

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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2003 JAN -7 PM 12: 51

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

Roddy Production Company, Inc.

3. Address and Telephone No.

P. O. Box 2221, Farmington, NM, 87499 (505)325-5750

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

1850' FSL - 890' FWL, Section 34, T29N, R10W, NMMPM

5. Lease Designation and Serial No.  
SF080724A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
Zachry Federal No. 1

9. API Well No.  
30 - 045 - 07657

10. Field and Pool, or Exploratory Area  
Basin Dakota

11. County or Parish, State  
San Juan Co., New Mexico

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

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

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

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.)

Roddy Production Company, Inc. proposes to determine the source of the oil, gas and water flow coming from the bradenhead of this well. The bradenhead test indicates it is not coming from a leak in the production casing. Roddy will pull the tubing, set a bridge plug above the DV tool at 2000', test the production casing to 500 psig. Perforate three squeeze holes fifty feet below the base of the Ojo Alamo in the 5 1/2" production casing. We will establish circulation to the surface through the bradenhead valve and then circulate an 8.5 - 9.5 ppg mud through the annular space to insure the flow out the bradenhead is nil. We will then pump an adequate cement volume down the casing to place a cement plug in the annulus from 725' to 990' and leave one hundred feet of cement inside the casing. The cement will be allowed to cure for a minimum of twelve hours and no flow out of the bradenhead valve will be ascertained prior to drilling out the interior plug. This will isolate the Ojo Alamo from any possible hydrocarbon zones below. The cement will be drilled out and the squeeze holes will be tested to 500 psig to insure casing integrity. The bridge plug will be retrieved and the well returned to production.

The BLM and NMOCDD will be advised during each of the evaluation steps to insure the correct curative action is used.

A wellbore diagram is attached for your reference. Please note that the calculated cement tops are an estimate since the actual hole size is not known. We feel confident in the calculation for the lower stage since there is a caliper log available for that section. There are only strips of caliper log pulled through the upper hole.

14. I hereby certify the foregoing is true and correct

Signed Robert E. Zilber

Title Agent

Date January 3, 2003

(This space for Federal or State office use)

Approved by Jim Lovato  
Conditions of approval 1/8/03

Title \_\_\_\_\_

Date JAN - 8 2003

NMOCDD

Roddy Production Company, Inc.  
Zachry Federal No. 1  
Workover Procedure

**Location:** 1850' FSL – 890' FWL, Section 34, T29N, R10W, NMPM

**Lat / Long:**

**Elevations:** 5707' GL; 5717' KB. KB = 10 feet

**Lease Type/ Serial No.:** Federal, SF080724A

**Producing Pool:** Basin Dakota

**Spud Date:** January 2, 1960

**Completion Date:** March 21, 1960

**Total Depth:** 6625'

**PBTD:** 6586'

**Formation Tops:**

Ojo Alamo	775'
Kirtland	940'
Farmington	1036'
Fruitland	1673'
Fruitland Coal	1790'
Pictured Cliffs	1906'
Lewis	2014'
Chacra	2903'
Cliff House	3575'
Menefee	3610'
Pt. Lookout	4232'
Mancos	4530'
Gallup	5448'
Lower Mancos	6015'
Greenhorn	6220'
Graneros	6341'
Dakota	6408'
Morrison	6570'
Total Depth	6625'

**Tubulars:**

10.750" 32.75 ppf H-40 casing set in 12.250"(?) OH at 302' KB. Cemented with 300 sacks (354.0 cf) regular cement with 2% CaCl<sub>2</sub>. Calculated TOC – surface.  
5.500" 17.0 ppf J-55(?) casing set in 9.000"(?) OH at 6622' KB. DV tool at 2000' KB. Cement Stage One with 200 sacks (286.0 cf) 50/50 Pozmix with 4% gel followed by 200 sacks (252.0 cf) of 50/50 Pozmix with 2% gel. Calculated TOC(@ 70% fill up) – 5261'. Cement Stage Two with 150 sacks(189.0 cf) of

50/50 Pozmix with 2% gel. Calculated TOC(@70% fill up) – 1522'. DV tool did not close. WOC 48 hours. Squeezed DV with 61 sacks to get casing test of 3500 psi.

2.375" 4.7 ppf J-55(?) tubing set at 6514' KB. Approximately 207 joints.

**Completion:**

Perforated 6480 – 6524' with 2 JSPF. Acidized with 500 gals 15% MCA. Frac with 21,500 gals 1% CaCl<sub>2</sub> water and 21,500 # sand. Sanded off.

Perforated 6340 – 6350' and 6408 – 6450'. Acidize with 500 gals 15% MCA. Frac with 40,000 gals 1% CaCl<sub>2</sub> water and 45,000 # sand.

**Workover History:** None. 2" plunger lift installed in well

**Workover Procedure:**

1. Set and test guyline anchors.
2. Move in and rig up service unit. Set flowback tank and lay bleed off line off casing valve to flowback tank. Blow casing down.
3. Kill well with 2% KCl water. Keep track of all water pumped in well.
4. Nipple down tubing head adaptor. Nipple up 7 1/16" 3000 # BOP. Install 2 " pipe rams.
5. Unseat tubing hanger. Pick up to remove hanger. Pick up extra tubing to tag fill. Two extra joints should tag.
6. Pull out of hole with tubing. Strap out. Visually inspect all tubing for signs of corrosion or wear. Note depth of any corrosion and lay down all bad joints.
7. If significant fill is indicated in Step 5, pick up pump bailer and run in hole on tubing to clean out fill to PBTD, if possible. Use 2% KCl water only to operate bailer. If no fill is indicated, skip this step.
8. Pick up 5 1/2" RBP . Trip tools in hole on tubing. Set RBP at 1900'±. Load hole with 2% KCl water. Test casing from surface to RBP to 500 psi for 5 minutes.  
NOTE: if tubing is scaled , run 5 1/2" casing scraper before running tools in hole.
9. Pump 10 gals frac sand down tubing to spot on RBP. Pull out of hole with tubing.
10. Rig up wireline unit. Rig up lubricator on BOP. Run in hole with squeeze gun loaded with three shots on 120° phasing. Shoot squeeze holes at 990'. Pull out of hole with gun. Close blind rams and rig up pump line to casing valve. Open bradenhead valve. Pump down casing with dyed fresh water and monitor bradenhead output to insure fluid is moving up annulus. Circulate dye water to determine annular volume. Shut down pump. Monitor bradenhead for flow. If bradenhead continues to flow, mix and pump a 9.5 ppg mud until this weight mud returns to the surface through the bradenhead. Shut down pump and monitor bradenhead for flow. As soon as bradenhead flow is killed, mix and pump 215 sacks (253.7 cf) of Class B cement with 3% CaCl<sub>2</sub> (adjust volume to dye caliper volume). Displace cement with fresh water down casing to spot plug inside casing from 890' to 990' and outside casing from 725' to 990'. This cement volume is calculated using 100% excess for annular volume and 50' excess for casing volume. Circulate out bradenhead while cementing. Shut in casing at surface and bradenhead valve as soon as cement is on spot.

11. WOC 12 hours minimum.
12. Pressure test casing above squeeze to 500 psi for 5 minutes.
13. Pick up 4 3/4" spade mill, 5 1/2" casing scraper, six 3" drill collars and crossover to tubing thread. Run in hole on tubing to tag top of cement. Drill out cement. Test squeeze to 500 psi for 5 minutes. Displace hole with clean 2% KCl water. Run in hole to tag sand on top of RBP after squeeze is drilled out and tested successfully.
14. Pull out of hole with tubing. Lay down drill collars and scraper.
15. Pick up retrieving head and inline check valve. Run in hole on tubing to tag sand. Displace water with nitrogen. Jet sand out with nitrogen and retrieve RBP. Pull out of hole and lay down RBP.
16. Run production tubing with sawtooth collar on bottom and 1.78" ID F nipple one joint above bottom. Land tubing at 6514'±.
17. Nipple down BOP. Nipple up tubing head adaptor.
18. Rig up to swab. Make first run to F nipple with tool string only. Swab well in. Return to production.
19. Rig down service unit and all equipment.

12 1/4" OH TP?

302'

10.750" 32.75 ppf H-40 casing set at 302' KB  
Cemented with 300 sacks regular cement with 2% CaCl<sub>2</sub>  
Dio not report circulation to surface.  
70% fill up =  $300 \times 1.10 \times .7 = 247.8 \text{ cf}$   
 $12\frac{3}{4} \times 10\frac{3}{4} = 5.3144 \text{ ft/cf}$   
 $247.8 \times 5.3144 = 1317'$  should be adequate to  
circulate

Ojo Alamo 775' -

Kitland 940'-

FARMington 1034'

Fruitland 1673-

BASAL 1790-

COAL  
B. 11:15 1906-

LEWIS 2014

CALC TOC (9" OH)  
1522'

DU Tool@ 2000'

Cement stage 2 with 150 sacks 50/50 Poz with 2% gel.  
 $150 \times 1.26 \times .7 = 132.3 \text{ cf}$   
 $132.3 \times 3.6127 = 478'$   
 $2000 - 478 = 1522'$   
 DV tool did not close. WOC 48 hrs. BD @ 1800"  
 Squeeze with 61 sacks total into DV tool to  
 get squeeze to 3000#. Drill out cement. PT  
 casing to 3500psi

Chacra 2903'

Cliff House 3575'

MENEFC 3610'

Pt. Lookout 4232'

Manco 4530'-

Calc TOC (9" OH)  
5261'

Gallup 5448'

Greenhorn 6220

Graneros 6341

Dakota 6408

2 3/8 tubing  
set @ 65 14'

6340

6350

640B

6450

6480

6524

Perforated w/ ? ISPF: Frac with 40,000 gnl 1%  $\text{CaCl}_2$  water  
+ 45,000# SAND

Perfd ZJSPF. Frac with 35,000 gals 1%  $\text{CaCl}_2$  water +  
35,000# SAND. Screened out with 21,000# sand in formation

5 1/2" 17.0 ppf KorN casing set at 6622' KB  
Cement Stage I with 200 sacks 50/50 Poz with 4% gel followed  
by 200 sacks 50/50 Poz with 2% gel.  
 $(200 \times 1.43 \times .7) + (200 \times 1.26 \times .7) = 376.6 \text{ cf}$

Morrison 6570'

PBTV-4596