

**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**

<p><b>1. Type of Well</b>  <input checked="" type="checkbox"/> Oil Well    <input type="checkbox"/> Gas Well    <input type="checkbox"/> Other</p> <p><b>2. Name of Operator</b> Richardson Operating Company</p> <p><b>3. Address and Telephone No.</b> 1700 Lincoln, Suite 1700, Denver, Colorado 80203 (303) 830-8000</p> <p><b>4. Location of Well (Footage, T, R, M, or Survey Description)</b> 2290' FNL and 1825' FEL (SW/4NE/4) Sec. 20-T29N-R14W</p>	<p><b>5. Lease Designation and Serial No.</b> 14-20-603-2200A</p> <p><b>6. If Indian, Allote or Tribe Name</b> Navajo</p> <p><b>7. If Unit or CA, Agreement Designation</b></p> <p><b>8. Well Name and No.</b> NW Cha Cha #20</p> <p><b>9. API Well No.</b> 30-045-25808</p> <p><b>10. Field and Pool, or Exploratory Area</b> Cha Cha Gallup</p> <p><b>11. County or Parish, State</b> San Juan County, NM</p>
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**12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

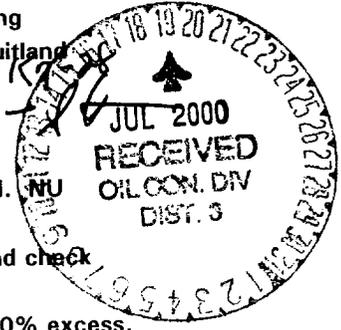
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Surface Casing/Cementing	<input type="checkbox"/> Dispose Water
	<input type="checkbox"/> Other:	

(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 Fruitland Coal and Pictured Cliffs formations per attached procedure.**

*Handwritten notes:* need C102's to approve recompletion



**Plug back procedure:**

- 1 MIRU ROPCO Rig #1. NU 2 3/8" relief line. Hold safety meeting. ND tubinghead. 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 4718' 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 Colby Title: Land Manager Date: July 6, 2000

(This space for Federal or State office use)

Approved by: \_\_\_\_\_ Title: \_\_\_\_\_ Date: 7/14/00

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.

\* See instructions on Reverse Side

HOLD 0104 FOR NSL in PC

District I  
1625 N: French Dr., Hobbs, NM 88240  
District II  
811 South First, Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

Submit to appropriate District Office  
State Lease-4 Copies  
Fee Lease-3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-25808		<sup>2</sup> Pool Code 86620		<sup>3</sup> Pool Name Twin ponds / Pictured Cliffs EXT	
<sup>4</sup> Property Code 25019		<sup>5</sup> Property Name NW CHA CHA			<sup>6</sup> Well Number #20
<sup>7</sup> OGRID No. 019219		<sup>8</sup> Operator Name Richardson Operating Company			<sup>9</sup> Elevation 5229' GR

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
G	20	29N	14W		2290	North	1825	East	San Juan

<sup>11</sup> Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County

<sup>12</sup> Dedicated Acres 16.01	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<sup>16</sup> 	<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief  Cathleen Colby Signature Cathleen Colby Printed Name Land Manager Title 7/25/2000 Date
	<sup>18</sup> SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  Date of Survey Signature and Seal of Professional Surveyer:  Certificate Number



NSL  
A/H

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 South First, Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

Form C-102  
Revised March 17, 1999

Submit to appropriate District Office  
State Lease-4 Copies  
Fee Lease-3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-25808		<sup>2</sup> Pool Code 71629		<sup>3</sup> Pool Name Basin Fruitland Coal	
<sup>4</sup> Property Code 25019		<sup>5</sup> Property Name NW CHA CHA			<sup>6</sup> Well Number #20
<sup>7</sup> OGRID No. 019219		<sup>8</sup> Operator Name Richardson Operating Company			<sup>9</sup> Elevation 5229' GR

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South Line	Feet from the	East/West line	County
G	20	29N	14W		2290	North	1825	East	San Juan

<sup>11</sup> Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South Line	Feet from the	East/West line	County

<sup>12</sup> Dedicated Acres 320 E/2	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

		<sup>17</sup> OPERATOR CERTIFICATION
		<p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i></p> <p><i>Cathleen Colby</i></p>
		<p>Signature Cathleen Colby Printed Name Land Manager Title 7/25/2000 Date</p>
		<sup>18</sup> SURVEYOR CERTIFICATION
		<p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyer:</p> <p>Certificate Number</p>

*SA*

NW Cha Cha #20

## 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 #20  
Location T29N, R14W Sec 20 SWNE (Unit G)  
2290' FNL and 1825' FEL  
County San Juan  
Field Cha Cha Gallup  
Pool Cha Cha Gallup  
API# 30-045-25808  
Lease No. Navajo 14-20-603-2200A  
Elev GL 5229'  
Elev KB 5242'  
KB 13'

**OBJECTIVE** Attempt recompletion in Fruitland Coal and Pictured Cliffs formations

### PROCEDURE

1. Rig up wireline truck. Tag top of cement. If plug is in place, TIH with tubing to 3540'. Set 200' balanced plug from 100' below to 100' above Mancos formation. Pull out of hole to 100' below Lewis formation @ 1028'. 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 730'.
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% Cacl<sub>2</sub>, 1/4 #/sack celloflake, .25 #/sack Gilsonite to yield 1.66 ft<sup>3</sup>/sack, 13.6 #/gallon) 20% excess.
6. Flush with 12.35 bbls fresh H<sub>2</sub>O.

NW Cha Cha #20

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 586' to 598' 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. Swab if necessary, establish flow rate for commingling allocation formula. RU Schlumberger. Wireline set retrievable bridgeplug between Pictured Cliffs and Fruitland Coal at 583'.
13. Perforate Fruitland Coal 566' to 580' with 0.41" perforations 4 spf 120 degree phasing.
14. Install 5000# 4 1/2" frac valve.
15. RU frac equipment and pressure test surface lines to 5000 psi.
16. Fracture treat with 20# linear gel and 40,000# 20/40 sand as per service company design. Bullhead 500 gallons 7 1/2" HCL ahead. Observe fracture closure after treatment.
17. Shut in well for 24 hours. Flow back Fruitland coal on 16/64" choke until dead. Note flow rate.
18. TIH and retrieve retrievable bridge plug @ 583'. TOOH. Flow back Pictured Cliffs and Fruitland Coal together.
19. 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.
20. Swab well until flow rate is established or run rods and pump if needed.
21. Obtain water samples of gel analysis when 80% of load recovered.