

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OIL CONS. COMMISSION  
Drawer DD  
Artesia, NM 88210

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

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 #6

9. API Well No.

30-015-20271

10. Field and Pool, or Exploratory Area

Shugart Yates Seven Rivers Queen

11. County or Parish, State

Eddy County, New Mexico

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)

660' FNL & 990' FWL (Unit D, NWNW) of Section 25-T18S-R30E

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:

John. Smith  
Api : 30-05-20271  
NMLC 028990B

Creek AL #6  
D 25-18S-30E  
660' FNL & 990' FWL

Prognosis

Yates Petroleum Corporation is converting the Creek AL #6 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 #6 has 5-1/2" 14# & 15.5# casing set @ 3286' with 4-3/4" open hole from 3286' to 3578'.

YPC proposes to:

1. Set RBP @ +3280'.
2. Squeeze Penrose perforations (3172-3240).
3. Drill out cement and clean out hole to 3578'.
4. Underream 4-3/4" hole to 6-3/4" hole from 3286' to 3578' using Smith International Minidome Bear Cub PDC cutter underreamer.  
NOTE Neil Bracksieck - Smith International (see attached information concerning case histories of Grayburg underreamed work)
5. Run caliper after underreaming the well.
6. 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 @ +3170'.
7. Drill out cement and clean hole to 3578'.
8. Test top of liner.  
If the liner does not test, squeeze top of liner with micro-matrix cement.
9. Run CBL from bottom of liner to top of cement in 5-1/2" string.

Prepare to perforate, acidize and frac Middle Grayburg

10. TIH with 3-3/8" casing guns with deepest penetration.  
Perforate Middle Grayburg with 7 - 0.40" holes as follows.  
  
3445, 3447, 3448  
3510, 3512  
3531, 3536
11. Run 3170' 2-7/8" tubing and 410' 2-3/8" tubing.
12. Set RBP @ +3560'. Spot 2 bbl 15 % HCl.  
Set packer @ +3480'.  
Acidize perms (3510-3536) 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
13. Set RBP @ +3480'. Spot 2 bbl 15 % HCl.  
Set packer @ +3400'.  
Acidize perms (3445-3448) w/1000 gal 15 % HCl acid and 10 ball sealers  
@ 3-5 BPM down 2-7/8" tubing.
14. Set RBP @ +3560'. Set packer @ +3400'.  
Swab back load and test.
15. 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 16(frac Middle Grayburg).

NOTE - The step rate testing and injection profiles are necessary to acquire data to properly size the downhole flow regulators.

Creek AL #6

WF Injector Workover

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16. Frac Middle Grayburg perms (3445-3536) as per attached schedule.  
Run Cardinal survey (injection profile/temperature survey).
17. 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.

18. TIH w/3-3/8" casing guns with deepest penetration.  
Perforate Penrose with 7 - 0.40" holes as follows.  
  
3173, 3174  
3188, 3189  
3236, 3237, 3238
19. Run 3170' 2-7/8" tubing and 180' 2-3/8" tubing.
20. RIH with another RBP and packer.  
Set RBP @ +3270'. Spot 2 bbls 15 % HCl.  
Set packer @ +3210'.  
Acidize perms (3236-3238) w/1000 gal 15 % HCl and 10 ball sealers  
@ 3-5 BPM down 2-7/8" tubing.
21. Set RBP @ +3210'. Spot 2 bbl 15 % HCl.  
Set packer @ +3150'.  
Acidize perms (3173-3189) w/1200 gal 15 % HCl and 10 ball sealers  
@ 3-5 BPM down 2-7/8" tubing.
22. Set RBP @ +3270'. Set packer @ +3150'.  
Swab back load and test.
23. 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 24(frac Penrose).

24. Frac Penrose perfs (3173-3238) as per the attached schedule.  
Run Cardinal survey (injection profile/temperature survey).
25. After frac, within 30 sec after flush, flow back the well 1/4 - 1/2 BPM for 30 minutes. Open well up and flow back 1 - 2 BPM until flow drops off.  
Swab load back.
26. RIH with Baker downhole flow regulators, side pocket mandrels and packers designed for this well.

T. Sloan/CRAL6SU.DOC