

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

RECEIVED
BLM

99 MAR -9 PM 2:46

5. Lease Designation and Serial No.

NM - 28820

070

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPPLICATE

7. If Unit or CA, Agreement Designation

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.

Ms. Nona #2

2. Name of Operator

Richardson Operating Company

9. API Well No.

3604522764

3. Address and Telephone No.

1700 Lincoln, Suite 1700, Denver, CO 80203 303-830-8000

10. Field and Pool, or Exploratory Area

Basin Dakota

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

920' FNL & 970' FEL, Sec. 15, T30N, R14W

11. County or Parish, State

San Juan, 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 see below

☐ 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 intends to abandon the Dakota formation and re-complete the well in the Pictured Cliffs zone as per the attached procedure.

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

Signed

[Signature]

(John C. Thompson) Title

Agent/Engineer

Date

03/09/99

(This space for Federal or State office use)

Approved by

/S/ Duane W. Spencer

Title

Team Lead, Petroleum Management

Date

MAR 10 1999

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 Instruction on Reverse Side

HOLD COPY FOR *[Signature]*

NMCCD



ENGINEERING & PRODUCTION CORP.

COMPLETION PROGNOSIS FOR

Richardson Operating Company Ms. Nona #2

Location: Sec 15 T30N R14W
San Juan, New Mexico

Date: March 9, 1999

Field: Basin Dakota - PB to Pictured Cliffs

Elev: 6111' KB

Elev: 6102' GL

Minerals: Federal

PBTD: 6553' GL

Surface:

PC perfs: 6398' - 6544'

Procedure:

Plug back Dakota Formation

1. MOL & RU pulling unit. Blow well down, kill w/ 2% KCl water if necessary. ND WH & NU BOP. Release Model "R" packer & PU additional tbg. (3 or 4 jts.) so BOT is below bottom Dakota perf. (6544').
2. **Plug #1 Dakota**
RU Cementer's Inc. & spot 37 sx (44 cu. ft.) of Class "B" cement across Dakota perfs. (6398' - 6544'). Cement plug is designed to cover from 6298' - 6544' (246') w/ 100% excess.
3. **Plug #2 Gallup**
Pull up hole & set BOT @ 5624'. Spot 30 sx (35.4 cu. ft.) of Class "B" cement across Gallup interval. Cement plug is designed to cover from 5424' - 5624' (200') w/ 100% excess.
4. TOH (laying down) 1-1/2", 2.9#, EUE tbg. (125 jts., 1 jt w/ packer & 74 jts.)
5. **Mesaverde**
PU cement retainer & RIH on 2-3/8" tbg. Set cement retainer at 3150'. Mix & pump 188 sx (222 cu. ft.) of Class "B" cement. Sting out of retainer leaving approx. 50' of cement on top of retainer.
6. Reverse tubing clear w/ 2% KCl water. Leave well bore full of 2% KCl water. Shut pipe rams & pressure test casing to 1500#. TOH.

Complete Pictured Cliffs

7. RU Wireline Unit & run bond log from PBTD (should be around 3100') to 1000'. Zone of interest is from 1700' to 1900'. If bond is not OK, squeeze as necessary. Note: may have to run bond log under pressure.

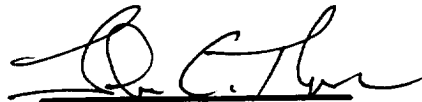
Stage	Foam Volume (gals.)	Gel Vol. (gals.)	Sand Vol. (lbs.)
Pad	6,000	1,800	0
1.0 ppg	8,000	2,400	8,000
2.0 ppg	7,000	2,100	14,000
3.0 ppg	3,667	1,100	11,000
4.0 ppg	1,750	525	7,000
Flush	1,120	458	0
Total	27,537	8,383	40,000

Note: Frac schedule may vary, refer to treating schedule provided by Stimulation Company

8. Watch pressure for 15 min. after shutting down pumps, then close frac valve.
9. RD frac company and install flow line with 1/4" ceramic choke. Open well as soon as possible and flow back to pit overnight.

Clean Out

7. When well dies, remove frac valve and install tubing head. NU BOP (or approved stripping head).
8. TIH w/ 2-3/8" tbg. and circulate out sand w/ water. If unable to circulate, use RIH w/ "Bull Dog" type bailer & clean out sand to at least 100' below bottom perf. (1786').
9. If well is flowing on it's own land tubing as close to the top perf as possible with SN on top of bottom jt. If not, land tbg. (w/ SN on top of bottom jt.) so SN is below bottom perf. (1786'). Run insert pump on 3/4" rods & set pumping unit.
10. Rig down and release rig.



John C. Thompson, Engineer

8. If bond looks good. RIH & perforate the Pictured Cliffs w/ 3-1/8" csg. gun. from 1776' to 1786' (3 spf, EHD: 0.30") Total of 30 holes. Refer to bond log & SWS open hole logs for depth correlation.
9. RU stimulation company and pressure test pumps & surface lines. Max treating pressure will be #3,800.
10. Fracture Pictured Cliffs with #40,000 of 20/40 sand in a 70% quality Nitrogen foam. Fluid is to be a linear #20 guar gel. Pump rate at 30 bpm and expected treating pressure is #850 psig. Max treating pressure is 4,000 psig. Treat with the following schedule:

Stage	Foam Volume (gals.)	Gel Vol. (gals.)	Sand Vol. (lbs.)
Pad	6,000	1,800	0
1.0 ppg	8,000	2,400	8,000
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16. Rig down and release rig.

John C. Thompson, Engineer

Richardson Operating Company

Ms. Nona #2

Sec 15 Twp 30N Rge 14W

920' fnl & 970' fel

San Juan County, New Mexico

Re-completion Status

revised 3/9/99 jct

Geology	
Field: Basin Dakota	
PB to PC	
Fruitland:	1520'
Pictured Cliffs:	1773'
Lewis:	1942'
Cliffhouse	3293'
Menefee:	3468'
Point Lookout:	4208'
Mancos:	5459'
Gallup:	5524'
Greenhorn:	6284'
Graneros:	6348'
Dakota:	6396'

