

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

RECEIVED

070 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 25-2, TULSA, OK 74101 (918) 573-6254

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1310' FSL & 1310' FWL, SW/4 SW/4, SEC 24 T31N R6W

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 #209

API Well No.
30-039-24864

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.)*

05-17-2004 MIRU, ND WH, NU BOP stack, RU floor, roustabouts strung & NU blooie lines. Well had 350 psi pressure after 3 hrs SI. Strap out of hole w/ 2 3/4" tbg, had to build up racking platform w/ cmt pads because the tbg was very short - some 57' stands, secure location, SDFN.

05-18-2004 Strap DP, TIH w/ screw in tool for liner hanger. Screw into liner hanger, pull off bottom. TIH to liner hanger. WO csg crew, RU csg crew. LD 6 jts 5 1/2" liner, bottom 4 jts had 1/8" layer of paraffin on OD. RD csg crew. PU power swivel, PU bit & bit sub on jt DP, lock DP in BOP. Surge 5 times w/ air mist, pump air mist 1 hr, pressure to 400 psi, returns light coal, mostly fines & light water. Secure location, SDON.

05-19-2004 Surge 2 times w/ air mist, 1 hr pump time to 400 psi, returns light to med coal fines & light wtr. SI for natural surge. Safety meeting, csg pressure - 400 psi. Release natural surge, returns light coal fines & wtr. PU eight 4 3/4" DC's. TIH, PU power swivel, did not tag fill, tag TD @ 3171'. Circulate & rotate through Basel coal, returns light to med coal fines in brown wtr. LD 6 jts DP, bit in 7" csg. Surge 4 times w/ air mist, pump time 2 hrs, pressures to 650 psi, returns light coal fines in light water.

Continued on Back

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

Signed Tracy Ross
TRACY ROSS

Title SR. Production Analyst

ACCEPTED FOR RECORD

(This space for Federal or State office use)

Approved by _____

Title _____

JUL 21 2004
FARMINGTON FIELD OFFICE
BY [Signature]

Conditions of approval, if any:

05-20-2004 Surge w/ air mist, pressure to 750 psi, SI for natural surge, pressure 340 psi, TIH, no fill. CO @ TD, light 1/16" coal to fines, pull into 7" csg, surge w/ air mist & wtr slugs, pressure to 900 psi, surge w/ air mist 1 hr to 700 psi, light coal.

05-21-2004 Surge w/ air mist, pressure 900 psi, natural surge to 450 psi, TIH, tag 10' fill, CO @ TD, returns heavy 3/8" coal reducing to light 1/8" coal. TOOH, surge 7 times w/ air mist, pressure to 650 psi, light 1/8" coal to fines

05-22-2004 Surge 2 times, pressure to 750 psi, SI for natural surge, 450 psi in 4 hrs, release, TIH, tag 5' fill, returns light to med 1/8" coal, pull into 7" csg, surge 8 times w/ air mist, returns medium 1/4" coal & wtr.

05-23-2004 Surge 2 times to 750 psi, med 1/4" coal, SI for natural, 450 psi, release surge, surge 1 time w/ air mist to 750 psi, returns med 1/4" coal. TIH, tag 21' of fill, CO to TD, light 1/16" coal & fines, pull into 7", surge w/ air mist 8 times to 800 psi.

05-24-2004 Surge 2 times w/ air mist, 1 hr compressor time, pressure to 825 psi, returns light 1/8" coal to fines & wtr. SWI for natural surge. Casing pressure 450 psi. Release natural surge, returns light coal fines & mist. Surge 7 times w/ air mist & wtr slugs, pump 5 bbl wtr ahead, pump air mist for 1 hr, pump 5 bbl water & air mist for second hr, pressure to 1200 psi, broke back from 1450 psi, returns med to hvy 1/2" coal to fines in some black wtr, pressure on 2nd to 7th surge from 1175 psi to 1050 psi.

05-25-2004 Surge 2 times w/ air mist and water slugs, pump 5 bbl wtr ahead, pump air mist for 1 hr, pump 5 bbl wtr and air mist for second hr, pressure to 1125 psi, returns-med to light 1/4" coal to fines in some black water. SI for natural surge. Safety meeting, casing pressure-450 psi. Release surge, returns-light coal fines and water. TIH, tag @ 2905'. CO shale ledges to TD-3171', returns-light coal fines on light brown water. Circulate at TD, returns-light coal fines. LD 6 jts DP, TOH, lock bit in BOP. Surge 4 times w/ air mist, 2 hr compressor time, pressures-1025 to 1050 psi, returns-light 1/8" coal to fines and water

05-26-2004 Surge 1 time w/ air mist, 2 hr compressor time, pressures-1100 psi, returns-light 1/8" coal to fines & wtr. SI well for natural surge. Csg pressure-440 psi. Release natural surge, returns-coal fines & mist. Surge 2 times w/ air mist and wtr slugs, compressor time-3 hrs, pumped 5 bbl wtr at start, and after each hour, pressure to 1260 psi, returns-lt to med 1/4" coal & some black wtr. Surge 4 times w/ air mist, 2 hr compressor time, pressures to 1150 psi, returns-lt 1/8" coal to fines and wtr.

05-27-2004 Surge 1 time w/ air mist, 2 hr compressor time, pressures to 1150 psi, returns light 1/8" coal to fines & wtr. SWI for natural surge. Csg pressure-350 psi. Release natural surge, returns-light coal fines and mist. TIH, tag @ 3076'. CO to TD @ 3171', returns hvy 1/2" coal to fines in dark brown to blk wtr. Hole got tight, had to LD 5 jts DP. CO to TD, tight hole, well making hvy 1/2" coal to fines in black water reducing to light to med 1/8" coal. Dry well, pull into 7" csg. Natural surge 2 times, 2 hr SI, 2 hrs, Natural surge 2 times, 2 hr SI, pressure to 200 psi, returns light 1/4" coal to fines & mist

05-28-2004 Natural surge 1 time, 2 hr SI, pressure-300 psi, returns-light 1/4" coal to fines & mist. SI for natural surge. Csg pressure-450 psi. Release natural surge, returns-light coal fines & mist. TIH, tag @ 3070'. CO @ 3070', returns hvy 3/8" coal to fines in dark brown to black water reducing to med to light 1/8" coal to fines. Pull into 7" csg, turn well to sales line, shut down until 6/1/04.

06-01-2004 We were unable to CO to bottom Friday so the well had 90' of coal and water in the well bore. TIH, tag @ 3026'. CO from 3026' to 3070', returns-heavy 1/4" coal to fines in brown water. CO @ 3070' w/ air and 10 bph mist, returns-heavy 1/4" coal to fines in brown water, made a connection @ 1300 hrs, lost hole, had to lay the jt down, well still making medium to light 1/4" coal to fines in brown water. Pull into 7" casing. Surge 3 times w/ air mist to 800 psi, returns-light to medium 1/4" coal in dark brown water.

06-02-2004 Surge 1 time w/ air mist to 800 psi, returns-light to medium 1/4" coal in dark brown water. SI for natural surge. Csg pressure-450 psi. TIH, tag @ 3030'. CO to 3070', returns-medium to light 1/4" coal to fines in brown water. CO to TD-3171', returns-light 1/4" coal and medium fines in dark brown water. Pull into 7" csg. Surge 3 times w/ air mist, 2 hr compressor time, pressure to 750 psi, returns-light coal and water.

06-03-2004 Surge 1 time w/ air mist, 2 hr compressor time, pressure to 750 psi, returns-light coal and water. SI for natural surge. Csg pressure-450 psi. Release natural surge, returns-light coal fines and water. TIH, tag @ 3030'. CO to 3100' w/ air mist, returns-medium coal fines in dark brown water. Broke hydraulic hose on power swivel, pull into 7" casing. Surge 4 times w/ air mist, compressor time 2 hrs, pressure to 1000 psi, returns-light coal and water.

06-04-2004 Surge 1 time w/ air mist, compressor time 2 hrs, pressure to 1000 psi, returns-light coal and water. SI well for natural surge. Csg pressure-450 psi. TIH, tag @ 3030'. CO to 3135' w/ air mist, returns-light to medium coal fines in brown water, some tight hole. While circulating @ 3135', 16' off TD, hole fell in, stuck pipe and well bridged, drill pressured up to 1200 psi, work pipe, close pipe rams, pressure up back side w/ air to 400 psi, work pipe, gained 1/2' of movement, had some rotation, surge 400 psi off back side, lost pipe movement, pressure up to 400 psi on back side, gained 1/2' of movement, work pipe, the movement moved up hole 2', finally pulled one jt up w/ 40,000 lbs overpull, pipe came free, well unloaded heavy 1/4" coal and fines. Pull into 7" csg. Natural surge w/ 2 hr SI's, pressure 350 psi, returns-light coal and water.

06-05-2004 Natural surge w/ 2 hr SI, pressure 350 psi, returns-light coal and water. SI for natural surge. Csg pressure-450 psi. Release natural surge, lt coal & wtr. TIH, tag @ 3025'. CO to 3075' w/ air mist, returns-hvy 1/4" coal to fines in brown water, returns were hvy all day. Pull into 7" csg. Natural surge 4 times w/ 2 hr SI's, pressure to 350 psi, returns-light coal and wtr.

06-06-2004 Natural surge 1 time w/ 2 hr SI, pressure to 350 psi, returns-light coal and water. SI for natural surge. Csg pressure-450 psi. Release natural surge, returns-coal fines and water. Flow well, repair power swivel, change out power swivel. Flow well, repair power swivel, change out power swivel, time charged to Aztec. Natural surge 4 times w/ 2 hr SI's, pressure to 350 psi, returns-light coal fines and mist.

06-07-2004 Natural surge 1 time w/ 2 hr SI, pressure to 350 psi, returns-light coal fines and mist. SI for natural surge. Csg pressure-400 psi. Release natural surge, returns-coal fines and mist. TIH, tag @ 3060'. CO @ 3060', returns-heavy 1/4" coal to fines in brown water. CO to 3150', returns-heavy 1/4" coal to fines in brown water, hole got tight. Pull 2 jts, had to drill 3rd up about 10', had circulation, pipe came free, pull into 7" casing. Natural surge 3 times w/ 2 hr SI's, pressure to 300 psi, returns-light coal fines and mist

06-08-2004 Natural surge 1 time w/ 2 hr SI, pressure to 300 psi, returns-light coal fines and mist. SI for natural surge. Csg pressure-400 psi. Release natural surge, pressure 400 psi, returns-light coal fines and mist. TIH, tag @ 3020'. CO to 3045' w/ air mist, 1.5 gal soap & 1 gal shale inhibitor per 20 bbl water, returns-heavy 1/4" coal to fines in brown water. Repair power swivel, replace motor and bail hinge pin, time charged to Aztec Well Service, circ @ 3045', returns-heavy 1/4" coal to fines in brown water. CO @ 3045' w/ air mist, returns-heavy 1/4" coal to fines in brown water. Dry well, pull into 7" casing. Flow well to blow pit, returns-natural gas and mist.

06-09-2004 Flow well to blow pit, returns-natural gas and mist. Safety meeting. TIH, tag @ 3062'. Clean out to 3140' w/ air mist, returns-light coal fines and water. Well bridged around drill collars, pressure built to 1200 psi below bit, pressure up on backside w/ air to 450 psi, gained rotation, rotated pipe up hole 3', pipe came free, LD 4 jts, bleed pressure off backside through 2" line. CO from 3040' to TD-3171' w/ air mist, returns-medium to light 1/8" coal to fines in brown water, pull into 7" casing. Flow well to blow pit.

06-10-2004 Flow well to blow pit. Safety meeting,. TIH, tag @ 3062'. CO to TD w/ air mist, returns-medium to light 1/8" coal to fines in brown water. CO @ TD-3171' w/ air mist, returns-light 1/8" coal to fines. Pull into 7" casing. Flow well to blow pit.

06-11-2004 Flow well to blow pit, safety meeting. TIH, tag @ 3030'. CO to TD-3171' w/ air mist, returns-light 1/8" coal to fines in brown water. TOOH, LD DC's, bit in gauge, cones loose. RU csg crew. San Juan Casing reran 6 jts of 5 1/2" csg, csg had been predrilled and plugged w/ aluminum plugs, RU 2 3/4" inner string in liner to wash liner to bottom. RD csg crew. TIH w/ liner on DP, wash liner 90' to 3171' (TD), release from liner. LD 6 jts DP, pull into 7" csg, secure location, SDON.

06-12-2004 TOOH, LD DP, pulled liner w/ drill pipe string, tbg was stuck inside liner w/ coal. WO csg crew, RU csg crew. Strip tbg and csg, LD both tbg and csg, bottom 60' of tbg was stuck in bottom of liner w/ coal. RD csg crew. Unload non perforated csg string, RU to PU DC's. TIH w/ bit, DC's & 2 jts DP, secure location, SDON, SI well

06-13-2004 Csg pressure-450 psi. Surge well, returns-coal fines and mist. PU drill pipe, tag @ 3030'. CO to TD w/ air mist, returns-coal fines in brown water. Pull into 7" csg, flow well to blow pit overnight.

06-14-2004 TOOH, LD DC's. RU San Juan Casing. Run 6 jts 5 1/2" csg, RD csg crew. TIH w/ liner, tag @ 3030', circulate & wash liner to 3171' (TD). Release from liner, set liner on bottom @ 3171', ran 6 jts 5 1/2" (277.7') 17#, N-80 w/ LA guide shoe on bottom, H latch set @ 2894', 81' of overlap. LD DP, secure location, SDON

06-15-2004 Csg pressure-400 psi. RU Computalog to perforate. Perforate w/ 3 1/8" casing guns, 4 spf, 0.5" hole, shot total of 480 shots, perforate from 3169' to 3129' (40'), 3124' to 3104' (20'), 3092' to 3082' (10'), 3076' to 3066' (10'), 3060' to 3040' (20'), 3032' to 3012' (20'). RD Computalog. TIH w/ 2 3/4" tbg, tag TD, circulate w/ air to unload water from well. Land tbg as follows: 2 3/8" mule shoe on bottom, 1 pup jt, 2 3/8" profile nipple, 52 jts 2 3/8" tbg, 12' pup jt, 1 jt 2 3/8" tbg. Total of 53 jts 2 3/8", 4.7#, J-55 tbg @ 3136'. ND BOP stack and blooie lines, NU wellhead, RD unit, move off ramp, final report, job complete.

ROSA UNIT #209 **BASIN FRUITLAND COAL**

Spud : 08/24/90
 Completed: 04/09/91
 ID date: 05/19/93
 Cavitated: 06/30/99
 Re-Cavitated: 06/15/04

Location:
 1310' FSL and 1310' FWL
 SW/4 SW/4 Sec 24(M), T31N R6W
 Rio Arriba, New Mexico

Elevation: 6315' GR
 API #: 30-039-24864

Top	Depth
Ojo Alamo	2410'
Kirtland	2520'
Fruitland	2920'

8/7/98: Squeeze @ 395' w/
 17 sx Class "B" cmt

5 jts 9-5/8", 36#, K-55, 8rd, ST&C csg. Landed @ 226'
 Cement with 160 sx cmt

53 jts 2-3/8", 4.7#, J-55, 8rd, EUE tbg with 2
 3/8" mule shoe on bottom, 1 pup jt, 2 3/8" profile
 nipple, 52 jts 2 3/8" tbg, 12' pup jt, 1 jt tbg.
 Landed @ 3136'.

TOL @ 2894'

69 jts 7", 23#, K-55, 8rd, ST&C csg. Landed @ 2975'.
 Cement with 660 sx cmt

Re-Cavitation 6/15/04

3012' - 3032' (20'), 3040' - 3060' (20'),
 3066' - 3076' (10'), 3082' - 3092' (10'),
 3104' - 3124' (20'), 3129' - 3169' (40')

Total of 480 shots, 4 spf, 0.50" holes

3012'

3169'

6 jts 5-1/2", 17#, N-80 USS csg. Landed @ 2894' -
 3171'. No cement

Total Depth @ 3171'

Hole Size	Casing	Cement	Volume	Top Of CMT
12-1/4"	9-5/8", 36#	160 sx	189 cu. ft.	surface
8-3/4"	7", 23#	660 sx	1092 cu. ft.	surface
6-1/4"	5-1/2", 17#	n/a	n/a	n/a