

In Lieu of
Form 3160
(June 1990)

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-078766

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

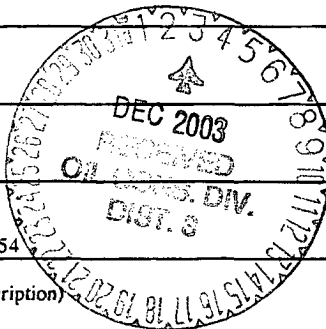
SUBMIT IN TRIPLICATE

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 25-1, TULSA, OK 74101 (918) 573-6254

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
585' FNL & 560' FWL, NW/4 NW/4 SEC 16-31N-06W



8. Well Name and No.
ROSA UNIT #341A

9. API Well No.
30-045-31714

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

11. County or Parish, State
SAN JUAN, 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 Drilling/Completion

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.)*

09-22-2003 MIRU, drill RH/MH. Spud surface hole @ 2100 hrs, 9/21/03. Drill 12 1/4" hole from 0' to 402'.

09-23-2003 Drill 12 1/4" hole from 402' to 522'. TD surface hole @ 0730 hrs, 9/22/03. Circulate & drop TOTCO, TOO, survey @ 500' - 3 deg. RU csg crew, run 11 jts 9-5/8", 36#, J-55 ST&C csg plug landing jt, set csg @ 518'. RU BJ SVCS, run 10 bbls FW pre-flush. Cmt w/ 260 sxs (65 bbls) Type III cmt w/ 2% CaCl & .25 PPS Celloflake mixed @ 14.5 ppg, 1.41 YD. Displace w/ 38 bbls FW to 490'. Late pump press 148 psi. Circulate 38 bbls cmt to surface. RD BJ SVCS. Csg & cmt jog witnessed by Gabe Trujillo of the BLM. WOC. Back out landing jt, NU BOPE & choke manifold. Test BOPE, rams, choke manifold & associated valves to 250 low/ 1500 hi, all tested. Test csg to 1500 psi for 30 min, held. TIH w/ bit #2, tag cmt @ 490'. Drill cmt & plug from 490' to 522'. Drill 8 3/4" hole from 522' to 1002'.

09-24-2003 Drill 8 3/4" hole from 1002' to 2258'.

09-25-2003 Drill 8 3/4" hole from 2258' to 3085'. TD intermediate hole @ 0130 hrs, 9/25/03. Circulate & condition mud. Short trip to DC's, no correction to depth, no excessive drag, no fill back on bottom. Circulate & condition mud.

Continue on Back

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

Signed Tracy Ross
Tracy Ross

Title Production Analyst

Date November 12, 2003

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

ACCEPTED FOR REC'D

DEC 01 2003
FARMINGTON FIELD OFFICE
BY gc

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.

NMOC

09-26-2003 Circulate & condition mud. TOOH, racking back 3 1/2" DP, LDDP. Change rams to 7". RU csg crew, run 66 jts 7", 20#, J-55, ST&C csg, landed @ 3085', float collar @ 3040'. Circulate, RU cmt crew. PU landing jt, land mandrel. RU BJS, cmt csg as follows: pump 10 bbls FW spacer ahead. Lead: 380 sxs (140 bbls) PREM LITE FM w/ .25% Celloflake & 8% Bentonite @ 12.1 ppg, 2.08 YD. 115% excess over gauge hole. Tail: 50 sxs (13 bbls) Type III w/ .25% Celloflake @ 14.5 ppg, 1.4 YD. 0% excess. Displace w/ 123 bbls FW. Bumped plug @ 14:05 hrs w/ 1500 psi. Circulate 43 bbls cmt to surface, check float, held. RD cementers, install tbg head, 7-1/16"-3M X 11'-3M single stud adapter & BOP. Test BOP to 1500 psi, held. Cut 200' of drill line. Change Kelly, PU 3 1/2" BHA & 4 3/4" DC's. Finish PU BHA, TIH.

09-27-2003 Finish TIH, Kelly up & displace hole w/ coal water. Tag cmt @ 3040', drill cmt & float equipment. Drill formation from 3085' to 3334' (TD). Drilled 80' past 2nd to last coal seam from offset log on #145A well. Circulate bottoms up, TOOH for logs. RU Howco & run logs. Ran SDL-DSN-GR. Density quit on first run. Made second run for Density only. Loggers csg depth @ 3085', loggers TD @ 3332'. PU under reamer & TIH. Under ream from 3095' to 3140'.

09-28-2003 Under ream from 3140' to 3260', circulate, LD DP & DC's. Land donut & 2-3/8" BPV, NU tbg head & test to 1500 psi, all seals held. Pump coal water over to frac tank. RD rig, release rig @ 2200 hrs, 09/27/03.

09-29-2003 Travel to location, hold safety meeting. Load out equipment, clean up location. Road rig to location, hung up @ DOT scales. Spot in ramp & rig, RU rig. Spot in equipment.

09-30-2003 Travel to location, hold safety meeting. NDWH, NU BOP's, HCR's & blooie lines. PU DC's out of basket, tally & caliper same. Tally in w/ 6 1/4" bit, BS, 8 - 4 3/4" SD DC's & 96 jts 2-7/8" DP, tag PBTD @ 3260'. RU power swivel. Unload well w/ air only, blow well w/ 7-bph a/s mist. LD 5 jts, PU bit to 3100', turn over to night crew. Surge (3 times) from 3100' w/ 10 bph a/s mist @ 1000 psi, ret's trace coal & lt wtr, flow natural 1 hr each surge

10-01-2003 Flow natural w/3' high flare. Surge from 3100' w/10 bph a/s mist @ 1000 psi, ret's trace coal, flow natural 1 1/2 hrs. SI for natural build up. Travel to loc, hold safety mtg. Natural surge, 4 hr SI = 180 psi, ret' gas. Tag 27' of fill @ 3233'. Break circulation w/10 bph a/s mist, CO to PBTD @ 3260'. Surge from 3255' (2 times) w/10 bph a/s mist @ 1200 psi, ret's lt fine to 1/8" size coal. Circ clean. LD 5 jts, hang power swivel back. TOOH w/bit, lock same in top rams. Attempt to pres up, pipe rams leaking, C/O rams & test, turn over to night crew. Surge f/surface (4 times) w/10 bph a/s mist @ 1200 psi, ret's trace to lt coal, flow natural 1 hr each surge.

10-02-2003 Flow natural w/6' high flare. Surge from surface w/10 bph a/s mist @ 1000 psi, ret's trace coal, flow natural 1 hr. SI for natural build up. Travel to loc, hold safety mtg. Natural surge from surface, 4 hr SI = 150 psi, ret's trace coal. Hang swivel back. TIH, tag 46' of fill @ 3214'. RU power swivel, break circulation w/7 bph a/s mist, CO from 3214' to 3260', run 6 bbl sweep, ret's fine to 1/2" size coal, PU bit to 3250'. Surge well from 3250' w/ air only @ 1450 psi, light coal, med black wtr. Circulate hole clean w/ 7 bph a/s mist ret's medium w/ fine to 3/4" size coal. LD 4 jts, PU bit to 3110'. Flow well, turn well over to night crew. Surge from 3110' energized w/ two 5 bbl pads @ 1200 psi, ret's lt fine coal & blk wtr, flow natural 1 hr. Surge w/ 10 bph a/s mist to 1400 psi, ret's lt coal, flow natural. Surge energized w/ three 5 bbl pads @ 1300 psi, ret's lt coal, flow natural. Surge w/ 7 bph a/s mist @ 1350 psi, ret's lt coal, flow natural.

10-03-2003 Surge well f/ 3110' w/ 10bph a/s mist @ 1400 psi, rets Lt coal med black water, flow nat 1.5 hrs. SI for natural build up. Travel to loc, hold safety mtg. Natural surge f/surface, 4 hr SI = 200psi, rts gas. TIH & tag 50' fill @ 3210', break circ w/10 bph a/s mist. CO f/3210'- 3260' run 6 bbl sweep. Blow well f/3260' w/7 bph a/s mist, run five 6 bbl sweeps rts med coal each sweep. LD 4 jts PU bit to 3110'. Surge well w/7 bph a/s mist & two 5 bbl pads @ 1200 psi, rts med coal, med black water. Turn over to night crew. Surge well w/7 bph a/s mist & two 5 bbl pads @ 1100 psi, SI for 1 hr, drop to 900 psi, pres to 1100 psi, rts med coal, med black wtr, flow nat 1 hr. Surge well w/10 bph a/s mist @ 1100 psi, rets lt coal med black wtr, flow nat 1 hr. Circ well w/10 bph a/s mist, rets med fine to 3/4" coal & med black wtr. Surge well w/12 bph a/s mist @ 1000 psi, rets lt coal, lt wtr, flow nat 1 hr. Surge well w/10 bph a/s mist w/ three 5 bbl pads @ 1100 psi, rets med coal, med black wtr.

10-04-2003 Natural flow. Surge well w/ 10bph a/s mist @1000 psi, rts lt coal, med black wtr, flow nat for 1hr. SI for nat build up. Travel to loc, hold safety mtg. Natural surge 4 hr SI = 200 psi, ret's gas. TIH, tag 25' of fill @ 3235' break circ w/ 10 bph a/s mist. CO f/ 3235'- 3260' w/ 6 bph a/s mist. Blow well w/ 8bph a/s mist sweep, run four 8 bbl sweeps, rts med coal each sweep. PU bit to 3245', surge well w/ 10 bph a/s mist @ 1000 psi, rets med coal & wtr, flow nat 1 hr. Natural surge, 2.5 hr SI = 150 psi, rets lt coal, lt black wtr, flow nat 1 hr. Surge well w/ 10 bph a/s mist & 5 bbl pad @ 1180 psi, rets med coal, med wtr, flow well for 1 hr. Surge well w/ 10 bph a/s mist w/ three 5 bbl pads @ 1150 psi, rets med coal, med wtr, flow nat 1 hr. Surge well w/ 10 bph a/s mist & two 7 bbl pads @ 1000 psi, rts med coal, med black wtr, flow nat 1.5 hrs.

10-05-2003 Surge well w/ 10 bph mist @ 1300 psi, rts med coal, med black wtr, flow nat 1 hr. SI for nat build up. Travel to loc, hold safety mtg. Natural surge, 4 hr SI = 200 psi, rets gas. CO 15' of fill to 3260', run three 5 bbl sweeps rets, med fine to 1/2" size coal each sweep. Attempt breakover w/ air only, pres up to 1650 psi, pump 12 bbls down backside, back to air only, no break. Blow well, CO to 3260' run two 8 bbl sweeps, rets med fine to 1/2" size coal on each sweep. Blow well dry w/air only. LD 5 jts, hang swivel back. TOOH w/bit, lock same in top rams. Turn over to night crew. Natural surge f/surface (2 times) 1st 3 hr SI = 190 psi, flow nat 1/2 hr, 2nd 3 hr SI = 200 psi, ret's gas on both. SI for natural build up.

10-06-2003 Natural surge, 3 hr SI = 280 psi, rets lt fine dry coal & lt wtr, flow natural 1 hr. SI for natural build up. Travel to loc, hold safety mtg. Natural surge, 4 hr SI = 320 psi, rets lt coal & lt wtr, flow natural 1 hr. Natural surge, 4 hr SI = 320 psi, rets lt, flow natural 1 hr. Natural surge, 4 hr SI = 320 psi, rets lt coal w/ med blk wtr, flow natural 1 hr. Natural surge, 4 hr SI = 320 psi, rets lt. SI for natural build up.

10-07-2003 Natural surge from surface for 3 hrs = 300 psi, rets trace coal, thick black wtr, flow natural 1 hr. SI for natural build up. Travel to loc, hold safety mtg. Natural surge, 4 hr SI = 340 psi, rets lt coal & lt blk wtr. Surge from surface w/ 15 bph a/s mist @ 900 psi, rets lt coal, med blk wtr, let well flow natural while rig crew changed out drill line. Surge from surface w/ 10 bph a/s mist & one 5 bbl pad @ 1200 psi, rets lt coal & lt blk wtr. Hang swivel back. TIH & tag bridge @ 3130', RU power swivel, break circulation w/ 10 bph a/s mist. CO bridge from 3130' to 3145', continue in & tag/CO 14' of fill to 3260', run 5 bbl soap sweep, PU bit to 3245', turn over to night crew. Surge from 3245' (4 times) w/ 10 bph a/s mist @ 600, 700, 850 & 600 psi, 1st surge rets hvy coal & hvy wtr, 2nd, 3rd & 4th = med coal & med wtr, circulate & flow natural each surge

10-08-2003 Surge from 3245' w/10 bph a/s mist @ 700 psi, rets lt coal & med wtr, circulate & flow natural after surge. SI for natural build up. Travel to location, hold safety mtg. Natural surge, 4 hr SI = 360 psi, rets med coal dust & lt wtr. CO to 3260' w/7 bph a/s mist, run two 6 bbl sweeps. Blow dry w/air only. LD 5 jts, hang swivel back. TOOH w/bit, lock same in top rams. Natural surge, 4 hr SI = 310 psi, rets lt, flow natural 2 hrs. Surge from surface w/10 bbls & 2 gals soap ahead, pres to 750 psi & let soak for 1 hr, surge @ 700 psi, rets lt coal & hvy wtr, flow nat 1 hr. Surge w/10 bph a/s mist, pressure to 900 psi & let soak 1 hr, release @ 850 psi, rets hvy blk wtr & med coal, flow nat 1 ½ hrs.

10-09-2003 Natural flow for 1hr. Surge well from surface w/ 10 bph a/s mist @ 850 psi, rets med coal, med wtr, natural flow well for 1 hr, 15 min. SI well for natural build up. Travel to location, hold safety mtg. Natural surge, 4 hr SI = 260 psi, rets heavy coal, med wtr. Hang swivel back. TIH, tag fill @ 3120'. RU swivel, break circulation w/ 10 bph mist, CO w/ 7 bph a/s mist, had 4 - 4' to 8' bridges & 45' of solid fill from 3215' to 3260'. Run six 6 bbl sweeps, rets hvy coal, hvy soap & wtr, coal size ½" to 2" size. Blow dry well w/ air only. LD 5 jts of tbg, pull bit to 3110'. Natural surge from 3110', for 3 ½ hrs @ 300 psi, rets med coal, med wtr. Pressure w/ 15 bph a/s mist @ 800 psi, SI for 1hr, natural flow for 1 hr, rets heavy coal, med wtr. Pressure well w/ 15 bph a/s mist @ 900 psi, SI for 2 hr.

10-10-2003 Nat flow, SI for nat B/U, travel to loc, hold safety mtg, nat surge 5hr SI = 500 psi, TIH C/O 65' of fill, run sweeps, blow well dry, LD 5jts @ 3110', turn over to night crew, Surge well 4 times, rts good on all surges

10-11-2003 Surge well f/ 3110', rts good, SI for nat, travel to loc, hold safety mtg, nat surge 4 hr SI @ 480 psi, P/U tubing, C/O 80' of fill run two 8 bbl sweeps, pull bit to 3110'. Turn well over to night crew, surge well 4 times.

10-12-2003 Surge well, rts good, SI for nat build up 4 hrs = 420 psi, C/O 30' of fill, run sweeps, blow well dry, LD 5jts, hang swivel back, TOOH w/ bit, turn over to night crew, try break over, 2 Natural surge from surface

10-13-2003 Natural surge. SI for natural build up. Travel to location, hold safety meeting. Natural surge 4 hr SI = 420 psi. Surge from surface, natural surge overnight.

10-14-2003 Natural surge, SI for nat, travel to loc, hold safety mtg, natural surge 4 hr SI = 400 psi, surge energized @ 900 psi, TIH & tag/CO bridge & 23' of fill, blow dry, TOOH, breakover @ 1350, natural surge.

10-15-2003 Nat surge, SI for nat build up, travel to loc & hold safety mtg, nat surge 4 hr SI = 400 psi, surge energized 3 times, natural surge, surge energized, flow nat.

10-16-2003 Natural surge 2 ½ hrs = 380 psi, rets lt to med coal & med wtr, flow nat for ½ hour. SI for natural build up. Travel to location, hold safety meeting. Natural surge 4 hrs = 460 psi, rets med coal & med wtr. Surge from surface w/ 15 bph a/s mist @ 1000 psi, rets med coal, ¾" to 2" in size & med wtr, natural flow for 45 min. Hang swivel back. TIH w/ bit, tag fill, break circulation w/ 10 bph a/s mist & CO bridges, first @ 480' from surface, 595', 1740', 2110', 2245', 2620', 2910', CO w/ 8 bph a/s mist 110' of solid coal from 3150' to 3260', last 30' kept sluffing. Run three 8 bbl sweeps, rets med coal ½" to ¾" in size & med wtr, last sweep cleaned up good. LD 5 jts, bit is @ 3110', turn over to night crew. Surge well from 3110' w/ 10 bph a/s mist @ 800 psi, rets lt to med coal & lt wtr, flow natural for 1 ½ hrs, 20' flare. SI for natural surge.

10-17-2003 SI for natural surge, 4 hrs = 460 psi, rets med coal & lt wtr. SI for natural build up. Travel to location, hold safety meeting. Natural surge, 4hrs = 400 psi, rets med coal ½" to ¾" in size, brought coal steady for approximately 20 mins, lt wtr, natural flow for 1 hr. TIH w/ 5 jts, tag bridge @ 3165'. Break circulation w/ 10 bph a/s mist, CO bridge & 37' of fill from 3223' to 3260'. Run four 8 bbl sweeps, rets med ½" to ¾" in size. Blow well dry w/ air only. Hang swivel back. LD 5 jts, TOOH with bit. Turn over to night crew. Try a break over w/ air only 2 hrs = 880 psi break over, flow natural for 2 hrs. SI for natural surge 3 hr = 500 psi, rets lt coal & med wtr, flow natural for 1 hr. SI for natural surge.

10-18-2003 SI for natural surge, 4 hrs = 420 psi, rets lt coal & lt wtr. SI for natural build up. Travel to location, hold safety meeting. Natural surge from surface, 4 hr = 480 psi, rets lt coal & lt wtr. Surge well w/ 10 bph a/s mist @ 800 psi, rets lt to med coal & lt wtr, flow natural for 1hr. Surge well w/ 10 bph a/s mist & two 2 ½ bbl energized pads @ 800 psi, rets med coal & wtr, flow natural 1 ½ hrs, flowed wtr steady, turn over to night crew. Surge well w/ 10 bph a/s mist & one 5 bbl pad @ 850 psi, rets heavy coal & wtr, flow natural 1 hr. Surge well w/ 10 bph a/s mist & two 5 bbl pads @ 800 psi, rets heavy coal & med wtr, well bridged off. Worked bridge out w/ 10 bph a/s mist. Flow well, wtr slowing down. SI for natural surge, 2 hrs @ 430 psi, rets medium to heavy coal & med wtr. SI for natural surge.

10-19-2003 SI for natural surge 3 ½ hrs = 460 psi rets med coal & wtr, flow natural for 1 hr. SI for natural build up. Travel to location, hold safety mtg. Natural surge from surface, 4 hrs = 460 psi, rets med coal & med wtr, coal surged for approximately 20 min. Hang swivel back. TIH to clean out. Hook up swivel. P/U one jt & tag bridge @ 3115'. Break circ w/ 10 bph a/s mist, C/O bridge, TIH with 4 jts & tag fill @ 3238', break circulation w/ 10 bph a/s mist, CO 22' of solid fill from 3238' to 3260'. Run three 8 bbl sweeps, rets light to med coal & wtr. LD 5 jts, pull bit up to 3110'. Surge well w/ 10 bph a/s mist @ 800 psi, rets lt coal & lt wtr, flow natural for 1 hr. Surge well w/ 10 bph a/s mist & two 5 bbl pads @ 800 psi, rets med coal & med wtr, flow natural for 1 ½ hrs. Surge well w/ 15 bph a/s mist @ 850 psi, rets med coal & med wtr.

10-20-2003 Flow natural, light wtr. SI for natural build up. Travel to location, hold safety mtg. Natural surge, 4 hrs = 500 psi, rets med coal & med wtr. Surge well w/ 10 bph a/s mist & three 5 bbl pads, rets med coal & wtr, flow natural for 45 min. PU 5 jts, tag fill @ 3240'. Break circ w/ 10 bph a/s mist, CO 20' of fill from 3240' to 3260'. Run two 8 bbl sweeps, rets light coal & light wtr. Blow well dry. Hang swivel back. LD 5 jts, TOOH with bit. Turn over to night crew. Try air only break over, 2 hrs @ 850 psi, rets med coal & light wtr, flow natural for 1 ½ hrs. SI for natural surge from surface, 4 hrs @ 480 psi, rets med coal & med wtr, flow natural for 1 hr. SI for natural surge.

10-21-2003 SI for natural surge, 3 hrs = 490 psi, rets med coal & med wtr, flow natural for 1 hr. SI for natural build up. Travel to location, hold safety mtg. Natural surge, 4 hrs = 500 psi, rets light coal & wtr, flow natural for 30 min. Surge well w/ 10 bph a/s mist & three 5 bbl pads @ 850 psi, rets light coal & wtr. SI for natural build up, 2 hrs = 360 psi, rets med coal & light wtr, flow natural for 1 hr. SI for natural build up, 4 hrs = 500 psi, rets med coal & very light wtr, flow natural for 1 hr. SI for natural build up, 4 hrs = 500 psi, rets light coal & light wtr, flow natural for 1 hr. SI for natural build up, 4 hrs.

10-22-2003 SI for natural surge, 4 hrs = 500 psi, rets heavy coal & heavy wtr, flow natural for 1 hr. SI for natural build up. Travel to loc, hold safety mtg. Natural surge, 4 hrs SI = 520 psi, rets med coal & med wtr, flow natural for 1 hr. Hang swivel back. TIH w/ bit, PU swivel, 5 jts of pipe off catwalk, tag fill @ 3155'. Break circ w/ 10 bph a/s mist, CO 105' of fill from 3155' to 3260' w/ 8 bph a/s mist. Run three 8 bbl sweeps, very light soap, rets med coal & wtr. Blow well dry w/ air only, seemed to be bringing more wtr than usual. Hang swivel back. LD 5 jts, TOOH w/ bit. SI for natural surge, 3 hrs @ 400 psi, rets light coal & light wtr, flow natural for 1 hr. SI for natural surge.

10-23-2003 SI for natural surge, 4 hrs @ 490 psi, rets med coal & wtr, flow natural for 1 hr. SI for natural build up. Travel to loc, hold safety mtg. Natural surge, 4 hrs = 480 psi, rets light coal & med wtr, flow natural for 30 min. Surge well w/ 4 bph mist, @ 400 psi, pump one 5 bbl pad, surge well to 850 psi, rets heavier than usual coal & wtr, steady coal for appr. 15 min, flow natural for 1 hr. SI for natural surge, 4 hrs = 500 psi, rets med to heavy coal & med wtr, flow natural for 1 hr. SI for natural surge, 4 hrs = 500 psi, rets med coal & med wtr, flow natural for 1 hr. SI for natural surge.

10-24-2003 SI for natural surge, 4hrs = 490 psi, rets light coal & wtr, flow natural for 2 hrs. SI for natural build up. Travel to location, hold safety meeting. Natural surge, 4 hrs = 460 psi, rets light coal & wtr, flow natural for 30 min. Hang swivel back. TIH with bit, tag bridge @ 3077'. P/U swivel. Break circ w/ 10 bph a/s mist, C/O bridges @ 3077', 3102', 3137', & 27' of fill from 3233' to 3260'. Run three 5 bbl sweeps, rets light to med coal, mostly light, & med wtr. Blow well dry w/ air only. Hang swivel back. L/D 5 jts on pipe rack, TOOH with bit. TIH, bit is @ 3110'. P/U swivel, shut BOP's, light flare, turn over to night crew. Flare well.

10-25-2003 Flare well. P/U swivel, & tag a bridge @ 3120'. Break circ w/ 10 bph a/s mist, CO appr. 6 bridges from 3120' to 3200', CO 33' of fill from 3227' to 3260'. Run three 6 bbl sweeps, rets light coal & wtr. Hang back swivel. TOOH w/ bit, L/D drill collars. RU San Juan Casing, tally 5 jts of 5 ½" csg. TIH w/ 5 ½" liner, stack out @ 3243'. RU power swivel, break circ w/ 10 bph a/s mist. Circ / wash liner down to TD @ 3258', J OFF & land TOL @ 3031' (54' of over lap). RD power swivel. TOOH, LD 2-7/8" DP, break out & load out tools. PU tools, shut well in for night.

10-26-2003 SICP over night = 500 psi, NU lube head, RU Black Warrior. Perforate 5 1/2" liner w/ 3 1/8" HSC guns, 4 SPF, 0.49" dia, 12" pent & 12 grm charges, @ the following intervals: 3096'-3112', 3136'-46', 3172'-76', 3202'-10', 3218'-24', 3244'-54', 216 shots, RDWL. NU stripper head, get ready to run 2 7/8" tbg. Tally, PU & TIH w/ 99 jts of 2 7/8" tbg, landed @ 3244' as follows, ½" mule shoe on bottom, 1 jt 2-7/8" tbg, SN w/ PO plug & 98 jts 2-7/8" tbg (99 jts total). RD power swivel, tongs & rig floor. NDBOP stack & HCR's, NUWH, pressure test to 3000 psi & held, pump out plug @ 900 psi. Release rig, turn well to production department, final report.