

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

Richardson Operating Company

3. Address and Telephone No.

1700 Lincoln, Suite 1700, Denver, Colorado 80203 (303) 830-8000

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

660' FSL and 1980' FEL (SW/4SE/4)

Sec. 36-T29N-R14W

5. Lease Designation and Serial No.

14-20-603-2172

6. If Indian, Allote or Tribe Name

Navajo

7. If Unit or CA, Agreement Designation

8. Well Name and No.

NW Cha Cha #74

9. API Well No.

30-045-07598

10. Field and Pool, or Exploratory Area

Cha Cha Gallup

11. County or Parish, State

San Juan County, NM

12. CHECK APPROPRIATE BOX(es) 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 checked="" type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Surface Casing/Cementing
	<input type="checkbox"/> Other:
	<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 markets and zones pertinent to this work.)*

Request to plug and abandon Gallup formation, run casing integrity test and shut-in well pending issuance of pipeline right-of-way. Once right-of-way obtained, will attempt recompletion in Pictured Cliffs formation per attached procedure.

Plug back procedure:

- 1 MIRU ROPCO Rig #1. NU 2 3/8" relief line. Hold safety meeting. ND tubinghead. NU BOP. MIRU two 400 bbl frac tanks with fresh clean city water.
- 2 Unseat packer. TOOH with tubing. Lay down packer and TIH with seat nipple and check valve on end of tubing. Land tubing @ about 5584' and shut pipe rams.
- 3 Mix and pump 43 sacks Class B cement. Should be enough for 250' plug and 100% excess. Flush tubing with 22 bbls H2O. TOOH with tubing. SDON.
- 4 Test to 1000# for 30 mins. If pressure holds, leave shut-in until pipeline right-of-way received. If pressure doesn't hold, find hole and squeeze.

Recompletion procedure: See attached.

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

Signed:

Cathleen Colley

Title: Land Manager

Date: July 6, 2000

(This space for Federal or State office use)

Approved by:

Title:

Date: 8/3/00

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.

NW Cha Cha #74

WORKOVER/COMPLETION PROCEDURE

Richardson Operating Company
3100 La Plata Highway
Farmington, NM 87401
(505) 564-3100 Phone
(505) 564-3109 Fax

Prepared by	B. Gager
Date	June 29, 2000
Well Name	NW Cha Cha #74
Location	T29N, R14W Sec 36 SWSE (Unit O) 660' FSL and 1980' FEL
County	San Juan
Field	Cha Cha Gallup
Pool	Cha Cha Gallup
API#	30-045-07598
Lease No.	Navajo 14-20-603-2172
Elev GL	5956'
Elev KB	5967'
KB	11'

OBJECTIVE Attempt recompletion in Pictured Cliffs formation

PROCEDURE

1. Rig up wireline truck. Tag top of cement. If plug is in place, TIH with tubing to 4410'. Set 200' balanced plug from 100' below to 100' above ^{Mesa Verde} Mancos formation. Pull out of hole to 100' below Lewis formation @ 1808'. Set 200' plug from 100' below to 100' above Lewis Shale. SDON.
2. If plug is in place, perforate four 0.41" squeeze holes on 120 degree phasing at about 1580'.
3. Pump down 4 1/2" casing and establish circulation on back side.
4. Release wireline truck.
5. Pump scavenger cement ahead with red dye and additional cement (Class B, 1% Cacl₂, 1/4 #/sack celloflake, .25 #/sack Gilsonite to yield 1.66 ft³/sack, 13.6 #/gallon) 20% excess.
6. Flush with 12.35 bbls fresh H₂O.

NW Cha Cha #74

7. Shut down overnight.
8. RU Schlumberger. Run CBL GR from PBTD to surface. Run Compensated Neutron log PBTD to surface. If cement not to surface, then 1" cement down 8 5/8" and 4 1/2" annulus 50' to surface.

If cement is at surface, then perforate Pictured Cliffs formation 1504' to 1514' with 4 spf 0.41" holes 120 degrees phasing.
9. Install 5000# 4 1/2" frac valve.
10. RU frac equipment and pressure test surface lines to 5000 psi.
11. Fracture treat with 20# linear gel and 40,00# 20/40 sand as per service company design. Bullhead 500 gallons 7 1/2" HCL ahead. Observe fracture closure after treatment.
12. Shut-in for 24 hrs.
13. TIH with 2 3/8" tubing with notched collar on end of tubing, one joint, 4' perforated sub, seat nipple and land end of tubing 30' above PBTD.
14. Swab well until flow rate is established or run rods and pump if needed.
15. Obtain water samples of gel analysis when 80% of load recovered.