

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Amoco Production Company Attn: John Hampton

3. Address and Telephone No.

P.O. Box 800, Denver, Colorado 80201

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

1030' FNL, 1555' FEL Sec. 5, T31N-R11W

5. Lease Designation and Serial No.

SF-078095

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Mudge LS 23

9. API Well No.

30 045 11078

10. Field and Pool, or Exploratory Area

Basin Dakota

11. County or Parish, State

San Juan, New Mexico

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 Bradenhead Repair

☐ 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.)*

Amoco intends to perform the attached workover procedure required to eliminate bradenhead pressure.

In addition, Amoco also requests approval to construct a temporary 15'X15'X5' blow pit for return fluids. This pit will be reclaimed if utilized, upon completion of this procedure.

If you have any questions please call Julie Acevedo at 303-830-6003.

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

Signed

John Hampton

Title Sr. Staff Admin. Supv.

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

NMOCD

APPROVED

Date

9-25-92

SEP 29 1992

AREA MANAGER

REMEDIAL CEMENT PROCEDURE
MUDGE LS 23

1. MIRUSU.
2. Install BOP.
3. TOH with 2 3/8" tubing, lay down bull plug, perfed pup joint, and any bad joints.
4. Make a scraper run and clean out to PBTD (7710').
5. TIH with RBP and set at 7400'.
6. Run GR/CBL from RBP to 3100'. Determine TOC.
7. Pressure test casing to 6000 psi. If test fails, contact Paul Edwards in the Denver office.
8. TOH with RBP.
9. Load intermediate annulus with water.
10. Frac well down casing according to the attached procedure. Shut well in overnight.
11. Flow back frac fluid slowly until well dies.
12. TIH with 2 3/8" tubing including sawtooth collar and seating nipple. Clean out to PBTD, set tubing bottom at 7625' and continue to flow test the well.
13. Once sand entry into the wellbore has ceased, flow test the well and obtain steady gas and water production rates and the corresponding tubing and casing pressures.
14. At this point a decision will be made to keep the well or to plug it. If the decision is to keep the well, continue on; otherwise a PxA procedure will be forthcoming.
15. TIH with RBP and set at 7400'. Cap with 5 sacks of sand.
16. Blow down intermediate casing pressure.
17. Perf one squeeze hole 50'-100' above the TOC for the 5 1/2" casing.
18. Establish circulation between the squeeze perf and the surface. Annular volume may be estimated using .01487 bbl/ft.
19. Conduct a cement squeeze by pumping 200 sacks of Halliburton light, with additives to help prevent cement from penetrating the highly fractured Mesaverde formation.
20. Drill out cement, pressure test to 500 psi, and resqueeze if necessary.
21. Determine free point of 5 1/2" casing.
22. TIH with string shot and back off of 5 1/2" casing 100'-200' above the 7 5/8" casing shoe at 3205'.
23. TOH with 5 1/2" casing. Inspect and replace any bad joints. Note any worthy findings of pipe condition.
24. Clean out hole to 5 1/2" casing top. Use casing scraper for 7 5/8" 26.4 lb/ft casing.
25. TIH with a 7 5/8" RBP and set just above 5 1/2" casing top. Cap with 5 sacks of sand.
26. Pressure test the 7 5/8" casing to 1000 psi.
27. If casing does not hold pressure, locate leak(s), and notify Paul Edwards in the Denver office before proceeding with any squeeze work.
28. Run a GR/CBL from the 5 1/2" casing top to surface. Make several passes if necessary at consecutively higher pressures if the bonding is not well defined.
29. TIH with a casing gun and perforate one hole 50'-100' above the TOC.
30. TIH with packer and set 200'-300' above the squeeze hole. Establish circulation to the surface until returns are clean; reverse circulate. Check volumes with a dye.
31. Conduct a cement squeeze by pumping 200% of the annular volume of Halliburton light cement. Note returns to surface
32. Release packer, TOH, and hold pressure on squeeze. WOC.
33. Drill out cement to RBP. Pressure test squeeze perfs and resqueeze if

35. TIH with 5 1/2" casing, a screw in joint and a DV tool. Screw into 5 1/2" casing top.
36. TOH with RBP at 7400'.
37. TIH with open ended 2 3/8" tubing, mule shoe, and seating nipple one joint off bottom. Land tubing at 7625'.
38. Return well to production.

Amoco Production Company

ENGINEERING CHART

Sheet No.

Of

File

Appn

Date

By

SUBJECT

Mudge LS 23 DK

8/17/92

