

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

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

SUNDRY NOTICE AND REPORTS ON WELL APPLICATION
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

070 FARMINGTON NM

SUBMIT IN TRIPPLICATE

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)
1690' FNL & 1065' FEL, SE/4 NE/4, SEC 14 T31N R4W

5. Lease Designation and Serial No.
SF-078892

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation
ROSA UNIT

8. Well Name and No.
ROSA UNIT #297

9. API Well No.
30-039-24981

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 Cavitatoin 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.)*

6-16-1999 MIRU. Blow well down. NDWH, NU BOP's & blooie line. Unseat donut & tally out w/117 jts 2 3/8" tbg. WL set 4 1/2" CIBP @ 3577'. PU 6 1/4" mill, 10 4 3/4" DC's. Tally in w/98 jts 3 1/2" DP & TOL @ 3365'. Break circ w/prod wtr. Mill out hanger & 4 1/2" csg from/3365'- 3377'. Circ clean

6-17-1999 Circ hole clean. TOO H w/ 6 1/4" mill. TIH w. 5 1/4" mill to 3377', break circ w/ prod wtr. Mill out 154' of 4 1/2" csg from 3377' - 3531'. Circ clean. TOO H w/ 5 1/4" mill. TIH w/ 6 1/4" bit & 6 1/4" string mill, break circ

6-18-1999 MO cmt from 3420'-3531' circ clean. TOO H w/bit & mill. WL set 7" CIBP @ 3530'. TIH w/5 1/2" whipstock w/6 1/4" starting mill. Tag CIBP @ 3530' & set whipstock. Unload csg w/air. Mill top of window @ 3513' w/16 bph air/soap mist. TOO H w/starter mill. TIH w/6 1/4" window mill & 6 1/4" string mill. Mill & dress up window w/16 bph air/soap mist f/3513'- 3522'. Drill 6' of open hole to 3528'. TOO H w/mills. TIH w/6 1/4" bit & stabilizer to 3510' survey = 1°. Slide thru window, break circ. Drlg f/3528'- 3680'(TD) w/10 bph air/soap mist, survey @ 3592'= 6 1/4° & 3675'= 8 1/4°

Continued on Back

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

Signed

Tracy Ross
TRACY ROSS

Title Production Analyst

Date July 26, 1999

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

AUG 19 1999

6-19-1999 TOOH w/bit & stabilizer. TIH w/ 9 1/2" underreamer. Underream open hole f/3532'- 3680' circ clean. TOOH w/underreamer. TIH w/6 1/4" bit & tag 1' of fill. CO to TD w/8 bph air/soap mist, blow well dry. PU bit to 3510'. SI well for 4 hr natural build up = 95 psi. Surge well f/ 3510' w/5 bph air/soap mist, ret's lt gas & air/soap mist

6-20-1999 Surge well f/3495' (8 times) w/5 bph air/soap mist, pres @ 1000 to 1500 psi ret's trace coal & gas/air mist. TIH & tag bridge @ 3660'. CO bridge & 3' of fill to TD w/10bph air/soap mist, ret's lt-med coal = dust to 1" in size. Blow well f/TD w/10 bph air/soap mist, ret's lt coal. PU bit to 3495'. Surge well f/3495' (3 times) w/5 bph air/soap mist, ret's trace to lt coal

6-21-1999 Surge well f/3495' (5 times) w/5 bph air/soap mist, pres @ 1500 psi ret's lt coal dust & gas/air mist. Tag 29' of fill @ 3651'. CO to TD w/10 bph air/soap mist ret's hvy coal = dust to 1/2" size. Blow well dry. PU bit to 3495'. Surge f/3495' (6 times) w/5 bph air/soap mist & 1500 psi ret's lt coal dust

6-22-1999 Surge well f/3495' (3 times)w/5 bph air/soap mist pres @ 1500 psi, ret's lt coal dust & gas/air mist. Tag 12' of fill & CO, ret's med coal = dust to 1/2" in size. Blow well from TD w/8 bph air/soap mist, blow dry, PU bit to 3656'. Surge (4 times) w/10 bbls ahead & 1 gal soap pres @ 1500 psi, ret's lt coal dust. Tag 2' of fill & CO. Blow well dry. SI f/4 hr natural build up

6-23-1999 Surge natural (4 times) 1st 4 hr shut in = 200 psi, 2nd = 240 psi, 3rd = 280 psi & 4th = 310 psi. Flow natural 1 hr after each surge ret's lt mist & gas. Tag 1' of fill. Attempt to break circ w/5 bph air/soap mist & bridge off. Lay down 1 jt & work thru bridge

6-24-1999 CO to TD w/8 bph air/soap mist, ret's hvy coal = dust to 1/2" in size. Blow well from TD w/8 bph air/soap mist, ret's med coal = dust to 1/2" in size. Blow dry & PU bit to 3650'. Surge natural (3 times) 1st 4 hr shut in = 450 psi, 2nd = 560 psi, 3rd = 560 psi, ret's lt coal dust & gas, flow natural 1 hr after each surge. Tag 2' of fill & CO. Blow well from TD w/8 bph air/soap mist, ret's med coal = dust to 1/4" in size

6-25-1999 Blow well dry & PU bit to 3650'. Surge natural (1 time) 4 hr build up = 500 psi, ret's gas mist & lt coal. Surge well from 3650' (6 times) w/7 bph air/soap mist, pres @ 700 psi, ret's lt coal & gas/air soap mist. Break over @ 1140 psi w/5 bph air/soap mist. Surge (2 times) w/7 bph air/soap mist, pres @ 1000 psi, ret's lt coal & gas/air mist

6-26-1999 Tag 1' of fill & CO w/8 bph air/soap mist, ret's med-hvy coal = dust to 1/4" in size. Blow well f/td w/8 bph air/soap mist, ret's med coal. Blow well dry w/air only. PU bit to 3650'. Surge natural (3 times) 1st 4 hr SI = 500 psi, 2nd = 520 psi, 3rd = 530 psi, ret's lt coal dust & gas/soap mist, flow natural 1 hr after each surge. Gauge well on 1" line all gauges dry & avg 218 mcf. SI well for 4 hr nat build up

6-27-1999 Surge natural, 4 hr build up = 450 psi, ret's lt coal & gas/soap mist. Tag 1" of fill & CO. Blow well w/8 bph air/soap mist, ret's med coal = dust to 1/4" in size. Blow well dry & PU bit to 3495'. Break over @ 1000 psi w/5 bph air/soap mist. Surge well f/3495' (4 times) w/5 bph air/soap mist, pres @ 900 psi ret's lt coal. Surge well (6 times) w/5 bbls ahead & 1 gal soap, pres @ 900 psi, ret's lt coal

6-28-1999 Surge well f/3495' (3 times) w/5 bbls ahead & 1 gal soap, pres @ 900 psi, ret's med coal = dust to 1/4" in size. Tag 4' of fill @ 3676' & CO to TD w/8 bph air/soap mist, ret's hvy coal, run 8 bbl sweep & bridge off. LD 2 jts dp, work thru tight spot @ 3592' CO to TD w/8 bph air/soap mist, ret's hvy coal. Blow well from TD w/8 bph air/soap mist, ret's lt-med coal. Blow well dry & PU bit to 3495'. Break over @ 1030 psi. Surge well (5 times) w/5 bbl ahead & 1 gal soap, pres @ 930 psi, ret's med coal = dust to 1/4" in size

6-29-1999 Surge well f/3495' (5 times) w/5 bbls ahead & 1 gal soap. Pressure @ 930 psi, ret's med-hvy coal = dust to 1/4" in size. Surge (3 times) w/5 bbls ahead & 1 gal soap, break over @ 1120 psi & take pres to 1300 psi, ret's hvy coal = dust to 1/2" in size. Tag 15' of fill @ 3665'. Start to clean out, hole got tight. LD 2 jts DP & work thru tight spot @ 3560'. CO f/3560'- 3650' w/8 bph air/soap mist & 8 bbl sweeps

6-30-1999 CO to TD with 8 bph air/soap mist & bridge off. PU bit to 3560'. CO to TD with 6 bph air/soap mist, run 5 bbl sweeps, hvy ret's = 50% coal & 50% shale. Blow well from TD with 6 bph air/soap mist, hvy ret's = 90% coal & 10% shale. Blow well dry w/air only & PU bit to 3495'. Natural surge, 4 hr SI = 380 psi rets gas & lt mist. Gauge well on 1" line all dry & avg 239 mcf. Q = 239 mcf

7-01-1999 Surge f/3495' (3 times) w/5 bbls ahead & 1 gal soap, pres @ 1000 psi, med ret's = dust to 1/8" in size. Natural surge (2 times) 1st 4 hr SI = 460 psi, 2nd = 420 psi, ret's lt coal dust & gas mist, flow natural 1 hr after each surge. Surge (3 times) w/400 psi air only ahead, pump 5 bbls prod wtr & 1 gal soap, take pres to 1000 psi w/5 bph air/soap mist, rets med coal dust to 1/8" in size. Tag bridge @ 3595' break circ w/6 bph air/soap mist. CO from 3595'- 3615' hvy ret's = 50% coal & 50% shale

7-02-1999 CO f/3615'- 3680' w/6 bph air/soap mist, run 8 bbl sweeps, hvy ret's = 70% coal & 30% shale. Blow well f/3680' w/6 bph air/soap mist, med-hvy ret's = 90% coal & 10% shale, coal size = dust to 1/8" in size. PU bit to 3650'. Surge (8 times) w/300# air only ahead, pump 5 bbl prod wtr & 1 gal soap, take pres to 950 psi, med ret's = dust to 1/8" size

7-03-1999 Surge f/3650' (3 times) w/300# air only ahead, pump 5 bbls prod wtr & 1 gal soap, take pres to 950 psi w/air only, med ret's = dust to 1/8" in size. Tag 5' of fill & co w/6 bph air/soap mist, run 5 bbl sweeps. Blow well dry & PU bit to 3650'. Surge natural (2 times) 1st 4 hr SI = 350 psi, 2nd = 360 psi, lt ret's = dust & gas mist. Tag 2' of fill & co. PU bit to 3650'. Surge (2 times) w/300# air only ahead, pump 5 bbls & 1/2 gal soap, take pres to 900 psi w/air only, lt ret's = coffee ground size

7-04-1999 Surge f/3650' (2 times) w/300 psi air only ahead, pump 5 bbls prod wtr & 1 gal soap, take pres to 1000 psi w/air only, med ret's = dust to 1/8" in size. Tag 2' of fill & CO w/6 bph air/soap mist. PU bit to 3650'. Natural surge (2 times) 1st 4 hr SI = 420 psi, 2nd = 410 psi, ret's lt coal fines & gas/soap mist, flow natural 1 hr after each surge. Surge (4 times) w/300 psi air only ahead, pump 5 bbls prod wtr & 1 gal soap, take pres to 1000 psi w/air only, ret's lt coal fines & gas/air mist

7-05-1999 Surge f/3650' (3 times) w/300 psi air only ahead, pump 5 bbls prod wtr & ½ gal soap, take pres to 1050 psi w/air only, ret's lt coal fines & gas/air mist. Tag 2' of fill, CO w/6 bph air/soap mist, run 8 bbl sweep & bridge off. PU bit to 3560'. CO to TD. Blow well from TD w/10 bph air/soap mist & bridge off. PU bit to 3592' & CO to TD w/10 bph air/soap mist. Blow well from TD w/10 bph air/soap mist & bridge off. PU bit to 3592, work on bad spot f/3592'- 3624' w/10 bph air/soap mist, ret's hvy shale

7-06-1999 Drill on & attempt to work thru bad spot in open hole f/3615'- 3628' w/6 bph air/soap mist, ret's hvy shale

7-07-1999 CO & work thru bad spot f/3624'- 3656' w/6 bph air/soap mist, hvy ret's = 100% shale. CO to TD w/6 bph air/soap mist. Blow well from 3680' (TD) w/6 bph air/soap mist, ret's lt coal fines & lt shale. Blow well dry. Hang swivel back & TOOH w/dc's, lay down same. C/O #2 pipe rams to 5 ½" get ready to run liner

7-08-1999 MU hanger & TIH w/6 jts 5 ½" liner, tag ledge @ 3610'. RU power swivel & break circ w/6 bph air/soap mist. Wash liner to 3672', lose circ & hang up. LD 3 jts dp, break circ & attempt to wash liner to bottom & twist off. TOOH w/4 jts of 5 ½" liner. Parted on bottom pin of 3rd jt (collar looking up) W/O fishing tools. MU spear & jarring assembly & TIH, tag/spear fish @ 3559'. TOOH w/ ½ of fish = 1 jt 5 ½" csg parted on bottom pin of 2nd jt (collar looking up). TIH w/spear & tag/spear fish @ 3595'. TOOH w/ 1 jt 5 ½" csg, bit & bs. Load out tools. TIH w/6 ¼" bit

7-09-1999 Continue in w/bit, tag bridge @ 3615', break circ w/6 bph air/soap mist. CO f/3615'-3680' med ret's = 90% shale & 10% coal. Blow well dry. PU bit to 3585' (short trip). Flow well natural. Tag bridge & CO from 3615'- 3680' w/6 bph air/soap mist. Blow well from TD. Blow dry. TOOH w/DC's, LD same. RU to run liner

7-10-1999 Continue in w/5 ½" liner, tag bridge @ 3620'. Break circ w/6 bph air/soap mist. Attempt to wash liner to bottom & lose hole. Attempt to wash to bottom w/4 bpm prod wtr with no luck. Blow well dry. TOOH w/5 ½" liner, LD same. PU drill collars & TIH w/6 ¼" bit, tag bridge @ 3620'. Break circ w/6 bph air/soap mist. CO f/3620'- 3656' ret's med-hvy shale & lt coal fines

7-11-1999 C/O f/3656'- 3680' w/6 bph air/soap mist, lose circ. PU bit, DO & CO bad sec of open hole f/3600'- 3656' w/6 bph air/soap mist. TOOH w/bit. MU 6 ¼" bit & 9 ½" underreamer, TIH to 3592'. Break circ w/30 bph air/soap mist, circ pres @ 820 psi, open arms on UR. Underream f/3620'- 3660' & fell thru, CO to 3680' (TD) w/30 bph air/soap mist, ret's hvy coal. Circ hole clean & blow dry. Start out of hole w/bit & underreamer

7-12-1999 TOOH w/underreamer. TIH w/5 ½" liner to TD, hang liner off @ 3679'. TOOH laying down w/3 ½" DP, LDDC's. Perf Fruitland Coal intervals top down w/4 spf, .75" dia holes f/ 3598'-3612' & 3643'- 3678'. Tally in w/118 jts 2 3/8" tbg, tag 4' of fill @ 3674'. Unload well & CO to PBTD @ 3677'. Land tbg in hanger @ 3661' KB. ND BOP's & blooie lines, NUWH. Release rig 7/12/99