

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONS. COMMISSION
Bureau LD
Artesia, NM 88210

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

SEP 17 1993

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

YATES PETROLEUM CORPORATION (505) 748-1471

3. Address and Telephone No.

105 South 4th St., Artesia, NM 88210

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1650' FNL & 990' FWL (Unit E, SWNW) of Section 25-T18S-R30E

5. Lease Designation and Serial No.

NMLC028990B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Creek AL #9

9. API Well No.

30-015-20290

10. Field and Pool, or Exploratory Area

Shugart Yates Seven Rivers Queen

11. County or Parish, State

Eddy County, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Convert to injection well
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

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

13. 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.)*

Please see attached procedure for converting well to an injection well.

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

Signed

Title Production Supervisor

Date August 25, 1993

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Yapi: 30-015-20290
NMCCO289-B

Creek AL #9
E 25-18S-30E
1650' FNL & 990' FWL

Prognosis

Yates Petroleum Corporation is converting the Creek AL #9 to an injection well as part of the Creek AL Federal Shugart Waterflood Project as per the NMOCD Order No. R-9896.

The Creek AL #9 has 5-1/2" 14# casing set @ 3316' with 4-3/4" open hole from 3316' to 3594'. (PBTD-3568')

YPC proposes to:

1. Set RBP @ +3250'.
2. Squeeze Penrose perforations (3150-3221)
3. Squeeze Queen perforations (2944-2955)
4. Drill out cement and clean out hole to 3568'.
5. Underream 4-3/4" hole to 6-3/4" hole from 3316' to 3568' using Smith International Minidome Bear Cub PDC cutter underreamer.
NOTE Neil Bracksieck - Smith International (see attached information concerning case histories of Grayburg underreamed work)
6. Run caliper after underreaming the well.
7. Run 4-1/2" 11.6# J-55 flush joint liner.
Cement to top of liner with Microbond Cement as per the attached recommendation.
Recommend reciprocating pipe while cementing.
Set top of liner @ +3050'.
8. Drill out cement and clean hole to 3568'.
9. Test top of liner.
If the liner does not test, squeeze top of liner with micro-matrix cement.
10. Run CBL from bottom of liner to top of cement in 5-1/2" string.

Prepare to perforate, acidize and frac Middle Grayburg

11. TIH with 3-3/8" casing guns with deepest penetration.
Perforate Middle Grayburg with 7 - 0.40" holes as follows.

3425, 3427, 3431
3497, 3500
3523, 3525
 12. Run 3050' 2-7/8" tubing and 520' 2-3/8" tubing.
 13. Set RBP @ +3550'. Spot 2 bbl 15 % HCl.
Set packer @ +3470'.
Acidize perms (3497-3525) w/2000 gal 15 % HCl acid and 10 ball sealers
@ 3-5 BPM down 2-7/8" tubing.
NOTE: 15 % HCl should contain per 1000 gallons:
1 gal I-17A corrosion inhibitor
2 gal NINE-40 surfactant
2 gal LT-32 penetrating surfactant
5 gal citric acid liquid, iron control
 14. Set RBP @ +3470'. Spot 2 bbl 15 % HCl.
Set packer @ +3390'.
Acidize perms (3425-3431) w/1000 gal 15 % HCl acid and 10 ball sealers
@ 3-5 BPM down 2-7/8" tubing.
 15. Set RBP @ +3550'. Set packer @ +3390'. Swab back load and test.
 16. Step rate test using John West Engineering of Hobbs.
NOTE - Request Winfred to run job.
 1. If injectivity is adequate, run Cardinal survey(injection profile/temperature survey) to see where fluid is going.
 2. If injectivity is not adequate, proceed to step 17(frac Middle Grayburg).
- NOTE - The step rate testing and injection profiles are necessary to acquire data to properly size the downhole flow regulators.
17. Frac Middle Grayburg perms (3425-3525) as per attached schedule.
Run Cardinal survey (injection profile/temperature survey.)

18. After frac, within 30 sec after flush, flow back the well @ 1/4 - 1/2 BPM for 30 minutes. Open the well up and flow back @ 1-2 BPM until flow drops off. Swab load back.

Prepare to perforate, acidize and frac Penrose.

19. TIH w/3-3/8" casing guns with deepest penetration.
Perforate Penrose with 7 - 0.40" holes as follows.

3153, 3155
3167, 3168
3215, 3216, 3218

20. Run 3050' 2-7/8" tubing and 300' 2-3/8" tubing.
21. RIH with RBP and packer.
Set RBP @ +3250'. Spot 2 bbls 15 % HCl.
Set packer @ +3190'.
Acidize perfs (3215-3218) w/1000 gal 15 % HCl and 10 ball sealers
@ 3-5 BPM down 2-7/8" tubing.
22. Set RBP @ +3190'. Spot 2 bbl 15 % HCl.
Set packer @ +3120'.
Acidize perfs (3153-3168) w/1000 gal 15 % HCl and 10 ball sealers
@ 3-5 BPM down 2-7/8" tubing.
23. Set RBP @ +3250'. Set packer @ +3120'.
Swab back load and test.
24. Step rate test using John West Engineering of Hobbs.
NOTE - Request Winfred to run the job.
 1. If injectivity is adequate, run Cardinal survey (injection profile/temperature survey) to see where fluid is going.
 2. If injectivity is not adequate, proceed to step 25 (frac Penrose).
25. Frac Penrose perfs (3153-3218) as per the attached schedule.
Run Cardinal survey (injection profile/temperature survey).