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Form 3160-5
June 1990)

UNITED STATES **NM OIL CONS. COMMISSION**
DEPARTMENT OF THE INTERIOR **Drawer DD**
BUREAU OF LAND MANAGEMENT **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

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other Injection Well	5. Lease Designation and Serial No. NMLC028990B
2. Name of Operator YATES PETROLEUM CORPORATION (505) 748-1471	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. 105 South 4th St., Artesia, NM 88210	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 330' FSL & 990' FWL (SWSW, Unit M) of Section 24-T18S-R30E	8. Well Name and No. Creek AL #7
	9. API Well No. 30-015-20284
	10. Field and Pool, or Exploratory Area Shugart Yates Seven Rivers
	11. County or Parish, State Queen Eddy Co., NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	
TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other Convert well to an injection well
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> 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.

Subject to
Like Approval
by State

14. I hereby certify that the foregoing is true and correct		
Signed [Signature]	Title Production Clerk	Date Oct. 15, 1993
(This space for Federal or State office use)		
Approved by (ORIG. SGD.) JOE G. LARA	Title PETROLEUM ENGINEER	Date 11/29/93
Conditions of approval, if any:		

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.

*See Instruction on Reverse Side

Creek AL #7
M 24-18S-30E
330' FSL & 990' FWL

30-015-20284
NMCC028990B

Prognosis

Yates Petroleum Corporation is converting the Creek AL #7 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 #7 has 5-1/2" 14# casing set @ 3306' with a TD of 3314'. The well will be deepened from 3314' to 3610' to include the Middle Grayburg zone.

YPC proposes to:

1. Squeeze Penrose perforations (3189-3258).
2. Drill out cement and clean out hole to 3314'.
3. Deepen 4-3/4" hole to 3610'. (NOTE - Wells may need to be air drilled. See attached SPE article and information on Grayburg deepenings.)
4. Run CNL/GR, Slimhole LDT w/Pe, Phasor Induction/GR logs in 4-3/4" open hole.
5. Underream 4-3/4" hole to 6-3/4" hole from 3306' to 3610' 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. (Baker Tool - attached)
Cement to 100' above top of liner with Microbond Cement as per the attached recommendation.
Recommend reciprocating pipe while cementing.
Set top of liner @ +3090'.
8. Drill out cement and clean hole to 3610'.
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. Procedure to perforate and stimulate Middle Grayburg zone will be submitted after evaluating logs.

Prepare to perforate, acidize and frac Penrose.

12. Set RBP @ +3290'.
13. TIH w/3-3/8" casing guns with deepest penetration.
Perforate Penrose with 7 - 0.40" holes as follows.
- 3190, 3206, 3208, 3216
3253, 3254, 3255
14. Run 3090' 2-7/8" tubing and 200' 2-3/8" tubing.
Spot 2 bbls 15% HCl.
Set packer @ +3240'.
Acidize perfs (3253-3255) w/1000 gal 15% HCl 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
15. Set RBP @ +3240'. Spot 2 bbl 15% HCl.
Set packer @ +3150'.
Acidize perfs (3190-3216) w/2000 gal 15% HCl and 10 ball sealers
@ 3-5 BPM down 2-7/8" tubing.
16. Set RBP @ +3290'. Set packer @ +3150'.
Swab back load and test.

Creek AL #7

WF Injector Workover

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17. 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.

Proceed to step 23.

2. If injectivity is not adequate, proceed to step 18(frac Penrose).

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

18. Run a before-frac evaluation log.

(Cardinal base temperature and gamma ray log).

Pump and tag the Penrose frac.

Perfs (3190-3255) as per attached schedule.

19. After frac, within 30 sec after flush, flow back the well 1/4 - 1/2 BPM for 5 minutes.

20. Run an after-frac evaluation log.

1-hr temperature and gamma ray log

3-hr temperature log

21. Swab the load back.

22. Run Cardinal survey (injection profile/temperature survey).

23. POH with RBP @ +3290'.

24. RIH with Baker downhole flow regulators, side pocket mandrels and packers designed for this well with 2-3/8" plastic coated tubing.

T. Sloan/CRAL7SU.DOC