

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

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

2003 SEP

5 AM 11

Lease Designation and Serial No.
SF-078766

070 Farmington, NM

If Indian, Allottee or Tribe Name

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)
2315' FSL & 860' FEL, NW/4 SE/4 SEC 25-31N-06W

7. If Unit or CA, Agreement Designation

8. Well Name and No.
ROSA UNIT #218A

9. API Well No.
30-039-27421

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 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.)*

07-08-2003 MIRU, mixed spud mud. Strap & caliper collars. Spud surface hole @ 1000 hrs, 7/7/03. Drill 12-1/4" hole from 0' to 340', circulate, TOOH. RU csg crew. Run 7 jts 9-5/8", 36#, J-55, ST&C csg, landed @ 340'. Csg went to bottom w/ no problems, break circulation. RU BJ Svcs. Cmt w/ 165 sx (233 cu. ft.) Type III cmt w/ 2% CaCl & .25 #/sk Cello-Flake mixed @ 14.5 ppg, 1.41 yd, 6.84 gps water. Displaced to 300' w/ 22.8 bbls FW. Circulate 17 bbls cmt to surface, WOC. Back out landing joint. NU BOP. Test BOP to 1500 psi for 30 min, all held.

07-09-2003 TIH w/ bit #2, tag hard cmt @ 285'. Drill cmt from 285' to 340'. Drill from 340' to 1827'.

07-10-2003 Drill from 1827' to 2978, begin mud up @ 2884'.

07-11-2003 Drill from 2978' to 3060', TD well @ 0830 hrs, 07-10-03, circulate bottoms up. Slm to BHA, no drag, no adjustment to measured depth. TIH, circ bottoms up, 3' of fill when back on bottom. Drop TOTCO, LD DP & BHA. XO rams to 7", RU csg crew. Run 73 jts 7", 20#, ST&C csg to 3049' and landed w/ landing mandrel. Circulate csg, RU BJ Services, cmt cst as follows: Lead: 340 sx (711 cu. ft.) prem lite fm w/ 1% CaCl, .25% celloflake & 8% Bentonite @ 12.1 ppg, 2.09 yd. 80% excess. Tail: 50 sx (70 cu. ft.) type III w/ 1% CaCl & .25% cello flake @ 14.5 ppg, 1.4 yd. 0% excess. Displaced w/ 122 bbls fw, late pump press, 800 psi. Bumped plug @ 1115 hrs w/ 1400 psi, circ 3 bbls good cmt to sfc. Ck float, held, RD cementers. Back out landing jt & landing sub. Begin RD. Release rig @ 03:00 hrs, 7-11-03.

Continue on Back

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

Signed Tracy Ross
Tracy Ross

Title Production Analyst

Date September 10, 2003

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

ACCEPTED FOR RECORD

SEP 22 2003

FARMINGTON FIELD OFFICE

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.

NMOCD

07-31-2003 MIRU, spot in rig & equipment. RU unit. NU BOP stack, HCR's & blooie lines. RU pump & pit, light plant, SDFN

08-01-2003 Finish rigging up blooie lines, misc. equip.. Function test. BOP, top pipe rams not closing, make sure hoses hooked up properly, pull rams out & check for obstruction, grease ram blocks and put back together, top rams working properly. MU 6 1/4 bit, bit sub, PU 8 - 4 3/4 OD D.C. & TIH. Tally 2 7/8 10.4# drill pipe. PU 2 7/8 D.P. & TIH, had trouble w/ tongs, will be replaced, tag w/ jt. #87 24' in @ 2986'. Change elevators, PU 3.5 power swivel & jt. #87, get ready to drill out in AM, SWIFN.

08-02-2003 Bit @ 2957', establish circ. while replacing pad indicator. Press. Test 7" 20# csg. & 2 7/8" pipe rams to @ 2000 psi. Tag w/ jt #87 24' in @ 2986', drill out cmt, shoe jt, & csg shoe @ 3049', drilled cmt. to 3060'. Circ. returns to lined pit until hole clean. Drilling 6 1/4 hole, 90 rpm, 8000# WOB, 5 bpm, 400 psi, circ w/ clean prod. water, returns going to rig pit. Drilling @ 3169', lost valve on discharge side of rig pump, SD & repair. Drill from 3169' to 3175'. Circ hole clean. Pull up into 7" csg., bit @ 2989', SWIFN.

08-03-2003 PU 2-7/8" DP w/ power swivel, TIH, tag w/ jt #93 @ 3175', PU jt #94. Drill 6 1/4" hole from 3175' to 3320', 90 RPM, 8000# WOB, 3 BPM, 450 PSI, average ROP = 19' per hour. Circulate bottoms up. Hang swivel. LD 9 jts DP, TOO H w/ 44 1/2 stds, 8 DC's & 6 1/4" bit. RU Halliburton to run logs. Log open hole from 3320' back up into 7" csg. RD Halliburton, SWIFN.

08-04-2003 Wellhead pressure 90#. Start unit, power swivel & rig pump. Flange up stripping head. MU under reamer, TIH w/ bit sub, (8) 4-3/4" DC's & 2-7/8" DP. PU 3.5 power swivel. Under reamer @ 3060', est circulation w/ 12 bph mist, circ pressure 1350 psi, mist pump only rated to 1200 psi, shut down. Set up rig pump to pump mist. Est circ w/ 18 bph mist. Under ream from 3060' to 3120', 1150 psi, 86 rpm, 2000# wob. Circulate hole clean, pull up hole to 3025', SDFN

08-05-2003 Check fluid levels in equipment & start, pressure on csg 120#. Bleed well down, PU 3 jts w/ power swivel & TIH. Est circ w/ 18 bph mist, 1150 psi. Under ream from 3120' to 3274'. Pump 5 bbl sweep, circulate hole clean, bypass air, bleed down DP. LD 8 jts w/ power swivel, rack 3.5 swivel. TOO H w/ under reamer. MU 6 1/4" bit to 4 3/4" DC's, TIH, PU 2.5 swivel & MU to 4 3/4 D.C., close 4 3/4 pipe rams on DC just above bit, shut blind rams, pressure test HCR's to 1500 psi, bleed off press, well was SI @ 19:00 for 4 hour build. Function test HCR's, operator explain closing unit, light plant and yellow dog to air hand, open blind rams, rig crew rel. Shut in for pressure build, 2 hr SI = 225 psi, 4 hr SI = 425 psi surge, returns zero. Surge w/ air.

08-06-2003 Surge from surface w/air mist, 3/4 hr. = 800#, returns light water, light coal. Surge from surface w/air mist, 1 hr. = 1000#, returns light water, light coal. Surge from surface w/air mist, 3/4 hr. = 1000#, returns light water, light coal. Flow well, SWI, 4 hrs natural build. Travel to loc, hold safety meeting, 4 hrs SI = 400 psi, surge well, returns light water, light coal. Flow well, returns light gas. Surge from surface w/air mist, 3/4 hr = 800 psi, returns light water, light coal. Flow well, returns light gas. Surge from surface w/air mist, 1 hr = 1000 psi, returns light coal, light water. Flow well, returns light coal, light water. Surge well from surface w/air mist, ret's light coal, light water. Flow well, ret's light coal, light water, 4' high flare, turn over to night crew. Surge from surface w/air mist, 1 1/4 hrs = 1000 psi, ret's light coal, light water. Flow well natural, ret's light water. Surge from surface w/air mist, 3/4 hr = 1000 psi, ret's light coal, light water. Flow well natural, ret's gas only. Surge from surface w/air mist, 1 hr = 1000 psi, ret's light coal, light water. Flow well natural, ret's light coal, light water. Surge from surface w/air mist, 1 hr = 1000 psi, ret's light coal, light water. Flow well natural, ret's light coal, light water. Surge from surface w/air mist, 1 hr = 1000 psi, ret's light coal, light water. Flow well natural, ret's light coal, light water. Surge from surface w/air mist, 1 hr = 1000 psi, ret's light coal, light water.

08-07-2003 Flow well, ret's light coal, light water. Surge from surface w/air mist, 1 hr. = 1000 PSI, ret's light coal, light water. Flow well, ret's light gas, SWI for 4 hr natural build. Travel to loc, hold safety meeting, 4 hrs SI = 100 PSI. Flow well, ret's light water & gas. RD power swivel. TIH w/44 stds + BHA, bit @ 3020'. PU power swivel & 2-7/8" DP, tag @ 3134'. Est circulation w/ 10 bbls per hr mist, C/O to 3238', formation running coal. C/O to 3269', circulate wellbore clean. LD 6 jts, bit @ 3082'. Change pipe rams in top BOP, turn over to night crew. Bit @ 3082', surge w/air & 7bph mist @ 1000 psi, flow well after each surge.

08-08-2003 Surge w/ air mist 7 bph from 3082', SWI for 4 hr to build up. Travel to location, hold safety meeting. 4 hr SI = 60 psi, bridged off down hole. Open HCR's, establish circulation w/ 10 bph mist, CO from 3082' to 3269', formation running coal, circulate clean. LD 2 jts, bit @ 3206', coal zone @ 3190' to 3212', surge w/ air & 7 bph mist from middle of coal, 1st surge 1 hr = 800 psi, ret's extra hvy coal, 2nd surge 1 hr = 800 psi, ret's med coal, circulate clean. Pull bit to 3082', shut pipe rams & lock, turn over to night crew. Flow well natural, ret's light coal, light water. Surge w/ air mist from 3082' @ 1000 psi, circulate in between surges to clean up.

08-09-2003 Surge w/ air mist 7 bph from 3082' @ 1000 psi, circulate in between surges to clean up, SWI for 4 hr build up. Travel to location, hold safety meeting. 4 hr SI = 500 psi. Surge natural, ret's light coal, light water. CO from 3206' to 3270', circulate clean, ret's hvy coal & wtr. Blow well dry w/ air. LD 7 jts, hang swivel. TOO H, PU swivel, RU to surge from surface. Gauge well on 2" line, 3 readings 15 min apart = 10 ozs, 400 mcfd, no water. Top rams not closing on one side, pull ram blocks and inspect, but back together, still not working, manually close rams, rams leaking, unable to get good seal, release rig crew, turn over to night crew. Did 2 natural surges, 3 hrs = 490 psi, flow well 1 hr in between surges.

08-10-2003 Natural surge, 3 hr = 495 psi, ret's med coal, med water, SWI till 0700 hrs. Travel to location, safety meeting, 4 hr SI = 500 psi, surge well, ret's light coal, light wtr, flow well while fixing BOP's. Work on BOP's, got rams to close and seal. Air only break over, 1 1/4" = 850 psi, ret's light coal, lt wtr, flow well. Surge from surface, energized w/ air + 7 bph mist, pump 5 bbls pads, 1 @ start, 1 @ 300 psi & 1 @ 600 psi, 2 hrs = 1000 psi, hvy coal, hvy wtr, flow well. Natural surge, 4 hr SI = 500 psi, ret's med coal & wtr, flow well 1 hr. Surge from surface, energized w/ air + 7 bph mist, pump 5 bbls pads, 1 @ start, 1 @ 300 psi & 1 @ 600 psi, 1 hrs = 1000 psi, ret's hvy coal & wtr. SWI for natural build up, 2 hr = 350 psi.

08-11-2003 Surge from surface w/ air mist, 1 3/4 hrs = 1000 psi, ret's med coal, med water, SWI for 4 hrs natural surge. Travel to location, safety meeting, 4 hr SI = 500 psi, surge well, ret's lt wtr. Watch return line for any gas flow, well bridged off. Attempt to surge bridge out from surface, while waiting on mechanic. Continue to try to surge bridge out while mechanic changes out air compressor on rig, washed out pit wall, unable to get roustabout crew till early evening. TIH w/ 6 1/4" bit. Tag bridge @ 2907', PU power swivel, CO bridge @ 2907', 3020', 3076' & 3114' formation running coal & shale, CO to 3238'. LD 7 jts, bit @ 2989', release rig crew, turn over to night crew, flow well.

08-12-2003 Flow well natural till 0300 hrs, SIW for 4 hr build up. Travel to location, hold safety meeting. 4 hr natural build = 490 psi. Start rig, blow well down. TIH from 2989', tag fill @ 3214', C/O fill to 3270', ret's hvy coal & shale. LD 11 jts w/swivel, hang swivel, TOO H, Sierra repairing blow pit wall. Been having trouble closing top set of BOP's, RD floor, swap out BOP's, rig floor back up. RU to surge from surf, shut 4 3/4" rams on DC's, rams wouldn't pressure test, shut blind rams in top BOP, RU air to mud cross. Surge air only break over, 1 1/4 hr = 750 psi, ret's med coal, med wtr, flow natural 1 hr. Surge energized, air mist @ 7 bph, pump 3-5 bbl pads, 1 @ start, 1 @ 300 psi & 1 @ 600 psi, 1 1/2 hr = 1000 psi, ret's hvy coal & wtr, flow well natural 1 hr in between surges.

08-13-2003 Surge energized, air mist @ 7 bph, pump 3 - 5 bbl. pads, 1 @ start, 1 @ 300 psi, & 1 @ 600 psi, 1 1/2 hr. = 1000 psi, ret's hvy coal & water, flow well natural 1 hr. in between surges, SIW @ 3:00 a.m. for natural surge. Travel to location, safety meeting. 4 hr. SI = 250 psi, well partially bridged off, pump 5 bbl. water & let sit. Pressure up to 1100 psi, surge well, ret's mist only. Change 4 3/4 ram rubbers & rig up tongs while flowing well, getting gas flow w/water. Surge out bridge, continue to surge from surface w/air mist, pressuring to 750 psi, ret's med coal & water, release rig crew. Surge energized w/air mist 7 bph, pump 3 - 5 bbl. pads @ start, 300 psi, 600 psi, 1 3/4 hr. = 850 psi, ret's hvy coal & water, flow well natural, bridged off. Surge out bridge. Surge energized w/air mist 7bph, w/ 3 - 5 bbl. pads, 1 @ start, 1 @ 300 psi, 1 @ 600 psi, 2 hr = 1000 psi, ret's hvy coal & water, flow well natural for 1 hr.

08-14-2003 Well bridged off, unable to surge out bridge, SWI for natural build up. Travel to location, safety meeting. 4 hr. SI = 350 psi, start rig, surge well. TIH, tag bridge @ 2298'. Change elevators, PU power swivel. Establish circulation w/ 10 bph mist, CO bridge @ 2298', 2832' & 3056', CO to 3270', ret's hvy coal & shale, circulate clean. Pull up to 3082', shut 2-7/8" pipe rams in bottom BOP, start natural build @ 1715 hrs, install 2-7/8" pipe rams in top BOP, close top pipe rams & lock, open bottom rams, turn over to night crew for surging. 3 hr SI = 500 psi, surge well, ret's lt coal, lt wtr, flow well natural. Surge well from 3082' w/ air & 7 bph mist, 1.5 hrs = 1000 psi, ret's med coal & wtr, flow well natural.

08-15-2003 Surge well from 3082' w/ air & 7 bph mist, 1.5 hrs = 900 psi, ret's light coal & wtr, flow well natural, SWI for natural build up. Travel to location, hold safety meeting. 4 hr. SI = 525 psi. Mechanic on location to check out rig motor, blower out, call for parts, wrong parts delivered to location. Wait on parts. Replace blower on rig motor, rig running, surge from 3082' w/ air mist while repairing rig, ret's hvy coal & wtr. Surge from 3082' w/ 7 bph air mist, ret's light coal & wtr.

08-16-2003 Surge well from 3082' w/ 7 bph air mist, ret's light coal & wtr, circulate w/ air mist to clean up csg, SI for 4 hr natural build. Travel to location, hold safety meeting. 4 hr. SI = 550 psi. Start rig, surge well. CO @ 3082', couldn't make hole past 3106', LD 2 jts & circulate, CO to 3106', got stuck, worked pipe free, pull up to 3082' & circ, pump 5 bbl sweeps. CO to 3145', got stuck, worked pipe free, formation running coal & shale. Pull bit up to 3020', circulate 7" csg clean, release rig crew. Turn over to night crew, flow well natural.

08-17-2003 Flow well natural, SI for 4 hr build up. Travel to location, hold safety meeting. 4 hr. SI = 450 psi. Surge well, establish circulation w/ 15 bph mist. Cleaned out to bad spot @ 3108', got stuck, worked pipe free, continue to circulation & work pipe from 3082' to 3114' till bas spot cleaned up. Make connection @ 3314', CO to 3145', formation running coal & shale. Make connection @ 3145', CO 3175', medium coal & shale in ret's. LD 5 jts, bit @ 3020', circulate csg clean, rel rig crew. Flow well natural, evaporate reserve pit water.

08-18-2003 Flow well natural, evaporate reserve pit water. Travel to location, hold safety meeting. Start rig, establish circ w/ 10 bph air mist. Tag @ 3140', CO to 3206', got stuck, slack off & pressure up annulus, got free, continue to work pipe & circulate. Made hole to 3238', got stuck, PU to 3082' & start over, got to 3270', circulate, ret's coal & shale. Slowly lost circulation, PU to 3145', est circulation. CO back down to 3206', ret's hvy coal & shale, circulate. Stuck @ 3206', pressure annulus, PU to 3175', continue to circulate. Pull bit up to 3020', circulate csg clean, release rig crew, flow well natural & flare, evaporate pit.

08-19-2003

Recap: Flow well natural & flare, evaporate pit, SWI for 4 hr natural build. Travel to location, hold safety meeting. 4 hr. SI = 450 psi, surge well, start rig & air package. Tag @ 3110', establish circulation w/ 10 bph mist, start CO, ret's fine coal & shale, formation running coal & shale, got down to 3238', able to stay there & circulate. Work pipe from 3206' to 3238', got stuck several times @ 3238'. LD 1 jt, circulate & work pipe from 3175' to 3206', ret's real fine coal & shale. Shut off mist & blow well w/air only. LD 5 jts & hang swivel, TOOH. RU to surge from surface. Air only break over, 1.75 hr = 600psi, ret's hvy coal, plugged up blooie lines, pump out blooie lines w/rig pump, flow well natural. SWI for natural surge.

08-20-2003 SWI for natural surge, 3 hr SI = 450 psi, gas only on ret's, flow well natural 1 hr, SWI for natural build. Travel to location, hold safety meeting. 4 hr. SI = 425 psi, surge well, gas only on ret's, start rig. TIH, tongs broke. Swap out tongs, continue TIH. RD tongs, PU power swivel. Establish circulation w/ 10 bph mist. Work through bad spot @ 3108', CO to 3206', got stuck, pressure annulus, pulled up to 3175', release pressure on annulus, put air mist down DP, started unloading hvy coal & shale. Circulate till ret's slow down. Make connection @ 3206', continue to CO to 3238', slowly lost circulation, formation running coal & shale, got stuck, slack off 10k, pressure annulus, got weight back. LD 7 jts, pull 8th jt all the way up, bit @ 3020', open HCR & bleed pressure off annulus, circulate csg clean, release rig crew. Turn over to night crew, flow well natural

08-21-2003 Flow well natural till 0700 hrs. Travel to location, hold safety meeting. Start rig & air package. TIH from 3020', tag @ 3100', establish circulation w/ 8 bph mist. CO from 3100' to 3238', formation running coal & shale, at 3238' slowly losing circulation. PU to 3206', blow drill pipe dry. Bypass air, LD 7 jts, pull 8th jt up, bit at 3020', secure wellhead, release rig crew. Flow well natural & flare, evaporate pit water.

08-22-2003 Flow well natural & flare, evaporate pit water till 0700 hrs. Travel to location, hold safety meeting. Start rig & air package, put out flare. Tag @ 3108', establish circulation w/ 10 bph mist, CO to 3145', formation running real fine coal & shale. Hang power swivel, change elevators, TOOH, secure well, release rig crew. Surge natural, 1.5 hrs = 350 psi, no ret's, flow natural 1 hr, SI for 2nd natural, pump 5 bbls water.

08-23-2003 Surge natural, flow well, SWI for 4 hr build up. Travel to location, hold safety meeting. 4 hrs SI = 425 psi. Start rig, surge well, ret's gas only, flow well. MU underreamer & TIH, PU power swivel. Establish circulation w/ 15 bph mist, 850 psi, start underreaming @ 3065', worked out bad spot @ 3108', CO to 3170', formation running coal & shale, got stuck, slack off 10K, pressure annulus, got weight back. PU to 3119', surge pressure off annulus, circulate. PU to 3087', establish circulation, ream on bad spot 3082' to 3114'. PU to 3075', secure well, release rig crew. Night crew flow well natural & evaporate pit.

08-24-2003 Night crew flow well natural & evaporate pit till 0700 hrs. Travel to location, hold safety meeting. Start rig, put out flare. Establish circulation @ 3075', ream bad spot from 3089' to 3114'. Make connection, CO to 3150', formation running coal & shale. Make connection, CO to 3180', running coal & shale. Both blooie lines open, bucket test on one blooie line only, fill up 5 gallon bucket w/ solid coal & shale in 3 1/4 minutes, continue to work pipe & circulate from 3150' to 3180'. PU to 3075', circulate clean, SWI for night, release rig crew. Night crew run yellow dog & evaporate reserve pit.

08-25-2003 Well SI for night, evaporate pit. Travel to location, hold safety meeting. 400 psi on well, start rig. TIH from 3075', tag 8' in on jt #92 @ 3127'. Start 18 bph mist, pressure to 1000 psi on DP, open HCR's and blow well down. Start CO @ 3127', under ream bad spot from 3127' to 3145', formation running coal & shale, had to call for backhoe to dig coal & shale out of pit to continue cleaning out. Make connection, CO to 3181', formation running heavy coal & shale, able to maintain good circulation. TOOH w/ underreamer. TIH w/ 6 1/4" bit to 2991', SWIFN, SDFN.

08-26-2003 Well SI. 450 psi on well, blow well down, change elevators, PU power swivel & drill pipe, TIH. Tag @ 3087', est. circ. w/ 15 bph mist. CO bridge @ 3087', make connection, CO to 3145', formation started running coal & shale, circ. & work pipe. Make connection, CO to 3175', formation still running coal & shale, slowly lost circ., bypass air. LD 1 jt, pull up to 3114', got circulation back, work pipe from 3114' to 3145', still running coal & shale. Pull bit up to 3020', SIWFN. Well SI

08-27-2003 Well SI. 420 psi on csg. Backhoe dig out blow pit. TIH from 3020', PU singles w/ power swivel, tag @ 3145', establish circulation w/ 15 bph mist. Made hole to 3175', running hvy coal & shale, got stuck, LD 1 jt, work pipe from 3114' to 3145', continue to circulate. Keep circulation, mechanic on location to fix P.S. pump. Make connection, got to 3175', slowly lost ret's, PU to 3145', keep working pipe, pump sweeps. Crew change, made connection, made 10', ret's slowed, LD 1 jt, work pipe from 3114' to 3145', full ret's back, formation running coal & shale

08-28-2003 CO to 3270', formation running coal & shale, work pipe & circulate. Circulate w/ 10 bph mist, pump sweeps. Continue to circulate & pump sweeps, ret's med coal & shale.

08-29-2003 Bit @ 3270', circulate with 10 bph mist, ret's very lt coal & shale. Bypass air mist, hang swivel. LD 12 jts DP, TOO, stand back 42 stds, LD 8 DC's. RU csg crew, PU 5 1/2", 17# csg & TIH as follows: shoe, 7 jts csg, setting sleeve, land csg @ 3272'. MU liner drop off tool, RD csg crew. Change elevators, TIH, PU singles off cat walk & TIH, drop off liner, liner top @ 2952', 97' of overlap. TOO, LD DP. Wait on wireline crew. RU wireline crew. Perforate w/ 3 1/8" guns, 4 shots per foot, 3096' to 3106', 3152' to 3174', 3190' to 3214', 3248' to 3250'. SWIFN, RD perforators.

08-30-2003 Blow well down, put on stripper head, change over to run tbg. Tally 2-7/8" tbg, PU off float & TIH, tag @ 3270' w/ 100 jts, LD 2 jts, land donut in tbg hanger, tbg landed @ 3218', seating nipple @ 3186', 98 jts total in hole. ND BOP, NU WH & test to 3000 psi. Open 2" line to reserve pit, pump out aluminum plug w/ air, circulate bottoms up 200 psi. Rig down & release rig.