

In Lieu of
Form 3160
(June 1990)

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

2004 SEP 30 PM 10 24

5. Lease Designation and Serial No.

SF-07877b

6. If Indian, Allottee or Tribe Name

RECEIVED

FARMINGTON FIELD OFFICE, NM

SUBMIT IN TRIPPLICATE

1. Type of Well
Oil Well Gas Well X Other

2. Name of Operator
WILLIAMS PRODUCTION COMPANY

3. Address and Telephone No.
PO BOX 3102 MS 25-2, TULSA, OK 74101 (918) 573-6254

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1540' FSL & 1735' FEL, NW/4 SE/4 SEC 23-T31N-R06W

7. If Unit or CA, Agreement Designation

8. Well Name and No.
ROSA UNIT #213A

9. API Well No.
30-039-27687

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
X Subsequent Report
Final Abandonment

TYPE OF ACTION

Abandonment
Recompletion
Plugging Back
Casing Repair
Altering Casing
Other Completion

Change of Plans
New Construction
Non-Routine Fracturing
Wtr Shut-Off
Conversion to Injection
Dispose Wtr
(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.)*

08-07-2004 MIRU. SICP = 100 psi.

08-08-2004 SICP = 100 psi. Help Hopper Specialty repair hydraulic system on rig. Blow well down, NDWH & NUBOP's, change out upper rams to 4 3/4", caliper, tally & PU bit, bit sub & eight drill collars, PU tools, lock rams & SIWFN.

08-09-2004 Pull out 100 jts DP out of basket, TIH w/ 85 jts (2908'). Tie back on single line, RU power swivel PU 5 jts DP & tag fill @ 3055', try to break circ. but bit acted plugged. RD power swivel TOO H w/ bit, bit was not plugged, string float was not working, put in new string float. RU power swivel, lock bit in upper rams. Surge f/ surface @ 800 psi w/ one 5 bbl pad @ start & 10 bph a/s mist, rets no coal & trace wtr, flow natural for 1 hr. Surge f/ surface @ 800 psi w/ 15 bph a/s mist, rets no coal & trace wtr, flow natural for 1 hr.

Continue on Back

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

Signed Tracy Ross
Tracy Ross

Title Sr. Production Analyst

Date SEP 24 2004

(This space for Federal or State office use)

Approved by _____

Title _____

Date

Conditions of approval, if any:

ACCEPTED FOR RECORD

OCT 05 2004

FARMINGTON FIELD OFFICE
BY db

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.

NMOCB

08-10-2004 Surge ∇ surface @ 800 psi w/ 15 bph a/s mist, rets no coal & trace wtr, flow natural for 1 hr. SI well for natural build. Natural surge, no coal or wtr. RD power swivel & TTH w/ bit to 2908'. Tie back on single line, RU power swivel. PU 3 jts 2 7/8" DP & tag fill @ 2990'. Break circ. w/ 12 bph a/s mist, C/O 100' of fill ∇ 2990' to 3090', rets med coal appr. 1/2" to 3/4" in size, run two 5 bbl sweeps. LD 6 jts DP & set bit @ 2915'. CO stripper rubber & upper rams to 2 7/8", lock upper rams & turn over to night crew. Surge ∇ shoe @ 800 psi w/ one 5 bbl pad & 10 bph a/s mist, rets no coal or wtr, flow natural for 1 hr. Pressure well to 800 psi w/ one 5 bbl pad & 12 bph a/s mist, SI for 2 hrs, surge well, rets trace coal & light wtr, flow natural for 1 hr. Pressure well to 800 psi w/ one 5 bbl pad @ start & one 5 bbl pad @ 500 psi w/ 10 bph a/s mist, SI for 2 hrs, rets trace coal & light wtr, flow natural for 1 hr.

08-11-2004 Pressure well to 800 psi w/ one 5 bbl pad @ start & one 5 bbl pad @ 500 psi w/ 10 bph a/s mist, SI for 1 1/2 hrs, rets light coal & light wtr, flow natural for 1 hr. SI for natural build up. SICP = 150 psi. Start up equipment, natural surge well, light coal & trace wtr. PU 4 jts DP & tag fill @ 3000'. Break circ. w/ 12 bph a/s mist, C/O 90' of fill ∇ 3000' to 3090', rets fine to 5/8" coal, run two 5 bbl sweeps, rets light 1/4" coal. LD 6 jts DP, set bit @ shoe, lock upper rams. Pressure well @ 900 psi w/ two 5 bbl pads, one @ start & one @ 500 psi w/ 10 bph a/s mist, rets light to medium coal & light wtr, flow natural for 1 hr, (appr. 6' to 7' flare w/ med to hvy soap), turn over to night crew. SI for natural surge, 3 1/2 hr SI = 225 psi, rets med 1/2" coal & med soapy black wtr, flow natural for 2 hrs, wtr & soap flowed constant. SI for natural surge, 3 hr SI = 225 psi, rets med coal & hvy soapy wtr, flow natural for 1 hr.

08-12-2004 Surge ∇ shoe w/ 12 bph a/s mist @ 800 psi, rets med coal & light wtr, flow natural for 1 1/2 hr. SI for natural build up, 4 hr SI = 250 psi. Start up equip, natural surge, rets light to med coal & light wtr, flow natural for 1 hr. PU 2 jts DP & tag fill @ 2960'. Break circ w/ 13 bph a/s mist C/O 130' of fill ∇ 2960' to 3090', rets 1/2" to 3/4" coal, run three 5 bbls sweeps, rets hvy fine coal to light 1/2" coal. LD 6 jts 2 7/8" DP, set bit @ shoe, lock upper rams. Surge well ∇ shoe @ 900 psi w/ one 5 bbl pad & 10 bph a/s mist, rets med to hvy coal & med wtr, flow natural for 2 hrs, well flowing soapy wtr w/ fine coal for 2 hrs, turn well over to night crew. Surge well @ 900 psi w/ 12 bph a/s mist, rets hvy coal & med wtr, flow natural for 1 hr. SI for natural surge, 3 hr SI = 250 psi, rets med coal & light wtr, flow natural for 1 hr. Surge well @ 900 psi w/ 12 bph a/s mist, rets med coal & light wtr, SI for natural surge.

08-13-2004 SI for natural surge, 3 hr SI = 250 psi, rets med coal & hvy soapy wtr w/ hvy fine coal, flow natural for 4 hrs. Start up equipment, work on accumulator. PU 4 jts 2 7/8" DP & tag fill @ 3040'. Break circ. w/ 12 bph a/s mist (hvy wtr on return), C/O 50' of fill ∇ 3040' to 3090', rets med 1/8" coal, run three 5 bbl sweeps, rets light 1/8" coal. LD 6 jts DP, set bit @ shoe, lock rams. Surge ∇ shoe @ 900 psi w/ 12 bph a/s mist, rets med coal & hvy wtr, flow natural for 1 hr, flowed soap & hvy fine coal. SI for natural surge, 4 hr SI = 270 psi, rets med coal appr. 1/4" to 1/2" in size, med wtr, flow natural for 1 hr, turn over to night crew. Surge well @ 900 psi w/ one 5 bbl pad & 10 bph a/s mist, rets med coal & wtr, flow natural for 1 hr. Surge well @ 900 psi w/ one 5 bbl pad & 10 bph a/s mist, rets med to hvy coal & med wtr, flow natural for 1 hr. Surge well @ 1000 psi w/ one 5 bbl pad & 10 bph a/s mist, rets med to hvy coal & med wtr.

08-14-2004 Flow well natural, med soapy wtr & fine coal. SI for natural build up. 4 hr SICP = 390 psi. Start up equipment, natural surge, rets med coal & light wtr, flow natural for 1 hr. PU 4 jts 2 7/8" DP & tag fill @ 3040'. Break circ. w/ 12 bph a/s mist, C/O 50' of fill ∇ 3040' to 3090', rets 1/4" to 1" coal, run three 5 bbl sweeps, rets 1/4" coal. Blow well dry. LD 6 jts DP, RD power swivel, change over to double fast line. TOOH w/ bit, change out upper rams to 4 3/4", lock bit in upper rams. Gauge well on 2" open line @ 360 mc/d, all gauges dry = 5 oz. SI for natural surge, 3 hr SI = 310 psi, rets light coal & wtr, flow natural for 1 1/2 hrs. SI for natural surge, 3 hr SI = 300 psi, rets light coal & wtr, flow natural for 1 hr. SI for natural surge.

08-15-2004 SI for natural surge, 3 hr SI = 300 psi, rets light coal & wtr, flow natural for 1 hr. SI for natural build up. 4 hr SICP = 380 psi. Natural surge, rets light coal & med soapy wtr w/ fine coal. Surge well ∇ surface @ 900 psi w/ one 5 bbl pad @ start & 10 bph a/s mist, rets med coal & hvy soapy wtr w/ hvy fine coal, flow natural for 1 1/2 hrs. Surge well @ 1000 psi w/ 12 bph a/s mist, rets med coal & hvy wtr, flow natural for 2 hrs, soapy wtr & hvy fine coal ran constant. SI for natural surge, 4 hr SI = 380 psi, rets light to med coal, 1/4" to 2" in size, med to hvy wtr, flow natural for 1 hr. Surge well @ 1000 psi w/ two 5 bbl pads & 10 bph a/s mist, 1st pad @ start & 2nd pad @ 600 psi, rets hvy 1/4" coal w/ light 2" to 3" coal chunks, med to hvy wtr, flow natural for 1 1/2 hrs. Surge well @ 1000 psi w/ two 5 bbl pads & 12 bph a/s mist, pads same as above, rets med to hvy coal w/ med wtr, flow natural for 1 hr. Surge well @ 1000 psi w/ 14 bph a/s mist.

08-16-2004 Surge well, rets med coal & med soapy wtr w/ hvy fine coal, flow natural for 3 hrs, well flowed med wtr & soap to 02:30. SI for natural build up, 4 hr SICP = 420 psi. Natural surge well, rets med to hvy coal 1/4" in size & med wtr, (appr. 25' flare). Surge ∇ surface @ 1100 psi w/ one 5 bbl pad & 10 bph a/s mist, rets light to med coal & hvy wtr, flow natural for 1 hr. Pressure well to 1200 psi w/ one pad @ start, one 5 bbl pad @ 500 psi & one 5 bbl pad @ 800 psi, SI for 1 hr, surge well, rets hvy 1/2" to 2" coal & wtr, well acted to be bridged off. Pressure on well @ 700 psi to work bridge out, rets med coal & light wtr. Surge well @ 1200 psi w/ 12 bph a/s mist, rets light coal & wtr, flow natural for 1 hr, flare well (appr. 8' flare), well acts loaded up w/ wtr. SI for natural surge, 3 hr SI = 360 psi, rets light to med coal & hvy wtr, flow natural for 1 hr. SI for natural surge, 3 hr SI = 420 psi, rets light coal & med wtr, flow natural for 1 hr. SI for natural surge.

08-17-2004 SI for natural surge, 3 hr SI = 360 psi, rets hvy coal & light wtr, well acted like it bridged off, flow natural for 1 hr. SI for natural build up, 4 hr SI = 360. Start up equipment, natural surge, rets very light coal, light wtr, RD power swivel. TIH w/ bit & tag bridge @ 1980'. RU power swivel. Break circ. w/ 14 bph a/s mist, C/O 35' bridge, RD power swivel. TIH w/ bit & tag fill @ 2780', RU power swivel. Break circ. w/ 14 bph a/s mist, C/O a couple of bridges & 100' of solid fill f/ 2910' to 3010', rets hvy fine coal & med to hvy 1/2" coal, stick pipe & loose circ. @ 3000' after sweep, pressure down csg to 900 psi & pipe came free, surge csg & pull bit to 2980' & run 5 bbl sweep, C/O to 3010'. Make connection, break circ. w/ 14 bph a/s mist, C/O 80' of fill to 3090', rets 1/4" to 3/4" coal running light to med @ 3090', run three 5 bbl sweeps, rets med 1/4" coal. LD 6 jts 2 7/8" DP, set bit @ shoe, change out upper rams to 2 7/8", lock rams, turn over to night crew. Surge well f/ shoe @ 1000 psi w/ one pad @ start & one pad @ 600 psi & 10 bph a/s mist, rets med coal & wtr, flow natural for 1 hr. Surge well @ 1100 psi w/ two pads & 12 bph a/s mist, rets med to hvy coal & med wtr, flow natural for 1 hr. Surge well @ 1000 psi w/ two pads & 12 bph a/s mist, rets med to hvy coal & hvy soapy wtr, flow natural for 1 hr, soap & fine coal flowed for appr 45 mins (appr. 25' flare).

08-18-2004 Surge well @ 1000 psi w/ two pads & 12 bph a/s mist, rets med coal & hvy wtr, flow natural for 1 1/2 hrs, soap & fine coal flowed for appr. 1 1/2 hrs. SI for natural build up, 4 hr SI = 485 psi. Start up equip, natural surge, rets light coal & light wtr. PU 1 jt DP & tag fill @ 2920'. Break circ. w/ 12 bph a/s mist, C/O to 2935' & run one 4 bbl sweep, make a connection & C/O 5' & stick pipe, work pipe free & LD 1 jt DP, break circ. w/ 14 bph a/s mist, work on ledge f/ 2920' to 2935', well running light to med fine coal, work on shale ledge that appears to have broken off, circ. well clean & pull up to 2910', turn over to night crew. Flow well natural, flowing wtr until 22:20 hrs.

08-19-2004 TIH w/ret tool, tag 3' of fill. RU swivel, break circ w/air only, run two 6 bbl sweeps. Latch onto RBP @ 5615', pump 20 bbls thru RBP & free up, TOOH w/6 stands & hang up, repeat same process numerous times, blank off blooie line, pump 40 bbls produced wtr down tbg until fluid came to surface, pump 40 bbls down back side, continue out w/RBP, LD same. C/O to run 1.5" DP, well started unloading on own, put well on blooie line, turn over to flowback, flow natural & evaporate pit. Flow natural & evaporate pit, well stronger than normal, SI @ 2130 hrs, due to washed out blooie line swing.

08-20-2004 SI for natural surge, 3 hr SI = 400 psi, rets light coal & wtr, flow natural for 1 hr. SI for natural build up, 4 hr SICP = 400 psi. Natural surge, rets light coal & wtr, flow natural for 30 mins. SI for natural surge f/ surface, 3 1/2 hr SI = 400 psi, rets light coal & med wtr, flow natural for 1 hr, well flowed soapy wtr & fine coal for appr. 45 mins. SI for natural surge, 4 hr SI = 425 psi, rets light coal & med wtr, flow natural for 1 hr. SI for natural surge, 4 hr SI = 450 psi, rets light coal & med soapy wtr w/ fine coal, flow natural for 1 hr. SI for natural surge.

08-21-2004 SI for natural surge, 4 hr SI = 450 psi, rets light coal & med wtr, flow natural for 1 hr. SI for natural build up, 4 hr SICP = 480 psi. Natural surge well, rets hvy coal dust, light coal appr. 1/4" in size & light wtr, flow natural for 1 hr. Surge well f/ surface @ 900 psi w/ one 5 bbl pad @ start & 12 bph a/s mist, rets light coal & med to hvy wtr, flow natural for 1 hr, well flowed wtr for solid hr. Surge well @ 800 psi w/ two 5 bbl pads, @ start & @ 500 psi w/ 12 bph a/s mist, rets med coal & med wtr, natural flow for 1 hr. Surge well @ 800 psi w/ two 5 bbl pads & 10 bph a/s mist, rets med to hvy coal & med soapy wtr w/ hvy fine coal, flow natural for 1 hr, well flowed hvy fine coal for appr. 30 mins, turn over to night crew. Surge well @ 800 psi w/ two 5 bbl pads & 10 bph a/s mist, rets med coal & med wtr, flow natural for 1 hr. Surge well @ 1000 psi w/ two 5 bbl pads & 10 bph a/s mist, break over @ 1000 psi, rets med to hvy coal & med wtr, flow natural for 1 hr. Surge well @ 850 psi w/ 12 bph a/s mist, rets light coal & light wtr, flow natural for 1 hr. Surge well @ 1050 psi w/ 10 bph a/s mist & three 5 bbl pads, @ start, @ 500 psi & @ 800 psi, rets med coal & wtr, flow natural for 1 hr. Surge well @ 1200 psi w/ 10 bph a/s mist & three 5 bbl pads, rets hvy coal & med to hvy wtr, flow natural for 1 hr.

08-22-2004 Flow natural, making appr. 5 bph w/ bucket test. SI for natural build up, 4 hr SICP = 460 psi. Start up equipment, nat surge, light coal & trace wtr. RD power swivel. TIH w/ bit to 2910'. RU power swivel, tie back on single line. Break circ. w/ 12 bph a/s mist, tag fill @ 2930', work on ledges f/ 2920' to 2940', well running hvy coal @ 2935', work pipe & circ. well, run 5 bbl sweeps every 20 mins., C/O fill to 3090', run two 5 bbl sweeps, LD 5 jts DP & work on ledge @ 2920', hung bit up, work on ledge until bit was free, pull up to 2910'. Change out stripper rubber, lock rams, turn over to night crew. Surge well f/ shoe @ 1100 psi w/ 10 bph a/s mist & two 5 bbl pads, rets med coal & hvy wtr, follow surge w/ a/s mist, flow natural for 1 1/2 hr. Surge well @ 1000 psi w/ 10 bph a/s mist & two 5 bbl pads, rets hvy coal & wtr, flow natural for 1 hr, appr. 25' flare. Surge well @ 1100 psi w/ 10 bph a/s mist & two 5 bbl pads, rets hvy coal & med wtr, follow surge w/ a/s mist.

08-23-2004 Flow natural, well would flow med wtr off & on for 3 hrs. SI for natural build up, 4 hr SICP = 480 psi. Start up equipment, natural surge f/ shoe, rets light coal & wtr. PU 1 jt DP & tag bridge & ledge @ 2930', break circ. w/ 12 bph a/s mist, work on ledges, well running fine coal @ 2935', circ. well & run 4 bbl sweeps every 20 min, C/O to 3060' & stick pipe, well running hvy 1/4" to 1/2" coal, work pipe free & circ. well until coal quit running, C/O to 3090' run two 5 bbl sweeps. LD 6 jts 2 7/8" DP, set bit @ shoe, lock rams, pick up tools & turn over to night crew. SI well for natural surge, 3 hr SI = 420 psi, rets light to med coal & med wtr, flow natural for 1 hr, well flowed light wtr constant, appr. 20' flare. Surge f/ shoe @ 800 psi w/ 12 bph a/s mist & one 5 bbl pad, rets med coal 1/2" in size & med wtr, flow natural for 1 hr. Surge well @ 900 psi w/ 10 bph a/s mist & two 5 bbl pads, rets med to hvy coal & med wtr.

08-24-2004 Flow well natural, SI for natural build up, 4hr SICP = 450 psi, natural surge, light coal & wtr. Start up equipment, break circ. w/ 12 bph a/s mist, C/O fill f/ 2920' to 2945', very tight to 2945' acts like shale ledge has broke off, torque @ 2000 psi, work shale ledge out. C/O fill f/ 2945' to 3060', running 1/2" coal @ 3060', work pipe & run 4 bbl sweeps every 20 mins, fan belt on 1100 CFM compressor broke, circ. clean. Make connection, 26 mins to get circ. back, C/O fill f/ 3060' to 3090' w/ one air compressor, well still running light 1/2" coal, circ well for 1.25 hrs until clean. LD 6 jts DP, set bit @ shoe, lock rams, turn over to night crew. Surge well f/ shoe @ 1000 psi w/ 12 bph a/s mist & one 5 bbl pad, rets light coal & wtr, flow natural for 1 hr. Surge well @ 1100 psi w/ 10 bph a/s mist & two 5 bbl pads, rets med coal & light wtr, flow natural for 1 hr. Surge well @ 1000 psi w/ 12 bph a/s mist & two 5 bbl pads.

08-25-2004 Surge well @ 1000 psi, ret's light coal & wtr, flow nat. for 1 hr. Surge well f/ shoe @ 1000 psi w/ 10 bph a/s mist & two 4 bbl pads, rets med 1/2" coal & light wtr, flow natural for 1 hr. SI for natural build up, 4 hr SICP = 450 psi. Start up equipment; natural surge rets light coal & wtr, flow natural for 1 hr. PU 3 jts 2 7/8" DP & tag fill @ 3020', very tight spot f/ 2915 to 2945'; rotate down through tight spot @ 1800 psi on swivel, below 2945' & pipe became free. Break circ. w/ 12 bph a/s mist & C/O 70' of fill f/ 3020' to 3090', rets med fine coal to light 1/2" coal, running light 1/2" coal @ 3060', run two 5 bbl sweeps & circ well clean. Blow well dry, LD 6 jts DP, RD power swivel & change over to two lines. TOOH w/ bit, lock same in upper rams. Natural surge f/ surface, 4 hr SI = 475 psi, rets light coal & very light wtr, flow natural for 1 hr. SI for natural surge.

08-26-2004 SI for natural surge, 4 hr SI = 460 psi, rets light coal, light wtr, flow natural for 2 hrs. SI for natural build up, 4 hr SICP = 460 psi. Natural surge, rets light to med 1/2" coal & light wtr, flow natural for 1 hr. SI for natural surge, 4 hr SI = 450 psi, rets light coal & wtr, flow natural for 1 hr. SI for natural surge, 4 hr SI = 450 psi, rets light coal & med wtr, flow natural for 1 hr. Surge f/ surface @ 1200 psi w/ 10 bph a/s mist & three 5 bbl pads, 1st @ start, 2nd @ 500 psi & 3rd @ 900 psi, rets med 1/4" coal & med wtr, flow natural for 1 1/2 hrs. Surge well @ 1200 psi w/ 10 bph a/s mist & three 5 bbl pads, rets hvy coal & med wtr, flow natural for 1 1/2 hrs.

08-27-2004 Surge well @ 1000 psi w/ 10 bph a/s mist & three 5 bbl pads, rets hvy coal & med wtr, flow natural for 1 hr. SI for natural build up, 4 hr SI = 480 psi. Natural surge, rets med coal & light wtr, flow natural for 1 hr. Surge well f/ surface @ 1150 psi w/ 10 bph a/s mist & three 5 bbl pads, @ start, @ 500 psi & @ 1000 psi, rets hvy coal & shale, 1/4" to 2" in size 50/50 mix, med wtr, flow natural for 1 hr. Surge well @ 1200 psi w/ 10 bph a/s mist & three 5 bbl pads, rets med coal & hvy wtr, flow natural for 1 hr, bucket test @ 6 bph for 1 hr. SI for natural surge 3 hr SI = 420 psi, rets very light coal & med wtr, flow natural for 1 hr. Surge f/ surface @ 1100 psi w/ 10 bph a/s mist & three 5 bbl pads, rets hvy 1" coal (tried to bridge off) hvy wtr, flow natural for 1 hr. Surge well @ 1100 psi w/ 10 bph a/s mist & two 5 bbl pads, rets hvy coal & wtr, flow natural for 1 hr. Energize surge well.

08-28-2004 Energize surge well f/ surface @ 1200 psi w/ 10 bph a/s mist & three 5 bbl pads, @ start, @ 500 psi & @ 1000 psi, rets hvy coal & shale (appr. 1/4" to 2" in size) w/ hvy soapy wtr & med fine coal, flow natural for 1 hr. SI for natural build up, 4 hr SI = 500 psi. Natural surge, rets med 1/2" coal & hvy wtr, flow natural for 1 hr. Surge well f/ surface @ 1150 psi w/ 10 bph a/s mist & three 5 bbl pads, rets extra hvy coal 1/2" to 4" in size & med wtr, well bridged off. Pressure on bridge w/ 12 bph a/s mist three times @ 800 psi, 600 psi & 800 psi, last time SI pressure for 15 mins, surge well, rets med to hvy coal & shale, flowed hvy wtr for 20 mins. SI for natural surge, 4 hr SI = 500 psi, rets light coal & light wtr, flow natural for 1 hr. SI for natural surge, 4 hr SI = 500 psi, rets light coal & med wtr, flow natural for 1 hr, well flowed light soapy wtr w/ fine coal for appr. 45 mins. SI for natural surge.

08-29-2004 SI for natural surge, 4 hr SI = 500 psi, rets med coal & wtr, flow natural for 2 hrs for natural build up, 4 hr SI = 500 psi. Natural surge, rets med to hvy coal & light wtr, almost bridged off, flow natural for 1 hr. RD power swivel, change out 6 1/4" bit. TIH w/ bit to 2910'. RU power swivel, tie back to single line. Break circ. w/ 12 bph a/s mist, work on tight spot f/ 2920' to 2970', tag fill @ 3020', C/O 70' of fill f/ 3020' to 3090', rets 1/2" coal & shale 50/50 mix, work on tight spot f/ 3060' to 3090', PU to 3060' & run three 5 bbl sweeps. Blow well dry. LD 6 jts DP, set bit @ 2910'. Change out stripper rubber. Surge well f/ shoe @ 800 psi, w/ 12 bph a/s mist, rets med coal & hvy wtr, flow natural for 1 hr. Surge well @ 800 psi w/ 10 bph a/s mist & one 5 bbl pad @ start, rets med coal & hvy wtr, flow constant wtr for 1 hr. Surge well @ 850 psi w/ 12 bph a/s mist @ one 5 bbl pad, rets med to hvy 1/2" coal & med wtr, flow natural for 1 hr (appr. 25' flare).

08-30-2004 Surge well @ 800 psi w/ 10 bph a/s mist & two 5 bbl pads, rets med 1/2" coal & med wtr, flow natural for 1 hr. SI for natural build up, 4 hr SICP = 500 psi. Start up equip, natural surge, rets light coal & med wtr, flow natural for 30 mins. Break circ. w/ 12 bph a/s mist, ream on tight spot f/ 2915' to 2980', there are about ten ledges through this area that hang us up. Tag fill @ 3000', C/O 90' of 1/4" coal & shale f/ 3000' to 3090', coal running light @ 3060', run three 4 bbl sweeps, blow well dry. LD 6 jts DP & set bit @ shoe. Gauge well on 2" open line @ 514 mcfd, 2" line making wtr = 11 oz. SI for natural surge, 4 hr SI = 480 psi, rets light coal & med wtr, flow natural for 1 hr, well flowed wtr for appr. 45 mins, run bucket test @ 6 bph. SI for natural surge.

08-31-2004 SI for natural surge, 4 hr SI = 450 psi, rets med coal & wtr, flow natural for 2 hrs. SI for natural build up, 4 hr SICP = 450 psi. Start up equipment, natural surge, rets light coal & wtr, flow natural for 1 hr. TOOH w/ bit, lock same in top rams. Gauge well on 2" open line @ 550 mcfd, all gauges dry = 12 oz. SI for natural surge, 4 hr SI = 450 psi, rets light coal & wtr, flow natural for 1 hr. SI for natural surge, 4 hr SI = 450 psi, rets med coal & light wtr, flow natural for 1 hr. SI for natural surge.

09-01-2004 SI for natural surge, 4 hr SI = 420 psi, rets light coal & wtr, flow natural for 2 hrs. SI for natural build up, 4 hr SICP = 420 psi. Start up equipment, natural surge, rets light coal & wtr. RD power swivel, TIH w/ bit to 2910', tie back on single line, RU power swivel. Break circ w/ 14 bph a/s mist, work on tight ledges from 2920' to 2980', tag fill @ 3030', C/O 60' of fill from 3030' to 3090', rets 1/4" coal & shale, run 2 5 bbl sweeps. Blow well dry, RD power swivel, LD 6 jts DP, change over to 2 lines. TOOH w/ bit, lock same in top rams. Gauge well on 2" open line @ 549 mcfd, all gauges dry = 12 oz. Air only break over @ 1000 psi, slight break over, rets trace coal & light wtr, flow natural for 1 hr. Surge f/ surface @ 1200 psi w/ three 5 bbl pads & 10 bph a/s mist, rets light coal & very light wtr, did not get back the pads that were pumped w/ surge. Surge well w/ 10 bph a/s mist @ 1000 psi, rets light coal & light wtr, flow natural for 1 hr.

09-02-2004 Surge well f/ surface @ 850 psi w/ two 5 bbl pads & 10 bph a/s mist, rets light to med coal, light wtr, flow natural for 1 hr. SI for nat build up, SICP = 500 psi. Start up equip., nat surge, rets light coal & hvy wtr, flow natural for 1 hr. Surge well f/ surface @ 800 psi w/ one 5 bbl pad & 10 bph a/s mist, rets med coal & wtr, flow natural for 1 hr. Surge well @ 900 psi w/ two 5 bbl pads & 10 bph a/s mist, rets med coal & wtr, flow natural for 1 hr. SI for natural surge, 4 hr SI = 500 psi, rets light coal & med wtr, flow natural for 1 hr. Surge well @ 850 psi w/ one 5 bbl pad & 12 bph a/s mist, rets light coal & med wtr, flow nat for 1 hr, well flowed wtr for full hr. SI for natural build up, 4 hr SI = 500 psi, rets light to med coal & med wtr, flow nat for 1 hr.

09-03-2004 Surge well f/ surface @ 900 psi W/ two 5 bbl pads & 12 bph a/s mist, rets med coal & hvy wtr, flow nat for 1 hr. SI for nat build up, 4 hr SICP = 500 psi. Start up equipment, nat surge, rets med coal & wtr, flow nat for 1 hr. SI for nat surge, 4 hr SI = 480 psi, rets med coal & light wtr, flow nat for 1 hr. SI for nat surge, 4 hr SI = 460 psi, rets med coal & wtr, flow nat for 1 hr, SI well for long weekend.

09-07-2004 SICP = 650 psi, SU equip, nat surge, rets lt coal & hvy dust w/ med wtr, NF for 30 min. TIH w/bit to 2910'. RU power swivel. Break circ. w/ 12 bph a/s mist, tag fill @ 3050', C/O 40' of fill, run two 5 bbl sweeps, PU 10'. Blow well dry. LD 6 jts DP, gauge well on 2" open line @ 623 mcfd, all gauges dry = 16 oz. SIFNS, 4 hr SIP = 500 psi, rets light coal & light wtr, NF 1 hr. SIFNS, 3 hr SIP = 460 psi, rets lt coal & trace wtr, NF 1 hr. SIFNS, 2 hr SIP = 400 psi, rets trace coal med & coal dust, trace wtr, NF 1 hr.

09-08-2004 SIFNS, 2 hr SIP = 420 psi, rets trace coal & med coal dust, no wtr, NF 1 hr. SI for nat build up, SICP = 480 psi. SU equip, nat surge, rets coal dust & light wtr. Break circ. w/ 12 bph a/s mist, work on tight spot @ 2920' to 2980', C/O 40' of fill, f/ 3050' to 3090', well running med coal @ 3060', circ well & run sweeps every 20 mins. LD 6 jts DP, set bit @ shoe, PU tools, turn over to night crew. Natural flow well.

09-09-2004 Natural flow well, SU equip. Break circ w/ 12 bph a/s mist, work on tight spots @ 2920' to 2970', 3030' to 3040', running med 1/4" coal @ 3060', C/O to 3090', run four 5 bbl sweeps. LD 6 jts DP, RD power swivel, change over to 2 lines. TOOH w/ bit, LD DC's on rack, change out upper rams to 5 1/2", get ready to run liner in the A.M., SIWFN.

09-10-2004 SICP = 525 psi, blow well down. RU San Juan Csg, MU mule shoe, 6 jts 5.5" 17# N-80 csg & liner setting tool, RD csg crew. TIH w/ 5.5" liner & 85 jts 2 7/8" DP, RU power swivel, tie back to single line. Break circ w/ 15 bph a/s mist, PU DP & work liner down, liner was tight all the way to bottom, set liner bottom @ 3090', liner top @ 2861' w/ 45' overlap. RD power swivel, change over to 2 lines. TOOH w/ DP, lay down in pipe basket, BU & load out liner setting tool, SIWFN.

09-11-2004 SICP = 550 psi. CO stripper head, RU Computalog to perforate. Perforate 5.5" liner w/ 3 1/8" HSC guns, @ 4 shots per/foot, .302 charges (10 grams) 27" penetration, 1st run (2927' to 2937') & (2962' to 2972') 80 shots, 2nd run (2979' to 2999') 80 shots, 3rd run (3022' to 3032') & (3044' to 3054') 80 shots, 4th run (3064' to 3074') 40 shots, 5th run (3055' to 3065') 40 shots, 6th run (3034' to 3044') & (2941' to 2951') 80 shots, 400 total shots, all shots fired. RD perforators, change out stripper heads. Tally tbq, PU 1/4" mule shoe, 10' pup jt, SN & 100 jts 2 3/4" tbq, RU power swivel & pump out plug, unload well. Land well as follows w/ 1/4" mule shoe on bottom @ 3072', 10' pup jt, SN set @ 3062' & 100 jts 2 3/4" tbq, NDBOP's, NUWH & test to 2000 psi. Turn well to production department, release rig.