

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil ☐ well gas ☐ well other ☒ SWDW
2. NAME OF OPERATOR **ARCO Oil and Gas Company**
Division of Atlantic Richfield Company
3. ADDRESS OF OPERATOR
Box 1710, Hobbs, New Mexico 88240
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) 1650' FSL & 990' FWL
AT SURFACE:
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: as above
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☒
REPAIR WELL ☒
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) Deepen same zone

SUBSEQUENT REPORT OF:

- ☐
☐
☐
☐
☐
☐
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☐
☐
☐

RECEIVED

FEB 1 1980

(Note) Report results of multiple completion or zone change on Form 9-330.)

U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

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.)*
- 3748' TD, 3717' PBD - Present injection zone 3036-3700'. Propose to locate possible casing leak, cmt squeeze if necessary, deepen 300' in same zone, treat to increase injection volume and lower injection pressure in the following manner:
1. Rig up, install BOP, POH w/inj tbgs & pkr.
 2. RIH w/RBP & retr pkr, set BP @ 1600', pkr @ 1420', press test liner lap to 1500# 30 mins, press 8-5/8" OD csg above pkr to 1000# 30 mins for csg leak. If necessary, cmt casing leaks w/LWL C1 C cmt w/volume as required. WOC. Drill out cmt, retr, & BP. Press test csg squeeze jobs to 1000# 30 mins.
 3. RIH w/3-7/8" bit, deepen (300') 3748-4048'.
 4. Set pkr @ 3715' & acidize OH interval w/2000 gals 15% HCL acid, 500 gals gelled brine w/rock salt diverter & flush w/KCL wtr. Test OH section for injection rate estimated to be 1800#.
 5. RIH w/internally PC 2-3/8" OD tbgs & 4 1/2" pkr, set pkr @ 3620'. Fill tbgs/csg (cont'd on Page 2)
- Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED

[Signature]

TITLE Dist. Drlg. Supt. DATE 2/1/80

(This space for Federal or State office use)

APPROVED BY PROVED

CONDITIONS OF APPROVAL, IF ANY

TITLE _____

DATE _____

ACTING DISTRICT ENGINEER

*See Instructions on Reverse Side

5. LEASE
NM-082
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. ~~WELL AGREEMENT~~ Disposal NAME
Lynch Pool SWD System
8. FARM OR LEASE NAME
Ballard DE Federal
9. WELL NO.
6
10. FIELD OR WILDCAT NAME
Lynch Yates 7Rivers
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
22-20S-34E
12. COUNTY OR PARISH Lea 13. STATE New Mexico
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
3664' GR

THIS WELL PREVIOUSLY APPROVED FOR SWD *[Signature]*

Form 9-331
Ballard DE Federal #6
February 1, 1980
Page 2

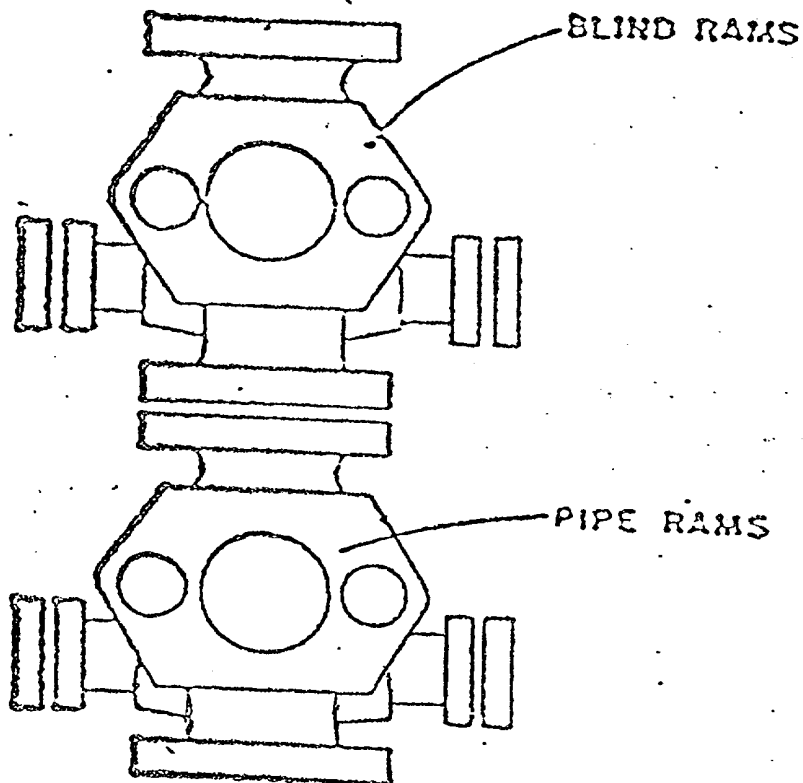
annulus w/corrosion inhibited fluid. Return perforations & OH section to water disposal in the Yates 7Rivers.

Above disposal well approved by New Mexico Oil Conservation Division Case No. 3854 - Order R-3498.

NTL 2B Disposal in Subsurface requirements.

1. Shown in Item 4, 7 & 9.
2. See Attachment (letter dated 4/11/77).
3. Shown in Item 17 of this report.
4. Unknown.
5. None
6. Shown on previously filed USGS Forms 9-331 & 9-331C.
7. Shown in Item 17 of this report.
8. Shown in Item 17 of this report.
9. A press gauge attached to tbg/csg annulus is installed to monitor system & detect any leaks. If necessary to shut-in system, wells producing to system will be shut-in or water trucked.

Blowout Preventer Program attached.



ATLANTIC RICHFIELD COMPANY
Blow Out Preventer Program

Lease Name Ballard DE Federal

Well No. 6

Location 1650' FSL & 990' FWL
Sec 22-20S-34E, Lea County

BOP to be tested before installed on well and will be maintained in good working condition during drilling. . All wellhead fittings to be of sufficient pressure to operate in a safe manner.



United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Box 1157
Hobbs, New Mexico 88240

April 11, 1977

Atlantic Richfield Company
Post Office Box 1710
Hobbs, New Mexico 88240

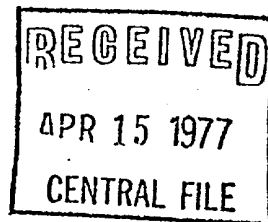
Gentlemen:

Your letter application of March 18, 1977 requests approval to dispose of Yates-Seven Rivers formation water produced from wells on your Gulf DE Federal and Fletcher "A" DE Federal leases, lease numbers New Mexico 08822 and New Mexico 0897 into Atlantic Richfield Company's No. 6 Ballard DE Federal salt water disposal well located in the NW $\frac{1}{4}$ SW $\frac{1}{4}$, sec. 22, T. 20 S., R. 34 E., Lea County, New Mexico.

Disposal of water produced on your Gulf DE Federal and Fletcher "A" DE Federal lease in the above manner is hereby approved.

Sincerely yours,


Arthur R. Brown
District Engineer





Subject **BALLARD FED #6**
SWD WELL

Page
of
Pages

By

Date

