Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

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 [X] gas well [ ] other

2. NAME OF OPERATOR ARCO Oil and Gas Co., Div. of Atlantic Richfield Company

3. ADDRESS OF OPERATOR 707-17th Street, P. O. Box 5540, Denver, Colo. 80217

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: NE NW, 790' FNL & 1980' FWL,
AT TOP PROD. INTERVAL: Appx. same Sec.10
AT TOTAL DEPTH: Appx. same

5. LEASE
SF 078673

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Schlosser-Federal (WN)

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Basin Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 10-27N-11W

12. COUNTY OR PARISH 13. STATE
San Juan New Mexico

14. API NO.
None Assigned

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6249 GL

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| REQUEST FOR APPROVAL TO: | | SUBSEQUENT REPORT OF: | |
|---|---|---|---|
| TEST WATER SHUT-OFF | [ ] | | [ ] |
| FRACTURE TREAT | [ ] | | [ ] |
| SHOOT OR ACIDIZE | [ ] | | [ ] |
| REPAIR WELL | [ ] | | [ ] |
| PULL OR ALTER CASING | [ ] | | [ ] |
| MULTIPLE COMPLETE | [ ] | | [ ] |
| CHANGE ZONES | [ ] | | [ ] |
| ABANDON* | [ ] | | [ ] |
| X (other) Repair casing leak in Dakota; Recomplete into Upper & Middle Gallup. | | | |

RECEIVED
AUG 29 1983
BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

RECEIVED
SEP 6 - 1983
OIL CON. DIV.
DIST. 3

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

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.)*

ARCO Oil and Gas Company proposes that this well be worked over to repair a casing leak in the Dakota formation, and recomplete into the upper and middle Gallup. The well was drilled in 1959 as a dual Dakota/Gallup producer. Cumulative production from the Dakota is 1.55 BCF and 20.3 MBO, and from the Gallup is 102 MCF and 67 MBO.

The Gallup production has been shut in since 1977 with paraffin plugged tubing. Final flowing rate was 100 BO/month at a 1000 scf/bbl GOR. The Dakota has been logged off since late 1982. Results of swabbing indicate a hole in casing and tubing. Final producing rate was 160 MCF/D with 8.1 bbls oil per MMCF.

((over))

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Stephen Rose S. C. Rose TITLE Dist.Prod.Supt. DATE August 23, 1983.

(This space for Federal or State office use)

APPROVED

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

DEC 1983

NMOCC

*See Instructions on Reverse Side

SCHLOSSER FEDERAL #1
WORKOVER PROCEDURE

1. MI RU completion unit. Kill well as required with 2% KCl water.

2. Rig up BOP.

3. Pull Gallup production tubing. Note that this string is likely plugged with paraffin.

4. Pull Dakota tubing.

5. Clean tubing of paraffin as required. Inspect tubing with Tubescope or comparative service.

6. Clean out well to ±6500' with bit and casing scraper. Displace well with 2% KCl water.

6a. RU and run a casing inspection log (Schlumberger Pipe Analysis Log or equivalent) in the 7"-23# casing from PBTD @ 6797' to surface. Once the condition of the casing string has been determined, contact the Denver office for approval to proceed with the remainder of the program.



7. RIH and set retrievable bridge plug at 5940'.

8. Pressure test the casing to 2000 psig.

9. If the casing does not pressure test, RIH with packer on work string and locate hole(s). If casing does pressure test, drop a sack of sand on the bridge plug and proceed to Step 13.

10. Drop a sack of sand on the bridge plug. Cement squeeze the casing hole(s). Squeeze design will depend upon depth and size of hole.

11. Clean out casing with bit and casing scraper.

12. Pressure test casing. If casing fails to pressure test, repeat Steps 9 through 12.

13. Run a Gamma Ray and Collar Locator Log from the bridge plug to 5400'. Drilling records indicate top of cement to be at 5400' also.

14. Using a full length lubricator, perforate 5795' to 5930', one shot per 2 feet. Use premium quality jet charges. Depths reference Schlumberger Sonic Log 10/26/59.

15. RIH with 2-3/8" work string and spot 250 gallons of 7-1/2% HCl across perforations. Acid to contain inhibitor, non-emulsifying agent, miscible solvent, and iron sequestering agent. POH with work string.

16. RIH with treating packer on 3-1/2" tubing. Circulate 7-1/2% HCl acid to bottom of tubing. Set packer at ±5650'. Break down perforations with 1750 gallons of 7-1/2 % HCl acid with additives. Space 70 ball sealers throughout acid. Pump at high rate conditions permit to break down perforations. Release packer and lower through perforations to remove ball sealers from perforations. Reset packer at +5600'.

17. Foam frac Gallup perforations from 5795' to 5930'.

SCHLOSSER FEDERAL #1

WORKOVER PROCEDURE

18. Rig down frac company and rig up adjustable choke to flow well back. Start clean up in 30 to 120 minutes as directed by engineer. Frac job to be timed to allow clean up without shutting in overnight.

19. Kill well with 2% KCl water and POH with 3-1/2" tubing. Clean out frac sand and pull bridge plug.

20. Set bridge plug at 5785'. Dump a sack of sand on the bridge plug.

21. Perforate 5625' to 5767', one shot per 2 feet. Depth reference Schlumberger Sonic Log 10/26/59.

22. RIH with work string and spot 250 gallons of 7-1/2% HCl acid with additives across perforations. POH with work string.

23. RIH with treating packer on 3-1/2" tubing. Circulate 7-1/2% HCl acid to bottom of tubing and set packer at ± 5450'. Break down perforations with 1750 gallons of 7-1/2% HCl acid with 70 ball sealers spaced evenly throughout the acid. Pump at high rate as conditions permit to break down perforations. Release packer and lower through perforations to knock off ball sealers from perforations. Reset packer at ± 5525'.

24. Foam frac Gallup perforations from 5625' to 5767'.

25. Rig down frac company and rig up adjustable choke. Start clean up in 30 to 120 minutes as directed by engineer. Frac job to be timed to allow clean up without shutting in overnight.

26. Kill well with 2% KCl water and POH with 3-1/2" tubing. Clean out frac sand and pull bridge plug.

27. Run Gamma Ray log across Gallup to detect RA sand.

28. RIH with Dakota production string with redressed seal assembly.

29. RIH with Gallup production string and set at ± 6000'. Run standard API seating nipple near bottom.

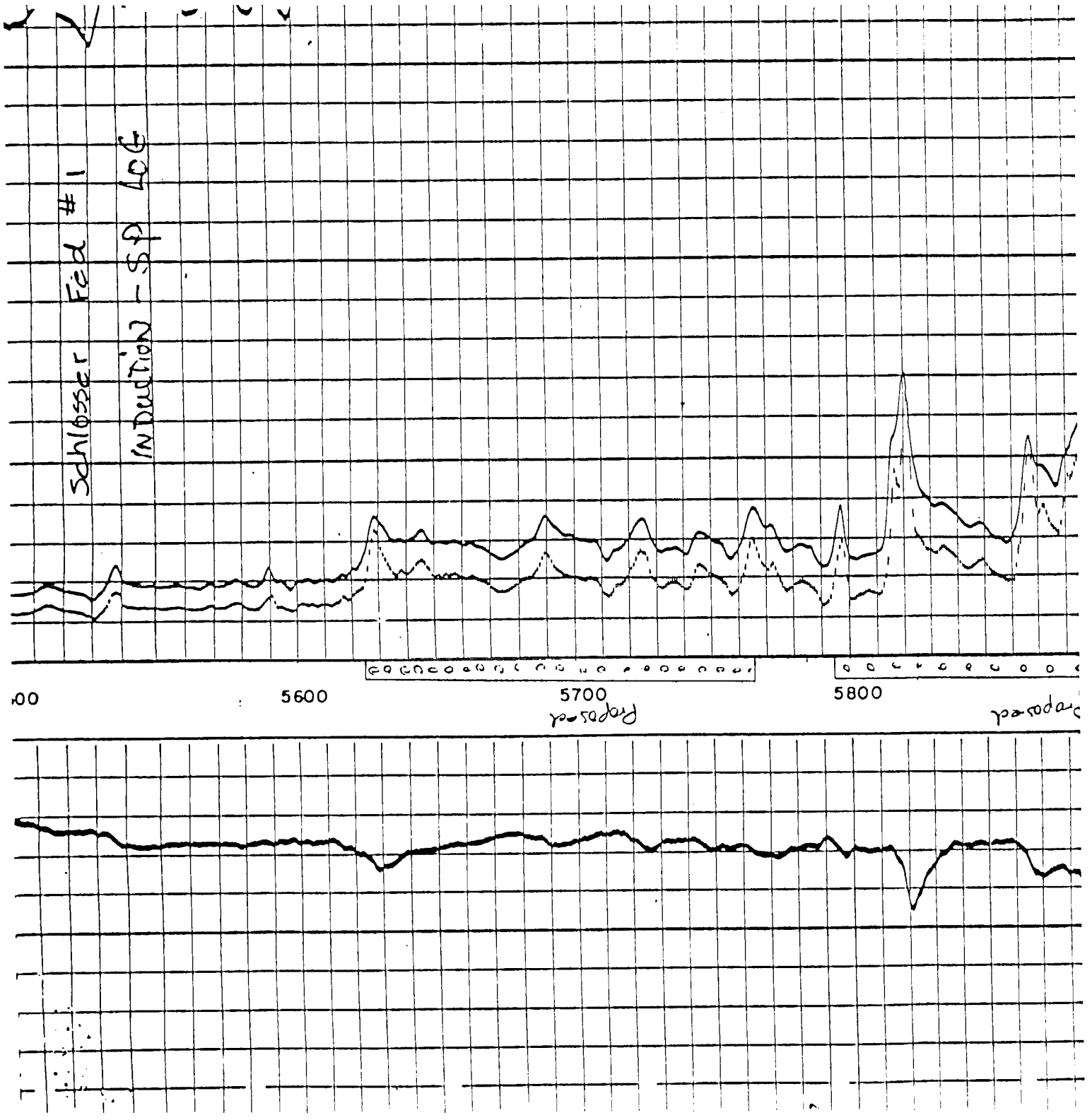
30. Run a plunger stop in the Gallup tubing and set above seating nipple.

31. Swab Dakota and Gallup to pit for clean up.

32. Depending upon performance, acidize Dakota zone. Swab back acid.

33. Release production unit and place on production.

JRM
5/23/83


Schlosser Fed #1
INDUCTION - SP LOG
5600
5700
5800

# Diagrammatic Sketch Of [redacted] Dual Completion
## Of Western Natural Gas Companys
## Bonnie C. Schlosser Federal # 1
Loc. 790' From The North Line and 1980' From West Line Of
Sec. 10 T-27-N R-11-W N.M.P.M.
San Juan County, New Mexico S.F-078673