

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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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, NMPM

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

TYPE OF ACTION

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

- ☐ 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 Dakota perfs, test the production casing to 1000 psig and then run a CBL from 1700' to the surface. Future work will be determined from the results of the CBL. The most likely scenario we foresee is perforating 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 202' 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 1000 psig to insure casing integrity. The bridge plug will be retrieved and the well returned to production.

The BLM and NMOCD 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. Field

Title Agent

Date December 16, 2002

(This space for Federal or State office use)

Approved by Jim Lovato
Conditions of approval, if any:

Title Ret. Eng.

Date DEC 30 2002

NMOCD

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% CaCl₂. 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% CaCl₂ 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% CaCl₂ 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 and packer. Trip tools in hole on tubing. Set RBP at 6300'±. Pick up one joint and set packer. Test RBP to 1500 psi for 5 minutes. Release packer and load hole with 2% KCl water. Test casing from surface to RBP to 1000 psi for 5 minutes. NOTE: if tubing is scaled , run 5 1/2" casing scraper before running tools in hole.
9. a) If casing does not hold pressure - Pull out of hole with packer to 2900'±. Set packer and test from packer to RBP to 1000 psi for 5 minutes. Continue testing out until leak is isolated top and bottom.
b) If casing holds pressure – pull out of hole with tubing. Lay down packer.
10. Rig up wireline unit. Run CBL / VDL from 1700' to surface to determine if casing is free enough to shoot squeeze holes fifty feet below base of Ojo Alamo and circulate to surface through bradenhead. **Note:** If CBL indicates cement coverage above top Farmington sand at 1115', proceed to step 16.
11. Run in hole with tubing and spot ten foot of 20/40 frac sand on top of RBP
12. If other zones require squeeze work, complete these first. Rig up wireline unit and 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 fresh water and monitor bradenhead output to insure fluid is moving up

1. The first part of the document is a letter from the President of the United States to the Congress, dated January 3, 1862.

2. The second part is a report from the Secretary of the Treasury, dated January 3, 1862.

3. The third part is a report from the Secretary of the Interior, dated January 3, 1862.

4. The fourth part is a report from the Secretary of the Navy, dated January 3, 1862.

5. The fifth part is a report from the Secretary of the War, dated January 3, 1862.

6. The sixth part is a report from the Secretary of the State, dated January 3, 1862.

7. The seventh part is a report from the Secretary of the Army, dated January 3, 1862.

8. The eighth part is a report from the Secretary of the Navy, dated January 3, 1862.

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13. The thirteenth part is a report from the Secretary of the War, dated January 3, 1862.

14. The fourteenth part is a report from the Secretary of the State, dated January 3, 1862.

15. The fifteenth part is a report from the Secretary of the Army, dated January 3, 1862.

16. The sixteenth part is a report from the Secretary of the Navy, dated January 3, 1862.

17. The seventeenth part is a report from the Secretary of the War, dated January 3, 1862.

18. The eighteenth part is a report from the Secretary of the State, dated January 3, 1862.

19. The nineteenth part is a report from the Secretary of the Army, dated January 3, 1862.

20. The twentieth part is a report from the Secretary of the Navy, dated January 3, 1862.

annulus. 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 65 sacks (76.7 cf) of Class B cement with xxxx . Displace cement with fresh water down casing to spot plug inside and outside casing from 890' 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.

13. WOC 12 hours minimum.
14. Pressure test casing above squeeze to 1000 psi for 5 minutes.
15. Pick up 4 ¾" spade mill, 5 ½" 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 1000 psi for 5 minutes. Drill out any other squeezes and test in a like manner. Displace hole with clean 2% KCl water Run in hole to tag sand on top of RBP after all squeezes are drilled out and tested successfully..
16. Pull out of hole with 2000 feet of tubing. Displace water with nitrogen. Pull out of hole with tubing. Lay down drilling tools.
17. Pick up pump bailer and retrieving head. Run in hole to tag sand on RBP. Bail out sand and retrieve RBP. Pull out of hole and lay down RBP.
18. Run production tubing with sawtooth collar on bottom and 1.78" ID F nipple one joint above bottom. Land tubing at 6514'±.
19. Nipple down BOP. Nipple up tubing head adaptor.
20. Rig up to swab. Make first run to F nipple with tool string only. Swab well in. Return to production.
21. Rig down service unit and all equipment.

Roddy Production Co.

Zachry FEDERAL #1

12 3/4" OHTD?
Ojo Alamo 775'
Kirtland 940'
Farmington 1032'
Fruitland 1673'
Basal Fruitland 1790'
Pic. Cliffs 1906'
Lewis 2014'
Chacra 2503'
Cliff House 3575'
MENEZES 3610'
Pl. Lockout 4232'
Manco 4530'
Gallup 5448'
Greenhorn 6220'
Graneros 6341'
Dakota 6408'
2 3/8" tubing set @ 6514'
Morrison 6570'
9" OHTD 6625'

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2 3/8" tubing set @ 6514'
Morrison 6570'
9" OHTD 6625'

302'

10.750" 32.75 ppf H-40 casing set at 302' KB
Cemented with 300 sacks regular cement with 2% CaCl_2
Dio Not report circulation to surface.
 $70\% \text{ fill up} = 300 \times 1.18 \times .7 = 247.8 \text{ cf}$
 $12 3/4 \times 10 3/4 = 5.3144 \text{ ft}^2$
 $247.8 \times 5.3144 = 1317'$ should be adequate to circulate

Calc TOC (9" OH)
1522'

DV 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 3500 psi

Calc TOC (9" OH)
5261'

6340
6350
6408
6450

Perf'd w/ 7 JSPP: Frac with 40,000 gal 1% CaCl_2 water & 45,000# SAND

6480
6524

Perf'd 2 JSPP: Frac with 35,000 gals 1% CaCl_2 water & 35,000# SAND. Screened out with 21,000# sand in formation

PBTD 1586'

5 1/2" 17.0 ppf KorN casing set at 6622' KB
Cement Stage 1 with 200 sacks 50/50 Poz with 4% gel followed by 200 sacks 50/50 Poz with 2% gel.
 $(200 \times 1.43 \times .7) + (200 \times 1.26 \times .7) = 376.6 \text{ cf}$
 $5 1/2 \times 9' = 3.6127 \text{ ft}^2$
 $376.6 \times 3.6127 = 1361' \text{ fill}$
 $6622 - 1361 = 5261'$