

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

"Record Clean-Up"

2007 JUN 19

AM 9:28

5 Lease Designation and Serial No.  
NMSF078771

6 If Indian, Allottee or Tribe Name

If Unit or CA, Agreement Designation

SUBMIT IN TRIPLICATE

RECEIVED  
BLM

210 FARMINGTON NM

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

8 Well Name and No  
ROSA UNIT #1 SWD

2. Name of Operator  
WILLIAMS PRODUCTION COMPANY

9. API Well No.  
30-039-27055

3. Address and Telephone No.  
PO BOX 3102 MS 25-1, TULSA, OK 74101 (918) 573-6254

10 Field and Pool, or Exploratory Area  
UNNAMED

4. Location of Well (Footage, Sec, T, R., M, or Survey Description)  
2420' FSL & 1210' FEL, NW/4 SE/4 SEC 23-31N-06W

11. County or Parish, State  
RIO ARRIBA, NM

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

Notice of Intent

X Subsequent Report

Final Abandonment

Abandonment

Recompletion

Plugging Back

Casing Repair

Altering Casing

Other Drilling 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.)\*

10-09-2004 MIRU, cut out cracked weld between 20" Braden head flange and 13 3/8" casing and re-weld. Remove scoping ram on mast, install new ram, ran 1 1/2" too short, SDON.

10-10-2004 Rig repair, remove scoping ram, install old scoping ram. Spot unit @ wellhead, rig up, secure location, SDON.

10-11-2004 Change rams in BOP, RU blooie line, NU BOP. RU to PU 2 7/8" tbg, PU 6 1/4" bit, PU 60 jts. PU 20 jts tbg. Spot 2nd float w/ tubing @ floor, secure location, SDON.

10-12-2004 Continue to tally, PU & TIH w/6 1/4" bit, tag/stack out @ 9144'. RU power swivel. Reverse circ bottom up clean w/60 bbls fw, RD swivel. LD 4 jts, EOT @ 9015', SION

RCVD JUN20'07

OIL CONS. DIV.

DIST. 3

Continue on Back

14 I hereby certify that the foregoing is true and correct

Signed Tracy Ross  
Tracy Ross

Title Sr Production Analyst

Date December 1, 2004

(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.

ACCEPTED FOR RECORD

JUN 20 2007

NMOCD

FARMINGTON FIELD OFFICE

10-13-2004 Pres test csg to 1700 psi & held. Spot in pump truck. Pres test csg to 4000 psi & held solid, spot 300 gals 15% HCl acid across Entrada interval, RDBJ. RU rig on 2 lines. TOOH w/70 stands, SI & SWFN.

10-14-2004 Continue out w/bit. RD rig floor, ND swing & BOPs, NU frac valve & 10k csg valves. Load & top off csg, RU Antelope's test unit, pres test csg/csg valves & frac valve to 6000 psi & held for 30 min. NU fracY, RU Black Warrior WI. Perforate Entrada top down in acid 3 spf at 120 deg phsg f/8805'- 9015' w/4" HSC, .46" dia, 19" pen & 19 grm chgs, make 8 runs, all shots fired (630 holes total). RUBJ, pres test lines to 6000 psi. Breakdown Entrada @ 4529, est inj rate of 36 bpm @ 1730 psi, acdz w/1500 gals 15% hcl acid. Frac Entrada w/199,450 lbs 20/40 Brady sand @ 1/2, 1, 2, 3, 4 & 5 ppg carried in a Lightning 2200 cross link gel, MIR= 50 bpm, AIR= 48 bpm, MTP= 1915 psi, ATP= 1650 psi, ISIP= 1465 psi, 5 min= 1445 psi 10 min= 1404 psi, 15 min=1385 psi, total FW= 3067 bbls. RU lubricator, had some problem getting plug thru WH, WL set 7" composite plug @ 8680'. Pres test csg/plug to 6000 psi. Re-head rope socket, perforate Bluff top down 3 spf, 120 deg phasing w/4" HSC, .46" dia, 19" pen & 19 grm chgs @ 8576'- 8526' (150 holes), 8540'- 8565' (75 holes), 8570'- 8670' (300 holes), made 7 runs, all shots fired 525 total, SION.

10-15-2004 Rig up BJ. Acidize and frac Bluff formation as follows. Pump in and broke formation @ 2150 psi @ 5 BPM. Bullhead 1500 gals of 15% HCL acid @ 5 bpm @ 1550 psi. Fraced with 176,600# of 20/40 Brady sand, with 1/2# ppg, 1# ppg, 2# ppg, 3# ppg, 4# ppg and 5# ppg stages carried in a lighting 2200 Xlink gel. Max pressure 2863 psi @ 52 BPM max rate. Avg pressure 2100 psi @ 48 BPM avg rate, ISIP - 2350 psi 5 Min - 2020 psi 10 Min - 1760 psi 15 min - 1522 psi. Total fluid 2836 bbls. RU WL, RIH, set 7" composite plug @ 8460'. Test csg & composite plug to 5650 psi. - OK. Perforate Morrison formation as follows: 8117' - 8164' (141 holes), 8330' - 8380' (150 holes), 8400' - 8428' (120 holes). Note: 8408' - 8420' Perforated @ 6 spf due to sand settling on top of the plug & could not get to bottom perf depth @ 8440'. All other perf depths shot @ 3 spf. Perforate with 4" HSC with 19 Gram charge with .46" hole size with 19.08" Penetration. Total holes 411. RU BJ to frac. Broke down perfs @ 5 BPM @ 1690 PSI. Bullhead & pumped 1500 gals of 15% HCL acid @ 5 BPM @ 1120 PSI. Fraced Morrison formation as follows: Pumped 150,120# of 20/40 Brady sand @ 1/2# PPG, 1.0# PPG, 2.0# PPG, 3.0# PPG, 4.0# PPG, and 5.0# PPG sand, Carried in a lighting 2200 Xlink gel. Max pressure 3315 PSI @ 52 BPM, Avg pressure 2700 PSI @ 49 BPM, ISIP - 2910 PSI, 5 min - 2529 psi, 10 min - 2120 psi, 15 min - 1890 psi. Total fluid to recover 2519 bbls. 15 min - 1890 psi. total fluid. RD BJ, RD Wireline, shut well in.

10-18-2004 Check SI csg pressure = 450 psi. Rig up 2" line to blow well down to reserve pit. Well flowing to pit. Well flowing full 2" stream of water. Well continuing to flow full 2" stream of fluid. Well started making heavy sand. Do not want to pull on well this hard, since well started making sand. Installed 1/2" choke nipple. Flowing well thru 1/2" choke nipple, casing pressure 325 psi sand light. Well flowing approx 80 BPH. Reserve pit full, having to run yellow dog and pump fluid into frac tanks. Total fluid recovered approx 700 bbls, SIFN.

10-19-2004 Check csg press = 400 psi. Blow well down thru 1/2" choke nipple. Flow decreased. Flow well thru 2" line. Water prod & flow continued to decrease. NU BOP, had to NU BOP on top of frac valve. RU blowie line, RU floor. Install new stripping rubber. Flow still decreasing. Pick up 6 1/4" baker mill w/sub & string float. Turn well down blowie line. RIH w/ 2 7/8" tbg, with mill to approx 100', stacked out. Turned mill w/tongs could not work thru tight spot. RU power swivel. Could not work thru tight spot. Checked bit size that was used to drill cmt & clean out to PBTD it was 6 1/4" & mill size was also 6 1/4". Rig operator said bit hit several tight spots. Checked well records. Csg size is 7" - 26# N80. Correct tool size is 6 1/8". RD swivel, POOH w/tbg & mill, SIFN. Total frac fluid recovered today 1200 bbls. Total fluid recovered to date 1900 bbls.

10-20-2004 Start and warm up equipment. Check well pressure. Csg - 350 psi. Blow well down. Well still flowing approx 70 - 80 BPH. Pumping water from reserve pit to frac tanks. RIH with 6 1/8" mill, bit sub, string float and 2 7/8" tbg. Tagged @ 8458'. Perf's @ 8117' - 8428'. Composite plug @ 8460'. Start up rig pump and start to circulate down the tubing. Just started to get increased flow out the blowie line and tubing pressured up. String float or mill is plugged. Prep to swab tubing down, so not to pull tbg wet. Water temp approx 190 degrees. Did not have change over from sand line to sinker bars, for swab equipment. POOH very slowly (VERY HOT FLUID) to above perfs @ 8087'. Shut in pipe rams and pumped down the casing to get injection rate for the Morrison formation. Performed injection rate as follows: 1/2 BPM @ 200 PSI, 1 BPM @ 250 PSI, 2 BPM @ 300 PSI, 3 BPM @ 325 PSI, 4 BPM @ 350 PSI, 5 BPM @ 375 PSI. Took water sample to BJ for analysis. SDFN. Total fluid flowed today approx 960 BBLS. Total fluid recovered to date - 2860 BBLS.

10-21-2004 Hauling water from reserve pit, pumping water into frac tanks to be hauled to next location. Haul out & spot rig pit. Fill pit w/flowback water. Rig up to tbg, tbg still plugged. Rig up swab, RIH w/swab. Could only get down 100', swab fluid down to 100'. Check swab equipment. Cut line, poured new rope socket, replaced mandrel. RIH w/single swab cup, could not get past 100'. POOH w/swab, still hauling flowback fluid. Aztec rig pit still leaking. Empty rig pit, send pit back to Aztec for repairs. SDFN, shut down early due to personal request from crew.

10-22-2004 Check well pressures. Csg - 375 psi. Open well on 2". Flow head off well. Open well out the blowie line. Tbg still plugged. Rig up to swab. Swab well down. End of Mill @ 8087'. POOH with 2 7/8" tbg, bit sub, string float, and 6 1/8" mill. Replaced Blind rams in BOP with 2 7/8" pipe rams. We are nipped up on top of frac valve, will use frac valve for blind rams. Replaced string float. Continue to haul flowback fluid. Flowed approx 1000 BBLS.

10-23-2004 Check casing pressure - 375 psi. Blow well down. RIH with 6 1/8" mill, (NEW) string float, and 2 7/8" tbg. Tagged sand fill @ 8410'. RU power swivel. Circulate sand to 8460'. Drill composite plug @ 8460'. Continue to RIH. Tagged sand fill @ 8662'. POOH to 8055'. String float in bit sub started leaking from heat. Installed inline string float @ 8055'. Installed TIW valve. Shut in rams. Pumped 250 BBLS down backside. RU on Inter csg. Pressure up to 200 psi. Could not get rate or pump into. Will bleed down slowly, SDFN.

10-25-2004 SICP = 400 psi, blow well down. Continue in w/mill, tag 20' of fill @ 8660'. RU power swivel. SI rams, est inj rate of 2.6 BPM @ 600 psi. SI rams, transfer 800 bbls prod water from pit to frac tanks. Mill on & spud on bottom 1/2 of plug, cant put over 500 lbs on mill without torquing up. Transfer 1200 bbls prod water from pit to frac tanks, SI & SWFN.

10-26-2004 SICP = 400 psi, blow well down, start transferring prod water f/pit to frac tanks. Mill on composite plug @ 8680' & start moving down hole. Mill on & push bottom 1/2 of plug to 9002', stack out on 138' of fill. Mill & CO f/9002'-9140' (PBDT), circ clean. Unload workstring w/ air only, hang swivel back. TOOH w/16 stands to fit valve, mill @ 8056', stab TIW, SI & SWFN. Finish transfer of pit water, drain pump, transferred over 2900 bbls prod water from pit to frac tanks.

10-27-2004 SICP = 425 psi. Transfer prod water from pit to frac tanks. Attempt to pull string float, too much pressure to pull. NU tool to release pressure under float valve, blow tbg down, remove fit valve, stab TIW. RU Phoenix Slickline, make gauge ring run, RIH w/tbg choke to 4282' & stack out, attempt to work down, shear off & POOH w/set tool, RIH w/rel tool, work & move plug downhole to 5187' & set, POOH w/tools, RD lubricator, SION.

10-28-2004 Start transferring prod wtr f/pit to frac tanks. RU Phoenix Services, RIH w/set tool, push plug f/5187' to 8018' (s/n), POOH w/tools, RD slickline. Blow down tbg, check for flow (no flow), unload tbg w/air only. TOOH w/40 stands to fluid. Unload tbg w/air only, blow tbg down. TOOH w/33 stands, rubber leaking. C/O stripper rubber, unload tbg w/air only, blow tbg down. TOOH w/mill, SI frac valve. RU Black Warrior, RU lubricator, MU pkr assembly. RIH w/7" X 4" bore Arrowdrill packer as follows: 3.5" WL re-entry guide, 2.81" (XN) nipple, 3.5" X 8' pup jt, 2.81" (X) nipple, 3.5" X 8' pup jt, millout X-over, 5' millout extension, concentric coupling, 7" Arrowdrill pkr, 3.5" latch seal assembly, & 2.81" (X) nipple, (total length = 32.60), get on depth, attempt to set pkr @ 8030' cap went off but setting charge didn't, POOH w/pkr assembly, SI frac valve, drain up.

10-29-2004 LD pkr assembly. Bread down & check setting tool, everything dry, setting charge melted, cut & tie new rope socket, wait on temp survey tool. MU & calibrate tool, run temp survey from surface to 7600' & tool quit, temp @ 330 deg, POOH w/tool. PU pkr assembly, break/load out pkr, send to town to replace elements, SDON.

11-01-2004 RUWL. Calibrate tools, run temp survey with same results, tool went dead @ 7910' & 340 degs, POOH w/tools. SDFN.

11-02-2004 RD BWWC, RU Computalog. Run temp survey f/surface- 9140', temp @ 250 deg f/8000'- 9140', POOH w/tools, RD Computalog. RUBJ, filter & pump 400 bbls prod wtr, est inj rate of 5.2 bpm @ 515 psi, isip = 450 psi, RDBJ. RU BWWC, MU pkr assembly. WL set 7" Arrowdrill pkr @ 8030' as follows: 3.5" WL re-entry guide, 2.81" XN-nipple, 3.5" x 8' pup jt, X- nipple, 3.5" x 8' pup jt, millout x-over, 5' millout extension, concentric coupling, 7" x 4" bore Arrowdrill pkr, 3.5" latch seal assembly & 2.81" X-nipple, (total length = 32.60). RD BWWC, drain up, SDFN.

11-03-2004 TIH open ended w/140 jts. POOH laying down w/2 7/8" workstring. Move out flight w/140 jts, spot in empty float. TIH open ended w/144 jts. POOH laying down w/2 7/8" workstring, retrieve slickline plug. Move out float w/2 7/8" workstring, spot in float w/3 1/2" prod tbg, drain up, SION.

11-04-2004 RD rig floor, ND swing & BOPs, ND frac valve, NUBOPs, RU rig floor. RU csg crew, MU seal bore assembly, attempt to MU bottom jt, backups wrong size. Wait on backup's f/town. RU manual backup. Tally, PU, TIH w/SBA & 130 new jts 3.5" plastic lined tbg to 4232', RD tongs. Drain up, SI & secure well for night.

11-05-2004 Tie back on single line, RU csg crew, land prod tbg in pkr @ 8030' w/43,000 lbs compression as follows: Arrow latch in seal bore assembly, 2.81" X-nipple, 245 new jts 3.5", 9.3#, N-80 EUE tbg, 6' pup jt & 1 jt 3.5", 9.3#, N-80 tbg (246 jts total). Drain up, SI & secure well for night.

11-06-2004 RD power swivel, RD rig floor, ND swing & BOP's. NUWH, pres test seals to 3000 psi & held. Pressure test csg to 400 psi & held for 30 min. RD rig & equipment, release Rosa #001 SWD to production department.