completed for water injection 8/14/72

WELL STATUS (Producing or shut-in)

SI pending comp facilities

| DATE OF TEST        | HOURS TESTED    | CHOKE SIZE              | PROD'N. FOR TEST PERIOD | OIL—BBL. | GAS—MCF.   | WATER—BBL. | OIL GRAVITY-API (CORR.) |
|---------------------|-----------------|-------------------------|-------------------------|----------|------------|------------|-------------------------|
|                     |                 |                         |                         |          |            |            |                         |
| FLOW. TUBING PRESS. | CASING PRESSURE | CALCULATED 24-HOUR RATE | OIL—BBL.                | GAS—MCF. | WATER—BBL. |            |                         |

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

(1) Copy of Acoustilog run by Gulf Oil in 1962 (2) Diagrammatic sketch

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

T. P. Batte

TITLE

Vice President

DATE

8/18/72

\*(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:<br>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 |      |           | 38. GEOLOGIC MARKERS                                        |             |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|-------------------------------------------------------------|-------------|------------------|
| FORMATION                                                                                                                                                                                                                                          | TOP  | BOTTOM    | NAME                                                        | MEAS. DEPTH | TRUE VERT. DEPTH |
| <b>Taken from formation record filed in 1962:</b>                                                                                                                                                                                                  |      |           |                                                             |             |                  |
| Surface                                                                                                                                                                                                                                            | 0    | 72        | Tops picked from log:<br><br>Base Salt<br>Queens<br>Penrose | 1910'       | + 1714           |
| Red Bed                                                                                                                                                                                                                                            | 72   | 750       |                                                             | 3252'       | + 372            |
| Anhy. & Salt                                                                                                                                                                                                                                       | 750  | 1240      |                                                             | 3522'       | + 102            |
| Salt & Anhy.                                                                                                                                                                                                                                       | 1240 | 1975      |                                                             |             |                  |
| Anhydrite                                                                                                                                                                                                                                          | 1975 | 2167      |                                                             |             |                  |
| Anhy. & Gyp.                                                                                                                                                                                                                                       | 2167 | 2733      |                                                             |             |                  |
| Anhy. & Lime                                                                                                                                                                                                                                       | 2733 | 2939      |                                                             |             |                  |
| Anhy, Lime & Gyp                                                                                                                                                                                                                                   | 2939 | 3106      |                                                             |             |                  |
| Anhy. & Lime                                                                                                                                                                                                                                       | 3106 | 3334      |                                                             |             |                  |
| Lime & Sand                                                                                                                                                                                                                                        | 3334 | 3604 PBTD |                                                             |             |                  |

## WELL PROFILE

OPERATOR SHENANDOAH OIL CORP

CASING

LINER

TUBING

1

2

3

WELL # KEOHNE ETAL B FLD #1FIELD SHUGARTCOUNTY EDDYSTATE N. MEXICODATE 8-14-72☐ NEW COMPLETION ☐ WORKOVER

SIZE

WEIGHT

GRADE

THREAD

DEPTH

ITEM  
NO.

EQUIPMENT AND SERVICES

ESTIMATE

ABOVE TT. PKR. - TOTAL OF 102 JTS.  
 BELOW TOP JT. - 2-10' + 1-4' SUBS.  
 TOTAL TUBING ABOVE TT 3182.29'

3182'

23" EPR PLASTIC COATED TUBING.

4 1/2" 9.5' CASING

2.98'

31.64

10.74

247.77'

3.43'

31.95

10.71

30.96

31.85

68

TT

JT

R

8

JT

LS

JT

R

JT

JT

GP

QUELAYS  
 3265.75  
 3286.94

PEWNOSE  
 3535.40  
 3546.50

3585

3604 T.D.

3182.29 TOP OF TT. PKR. W/ UNLOADER

3216.91 TOP OF REG 4 1/2" - 300 B.P.O. 2 1/2" X 10'

3475.42 TOP LOC-SET PACKER

3510.80 TOP OF REG. 12" - 300 B.P.O. 2 1/2" X 10'

COMMENTS:

TOTAL ESTIMATE

PACKERS SET IN 17000# TENSION 8-14-72  
 HALF FULL FLUID - RUNNING OFFER - WATER & OIL  
 ZERO 10' ABOVE GR. ALL MEAS. R.M.

TOTAL 114 JTS TUBING IN HOLE

PREPARED BY

OFFICE

PHONE

Worksheet  
 No. 523



SAVE TIME AND MONEY WITH  
 COMPLETIONS BY BAKER

BAKER OIL TOOLS, INC.

HOUSTON LOS ANGELES NEW YORK

PRINTED IN U.S.A.

WELL INITIAL \_\_\_\_\_  
 FLUIDS FINAL \_\_\_\_\_

RECEIVED  
 AUG 21 1972  
 U.S. GEOLOGICAL SURVEY  
 ARTS & MINES DIV.