

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICE AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use APPLICATION TO DRILL for permit for such proposals

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SUBMIT IN TRIPLICATE

070 FARMINGTON, NM

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
WILLIAMS PRODUCTION COMPANY

3. Address and Telephone No.
PO BOX 3102 MS 37-4, TULSA, OK 74101 (918) 588-4592

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1035' FSL & 990' FWL, SW/4 SW/4, SEC 12 T31N R6W

5. Lease Designation and Serial No.
SF-078767

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation
ROSA UNIT

8. Well Name and No.
ROSA UNIT #225

API Well No.
30-039-24499

10. Field and Pool, or Exploratory Area
BASIN FRUITLAND COAL

11. County or Parish, State
RIO ARRIBA, 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 Cavitation

- ☐ 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.)*

6-04-1998: MIRU Big A Rig 22. Pull and LD 92 jts 2 3/8" and 9 jts 2 1/16" tubing. Strap 14 3 1/2" DC's and 2 7/8" AOH DP. GPS location--N 35 deg 54.58 min, W 107 deg 25.20 min.

6-05-1998: PU DC's & DP. TIH w/ TIW liner hanger setting/retrieving tool. Kill well, screw into top of liner hanger. Work liner free and COOH. LD 9 jts 4" liner. PU Baker Locamatic #4 under reamer(8 1/2"). TIH, under ream 3051'-3245'. Circulate well clean.

6-06-1998: Finish under reaming 4 3/4" hole to 8 1/2". COOH. TIH w/ 4 3/4" bit. CO to TD, returns-coal powder in black wtr. Flow test well thru 3/4" choke (avg = 185 mcf/d). Surge 3 times to 1375 psi. Returns on surges, coal powder in black wtr, hole bridged on last surge. CO to 3128', hole tight and lifted DP.

6-07-1998: CO to TD, returns- hvy 1/8" coal and less reducing to lite coal fines in gray wtr. Surge well 5 times. TIH and tagged 10' fill, returns-lite coal fines in gray wtr, dry well. Obtain 3/4" choke flow test = 233 mcf/d and SI pressure test.

6-08-1998: Surge well 9 times w/ air to 1400 psi, returns on first 8 surges, lite coal fines, on last surge, returns-hvy coal slurry. Well bridged in casing and open hole. Clean out to TD, returns-med 1/4" coal to fines in black wtr. Dry well, conduct flow test on 3/4" choke = avg 232 mcf/d and SI test.

Continued on Reverse Side

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

Signed Susan Griguhn
SUSAN GRIGUHN

Title CLERK Date July 17, 1998

(This space for Federal or State office use)

Approved by

Title

Conditions of approval, if any:

ACCEPTED FOR RECORD

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.

NMOCD

FARMINGTON DISTRICT OFFICE

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COMMERCE

09-1998: SI pressure test for 90 mins = 520#. COOH. Surge well 4 times with air to 1500#, returns = heavy coal dust and coal chunks up to 1-1/2". 1st surge plugged BOP stack. CO stack. TIH and tagged fill @ 3118'. CO to TD, returns = med to lite 1/4" coal to fines in black to gray wtr. Flow test well (avg = 232 MCF/d). SI pressure test.

10-1998: Finish SI pressure test. COOH. Surge well 6 times w/ air and 2 times natural, returns-hvy coal up to 1 1/2" to fines in black thick wtr. TIH and CO to TD, returns hvy to med coal fines in black to gray wtr.

11-1998: CO @ TD w/ 1800 scf air and 5 bbl wtr mist per hr, returns-lite finēs. Dropped one compressor and CO w/ 900 scf air and 1 1/2 bbl wtr 1st hr, returns-lite 1/8" coal to fines in gray wtr. Two compressors caused too much pressure restriction in the annulus holding wtr in the formation. Flow test on 3/4" choke (avg = 323 mcf/d). SI pressure test (90 min-420 psi).

12-1998: COOH. Surge well 4 times w/ air to 1240 psi, returns-2" stream of black wtr w/ coal fines for 30 min each surge changing to gray wtr. TIH and tag 12' of fill @ 3232'. CO w/ 900 scf air, returns-hvy coal fines in black wtr to lite coal fines in gray wtr. Dry well. Flow test (avg = 276 mcf/d). 90 min SI pressure test = 440 psi.

13-1998: COOH. Surge well 6 times, returns-coal fines in black thick wtr with 2" coal on 5th surge. Well bridged off. TIH cleaning out bridges and tag fill @ 3200'. CO tight hole 3160' to 3222', returns-med to hvy 1/4" coal to fines in dark gray wtr.

14-1998: CO 3160'-3191' w/ 900 scf air and 5 bbl wtr mist per hr. Hole sticky in some places, returns-med to lite 1/4" coal to fines in gray wtr. CO 3223'-3244' w/ air & mist, returns-med to lite 1/4" coal to fines decreasing to lite 1/8" coal to fines in gray wtr. Dry well. Flow test thru 3/4" choke (avg 59 mcf/d). SI pressure test.

15-1998: COOH to surge. Surge well 4 times to 1250 psi, returns of surges, lite fines in black wtr. TIH and tagged 21' of fill @ 3223'. CO @ TD w/ 3 bbl wtr mist per hr and 5 bbl wtr sweeps per hr, returns-med to lite 1/8" coal to fines in gray wtr, med 1/8" coal on sweeps. Dry well. Flow test thru 3/4" choke (avg 281 mcf/d). Well started flowing 1" stream of wtr at end of test.

16-1998: COOH. Surge well 5 times, returns-hvy coal up to 2" and fines in black viscous wtr. Well bridged in casing. TIH and cleaning out, returns-hvy to lite coal 1/4" to 1/8" and fines in black wtr.

17-1998: CO @ TD w/ 900 scf air and wtr mist, returns-hvy 1/4" to 3/8" coal to fines in black viscous wtr. Cleaned out coal for 15 hrs, flow test thru 4" choke (avg 620 mcf/d). COOH.

18-1998: Surge well 7 times w/ air, returned coal up to 2" on one surge otherwise returns were coal fines in gray wtr. TIH. CO at TD, returns-hvy 1/4" coal in black to gray wtr.

19-1998: CO @ TD w/ air and mist, returns-med to hvy 1/4" coal to fines in black to dark gray wtr reducing to lite 1/4" to fines. Dry well. Flow test thru 3/4" choke (avg = 626 mcf/d). COOH. Surge well 1 time and build pressure for 2nd surge, coal up to 1 1/2" returned on 1st surge.

20-1998: Surge well 7 times w/ air and wtr to 1150 psi, returns-1/4" coal in black wtr. TIH to CO, returns for 3 hrs-3" stream of gray wtr, then med 1/4" coal to fines reducing to lite 1/4" coal to fines. Dry well for flow test.

21-1998: Dry well and flow test thru 3/4" choke (avg = 482 mcf/d). COOH, surge well 7 times, returned coal up to 2" and fines in black wtr. TIH. CO bridges, now CO @ 3191'. The well loads up w/ wtr reducing the flow test readings.

22-1998: CO to TD, returns-lite 1/4" coal to fines in gray wtr, dry well for flow test, flow test (avg 504 mcf/d), surge well 5 times natural build up to 460 psi, returns-dark gray to black wtr, TIH, tag and CO bridges, CO to TD, hole tight, LD 2 jts, CO to TD, returns-lite coal fines

23-1998: CO @ TD, returns, lite coal fines and 1/4" sandstone, hole got tight, LD 2 jts DP, CO to TD, returns-lite coal fines, LD 7 jts, flow well natural, TIH, 7' fill, CO w/ air, dry well, flow test thru 3/4" choke (avg 732 mcf/d), COOH, LD DC's, PU and ran 7 jts (283.08') pre-perfed 4" 11.6# L80 FL4S casing w/ LA set shoe on bottom set @ 3243' and JGS liner hanger @ 2960', hang liner 1' off bottom, release and COOH laying down DP, left liner setting tool in hole, PU DP. 4 jts of liner were drilled and plugged, perforated intervals 3043'-3128', 3155'-3243'

24-1998: Finish PU DP to fish liner setting tool. COOH. PU OS. TIH, work on fish. COOH, no fish. WO larger grapple. TIH and work on fish. COOH, no fish. TIH, catch setting tool. COOH w/ liner. LD fishing tools. TIH w/ liner, hang liner and release. COOH. LD liner setting tool. TIH. COOH laying down DP. RU to PU tubing.

25-1998: Tally tubing, PU tubing w/ plug mill and string float, TIH, mill perf plugs, hang back swivel, COOH, TIH, ran 101 jts (3198.65'), 1 jt 2 1/16" 8rd, 8 jts 2 1/16" IJ Buttress, all 3.25# N-80, and 92 jts 2 3/8", 4.6#, 8rd, J-55 set @ 3211.65' w/ expendable check on bottom and 1.44" ID F nipple @ 178', ND BOP, NUWH, pump off expendable check, release rig 1900 hrs 06/24/98

ROSA UNIT #225 FRUITLAND COAL

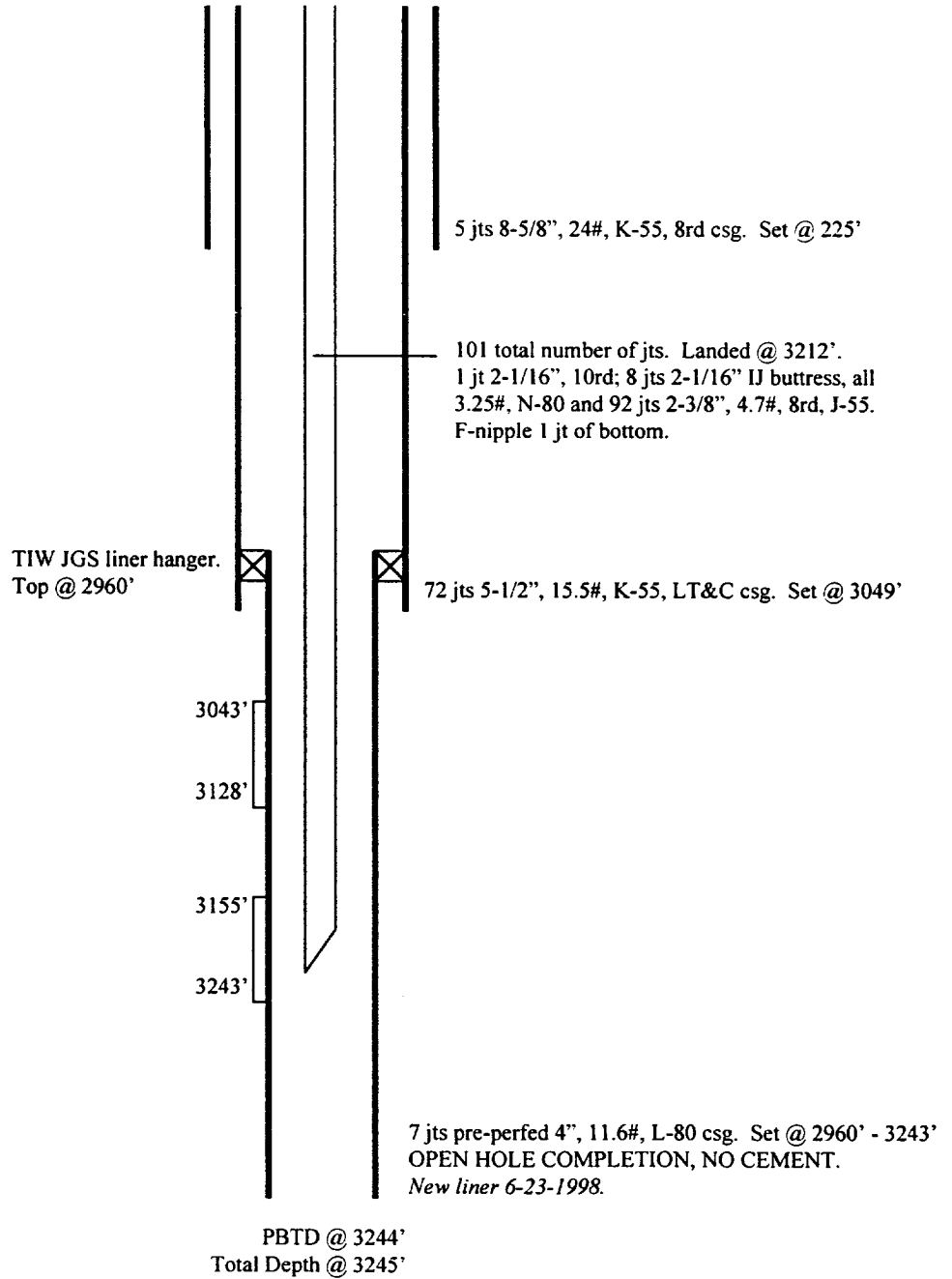
Location:

1035' FSL and 990' FWL
SW/4 SW/4 Sec 12, T31N, R6W
Rio Arriba, New Mexico
Elevation: 6400' GR

<u>Top</u>	<u>Depth</u>
Ojo Alamo	2480'
Kirtland	2595'
Fruitland	2975'

Cavitation 6-25-1998

Perforated from 3043' - 3128'
3155' - 3243'.



Hole Size	Casing	Cement	Top of Cmt
12-1/4"	8-5/8", 24#	210 sx	Surface
7-7/8"	5-1/2", 15.5#	750 sx	Surface
4-3/4"	4", 11.6#	N/A	N/A