

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
BLM

95 AUG 22 PM 2:01

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

Hallador Petroleum Company

3. Address and Telephone No.

1660 Lincoln Street, Suite 2700, Denver, CO 80264 303/839-5504

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

990' FNL & 1090' FWL (NWNW)  
Sec. 27-T32N-R12W

5. Lease Designation and Serial No.

SF 078146-A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Horton 4A

9. API Well No.

30-045-22936

10. Field and Pool, or Exploratory Area

Blanco

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 Stimulation  
☐ 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.)\*

See attached "Workover Procedure."

Plans are to acidize existing perforations in the Point Lookout member of the Mesa Verde and flow test. If commercial, a casing inspection log will be run to determine condition of casing. If casing is competent, the well will be put back on production. If casing is not competent, it will be repaired and then put back on production. If well is not commercial, it will be P&A'd according to BLM stipulations following BLM approval. Though it is not planned at this time, the possibility exists for perforating additional pay in the Upper Mesa Verde intervals if the Point Lookout is determined to be uneconomical. BLM approval will be obtained prior to any re-perforating.

RECEIVED  
AUG 28 1995

OIL CON. DIV.  
DIST. 3

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

Signed Dean C. Brook Title Petroleum Engineer Date August 21, 1995

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

APPROVED

AUG 22 1995

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.

Horton #4A  
NWNW Section 27-T32N-R12W  
San Juan County, New Mexico

Workover Procedure

1. MIRU workover rig. Set pump, tank, pipe racks, and remaining equipment. Rack and tally 2 $\frac{3}{4}$ " tbg.
2. Blow down well. ND wellhead. NU BOP's.
3. PU 3 $\frac{3}{4}$ " bit, 4 $\frac{1}{2}$ " csg scraper and 2 $\frac{3}{4}$ " tbg. RIH to PBTD. POOH and LD scraper.
4. RIH W/ bit and tbg to PBTD. RU power swivel and N<sub>2</sub> pump truck. Clean out fill W/ foam to 5150' KB. Reverse circulate 500 gals foamed 15% HCL acid to "pickle" tbg. POOH and LD bit. RD N<sub>2</sub> pump and power swivel.
5. PU 4 $\frac{1}{2}$ " injection pkrs and RIH on 2 $\frac{3}{4}$ " tbg. Selectively acidize perforations W/ 3000 gals 15% HCL acid containing inhibitor, iron sequestering agent and de-emulsifier. POOH and lay down injection pkrs.
6. PU 4 $\frac{1}{2}$ " Model "R" production pkr. RIH on tbg to 4850' KB. Set pkr and swab well to clean up acid. Flow test well. If well is commercial, go to step 7. If not, got to Step 14.
7. POOH and lay down pkr. PU 4 $\frac{1}{2}$ " RBP and RIH to 3000' KB. Set RBP and dump 10 sx sand on top. POOH W/ RBP setting tool and tbg.
8. RU wireline and run mechanical csg caliper in 7" csg from 2800' KB to surface. Determine overall condition of 7" csg. RD wireline truck. Note: If casing needs repairing, go to Step 9. Otherwise put well on production.
9. PU 7" Model "R" pkr and RIH to 2700' KB. Set pkr and pressure test 4 $\frac{1}{2}$ " liner top to 1000 psi. POOH and set pkr 50' above hole in csg. Establish injection rate into hole in csg.
10. Squeeze cement hole in csg W/ 50 sx neat cement. WOC 24 hrs. Release pkr and POOH.
11. PU 6 $\frac{1}{4}$ " bit and RIH. Drill out cement and test csg to 500 psi. POOH and lay down bit.
12. RIH and circulate sand off RBP. Swab fluid to 4800'. Latch plug and POOH. LD RBP.
13. PU 4 $\frac{1}{2}$ " Model "R" pkr and RIH W/ 2 $\frac{3}{4}$ " tbg. Set pkr @ 4800'. ND BOP's and NU wellhead. Swab well in and put on production.
14. Release Model "R" pkr and POOH. LD pkr.

15. PUT 4½" CICR. RIH on 2¾" tbg to 4850' KB. Squeeze 10 sx neat cement into perfs. Dump 2 sx on top. POOH to 2880' and LD 1970' tbg.
16. Circulate 90 sx neat cement plug from 2880' to 2500'. POOH to 2125' and LD 375' tbg.
17. Circulate 34 sx neat cement plug from 2125' to 1975'. POOH to 690' and LD 1285' tbg.
18. Circulate 34 sx neat cement plug from 690' to 540'. POOH to 235' and LD 305' tbg.
19. Circulate 53 sx neat cement plug from 235' to surface.
20. Cut off wellhead. Remove slips. Install dry hole marker.
21. Reclaim location.