

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0135
Expires: January 31, 2004**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Richardson Operating Company

3a. Address

3100 La Plata Highway Farmington, NM 87401

3b. Phone No. (include area code)

505-564-3100

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

1650' FNL & 990' FEL (SENE)

Sec 21, T29N, R14W

5. Lease Serial No.

14-20-603-2199

6. If Indian, Allottee or Tribe Name

Navajo

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

NW Cha Cha #17

9. API Well No.

30-045-08141

10. Field and Pool, or Exploratory Area

Cha Cha Gallup

11. County or Parish, State

San Juan, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Fracture Treat☐ New Construction☒ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☐ Other _____

3. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Request to plug and abandon well per attached procedure. This well will be abandoned due to proximity to house.

RECEIVED
2003 AUG 14 AM 8:21
070 Farmington, NM14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Drew Carnes

Title Operations Manager

Signature

Date 8/8/2003

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by (Signature)  Original Signed: Stephen MasonName
(Printed/Typed)

Title

Office

Date AUG 15 2003

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

(Continued on next page)

NMOC

Richardson Operating Company
Well: NW Cha Cha #17
Location: 1650' FNL & 990' FEL
Sec 21, T29N, R14W, NMPM
San Juan County, New Mexico

Plug & Abandonment Procedure

Note: All cement volumes use 100% excess outside pipe and 50' excess inside pipe. Cement will be Class B mixed at 15.6 ppg (1.18 cu.ft/sack) with 2% CaCl₂ and ¼ #/sack celloflake. The stabilizing wellbore fluid will be water, sufficient to balance all exposed formation pressures.

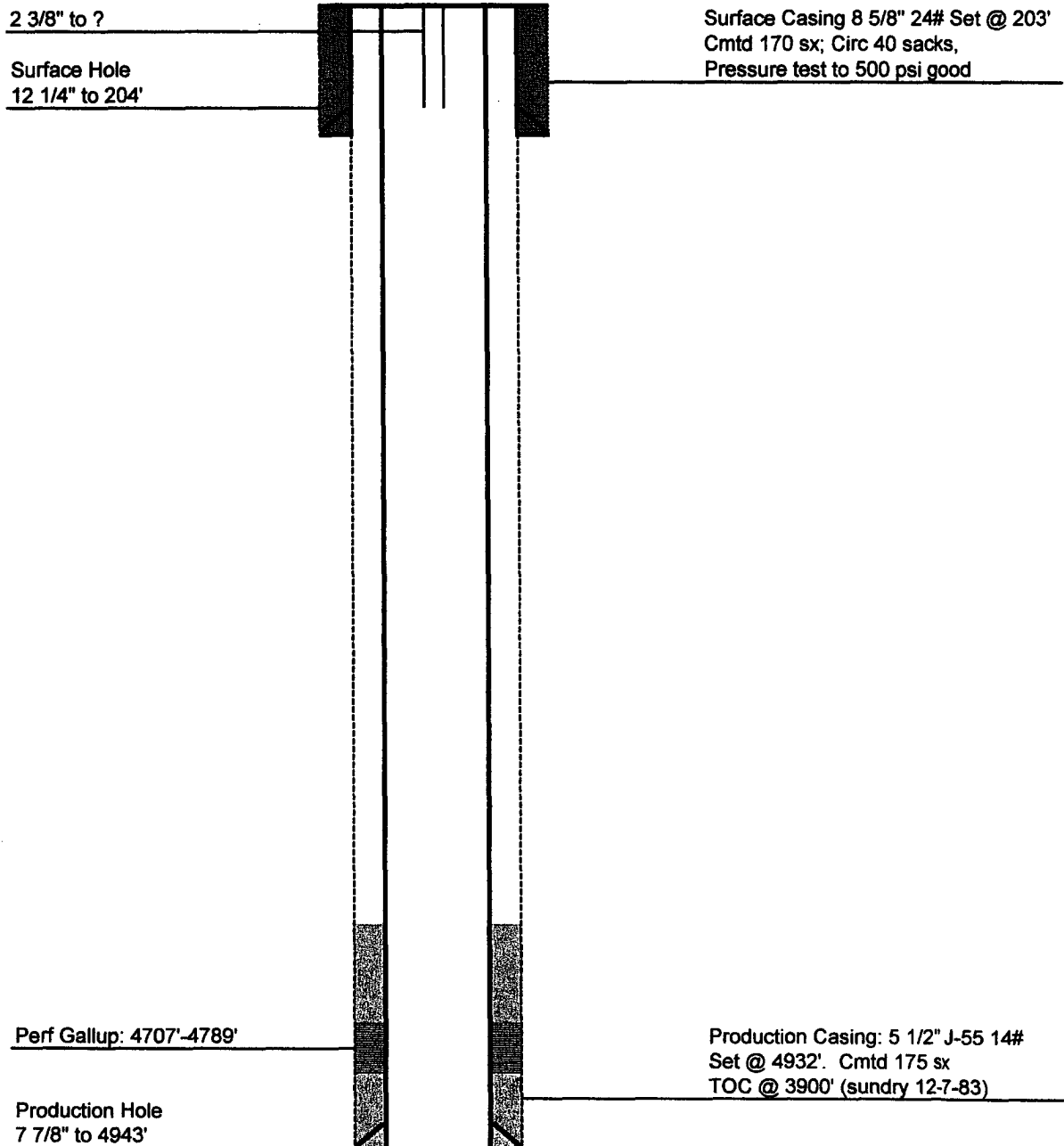
1. MIRU. NU 2 3/8" relief line. ND wellhead and NU BOP. Test BOP.
2. Unseat packer. TOOH with tubing. Lay down packer.
3. RU wireline. Set CICR at 4680' +/- (top perf is at 4707').
4. Plug #1 (Gallup perfs, 4789'-4707'): TIH with 2 3/8" tubing and sting into CICR. Mix and pump 22 sacks cement (150% volume from CICR to bottom perf). Sting out and spot ~~17~~ ¹⁷ sacks cement on CICR. TOH. ^{to 4345}
5. RU wireline. Shoot 4 squeeze holes @ 2345'. Establish rate into perfs. Set CICR at 2335' +/-.
6. Plug #2 (Mesa Verde, 2285'): TIH, sting into CICR. Mix and pump 30 sacks cement. Sting out and spot 17 sacks cement on CICR. TOH.
7. RU wireline. Shoot 4 squeeze holes @ 737'. Establish rate into perfs. Set CICR at 727' +/-.
8. Plug #3 (Pictured Cliffs, 677'): TIH, sting into CICR. Mix and pump 30 sacks cement. Sting out and spot 17 sacks cement on CICR. TOH.
9. RU wireline. Shoot 4 squeeze holes @ ⁴¹⁵ ~~250~~ ²⁴⁰ ₃₆₅'. Establish rate into perfs. Set CICR at ²⁴⁰ ₃₆₅' +/-.
10. Plug #4 (Surface): Mix and pump cement, circulate out casing valve. Sting out and circulate cement to surface. TOH and lay down tubing.
11. Cut off wellhead below surface casing flange and install P&A marker with cement.

BEFORE P&A

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

Well Name NW Cha Cha #17
Location 1690' FNL & 990' FEL
H Sec. 21, T29N, R14W
County San Juan
Field Cha Cha Gallup
API# 30-045-08141
Elevation 5239' GL 5251' KB

<u>Formation Tops</u>	
Pictured Cliffs	677'
Lewis	845'
Mesa Verde	2285'
Mancos	3510'
Gallup	4432'



PROPOSED P&A

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

Well Name NW Cha Cha #17
Location 1690' FNL & 990' FEL
H Sec. 21, T29N, R14W
County San Juan
Field Cha Cha Gallup
API# 30-045-08141
Elevation 5239' GL 5251' KB

Formation Tops
Pictured Cliffs 677'
Lewis 845'
Mesa Verde 2285'
Mancos 3510'
Gallup 4432'

Surface Plug: Perfs @ 250'
CICR @ 240'
Surface Hole
12 1/4" to 204'

Surface Casing 8 5/8" 24# Set @ 203'
Cmt'd 170 sx; Circ 40 sacks,
Pressure test to 500 psi good

Pictured Cliffs Plug: Perfs @ 737'; CICR
@ 727'. 30 sacks cement below
and 17 sacks on CICR.

Mesa Verde Plug: Perfs @ 2345'; CICR
@ 2335'. 30 sacks cement below
and 17 sacks on CICR.

Gallup Plug: CICR @ 4680'. 22 sacks
cement below and 17 sacks on CICR.

Perf Gallup: 4707'-4789'

Production Hole
7 7/8" to 4943'

Production Casing: 5 1/2" J-55 14#
Set @ 4932'. Cmt'd 175 sx
TOC @ 3900' (sundry 12-7-83)

