

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.

C/O FARMINGTON, NM

SUBMIT IN TRIPLICATE

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 37-2, TULSA, OK 74101 (918) 561-6254

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1150' FNL & 870' FEL, NE/4 NE/4, SEC 22 T31N R5W

5. Lease Designation and Serial No.
SF-078770

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation
ROSA UNIT

8. Well Name and No.
ROSA UNIT #264

API Well No.
30-039-24983

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 Complete

- ☐ 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.)*

5-16-1999 Move in and rig up rig equipment. Took the unit itself to the yard for repairs. Unit was brought out later in the day. Finish rigging up unit. SICP 1000 psi. Blow casing down. (tubing stop placed in tubing 05/14/99). Nipple down well head. Nipple up BOP stack, choke manifold and lay blooie lines. No gauge

5-17-1999 Pressure test BOP stack and choke manifold to 250 psi low and 1500 psi high with rig pump. Rig up floor to pull 2 3/8" tubing. TOH, lay down 108 joints 2 3/8" tbg (tbg looks good). Place 3 1/2" drill pipe on racks and tally pipe. Pick up liner retrieving tool, 10-4 3/4" drill collars and 3 1/2" drill pipe. TIH to 3150'. Pick up power swivel and attempt to latch into liner hanger. Worked several hours to latch liner with no luck. Unable to get a hold of it. TOH w/ retrieving tool. Wait on fishing tools. Pick up a 6 1/4" mill and trip in hole. Mill top of liner from 3187' to 3189'. No gauge

5-18-1999 Finish milling top of liner from 3189' to 3191'. TOH and lay down mill. PU casing spear, jars, bumper sub and accelerator. TIH to top of liner at 3191'. Spear top of liner and jar free. TOH with liner. Lay down 6 joints of 5 1/2" casing. Lay down fishing tools. TIH with a 6 1/4" bit. Tag fill at 3448'. Clean out from 3422' to 3455' with 1800 cfm air, 5 bph H2O mist. TOH with bit. PU under reamer and TIH to 3270'. Under ream 6 1/4" to 9 1/2" from 3270' to 3400'. Circulate with 1800 cfm air, 5 bph H2O/soap mist

Continued on reverse side

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

Signed

Tracy Ross
TRACY ROSS

Title Production Analyst

Date June 16, 1999

(This space for Federal or State office use)

Approved by

Title

Date

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.

5-19-1999 Finish under reaming 6 1/4" to 9 1/2" from 3400' to 3455'. Circulate hole clean. TOH w/ under reamer. TIH w/ a 6-1/4" bit to 3455', no fill. CO on bottom. Dry up hole with 1800 cfm air. TOH to shoe at 3262'. Try to flow test through a 3/4" choke. Only built to 5 oz. pressure. Cavitate well. Surge 10 times. Build up to 2000 psi in 1 hr with 1800 cfm air, 5 bph H2O mist. Flow back for 1/2 hrs. Had coal dust, mist and black water returns. Flares up to 15'. Initial gauge prior to cavitating

5-20-1999 Cavitate well. Surge 10 times. Build up to 2000 psi in 1 hr with 1800 cfm air, 5 bph H2O mist. Flow back for 1/2 hrs. Had coal dust, mist and black water returns. TIH. Tag bridges at 3215'. CO from 3215' to 3455' w/ 1800 cfm air, 5 bph H2O mist. (very little fill on bottom) Circulate with 1800 cfm air to dry up hole. Pull up to the shoe. Flow test through a 3/4" choke as follows: 15 min-14# = 377 mcfd, 30 min-13# = 362 mcfd, 45 min-11# = 333 mcfd, 60 min-10.5# = 326 mcfd

5-21-1999 Cavitate well. Surge 7 times. Build up to 2000 psi in 1 hr with 1800 cfm air, 5 bph H2O mist. Flow back for 1/2 hrs. Had coal dust, coal fines, mist to 2" stream black water returns. TIH to clean out bridges at 3240'-3270'. 3375' -3390', 3405' -3412'. Pull back to shoe. Cavitate well. Surge 2 times. Build up to 2000 psi in 1 hr. with 1800 cfm air, 5 bph H2O mist. Flow back for 1/2 hr. had coal dust, coal fines and 2" stream black water returns. TIH. Tag fill at 3385'. CO from 3385' to 3455' with 1800 cfm air, 5 bph H2O mist. (very little fill on bottom) Circulate with 1800 cfm air to dry up hole. Pull up to the shoe. Flow test through a 3/4" choke as follows: 15 min-19# = 449 mcfd, 30 min-18.5# = 442 mcfd, 45 min-18# = 435 mcfd, 60 min-18# = 435 mcfd

5-22-1999 Cavitate well. Surge 10 times. Build up to 2000 psi in 1 hr with 1800 cfm air, 5 bph H2O mist. Flow back for 1/2 hrs. Had coal dust, coal fines, mist to 2" stream black water returns. TIH tag fill at 3346'. CO from 3346' to 3455' with 1800 cfm air, 5 bph H2O mist. Circulate up large amounts of coal fines. Circulate with 1800 cfm air to dry up hole. Pull up to the shoe. Prepare to flow test

5-23-1999 Flow test through a 3/4" choke as follows: 15 min-22.5# = 500 mcfd, 30 min-23# = 507 mcfd, 45 min-21# = 478 mcfd, 60 min-21# = 478 mcfd. Had 20' flare, dry gas. Cavitate well. Surge 5 times. Build up to 720 psi in 4 hrs. natural build up. Flow back for 1 hr. Had coal dust and no water returns. Well bridged off after 5 surges. Tag bridge at 3238'. CO from 3238' to 3270' with 1800 cfm air, 5 bph H2O mist. Circulate up large amounts of coal fines and black water. TIH, tag fill at 3380'. CO from 3380' to 3455' with 1800 cfm air, 5 bph H2O mist. Circulate up large amounts of coal fines and black water

5-24-1999 Clean out from 3380' to 3455' with 1800 cfm air, 5 bph H2O mist. Circulate up large amounts of coal fines and black water. Circulate with 1800 cfm air to dry up hole. Pull up into shoe. Flow test through a 3/4" choke as follows: 15 min-20# = 464 mcfd, 30 min-19# = 449 mcfd, 45 min-19# = 449 mcfd, 60 min-19# = 449 mcfd. Had 20' flare, dry gas. Cavitate well. Surge 3 times. Build up to 720 psi in 4 hrs. natural build up. Flow back for 1 hr. Had coal dust and no water returns. Well bridged off after 3 surges. Tag bridge at 3250'. Clean out from 3250' to 3270' with 1800 cfm air, 5 bph H2O mist. Circulate up large amounts of coal fines and black water. Gauge 464 mcfd

5-25-1999 Clean out from 3270' to 3455' with 1800 cfm air, 5 bph H2O mist. Had to add soap to mist to help clean out running coals. 2 gals soap/10 bbls H2O. Circulate up large amounts of coal fines and black water. Circulate with 1800 cfm air to dry up hole. Pull up into shoe. Flow test through a 3/4" choke as follows: 15 min-25# = 536 mcfd, 30 min-28# = 580 mcfd, 45 min-28# = 580 mcfd, 60 min-30# = 609 mcfd. Had 15' flare, dry gas. Last reading was wet. Cavitate well. Surge 2 times. Build up to 700 psi in 4 hrs. natural build up. Flow back for 1 hr. Had coal dust and no water returns

5-26-1999 Cavitate well. Surge 5 times. Build up to 790 psi in 4 hrs. with natural build up. Flow back for 1 hr. Started with 700 psi build up, increased to 790 psi. Started to unload large amounts of water and coal dust on surges. Big improvements with well able to unload water

5-27-1999 Cavitate well. Surge 3 times. Build up to 800 psi in 4 hrs. w/ natural build up. Flow back for 1 hr. Unload large amounts of water and coal dust on surges. TIH, tag fill at 3450' only 5' of fill. Clean out from 3422' to 3455' with 1800 cfm air, 5 bph H2O/soap mist. Circulate up large amounts of coal fines (coals appear to be running). Circulate with 1800 cfm air to dry up hole. TOH to the shoe. Flow test through a 3/4" choke as follows: 15 min-32# = 638 mcfd, 30 min-40# = 754 mcfd, 45 min-32# = 638 mcfd, 60 min-30# = 609 mcfd. Had 25' flare, H2O mist. Flow rates maybe off a little due to water returns

5-28-1999 Cavitate well. Surge 5 times. Build up to 690 psi in 4 hrs. with natural build up. Flow back for 1 hr. Unload large amounts of water and coal dust on surges. Started out with 600 psi build up, increased to 690 psi. Had mist and dust returns on flow back, after 45 min flow had 3" stream of water

5-29-1999 Cavitate well. Surge 3 times. Build up to 785 psi in 4 hrs. with natural build up. Flow back for 1 hr. Unload large amounts of water and coal dust on surges. Started out with 740 psi build up, increased to 785 psi. Had mist and dust returns on flow back, after 45 min flow had 3" stream of water. Last surge had 3" stream of water in 10 min. Trip in hole, tag fill at 3450' (5' of fill). Clean out with 1800 cfm air, 5 bph H2O/soap mist. Circulate up coal fines. Circ with 1800 cfm air to dry up hole. TOH to the shoe. Flow test through a 3/4" choke as follows: 15 min-19# = 449 mcfd, 30 min-21# = 478 mcfd, 45 min-25# = 536 mcfd, 60 min-28# = 580 mcfd. 15' flare, dry gas for 30 min, Lt. H2O mist after 30 min. NOTE: Well appears to be making more water each day. Q = 580 MCFD

5-30-1999 Cavitate well. Surge 5 times. Build up to 720 psi in 4 hrs. with natural build up. Flow back for 1 hr. Unload large amounts of water and coal dust on surges. Started out with 580 psi build up, increased to 720 psi. Had mist and dust/fines returns on flow back, unload large amounts of water. NOTE: Well appears to be making more water each day

5-31-1999 Cavitate well. Surge 3 times. Build up to 740 psi in 4 hrs. with natural build up. Flow back for 1 hr. Unload large amounts of water and coal dust on surges. Started out with 720 psi build up, increased to 740 psi. Had mist and dust/fines returns on flow back, unload large amounts of water. Flow well through blooie lines. Had 15' flare and steady 3" stream of water. Flow test prior to clean out through a 3/4" choke as follows: 15 min-9# = 304 mcfd, 30 min-10# = 319 mcfd, 45 min-20# = 464 mcfd, 60 min-25# = 536 mcfd. Very wet after 30 min. Steady stream of water after 45 min. TIH, tag fill at 3447' (8' of fill). CO from 3422' to 3455' with 1800 cfm air, 5 bph H2O/soap mist. Unload large amounts of water. NOTE: Well appears to be making more water each day. Q = 536 mcfd

6-01-1999 Clean out from 3422' to 3455' with 1800 cfm air, 5 bph H2O mist. Circulate with 1800 cfm air to dry up the hole. TOH to the shoe. Flow well through blooie lines. TIH, tag fill at 3450' (5' of fill). Clean out from 3422' to 3455' with 1800 cfm air, 5 bph H2O mist. Circulate with 1800 cfm air to dry up the hole. TOH to the shoe. Flow test through a 3/4" choke as follows: 15 min-22# = 493 mcfd, 30 min-23# = 507 mcfd, 45 min-23# = 507 mcfd, 60 min-22# = 493 mcfd. Had 15' flare, dry gas. Flow well through blooie lines. TIH, tag fill at 3440' (15' of fill). Clean out from 3422' to 3455' with 1800 cfm air, 5 bph H2O mist. Q = 507 mcfd, heavy water

6-02-1999 Clean out from 3422' to 3455' with 1800 cfm air, 5 bph H2O mist. Circulate with 1800 cfm air to dry up the hole. TOH to the shoe. Flow test through a 3/4" choke as follows: 15 min-24# = 522 mcfd, 30 min-23# = 507 mcfd, 45 min-21# = 478 mcfd, 60 min-20# = 464 mcfd. Had 15'-20' flare, dry gas. Flow well through blooie lines. TIH, tag fill at 3445' (10' of fill). Clean out from 3422' to 3455' with 1800 cfm air, 5 bph H2O mist. Circulate with 1800 cfm air to dry up the hole. TOH for liner. Lay down 10-4 3/4" drill collars. Q = 464 mcfd

6-03-1999 Change rams for 5 1/2" casing. Rig up to run casing. Pick up casing and liner hanger. TIH to 3443'. Circulate liner down (12') and land at 3455'. Set liner hanger. TOH and lay down 3 1/2" drill pipe. Change rams for 2 3/8" tbg. Rig up to run tubing. Rig up Blue Jet and perforate intervals 3348' to 3392' and 3418' to 3454' with 4 spf. Pick up 2 3/8" tubing, TIH. Land at 3441'. ND BOP stack and NU WH. Rig down service unit. Prepare for rig move. Run 6 jts 5 1/2", 15.5#, K-55, LT&C. csg. (268.83') Land at 3455'. Top of liner at 3187'. Run 108 jts 2 3/8", 4.7#, J-55, EUE 8rd tbg. Land at 3441'. Half mule shoe on bottom, F-nipple one jt up

6-04-1999 Rig down service unit. Rig released at 08:00 hrs 06/03/99. Plan move to the ROSA UNIT #322. Final report