

UNITED STATES

SUBMIT IN DUPLICATE\*

FORM APPROVED

OMB NO. 1004-0137

## DEPARTMENT OF THE INTERIOR

(See other instructions on reverse side)

Expires: February 28, 1995

## BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-2198

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

Navajo Tribal H # 12

9. API WELL NO.

30-045-08363

10. FIELD AND POOL, OR WILDCAT

W Kutz Pictured Cliffs

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 14, T29N-R14W

12. COUNTY OR PARISH  
San Juan13. STATE  
NM

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1a. TYPE OF WELL:

OIL WELL ☐GAS WELL ☒DRY ☐

Other

b. TYPE OF COMPLETION:

NEW WELL ☐WORK OVER ☐DEEP-EN ☐PLUG BACK ☒DIFF. RESVR. ☐

Other

2. NAME OF OPERATOR

Richardson Operating Company

3. ADDRESS AND TELEPHONE NO.

1700 Lincoln, Suite 1700, Denver, CO 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface 1830' FNL, 810' FWL

At top prod. interval reported below same

At total depth

same

14. PERMIT NO.

DATE ISSUED

12. COUNTY OR PARISH  
San Juan13. STATE  
NM15. DATE SPUDDED  
9/21/196116. DATE T.D. REACHED  
10/4/196117. DATE COMPL. (Ready to prod.)  
7/28/200018. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*  
5203' GR, 5214' KB19. ELEV. CASINGHEAD  
5203'20. TOTAL DEPTH, MD & TVD  
5026'21. PLUG, BACK T.D., MD & TVD  
1699' KB

22. IF MULTIPLE COMPL. HOW MANY?

23. INTERVALS DRILLED BY

ROTARY TOOLS  
X

CABLE TOOLS

24. PRODUCING INTERVAL(S) OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)\*

750' - 755' &amp; 760' - 769' W Kutz Pictured Cliffs

25. WAS DIRECTIONAL SURVEY MADE  
no

26. TYPE ELECTRIC AND OTHER LOGS RUN

Compensated Neutron Log

27. WAS WELL CORED  
no

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8 - 5/8"	22.7 #	211'	12 - 1/4"	150 sx	
4 - 1/2"	9.5 #	5016'	7 - 7/8"	600 sx	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8"	803'	

31. PERFORATION RECORD (Interval, size and number)

750'-755' & 760'-769' 38 holes 0.41"  
2 spf

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
750'-755'	41240 lbs 20/40 Brady Sand
760'-769'	20076 gals linear gel water

33.\* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)					WELL STATUS (Producing or shut-in)	
7/31/2000		pumping					producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL-BBL.	GAS-MCF.	WATER-BBL.		GAS-OIL RATIO
7/31/2000	24	3/8"	—————>	0	90	320		
FLOW. TUBING PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL-BBL.	GAS-MCF.	WATER-BBL.		OIL GRAVITY-API (CORR.)	
22	80	—————>	0	90	320			

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

sold

TEST WITNESSED BY

John Durham

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE

Field Superintendent

DATE

April 11, 2001

\*(See Instructions and Spaces for Additional Data on Reverse Side.)

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.

NMCCD

OFFICE

X

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. C/O Walsh Engineering & Production Corp.  
7415 East Main Farmington, NM 87402 505-327-4892

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1830' FNL & 810' FWL, Section 14, T29N, R14W

5. Lease Designation and Serial No.  
14-20-603-2198

6. If Indian, Allottee or Tribe Name  
Navajo Tribal

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
Navajo H #12

9. API Well No. 08363  
~~05-065-0179~~ 30-045-20698

10. Field and Pool, or Exploratory Area  
Cha Cha Gallup

11. County or Parish, State  
San Juan County, NM

CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☒ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other

- ☐ 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.)\*

Richardson Operating Company proposes to abandon the Cha Cha Gallup zone and recomplete the Kutz West Pictured Cliffs formation according to the attached prognosis.

RECEIVED  
MAY 27 1999  
OIL CON. DIV.  
DIST. 3

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

Signed Paul C. Thompson Title Agent

Date April 24, 1999

(This space for Federal or State office use)

Approved by /S/ Duane W. Spencer

Conditions of approval, if any:

Title Team Lead, Petroleum Management  
Date MAY 25 1999

District I  
PO Box 1900, Hobbs, NM 88241-1900  
District II  
PO Drawer DD, Artesia, NM 88211-4719  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-102  
Revised February 10, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool Code 79680		Pool Name Kutz West Pictured Cliffs	
Property Code		Property Name Navajo H			Well Number 12
OGRID No. 019219		Operator Name Richardson Operating Company			Elevation 5203' GL

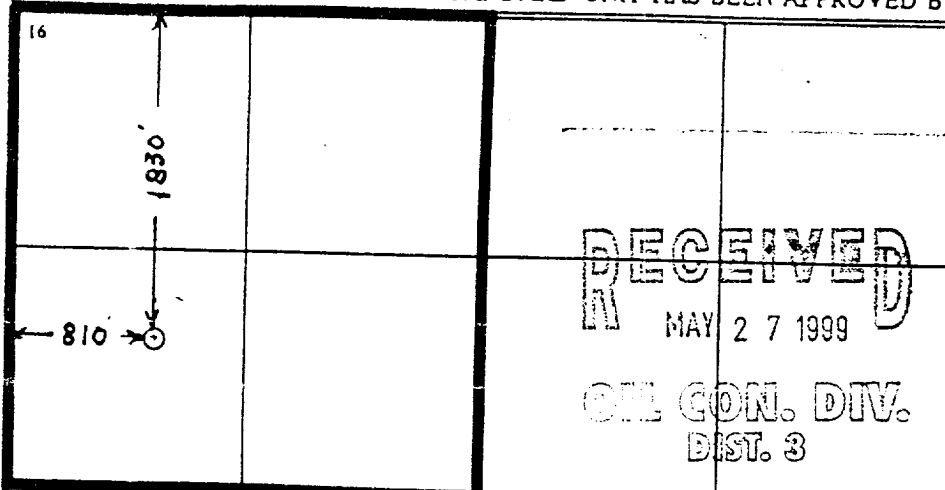
10 Surface Location

UL or lot no. E	Section 14	Township 29N	Range 14W	Lot Ida	Feet from the 1830	North/South Line N	Feet from the 810	East/West Line W	County San Juan
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11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South Line	Feet from the	East/West Line	County
Dedication: Acres 160		Joint or Infill N		Consolidation Code		Order No.			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>16</p> <p>1830'</p> <p>810'</p>	<p>RECEIVED</p> <p>MAY 27 1999</p> <p>OIL CON. DIV.</p> <p>DIST. 3</p>	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p><i>Paul C. Thompson</i></p> <p>Signature Paul C. Thompson</p> <p>Printed Name Agent</p> <p>Title 4/20/99</p> <p>Date</p>
			<p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p>Original on File</p> <p>Certificate Number</p>

Walsh Engineering and Production

Workover/Completion Prognosis for  
Richardson Operating Company  
Navajo H #12

1830'FNL & 810'FWL  
Location: NW/4 Sec 14 T29N R14W  
San Juan County, NM

Date: April 14, 1999

Field: Kutz West Pictured Cliffs  
Surface: Navajo Tribal  
Minerals: Navajo 14-20-603-2198

Elev: GL 5203'  
KB 11'  
Perfs: 4891' slotted  
PBSD: 4969'

Objective: Abandon Gallup and recomplete in Pictured Cliffs

Procedure:

1. MOL and RU completion rig. NU 2-3/8" relief line. Hold safety meeting. Nipple down tubinghead and nipple up BOP.
2. Release Model "R" packer at 4891' and TOH. Lay down packer. TIH and spot 10 sx of Cl "B" cement with 1/4#/sx. celloflake and 2% CaCl<sub>2</sub> from PBSD at 4969' to 4841' (50' above the casing slot at 4891'). Pull up and spot 125 sx of Cl "B" cement with 1/4#/sx. celloflake and 2% CaCl<sub>2</sub> from 3380' to 1800' (50' below Mesa Verde to 50' above the squeeze holes at 1843').
3. Pull up to 1500' and WOC for 4 hours. TIH and tag cement top. Circulate hole with water and pressure test to 1000#. TOH.
4. Rig up wireline and run GR - Neutron and CBL logs from 1500' to surface.
5. If necessary, shoot 2 squeeze holes at approximately 1000' and attempt to circulate through the bradenhead. Pick up 4-1/2" X 2-3/8" packer and set 200' above the squeeze holes. Pump and displace cement as necessary. Maximum squeeze pressure is 2000#. WOC. Drill cement and pressure test to 2000#. Resqueeze if necessary.
6. Perforate Pictured Cliffs at approximately 750' - 755 and 763' - 770' at 2 spf. Refer to GR/Neutron log for exact perf intervals.
7. Install 5000# frac valve on 4-1/2" casing.
8. Rig up frac equipment and pressure test surface lines.

9. Fracture with 40,000# of 16/30 sand in a 70 quality nitrogen foam. Fluid is 20# linear gel. Pump rate at 25 BPM and expected treating pressure is 1500 psig. Max treating pressure is 2000 psig. Treat with the following schedule if pressure permits:

Stage	Foam Vol. ( Gals.)	Gel Vol. (Gals.)	Sand Vol. (lbs.)
Pad	10,000	3,000	0
1.0 ppg 16/30	10,000	3,000	10,000
2.0 ppg 16/30	10,000	3,000	20,000
3.0 ppg 16/30	3,330	1,000	10,000
Flush	550	180	0
Total	<u>33,880</u>	<u>10,180</u>	<u>40,000</u>

10. Close frac valve. RD frac company and install flowline with 1/4" ceramic choke. Flow well back to pit overnight.
11. When well dies, remove frac valve and install tubing head. NU stripping head.
12. TIH with sand bailer on 2-3/8" tubing and clean out to PBTD. TOH.
13. TIH and land tubing, with SN on top of bottom joint, at the top of the perfs. Return well to production. Rig down and release rig.

Paul C. Thompson

Paul C. Thompson, P.E.

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

Form C-104  
Revised March 25, 1999

OIL CONSERVATION DIVISION  
2040 South Pacheco

Submit to Appropriate District Office  
5 Copies

Santa Fe, NM 87505

☐ Amended

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

<sup>1</sup> Operator Name and Address Richardson Operating Company 1700 Lincoln Street, Suite 1700 Denver, CO 80209		<sup>2</sup> OGRID Number 019219
		<sup>3</sup> Reason for Filing Code RECOMPLETION
<sup>4</sup> API Number 30-045-08363	<sup>5</sup> Pool Name WEST KUTZ PICTURED CLIFFS	<sup>6</sup> Pool Code 79680
<sup>7</sup> Property Code 23871	<sup>8</sup> Property Name NAVAJO TRIBAL H	<sup>9</sup> Well Number 12

II. <sup>10</sup> Surface Location

UI or lot no. E	Section 14	Township 29N	Range 14W	Lot.Idn	Feet from the 1830	North/South line NORTH	Feet from the 810	East/West line West	County San Juan
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<sup>11</sup> Bottom Hole Location

UI or lot no.	Section	Township	Range	Lot.Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Lse Code N	<sup>13</sup> Producing Method Code P	<sup>14</sup> Gas Connection Date 7/31/2000	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date				

III. Oil and Gas Transporters

<sup>18</sup> Transporter OGRID 185142	<sup>19</sup> Transporter Name and Address SAN JUAN OIL & GAS	<sup>20</sup> POD 2831323	<sup>21</sup> O/G G	<sup>22</sup> POD ULSTR Location and Description

IV. Produced Water

<sup>23</sup> POD 2831330	<sup>24</sup> POD ULSTR Location and Description
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V. Well Completion Data

<sup>25</sup> Spud Date 9/21/61	<sup>26</sup> Ready Date 7/31/2000	<sup>27</sup> TD 5026	<sup>28</sup> PBD 1699	<sup>29</sup> Perforations 750-755, 760-769	<sup>30</sup> DHC, MC DHC
<sup>31</sup> Hole Size 12 1/4	<sup>32</sup> Casing & Tubing Size 8 5/8	<sup>33</sup> Depth Set 211	<sup>34</sup> Sacks Cement 150		
7 7/8	4-1/2"	5016	600		
	2-3/8"	803			

VI. Well Test Data

<sup>35</sup> Date New Oil	<sup>36</sup> Gas Delivery Date 8/1/2000	<sup>37</sup> Test Date 7/31/2000	<sup>38</sup> Test Length 24	<sup>39</sup> Tbg. Pressure 22	<sup>40</sup> Csg. Pressure 80
<sup>41</sup> Choke Size 0-Jan	<sup>42</sup> Oil	<sup>43</sup> Water 320	<sup>44</sup> Gas 90	<sup>45</sup> AOF	<sup>46</sup> Test Method FLOWING

<sup>47</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *John Whisler*

Printed name:  
John Whisler  
Title:  
Operations Manager

Date: 2/20/2002 Phone: 303-830-8000

OIL CONSERVATION DIVISION

Approved by: *[Signature]*

Title: *[Signature]*

Approval Date: FEB 22 2002

<sup>48</sup> If this is a change of operator fill in the OGRID number and name of the previous operator.

Previous Operator Signature

Printed Name

Title

Date