Form 3160-5
(November 1983)
(Formerly 9-331)

**UNITED STATES**
**DEPARTMENT OF THE INTERIOR**
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.: LC-028784-b

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

C/SF

# 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.)

7. UNIT AGREEMENT NAME:

OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Phillips Petroleum Company

8. FARM OR LEASE NAME: Keely B Federal

3. ADDRESS OF OPERATOR: 4001 Penbrook St., Odessa, Texas 79762

9. WELL NO.: 11

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: Unit O, 660' FSL & 1980' FEL

10. FIELD AND POOL, OR WILDCAT: Gb-J-SR-Q-Gb-SA

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 26, 17-S, 29-E

RECEIVED BY
SEP -5 1986
O. C. D.
ARTESIA, OFFICE

14. PERMIT NO.: API No. 30-015-03133

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 3573' RKB

12. COUNTY OR PARISH: Eddy

13. STATE: NM

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

| NOTICE OF INTENTION TO: | | | | SUBSEQUENT REPORT OF: | | | |
|---|---|---|---|---|---|---|---|
| TEST WATER SHUT-OFF | [ ] | PULL OR ALTER CASING | [ ] | WATER SHUT-OFF | [ ] | REPAIRING WELL | [ ] |
| FRACTURE TREAT | [ ] | MULTIPLE COMPLETE | [ ] | FRACTURE TREATMENT | [ ] | ALTERING CASING | [ ] |
| SHOOT OR ACIDIZE | [ ] | ABANDON* | [ ] | SHOOTING OR ACIDIZING | [ ] | ABANDONMENT* | [ ] |
| REPAIR WELL | [ ] | CHANGE PLANS | [ ] | | | | |
| (Other) Convert to Water Injector | | | [X] | (Other) | | | |

(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.)*

Recommended procedure to convert well to water injection:

1. MI & RU DDU.
2. COOH with rods and pump. Install BOP. COOH with tubing. GIH with 6-1/4" bit and casing scraper on 2-3/8" work string. Clean out as required to original TD of 3126'.
3. COOH with tubing, scraper and bit.
4. GIH with 7" RTTS-type packer on 2-3/8" work string. Set packer at ±2375'. Pressure annulus to 500 psi for 15 minutes to verify casing integrity. If casing does not hold pressure, reset packer up hole and retest annulus. Should casing fail to hold pressure, casing inspection log will be run.
5. Release packer, GIH and set packer at ±2920'.

**See attached pages for additional procedure**

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

SIGNED W. J. Mueller TITLE Engr. Supv., Resv. DATE August 27, 1986

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE 9-4-86

CONDITIONS OF APPROVAL, IF ANY:

Subject to Like Approval by State

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

6. MI _____ treating company. Phillips supervisor will hold safety meeting with treating company personnel. RU to acidize the San Andres open hole interval with 2,500 gallons of 15% NEFE HCl containing clay stabilizer. Load annulus with produced water and monitor level in annulus during treatment. Pressure test all lines to 5,000 psi before starting treatment. Keep treating pressure as low as possible, maximum treating pressure 5,000 psi. Treat at 4-5 BPM as follows:

   a. Open circulating valve and displace tubing with 450 gallons of acid. Close circulating valve.
   b. Pump 1,050 gallons acid.
   c. Pump 250 gallons 10 ppg brine containing 1.5 lb/gal graded rock salt.
   d. Pump 1,000 gallons acid.
   e. Flush with 22 bbls of 2% KCl water.

7. Flow and swab back acid and load water (total volume is 87 bbls).

8. COOH with tubing and packer.

9. GIH with packer-type RBP and RTTS-type packer on tubing. Set RBP at ±2,920'. Set packer at ±2,910' and test RBP to 1,000 psi. Release packer.

10. Spot 18 bbls of 10% acetic acid from 2,880' to 2,430'. COOH with tubing and packer.

11. MI _____ wireline company. Phillips supervisor will hold safety meeting with wireline company personnel. Run Gamma Ray/Collar Locator log from TD 3,126' to 2,200'. RU to perforate 7" casing using 4" OD casing gun loaded with deep penetrating DML charges, 2 shots/ft, spiral shot phasing. Perforate as follows top to bottom:

| | | |
|---|---|---|
| 2,435' - 2,437' | 2 feet | 4 shots |
| 2,538' - 2,542' | 4 feet | 8 shots |
| 2,650' - 2,652' | 2 feet | 4 shots |
| 2,716' - 2,720' | 4 feet | 8 shots |
| 2,732' - 2,736' | 4 feet | 8 shots |
| 2,834' - 2,836' | 2 feet | 4 shots |
| 2,869' - 2,871' | 2 feet | 4 shots |
| TOTAL | 20 feet | 40 shots |

Note: Casing collars are located at 2,425', 2,457', 2,489', 2,522', 2,554', 2,584', 2,616', 2,647', 2,679', 2,711', 2,743', 2,775', 2,807', and 2,840' from Dresser Atlas PFC Log run 9/21/81.

12. GIH with 7" RTTS-type packer on 2-3/8" work string. Set packer at ±2,375'. RU and swab well to clean up perforations.

13. RU _____ treating company to acidize Grayburg perforations with 5,400 gallons of 7-1/2% NEFE HCl. Load annulus with produced water and hold 500 psi on annulus while treating. Pressure test all lines to 5,000 psi before starting treatment. Keep treating pressure as low as possible, maximum treating pressure 5,000 psi. Treat at 4-5 BPM as follows:

    a. Open circulating valve and displace tubing with 350 gallons of acid. Close circulating valve.
    b. Pump 5,050 gallons of acid containing one (1) 1.1 s.g. ball sealer in each 50 gallons acid (101 balls total).
    c. Flush with 30 bbls of 2% KCl water.

    Note: 7-1/2% acid must contain clay stabilizer and fines suspension agent.

14. Flow and swab back acid and load water (total load volume 158 bbls).

15. Unseat packer, GIH and release RBP. COOH with tubing, packer, and bridge plug.

16. Notify N.M.O.C.D. (Mike Williams, (505) 748-1283, Artesia, New Mexico) 24 hours prior to performing this step. GIH with 7" Baker Model AD-1 (or equivalent) plastic coated injection packer on plastic coated 2-3/8", 4.7#/ft, J-55 8rd EUE tubing. Displace tubing-casing annulus with 2% KCl water containing 1% by volume of Techni-hib 370 (packer fluid). Set packer at ±2,375' in 10,000 lbs tension. Pressure test casing to 500 psi for 15 minutes; use two-pen recorder to record tubing and casing pressure during test.

    Note: Packer should have shear ring installed to allow the packer to be released by shearing with ±25,000 lbs tension.

17. Remove BOP, install wellhead injection assembly, and place well on injection. Do not exceed 485 psi surface injection pressure.

JCC/TDW