

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

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 type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER | | 5. LEASE DESIGNATION AND SERIAL NO. Contract #34 |
| 2. NAME OF OPERATOR Getty Oil Company | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache |
| 3. ADDRESS OF OPERATOR P.O. Box 3360, Casper, Wyoming 82602 | | 7. UNIT AGREEMENT NAME |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1850' FNL and 990' FWL (SW/NW) Section 34 | | 8. FARM OR LEASE NAME Jicarilla "C" |
| 14. PERMIT NO. ----- | | 9. WELL NO. #28E |
| 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6831' GR | | 10. FIELD AND POOL, OR WILDCAT Basin Dakota |
| | | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA E, Section 34-T25N-R5W |
| | | 12. COUNTY OR PARISH Rio Arriba |
| | | 13. STATE New Mexico |

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) Notice of intent to complete ☒

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.)

Getty Oil Company proposes to complete this well according to the following procedure:

1. Move in and rig up workover unit.
2. Nipple down wellhead, nipple up BOP.
3. Pick up 2 3/8" tubing, 5 1/2" casing scraper, and 4 3/4" bit.
4. Trip in hole with bit, casing scraper, and tubing to cement. Drill out cement to DV tool at 4271' and to float collar (PBTD) at 7269'.
5. Circulate hole clean with 1% KCl water.
6. Trip out of hole with tubing, casing scraper, and bit.
7. Move in rig up wireline unit. Run GR-CBL-VDL-CCL from the PBTD to surface. Rig down wireline unit.
8. Pressure test casing to 3000 psi for 15 minutes. Bleed pressure off casing.

(OVER)

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

SIGNED

[Signature]

TITLE

Area Superintendent

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

NMOCC

*See Instructions on Reverse Side

| | |
|--|--------|
| APPROVED | |
| DATE | 6-1-84 |
| JUN 12 1984 | |
| <i>[Signature]</i> | |
| AREA MANAGER FARMINGTON RESOURCE AREA | |

9. Trip in with tubing and lower fluid level down with N₂ or swabbing to 5900'.
10. Trip out of hole with tubing.
11. Move in rig up perforating company. Pick up perforating gun. Perforating gun will be a 4" HSC, will have 20 to 22 grams/charge, an effective hole diameter of 0.40 inches, and 180° phasing. Perforate the Dakota with 1 SPF in the following intervals:

| | |
|---------------|-----------|
| 7169' - 7177' | 8' |
| 7183' - 7186' | 3' |
| 7202' - 7220' | 18' |
| 7224' - 7226' | 2' |
| 7236' - 7238' | <u>2'</u> |
| Total | 33' |

Perforation depths are to be correlated with Gearhart's CDL and CNL Log dated May 9, 1984.

12. Pull out of hole with perforating gun. Lay down gun, rig down perforating company.
13. Pick up 5 1/2" packer. Trip in hole with packer, tubing and set packer at 6900'.
14. Move in rig up service company and acidize well according to the attached acid breakdown procedure.
15. Shut well in for 1 hour.
16. Flow back spent acid. Rig down service company.
17. Release packer. Lower packer past perms. Trip out of hole with tubing and packer. Lay down packer.
18. Trip in hole with 2 3/8" tubing to 6700'. A blast joint will be set below the wellhead.
19. Rig up service company and frac the Dakota as per attached frac schedule.
20. Shut well in overnight to allow frac to heal. Rig down service company.
21. Gradually open well to pit and flow back frac fluid.
22. After the Dakota is cleaned up, move in and rig up wireline unit. Trip in hole with GR log to the PBTB and log wells to 7050'.
23. Trip out of hole with GR. Rig down wireline unit.
24. Trip out of hole with blast joint. Lay down blast joint.
25. Set tubing at 7220'.
26. Nipple down BOP, nipple up wellhead.
27. Flow test Dakota.
28. Connect well to sales line.

ACID TREATMENT

Breakdown Jicarilla "C" 28E perms from 7169' to 7238' with 1650 gallons of 15% HCl acid containing 2 gallons Clay Sta II, 41 lbs of Citric Acid Crystals, 2 gallons Lo Surf 259, 4 gallons HAI-55 and 500 SCF/bbl Nitrogen. Drop 2 - 7/8" RCN ball sealers per bbl the last 33 bbls of the 15% HCl acid. Flush acid to perms with 1650 gals of 1% KCl water containing 2 gallons of Clay Sta II and 500 SCF/bbl Nitrogen.

Pump rate for acid breakdown should be kept at 6 BPM.

All water that will come into contact with the Dakota formation should be 1% KCl water containing 1 gal/1000 gals Clay Sta II.

Water that is used in the acid treatment and frac treatment should be as clean as possible.

All chemicals being used in the well should be tested for compatibility and concentrations needed.

FRAC TREATMENT PROCEDURE

Procedure

Frac the Dakota by a manifold of 2 3/8" tubing and 5 1/2", 14.0 lb/ft K-55 casing. The fracturing fluid will consist of 70 Q foam which will be generated downhole. The liquid and sand phase with 20% of the nitrogen being pumped down the tubing casing annulus. The remaining nitrogen will be pumped down 2 3/8" tubing. The pump rates for the 70 Q foam will be 25 BPM. The nitrogen rate will be 23,550 scf/min.

The liquid phase will consist of 1% KCl water containing 20 lbs/1000 gals WG-12, 5 gals/1000 gals Pen-5, 1 gal/1000 gals Clay Sta II, and 1 gal/1000 gals Lo Surf 259. Buffers and breakers are to be added as needed. A maximum of 10 hours for breakdown for the gel will be required. The pad portion will contain 25 lbs/1000 gals WAC-11 per gal of foam in addition to the liquid phase and components.

The proppant phase will consist of a 20-40 mesh sand of either Ottawa sand or Heart of Texas sand. All sand will be tagged with 1 millicurie per 3000 lbs for determination of frac height and growth tendencies.

Pumping Schedule

| <u>Foam (gal)</u> | <u>1% KCL Water (gal)</u> | <u>Sand Concentration (lbs/gals)</u> | <u>Proppant (lbs)</u> |
|-------------------|---------------------------|--|-----------------------|
| 14,000 | 4,200 | Pad | 0 |
| 7,000 | 2,100 | 1/2 | 3,500 |
| 6,000 | 1,800 | 1 | 6,000 |
| 5,000 | 1,500 | 1 1/2 | 7,500 |
| 9,000 | 2,700 | 2 | 18,000 |
| 11,000 | 3,300 | 3 | 33,000 |
| 10,000 | 3,000 | 3 1/2 | 35,000 |
| 7,000 | 2,100 | 4 | 28,000 |
| | 7,300 | Flush | 0 |
| 69,000 | 28,000 | | 131,000 |

Lab tests should be run on all chemicals and fluids to determine their compatibility with the formation fluids.