

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)  
705' FSL & 660' FWL, Section 13, T29N, R14W

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

6. If Indian, Allottee or Tribe Name  
Navajo Tribal

If Unit or CA, Agreement Designation

Well Name and No.  
Navajo H # 5

API Well No. 13101

10. Field and Pool, or Exploratory Area  
Wildcat Mesa Verde

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 Wildcat Mesa Verde zone and recompleat the Kutz West Pictured Cliffs and Basin Fruitland Coal formation according to the attached prognosis.

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

Signed Paul K. Thompson Title Agent Date April 20, 1999

(This space for Federal or State office use)

Approved by /S/ Duane W. Spencer

Conditions of approval, if any:

Team Lead, Petroleum Management Title MAY 25 1999 Date

District I  
PO Box 1908, Hobbs, NM 88241-1908  
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 71629	* Pool Name Basin Fruitland Coal
* Property Code	* Property Name Navajo H		* Well Number 5
* OGRID No. 019219	* Operator Name Richardson Operating Company		* Elevation 5278' GL

**10 Surface Location**

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South Line	Feet from the	East/West Line	County
M	13	29N	14W		705	S	660	W	San Juan

**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 320	* Joint or Infill Y	* Consolidation Code	* Order No.
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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

<div data-bbox="123 1095 592 2032"> <p>16</p> </div>	<div data-bbox="592 1095 1063 2032"> <p><b>RECEIVED</b> MAY 27 1999 <b>OIL CON. DIV.</b> <b>DIST. 3</b></p> </div>		<p><b>17 OPERATOR CERTIFICATION</b> 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> Signature Paul C. Thompson Printed Name Agent Title 4/20/99 Date</p>
			<p><b>18 SURVEYOR CERTIFICATION</b> 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 Signature and Seal of Professional Surveyor:</p>
			<p>Certificate Number</p>

HOLD C104 FOR *✓ 5/21/99*

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  
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☐ 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 5
OGRID No. 019219	Operator Name Richardson Operating Company		Elevation 5278' GL

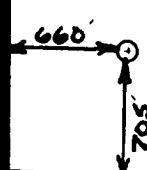
10 Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
M	13	29N	14W		705	S	660	W	San Juan

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
Dedicated Acres 160	Joint or Infill Y	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

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

HOLD C104 FOR 11540

**Walsh Engineering and Production**

**Workover/Completion Prognosis for  
Richardson Operating Company  
Navajo H #5**

705'FSL & 660'FWL  
Location: SW/4 Sec 13 T29N R14W  
San Juan County, NM

Date: April 14, 1999

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

Elev: GL 5278'  
KB 7'  
Perfs: 3355'-3365'  
PBSD: 4868' Retainer

**Objective:** Abandon Mesa Verde and recompleat in Pictured Cliffs and Basin Fruitland Coal

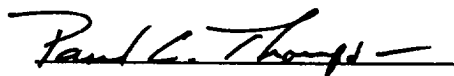
**Procedure:**

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 3312' and TOH. Lay down packer. TIH and spot 55 sx of Cl "B" cement with 1/4#/sx. celloflake and 2% CaCl<sub>2</sub> from 3405' to 2750' (50' below bottom perf and 50' above the squeeze holes at 2810').
3. Pull up to 2000' 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 875' - 880 and 890' - 900' 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 perms. Return well to production. Rig down and release rig.



Paul C. Thompson, P.E.