

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

5. Lease Designation and Serial No.  
SF-078764

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation  
ROSA UNIT

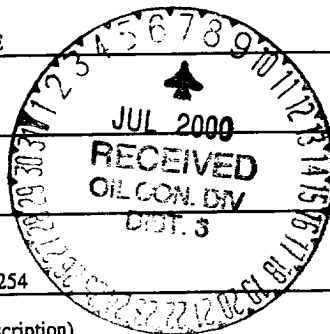
8. Well Name and No.  
ROSA UNIT #221

9. API Well No.  
30-039-24500

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

11. County or Parish, State  
RIO ARRIBA, 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) 573-6254

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
990' FNL and 1260' FEL NE/4 NE/4 SEC 18-31N-05W

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.)\*

04-28-2000 MIRU. SICP = 1550 psi, SITP = 40 psi, blow well down. NDWH, NUBOP stack & HCRs. NU blooie lines. Pressure test BOPs to 2500 psi. POOH, LD 105 jts 2 3/8" tbg. WL set 4 1/2" CIBP @ 3175'. CO to run 3 1/2" DP. Tally in w/6 1/4" pilot mill, 10 4 3/4" DC's & 86 jts 3 1/2" DP. Tag TOL @ 2981'. RU swivel & break circ w/prod wtr. Start milling on hanger

04-29-2000 Mill out hanger & 14' of 4 1/2" csg from 2974'- 2995'. Circulate hole clean. TOO H w/6 1/4" mill. TIH w/5 1/4" pilot mill. Break circ w/prod wtr. Mill out 4 1/2" csg from 2995'- 3080'

04-30-2000 Mill on 4 1/2" csg from 3080'- 3114' & quit making hole. Circ clean. TOO H w/spent mill. TIH w/6 1/4" bit/string mill. CO cmt from 2995'- 3114'. TOO H w/bit & mill. Wireline set 7" CIBP @ 3112'. TIH w/5 1/2"x 7" whipstock & set @ 3112'. Unload csg w/air. Mill top of window from 3100'- 3102' w/16 bph air/soap mist. TOO H w/starting mill. TIH w/6 1/4" window mill & string mill

05-01-2000 Mill/dress up window f/3100'- 3108'. Drill 6' open hole to 3114'. Circ clean. TOO H w/mills. TIH w/6 1/4" bit & stabilizer to 3090'. Break circ w/10 bph air/soap mist. Work bit & near bit thru window. Drlg open hole f/3114'- 3339'(td) per mud logger. Surveys ran @ 3154' = 4 deg, 3245' = 6 1/4 deg & 3308' = 6 deg. TOO H w/bit & near bit. TIH w/underreamer. Underream f/3119'- 3175'

Continued on Back

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

Signed

Tracy Ross  
TRACY ROSS

Title Production Analyst

Date May 30, 2000

(This space for Federal or State office use)

Approved by

Title

ACCEPTED FOR RECORD

Conditions of approval, if any:

**05-02-2000** Underream from 3175'- 3339' (TD) w/20 bph air/soap mist. Circ clean. TOO H w/underreamer. SI for 4 hr build up = 180 psi. Surge from surface (2 times) w/2 bbls air/soap mist ahead, pres to 800 psi, ret's lite gas/air mist. Surge from surface (2 times) w/3 bbls prod wtr ahead, pres to 1000 psi, ret's lite gas air mist. Surge from surface (2 times) w/3 bbls prod wtr ahead, pres to 1200 psi, ret's lite gas/air mist

**05-03-2000** Surge f/surface w/3 bbls prod wtr & ½ gal soap ahead, pres @ 1200 psi, ret's gas/air mist. Attempt breakover (2 times) w/air only @ 2000 psi no break ret's gas/air mist. Surge (6 times) w/5 bbls prod wtr & ½ gal soap ahead, pres to 900 psi, pump 5 bbls w/ ½ gal soap, pres to 1600 psi, ret's gas/air mist w/trace coal, bridge off. TIH & tag bridge @ 3204'. RU power swivel & break circ w/10 bph air/soap mist. CO f/3204'- 3308', hvy ret's = 60% shale & 40% coffee ground size coal

**05-04-2000** CO f/3308'- 3339' (TD) w/10 bph a/s mist, hvy ret's = 60% shale & 40% fine coal. CO on bottom w/10 bph a/s mist & 5 bbl sweeps, hvy ret's = 80% coffee ground size coal & 20% 1/8" shale. Blow dry w/air only. PU bit to 3090'. Flow natural & cut drill line. TIH & tag/work thru bridges @ 3215', 3289'. CO 8' of fill from 3331'- 3339'. Blow dry w/air only. TOO H w/bit. Break over w/air only @ 1750 psi, lite ret's. surge from surface w/2 bph air/soap mist to 1500 psi, lite ret's

**05-05-2000** Flow natural. Gauge well on 1" line, all gauges dry = 188 mcf/d. Natural surge, 4 hr SI = 290 psi, ret's lt gas mist. Surge from surface (3 times) w/3 bbls air mist ahead, pres to 1550 psi, ret's lt gas/air mist. Bridge off on 3<sup>rd</sup> surge. TIH & tag bridge @ 3215'. RU power swivel & break circ w/10 bph air/soap mist. CO from 3215'- 3308' hvy ret's = 50% shale & 50% fine to coffee ground size coal

**05-06-2000** CO f/3308'- 3339' (TD) w/10 bph air/soap mist. CO on bttm w/10 bph a/s mist & 7 bbl sweeps, hvy ret's = 80% coal & 20% shale. Blow dry w/air only, pu bit to 3307'. Surge f/3307' (2 times) w/5 bph a/s mist 1<sup>st</sup> surge to 1200 psi, 2<sup>nd</sup> to 1400 psi, hvy ret's = 80% coal & 20% shale. Break over w/air only @ 1680 psi, med ret's = fine coal dust. CO to td w/10 bph a/s mist. Natural surge. Flow natural. 4 hr si = 310 psi,ret's lt gas mist. Flow natural. SI for 4 hr natural surge

**05-07-2000** Natural surge, 4 hr si = 335 psi. tag 12' of fill & CO. CO on bttm w/10 bph air/soap mist. Blow dry & PU bit to 3307'. Break over w/air only @ 1680 psi, med ret's = fine coal & black wtr. Surge f/3307'(4 times) w/5 bbls air/mist ahead, pres to 1500 psi, med-hvy ret's = 80% fine to ¼" coal & 20% shale. Blow dry w/air only. Natural surge, 4 hr si = 420 psi. Tag 14' fill & co. CO on bttm w/10 bph a/s mist & 7 bbl sweeps, med-hvy = 90% coffee grd size coal & 10% shale

**05-08-2000** CO on bttm w/10 bph air/soap mist. Blow dry w/air only, pu bit to 3090'. Flow natural. Gauge well on 2" open line, all gauges dry & avg 225 mcf/d. Tag 9' of fill & co to td. CO on bttm w/10 bph a/s mist, med ret's = 90% coffee grd size coal & 10% shale. Blow dry w/air only, pu bit to 3307'. Surge (3 times) w/5 bph a/s mist, pres to 1500 psi, lt-med ret's = 80% coal & 20% shale. Check for fill, blow dry w/air only, pu bit to 3307. Break over w/air only @ 1680 psi, med ret's. Surge w/5 bbls a/s mist ahead, pres to 1640 psi, med ret's

**05-09-2000** Tag 5' of fill & CO on bttm w/10 bph air/soap mist. Blow dry w/air only. TOO H w/bit. Gauge well on 2" open line, all gauges dry & avg 229 mcf/d. Surge from surface (3 times) w/5 bbls air/soap mist ahead, pres to 1000 psi & pump 5 bbls prod wtr, take pres to 1500 psi w/air only, hvy – extra hvy ret's, plug blooie lines & bridge off on 3<sup>rd</sup> surge. TIH & tag/CO bridges in 7" csg @ 1806'- 36', 1900'- 24', 2316'- 2406' & 2815'- 25'. CO to 3260' w/10 bph a/s mist. Blow w/air only

**05-10-2000** Blow dry w/air only, PU bit to 3260'. Surge w/air only @ 1200 psi, ret's lt mist. Break over w/air only @ 1640 psi, ret's lt mist w/fine coal. Surge from 3260' (2 times) w/400 psi air ahead, pump 5 bbls prod wtr & ½ gal soap, pres to 1560 psi, hvy-extra hvy ret's = 50% coal & 50% shale, bridge off & stick pipe 2<sup>nd</sup> surge. Work stuck pipe free & PU bit to 3122'. Break circ w/10 bph a/s mist. CO from 3122'- 3334', bridge off & get tight. PU bit to 3184', break circ w/10 bph a/s mist. CO & work on ratty hole from 3122'- 3325'

**05-11-2000** CO to TD w/15 bph air/soap mist. CO on bttm w/15 bph a/s mist & 5 bbl sweeps, hvy ret's = 90% fine coal & 10% 1/8" shale. Blow dry w/air only. TOO H w/bit. Natural surge,(2 times) 1<sup>st</sup> 4 hr SI = 320 psi, 2<sup>nd</sup> =330 psi, ret's gas/air mist. Flow natural, well unloading on its own, ret's hvy black foam

**05-12-2000** Natural surge, 2 hr si = 190 psi, ret's lt gas mist. Flow natural. Gauge well on 2" open line, all gauges wet = 217 mcf/d. Surge f/surface (3 times) energized, ret's hvy – extra hvy. Flow natural, well unloading on own, ret's soap slugs w/fine coal. Surge f/surface (2 times) energized, hvy ret's =60% coal & 40% shale. Natural surge, 1 hr si = 120 psi, flow nat. Q = 217 mcf/d

**05-13-2000** Flow natural. Surge f/surface energized (2 times) w/400 psi air only ahead, pump 5 bbls wtr & 1 gal soap, air only to 1000 psi, pump 5 bbls w/1 gal soap, pres to 1350 psi w/air only, med ret's = fine coal & soap slugs. Flow natural. Breakover w/air only @ 1580 psi, med ret's = fine dry coal dust, flow nat 2 hrs. Natural surge, 4 hr si = 420 psi, lt ret's = gas mist w/fine coal. Surge f/surface energized (2 times) to 1400 psi, ret's hvy – extra hvy

**05-14-2000** Surge f/surface, pres went to 1400 psi in 45 min, ret's lt (bridged off). 2 hr natural surge, 1<sup>st</sup> hr = 40 psi, 2<sup>nd</sup> hr = 400 psi, extra hvy ret's = 75% coal & 25% shale, plug blooie lines, pump prod wtr & free up. TIH & tag/co bridge f/2000'- 2030' w/15 bph air/soap mist. Cont in w/bit & tag bridge @ 3204'. Break circ, co f/3204'- 3335' w/15 bph a/s mist, ret's hvy shale & coal, lose circ & get tight, PU bit to 3184'. Break circ & co f/3184'- 3214' hvy ret's

**05-15-2000** CO f/3184'- 3339' TD w/15 bph air/soap mist, hvy ret's, bridge off & get tight numerous times, PU bit to 3184' & start over. CO on bttm @ 3339' w/15 bph air/soap mist & 5 bbl sweeps, hvy ret's = 75% coffee grd size coal & 25% 1/8" shale

**05-16-2000** CO on bottom @ 3339' w/15 bph air/soap mist & 5 bbl sweeps (coal running) heavy ret's = 80% dust to coffee ground size coal & 20% ¼" to ½" shale

**05-17-2000** CO on bottom w/20 bph air/soap mist, ret's went from heavy to lite fine coal. Blow dry w/air only. Flow natural. Gauge well on 2" open line, all gauges med mist & avg 539 mcf. TOO H w/bit. Natural surge, 4 hr SI = 320 psi, ret's gas mist. Flow natural. Break over w/air only @ 1320 psi, med ret's = fine dry coal. Flow natural, start energized surges. Q = 539 mcf

**05-18-2000** Surge from surface energized (3 times) to 1250 psi, ret's heavy – extra heavy fine coal. Natural surge, 2 hr SI = 250 psi, ret's gas mist. Flow natural, ret's soap slugs w/fine coal. Surge f/surface energized (2 times) to 1250 psi, med ret's = fine coal

**05-19-2000** Surge from surface (energized) w/400 psi air only ahead, pump 5 bbls wtr w/1 gal soap, air only to 1000 psi, pump 5 bbls water, pres to 1250 psi w/air only, med ret's = fine coal. Break over w/air only @ 1340 psi, heavy ret's = fine coal & black water. Flow natural, ret's heavy soap slugs w/fine coal. Natural surge, 2 hr SI = 280 psi, lite ret's. Surge from surface (energized) to 1250 psi, med ret's = fine coal. Natural surge, 4 hr SI = 400 psi, ret's gas mist with lite coal fines

**05-20-2000** Natural surge, 2 hr SI = 280 psi, ret's gas mist. TIH & tag bridge @ 3200'. Break circ w/15 bph air/soap mist. CO from 3200'-3339' heavy ret's = 50% fine coal & 50% shale. CO on bottom w/15 bph a/s mist & 5 bbl sweeps, extra heavy ret's, bridge off & get tight. PU bit to 3184', break circ. CO & work on ratty hole from 3200'-3214' w/20 bph air/soap mist, ret's heavy shale. CO from 3214'-3339', heavy ret's = 75% fine coal & 25% 1/4" shale

**05-21-2000** CO on bottom. Blow well dry. PU bit to 3090' (short trip). Flow natural, ret's soap slugs w/fine coal. TIH & tag 10' of fill. CO to TD @ 3339'. CO on bottom. Blow dry & PU bit to 3090'. Flow natural. Gauge well on 2" open line, all gauges lite mist = 615 mcf. Tag 5' of fill & CO. CO on bottom w/15 bph air/soap mist, ret's heavy fine coal. Blow dry w/air only. TOO H laying down DC's, CO to run 5 1/2" liner. Q = 615 mcf

**05-22-2000** MU hanger, TIH w/5 1/2" liner, tag 7' of fill. Circulate & wash liner down to 3338'. Set TIW JGS hanger @ 3013' = 87' overlap. POOH, LD 3 1/2" DP & setting tool. Perforate Fruitland Coal intervals: 3190', 3210', 3226', 3254', 3306', 3337' w/ 0.71" holes. Tally in w/2 3/8" prod tbg, tag PBD @ 3337'. Unload well w/air. Land tbg in hanger @ 3306' kb w/106 jts total, notched collar on bottom & "F" nipple 1 jt up. ND BOP's & blooie line, NUWH. Gauge well up tbg, all gauges lite mist = 615 mcf. Release rig