

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: March 31, 2007

## 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 ☐ Other2. Name of Operator  
Richardson Operating Company3a. Address  
3100 La Plata Highway, Farmington, NM, 874013b. Phone No. (include area code)  
505-564-3100

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

1980' FNL &amp; 660' FWL, Sec 26 T29N-R14W

5. Lease Serial No.  
NMF-14-20-603-21726. If Indian, Allottee or Tribe Name  
Navajo

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

NW Cha Cha Unit

8. Well Name and No.

Nw Cha Cha # 46

9. API Well No.

30-045-07877

10. Field and Pool, or Exploratory Area

Cha Cha Gallup

11. County or Parish, State

San Juan County, New Mexico

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. 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 recompletable 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 recompletable 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.)

NW Cha Cha Unit #46 was P&amp;A'd according to the following procedure.

8/23/2004 Lay down 60 joints tbg. TIH w/ workstring to 4062'. Circ fill (mud &amp; LCM) to 4092'. Tag up on old RBP. TOH w/ 20 stands.

8/25/2004 TIH w/ tbg to 4092'. Pump 38 sx Class B neat. TOH. Run in w/ wireline. Tag plug @ 3600'. Plug 4092'-3600'. Shoot squeeze hole @ 2924'. TIH w/ retainer on tbg. Set @ 2885'. Est rate. Pump 29 sx Class B neat. 20 sx Class B below retainer, 9 sx Class B neat above. TOH w/ tbg. WOC.

8/26/2004 Pressure test csg to 500psi, OK. Wireline tag cmt @ 2837'. Shoot sqz holes @ 2300'. TIH w/ retainer on tbg, set @ 2255'. Establish rate, pump 21sx Class B neat below retainer, 8sx Class B neat above retainer, TOH. Shoot sqz holes @ 1356'. Pump down csg, bradenhead tried to circ, then bridged off. TIH w/ retainer on tbg, set @ 1311'. Establish rate, bradenhead dead. Pump 29sx Class B neat. Start displacement. Bradenhead started to circ. Go back to cmt, pump 68sx Class B neat, bradenhead circ'd for 2 min then bridged off. Pump 3.4bbl displacement. Sting out, lay down 5 jnts, reverse circ clean. TOH w/ tbg, shoot sqz hole @ 1028'. Pump down csg 500psi. 2.5 bbl/min. Bradenhead dead. TIH w/ retainer on tbg, could not get retainer to set. TOH. Run in wireline, set retainer @ 979' TIH w/ tbg. Sting into retainer. Establish rate. Pump 21sx Class B neat below retainer, 8sx Class B neat above retainer. Bradenhead dead. TOH. Shoot sqz holes @ 269'. Pump down csg. Partial returns through Bradenhead. Pump down bradenhead, full returns. SI.

8/27/2004 Pump down csg. Good circ from bradenhead. Roll hole w/ 20bbl wtr. Pump 220sx Class B neat. No returns. Dig out, cut off wellhead. Fill csg w/ cmt.

8/30/2004 Install P&amp;A marker. Rig down. Clean up location. Move off.

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

Charles H. Williams

Title Engineering Operations Manager

Signature

*Charles H. Williams*

Date

09/30/2004

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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

Date

Office

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.

(Instructions on page 2)

ACCEPTED FOR RECORD

NWOC

OCT 08 2004

FARMINGTON FIELD OFFICE  
BY *Om*

**RICHARDSON OPERATING COMPANY**  
**3100 LAPLATA HIGHWAY**  
**FARMINGTON, NM 87401**

**P&A'd WELLBORE DIAGRAM**

<b>Well Name:</b>	<b>NW Cha Cha Unit #46</b>
Location (FL):	660' FNL & 1980' FWL, Unt ?
(Sec.,T,R,NMPM):	Sec. 26, T29N, R14W, NMPM
County:	San Juan
Field:	Cha Cha Gallup
API #	30-045-07877
Elevation (GR,KB):	5813' DR

