

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 ☐ GAS WELL ☒ OTHER ☐

2. NAME OF OPERATOR
Getty Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 3360, Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
1850' FSL and 1190' FWL (NW/SW) of Section 21

14. PERMIT NO. _____

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6617' GR

5. LEASE DESIGNATION AND SERIAL NO.
Contract #34

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Jicarilla Apache

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Jicarilla "C"

9. WELL NO.
#26E

10. FIELD AND POOL, OR WILDCAT
Basin Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
L. Section 21-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:

Completion 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 4205' and to float collar (PBTD) at 7130'.
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.

(OVER)

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

SIGNED [Signature]

TITLE Area Superintendent

DATE 6-1-84

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

*See Instructions on Reverse Side

APPROVED

JUN 12 1984

AREA MANAGER
FARMINGTON RESOURCE AREA

8. Pressure test casing to 3000 psi for 15 minutes. Bleed pressure off casing.
9. Trip in with tubing and lower fluid level down with N₂ or swabbing to 5800'.
10. Trip out of hole with tubing.
11. Move in rig up perforating company. Pick up perforating gun. Perforating gun will be 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:

7028' - 7037'	9'
7042' - 7046'	4'
7066' - 7071'	5'
7080' - 7090'	10'
Total	<u>28'</u>

Perforation depths are to be correlated with Gearhart's CDL and CNL Log dated April 28, 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 6800'.
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 6500'. 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 PBTD and log well to 6900'.
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 7070'.
26. Nipple down BOP, nipple up wellhead.
27. Flow test Dakota.
28. Connect well to sales line.

ACID TREATMENT

Breakdown Jicarilla "C" 26E perfs from 7028' to 7090' with 1400 gals of 15% HCl acid containing 2 gallons of Clay Sta II, 34 lbs citric acid flakes, 2 gallons Lo Surf 259, 3 gallons HAI-55, and 500 SCF/bbl Nitrogen. Drop 2 - 7/8" RCN ball sealers per barrel during the last 28 bbls of the 15% HCL acid. Flush acid with 1400 gallons of 1% KCl water containing 2 gallons of Clay Sta II and 500 SCF per 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 oreither 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.