

In Lieu of  
Form 3160  
(June 1990)

UNITED STATES  
DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT

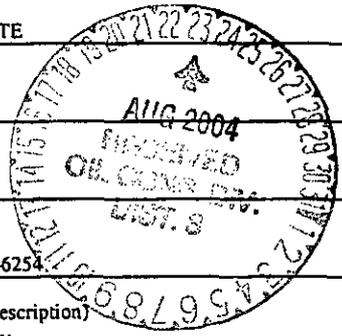
FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

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

AUG 17 AM 10:40  
RECEIVED  
070 FARMINGTON NM

- 5. Lease Designation and Serial No.  
SF-078771
- 6. If Indian, Allottee or Tribe Name
- 7. If Unit or CA, Agreement Designation
- 8. Well Name and No.  
ROSA UNIT #202A
- 9. API Well No.  
30-039-27703
- 10. Field and Pool, or Exploratory Area  
BASIN FRUITLAND COAL
- 11. County or Parish, State  
RIO ARRIBA, NM

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)  
2380' FNL & 1310' FWL, SW/4 NW/4 SEC 23-31N-06W

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

TYPE OF SUBMISSION	TYPE OF ACTION
Notice of Intent	Abandonment
<input checked="" type="checkbox"/> Subsequent Report	Recompletion
Final Abandonment	Plugging Back
	Casing Repair
	Altering Casing
	Other <u>Completion</u>
	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.)\*

06-26-2004 MIRU.

06-28-2004 SICP = 340 psi. RU to frac tank & mist pump, hook up accumulator to rig. Blow well down, pull wellhead off, put TIW in tbg hanger, NU BOP's & pull tbg hanger, NU stack & HCR valves, pull 47 jts of DP out of basket & tally DP, SDFN.

06-29-2004 SICP = 375 psi. NU blooie lines to flow pit. Tally, caliper & TIH w/ eight 4 3/4" DC's, well was unloading mud. PU 10 jts DP, put in TIW valve, SDFN.

06-30-2004 SICP = 600 psi. Blow well down. PU 37 jts DP, set bit @ 1726', RU power swivel, unload drilling mud off well, run one 5 bbl sweep. RD power swivel. TIH w/ 36 jts DP, set bit @ shoe. RU power swivel, tie back on single line, unload mud off well before going into open hole, run one 5 bbl sweep. PU 10 jts DP & tag @ 3150', PU 10' off bottom. Break circulation w/ 12 bph a/s mist, pump 4 bbl sweep every 45 mins. Flow natural for 3 hrs. SI for natural surge, 2 hr SI = 400 psi, rets trace coal, trace wtr, flow natural for 1 hr. SI for natural surge.

Continue on Back

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

Signed Tracy Ross  
Tracy Ross

Title Sr. Production Analyst

Date August 16, 2004

(This space for Federal or State office use)

Approved by \_\_\_\_\_

Title \_\_\_\_\_

Date AUG 19 2004

Conditions of approval, if any:

ACCEPTED FOR RECORD

FARMINGTON FIELD OFFICE  
BY [Signature]

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

07-01-2004 SI for natural surge, 3 hr SI = 500 psi, rets trace coal & no wtr, flow natural for 2 hrs. SI for natural build up. Natural surge, 4 hr SI = 650 psi, rets trace coal & wtr, flow natural for 45 min. PU 8 jts 2 1/4" DP, tag fill @ 3130'. Break circulation w/ 12 bph a/s mist, CO 20' of fill from 3130' to 3150', rets light coal & heavy drilling mud, work pipe & run six 5 bbl sweeps appr every 30 mins, rets light coal @ first & heavy drilling mud, last two sweeps, rets trace coal & light drilling mud. LD 9 jts DP, set bit @ 2860', change out upper rams to 2 1/2", PU tools & turn over to night crew. SI for natural surge, 2 1/2 hrs. SI = 380 psi, rets trace coal & no wtr, flow natural for 1 hr. SI for natural surge, 3 hr SI = 500 psi, rets no coal & trace wtr. SI for natural surge.

07-02-2004 SI for natural surge, 4 hr SI = 550 psi, rets trace coal & no wtr. SI for natural build up. 4 hr SI = 525 psi. Natural surge, rets no coal or wtr, flow natural for 30 mins. PU 9 jts 2 7/8" DP, tag fill @ 3130'. Break circ w/ 12 bph a/s mist, CO 20' of fill f/ 3130' to 3150', rets med coal 1/4" in size & heavy drilling mud, run five bbl sweeps every 30 mins until mud was very light. Blow well dry. LD 9 jts DP, set bit @ 2860'. SI for natural surge, 3 1/2 hr SI = 550 psi, rets trace coal & trace wtr, flow natural for 1 hr. SI for natural surge, 4 hr SI = 575 psi, rets trace coal & no wtr, flow natural for 1 hr.

07-03-2004 SI for natural surge, 4 hr SI = 550 psi, rets trace coal & no wtr, flow natural for 1 hr. SI for natural surge, 4 hr SI = 550 psi, rets trace coal & no wtr, flow natural for 1 hr. SI for natural surge, 4 hr SI = 575 psi, rets trace coal & light wtr, flow natural for 3 hrs.

07-04-2004 Overnight csg pressure = 600 psi, natural surge, rets trace coal & light wtr, flow natural for 1 hr. SI for natural surge, 3 hr SI = 475 psi, rets trace coal & trace wtr, flow natural for 1 hr. SI for natural surge, 3 hr SI = 450 psi, rets trace coal & no wtr, flow natural for 2 hrs.

07-05-2004 SICP = 675 psi. Natural surge, rets light coal & no wtr, flow natural for 30 mins. PU 9 jts DP & tag fill @ 3110'. Break circ w/ 12 bph a/s mist, CO 40' of fill f/ 3110 to 3150', rets 1/4" coal & med to hvy drilling mud, work pipe & run 5 bbl sweeps every 30 mins., by the third sweep the mud was real light. LD 9 jts DP set bit @ 2860', lock upper rams, turn over to night crew. SI for natural surge f/ shoe, 3 hr SI = 375 psi, rets trace coal & trace wtr, flow natural for 1 hr. SI for natural surge, 3 hr SI = 375 psi, rets trace coal & no wtr, flow natural for 1 hr. SI for natural surge.

07-06-2004 SI for natural surge, 3 1/2 hrs SI = 500 psi, rets trace coal & trace wtr, flow natural for 1 hr. SI for natural build up. SICP = 475 psi. Natural surge, rets no coal or wtr, flow natural for 1 hr. PU 9 jts & tag 10' of fill @ 3140'. Break circ w/ 12 bph a/s mist, CO fill, rets 1/4" coal & light drilling mud, run four 5 bbl sweeps, rets trace coal & light mud on first two sweeps, rets on last two sweeps were wtr. LD 8 jts DP, RD power swivel, change over to two lines, change out elevators. TOOH w/bit, change out upper rams to 3/4", lock collar in upper rams. PU tools, turn over to night crew. Surge f/ surface @ 550 psi, w/one four bbl pad & 10 bph a/s mist, rets trace coal & light wtr, flow natural for 1 hr. Surge f/ surface @ 600 psi, w/one 4 bbl pad @ start & 10 bph a/s mist, rets no coal & light wtr, flow natural for 1 hr. Surge f/ surface @ 600 psi, w/one 5 bbl pad & 10 bph a/s mist, rets trace coal & light wtr, flow natural for 1 hr. Surge f/ surface @ 640 psi, w/one 4 bbl pad & 10 bph a/s mist, rets trace coal & light wtr, flow natural for 1 hr.

07-07-2004 Surge f/ surface @ 600 psi, w/one 4 bbl pad @ start & 10 bph a/s mist, rets trace coal & light wtr, flow natural for 2 hrs. SI for natural build up. 4 hr SI = 500 psi. Natural surge, rets trace coal & light wtr, flow natural for 1 hr. Surge f/ surface w/one 4 bbl pad & 10 bph a/s mist @ 700 psi, rets trace coal & light wtr, flow natural for 1 hr. Work on power swivel (fix packing). Surge w/ 12 bph a/s mist @ 700 psi, rets trace coal & light wtr, flow natural for 1 hr. SI for natural surge, Sierra had to fix bloole line & concrete slabs in flowback pit, 4 hr SI = 480 psi, rets light coal & wtr, flow natural for 1 hr, turn over to night crew. Surge f/ surface @ 700 psi w/one 4 bbl pad @ start & 10 bph a/s mist, rets trace coal & light wtr, flow natural for 1 hr. Surge @ 500 psi w/ 12 bph a/s mist, rets trace coal & light wtr, flow natural for 1 hr. Surge @ 700 psi w/ 12 bph a/s mist, rets light coal & wtr, flow natural for 1 hr.

07-08-2004 Surge from surface @ 700 psi w/one 5 bbl pad & 10 bph a/s mist, rets trace coal & light wtr, flow natural for 2 hrs. SI for natural build up. SICP = 470 psi. Natural surge, rets light coal & light to med wtr, flow natural for 1 hr. Surge f/ surface @ 700 psi w/ 12 pbh a/s mist, rets trace coal & light wtr, flow natural for 1 hr. TIH w/ bit to 2860' (shoe), tie back on single line, change out upper rams to 2 7/8". PU 6 jts DP, tag fill @ 3100', LD 6 jts & set bit @ shoe (2860'), lock upper rams. Pressure well @ 700 psi w/one 5 bbl soap pad @ start, SI well for 1 hr, rets trace coal & light wtr, flow natural for 45 mins, turn over to night crew. Surge well w/ 12 bph a/s mist @ 900 psi, rets trace coal & light wtr, flow natural for 1 hr. Surge well @ 900 psi, w/ 3 energized pads & 10 bph a/s mist, rets light coal & wtr, flow natural for 1 hr. Surge well @ 900 psi w/ 10 bph a/s mist, SI well for 2 hrs, surge well, rets light coal & wtr, flow natural for 1 hr.

07-09-2004 Pump 5 bbl soap pad, pressure well @ 900 psi w/ 10 bph a/s mist, SI well for 1 hr, surge well, rets light coal & wtr, flow natural for 1 hr. SI for natural build up. SICP = 450 psi. Natural surge, rets light coal & wtr, flow natural for 1 hr. Surge well f/ shoe @ 1100 psi w/ one 5 bbl pad @ start & 10 bph a/s mist, rets light coal & med black wtr, flow natural for 30 mins. PU 5 jts DP off pipe rack & tag fill @ 3005'. Break circ w/ 12 bph a/s mist, CO 46' of fill f/ 3005' to 3051', rets heavy coal appr. 1/4" to 3/4" in size, run four 5 bbl sweeps, rets med to hvy coal & thick black wtr on 1st two sweeps, light to med coal on last two sweeps. LD 5 jts DP, set bit @ 2860', lock upper rams. Surge f/ shoe @ 1000 psi w/ 12 bph a/s mist, rets trace coal & light wtr, flow natural for 1 hr, turn over to night crew. Surge well @ 1000 psi w/ one 5 bbl pad @ start & 10 bph a/s mist, rets light coal & wtr, flow natural for 1 1/2 hrs. Surge well @ 1000 psi w/ one 5 bbl pad @ start & 10 bph a/s mist, rets med coal & med black wtr, flow natural for 1 1/2 hrs. Surge well @ 880 psi, ( looks like a break over on the chart ) w/ one 5 bbl pad @ start & 10 bph a/s mist, rets hvy coal & hvy black wtr, flow natural for 1 1/2 hrs.

07-10-2004 Flow well, still bringing hvy soap & wtr. Pressure well @ 1000 psi w/ one 5 bbl pad @ start & 10 bph a/s mist, SI for 30 mins to soak, surge well, rets hvy coal & hvy black wtr, flow natural for 1 hr. SI for natural build up. SICP = 370 psi. Natural surge, rets med coal & light black wtr. PU 2 jts DP & tag fill @ 2921'. Break circ w/ 13 bph a/s mist CO 130' of fill f/ 2921' to 3051', rets hvy coal 1/4" to 1" in size, run three 4 bbl sweeps w/ each joint. Shut down mist pump & blow well dry. LD 6 jts DP, change over to two lines. TOOH w/ DP, change out rams to 4 3/4", TOOH w/ collars & bit, lock same in upper rams. Air only break over @ 1180 psi, rets trace coal & med thick black wtr, flow natural for 30 mins. SI for natural surge, 2 hr SI = 340 psi, rets trace coal & no wtr, flow natural for 1 hr. SI for natural surge.

07-11-2004 SI for natural surge, 3 hr SI = 280 psi, rets trace coal & no wtr, flow natural for 2 hrs. SI for natural build up. 4 hr SI = 340 psi. Natural surge, rets light coal & light wtr, flow natural for 1 hr. SI for natural surge, 4 hr SI = 340 psi, rets light coal & very light wtr, flow natural for 1 hr. SI for natural surge, 4 hr SI = 380 psi, rets trace coal no wtr, flow natural for 1 hr. Surge f/ shoe @ 1000 psi w/ one 4 bbl pad @ start & one 4 bbl pad @ 500 psi & 8 bph a/s mist, rets no coal & very light wtr, flow natural for 1 1/2 hrs. SI for natural surge.

07-12-2004 SI for natural surge, 5 hr SI = 480 psi, rets light coal & wtr, flow natural for 1 hr. SI for natural build up. SICP = 425 psi. Natural surge, rets light coal & very light wtr, flow natural for 1 hr. RD power swivel. TIH w/ bit to shoe (2860'). RU power swivel, tie back to single line. PU 3 jts 2 7/8" DP & tag fill @ 2970'. Break circ w/ 12 bph a/s mist, rets hvy thick black wtr, CO 85' of fill f/ 2970' to 3055', rets 1/4" to 3/4" coal, & thick black wtr, run three 4 bbl sweeps after each jt. LD 6 jts DP set bit @ 2860', change out to 2 7/8" rams, lock upper rams, turn over to night crew. Surge f/ shoe w/ 8 bph a/s mist @ 900 psi, rets trace coal & trace wtr, flow natural for 1 hr. Surge f/ shoe w/ 8 bph a/s mist @ 1000 psi, rets trace coal & wtr, flow natural for 30 mins. Surge well w/ 10 bph a/s mist @ 1000 psi, rets light coal & trace wtr, flow natural for 1 hr. Surge well w/ 10 bph a/s mist & one 5 bbl pad @ 1000 psi, rets light coal & wtr, flow natural for 1 hr. Surge well @ 1100 psi w/ 10 bph a/s mist & two 5 bbl pads, one @ start & one @ 500 psi, rets light coal & wtr, flow natural for 1 hr.

07-13-2004 Surge well @ 1000 psi w/ 10 bph a/s mist & two 5 bbl pads, one @ start & one @ 500 psi, rets light coal & wtr, flow natural for 2 hrs. SI for natural build up. SICP = 500 psi. Natural surge f/ shoe, rets trace coal & wtr. Surge f/ shoe @ 1000 psi w/ 10 bph a/s mist & two 5 bbl pads, @ start & @ 500 psi, rets light coal & very light wtr, flow natural for 30 mins. PU 3 jts 2 7/8" DP & tag fill @ 2980'. Break circ w/ 12 bph a/s mist, CO 75' of fill f/ 2980' to 3055', rets 1/8" coal, run three 5 bbl sweeps. Blow well dry. LD 6 jts DP, lock upper rams. Air only break over @ 1080 psi, rets trace coal & light wtr, turn over to night crew. Surge f/ shoe @ 1080 psi w/ one 5 bbl pad & 10 bph a/s mist, rets trace coal & light wtr, flow natural for 1 hr. Surge well @ 1000 psi w/ two energized pads & 10 bph a/s mist, rets light coal & med black wtr, flow natural for 1 hr. Surge well @ 900 psi, w/ 12 bph a/s mist, rets light coal & light wtr, flow natural for 1 hr. Surge well @ 1050 psi w/ one 5 bbl pad & 10 bph a/s mist, rets light to med coal & light black wtr. Surge well f/ shoe. Nat surge, PU DP & CO fill, run sweeps, TOOH, pilot well, surge f/ surface.

07-14-2004 Flow natural. Surge f/ shoe w/ 12 bph a/s mist @ 1000 psi, rets light coal & wtr, flow natural for 45 mins.. SI for natural build up. SICP = 480 psi. Natural surge, rets trace coal & light wtr, flow natural for 1 hr. PU 1 jt DP & tag fill @ 2905', change out stripper rubber. Break circ w/ 12 bph a/s mist, CO 160' of fill f/ 2905' to 3065', rets 1/8" to 1/4" coal & trace shale, run two 4 bbl sweeps after each jt, rets light 1/8" coal. Blow well dry. TOOH w/ bit, change out upper rams to 4 3/4", lock bit in upper ram. Replace 2" hose w/ steel line f/ pump to stand pipe, turn over to night crew. Try an air only break over @ 1100 psi, rets trace coal & wtr. Surge well @ 850 psi w/ one 5 bbl pad & 10 bph a/s mist, rets light coal & med wtr, flow natural for 1 hr. Surge well @ 900 psi w/ two 5 bbl pads & 10 bph a/s mist, rets light to med coal & med wtr, flow natural for 1 hr.

07-15-2004 Surge well @ 1000 psi w/ two 5 bbl pads & 10 bph a/s mist, rets light to med coal & med wtr, flow natural for 2 hrs. SI for natural build up. SICP = 480 psi. Natural surge, hvy coal dust & light coal, no wtr. SI for natural surge, 4 hr SI = 460 psi, rets light coal & trace wtr, flow natural for 1 hr. Pump 10 bbl pad w/ 10 bph a/s mist @ 1000 psi, SI & soak for 4 hrs, surge well, rets hvy coal & med wtr, flow natural for 1 hr. Pump 10 bbl pad w/ 10 bph a/s mist @ 1200 psi, SI & soak for 3 hrs, surge well, rets hvy coal & wtr.

07-16-2004 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. SI for natural build up. SICP = 400 psi. Natural surge f/ surface, rets hvy coal appr. 1/2" in size & med black wtr, flow natural for 1 hr. SI for natural surge, 4 hr SI = 380 psi, rets med coal & wtr, flow natural for 1 hr. SI for natural surge, 4 hr SI = 350 psi, rets hvy coal & med wtr, hvy soap for 20 mins, flow natural for 1 hr. SI for natural surge, 4 hr SI = 350 psi, rets hvy coal appr 1/4" in size & med wtr, flow natural for 1 hr. SI for natural surge.

07-17-2004 SI for natural surge, 3 hr SI = 280 psi, rets med coal & wtr, flow natural for 1 hr. SI for natural build up. SICP = 280 psi. Natural surge, rets light 1/4" coal & hvy coal dust. RD power swivel. TIH w/ bit & tag fill @ 2810'. RU power swivel & tie back on single line. Break circ w/ 14 bph a/s mist, CO 245' of fill, rets 1/2" coal & trace shale, run four 5 bbl sweeps, rets med to light coal, blow well dry. LD 6 jts DP, set bit @ 2875' change out rams to 2 7/8". Surge f/ shoe @ 900 psi w/ one 5 bbl pad & 10 bph a/s mist, rets light coal & wtr, flow natural for 1 1/2 hrs. Surge well @ 900 psi w/ one 5 bbl pad & 10 bph a/s mist, rets med coal & light wtr, flow natural for 1 hr. Surge well @ 900 psi w/ 10 bph a/s mist & two 5 bbl pads, one @ start & one @ 500 psi, rets med coal & light wtr, flow natural for 1 hr. Surge well @ 1080 psi w/ 10 bph a/s mist, rets trace coal & light wtr, flow natural for 1 hr.

07-18-2004 Surge well @ 1080 psi w/ 10 bph a/s mist, rets trace coal & light wtr, flow natural for 2 hrs. SI for natural build up. SICP = 425 psi. Natural surge, trace coal & light wtr, flow natural for 30 mins. PU 2 jts DP & tag fill @ 2924'. Break circ w/ 14 bph a/s mist, CO fill to 2940' & well is running hvy pepper like coal, run appr six 5 bbl sweeps f/ 2936' & work pipe until coal cleaned up. Make a connection & CO med 1/2" coal & hvy fine coal f/ 2940' to 3065', run five 5 bbl sweeps. Blow well dry. LD 6 jts DP, RD power swivel, Change over to two lines. TOOH w/ bit, change out rams to 4 3/4", lock bit in upper rams. SI for natural surge f/ surface, 4 hr SI = 380 psi, rets light coal & light to med wtr, flow natural for 1 hr. SI for 4 hr natural surge.

07-19-2004 SI for natural surge, 4 hr SI = 400 psi, rets trace coal & wtr, flow natural for 1 hr. SI for natural build up. SI = 400 psi. Natural surge, rets light 1/16" size coal & light wtr, flow natural for 1 hr. SI for natural surge, 4 hr SI = 400 psi, rets trace to light coal & light wtr, flow natural for 30 mins. Surge f/ surface @ 1000 psi w/ three 5 bbl pads, @ start, @ 500 psi & @ 800 psi, w/ 10 bph a/s mist, mixed soap 3 gallons to 10 bbls wtr, rets hvy fine coal & hvy soap, flow natural for 1 1/2 hrs, rets w/ flow brought out hvy fine coal & soap constant. Surge well @ 800 psi w/ 3 energized pads & 10 bph a/s mist, soap mixed @ 1/2 gallon soap per 10 bbl wtr, rets hvy coal & wtr, flow natural for 1 1/2 hrs, rets on flowback hvy soap w/ hvy fine coal. SI for natural surge, 4 hr SI = 450 psi, rets med coal 1/4" to 1/2" in size & med soap & wtr, flow natural for 1 hr, rets on flow back, hvy soap & hvy fine coal. SI for natural surge.

07-20-2004 SI for natural surge, 4 hr SI = 460 psi, rets med 1/4" coal & hvy soap & wtr w/ hvy fine coal in soap. SI for natural build up. SICP = 480 psi. Natural surge, rets med coal & med soap w/ hvy fine coal. Surge f/ surface @ 1300 psi w 10 bph a/s mist 2 gallons to 10 bbls soap, w/ three 5 bbl pads, @ start, @ 500 & @ 1000 psi, rets hvy coal & wtr, well bridged off. Pressure well @ 800 psi three times & release to try & work bridge out. RD power swivel. TIH w/ DC's & DP, tag & CO bridges, TOOH, LD DP & DC's. RU power swivel & PU singles & CO appr. 8 more bridges & appr. 210' of solid fill, run 5 bbl soap sweeps, rets hvy fine coal to med 1/4" to 2" size coal. Flow well natural.

07-21-2004 Flow well natural. SI for natural build up. SICP = 480 psi. Natural surge f/ shoe, rets med coal appr. 1/4" in size & flow light wtr for 1 hr. Break circ. w/ 14 bph a/s mist, CO 200' of fill f/ 2870' to 3070', work on shale ledges @ 2900' & 2940', rets hvy shale & coal mix, run three to four 5 bbl sweeps before each connection, blow well dry for 45 mins. LD 6 jts DP, set bit @ 2885', change out rams to 2 7/8", lock upper rams, turn over to night crew. Surge well f/ shoe @ 800 psi w/ one 5 bbl pad & 10 bph a/s mist, rets med coal & light wtr, flow natural for 1 hr, (well flowed light wtr for appr. 30 mins.). Surge well @ 800 psi w/ one 5 bbl pad & 12 bph a/s mist, 3 gallons per 10 bbls mix, rets med 1/4" coal & hvy fine coal, w/ light wtr, flow natural for 1 hr. SI well for natural surge.

07-23-2004 SI for natural surge, 2 hr SI = 425 psi, rets light to med coal & light wtr, flow natural for 1 hr. SI for natural build up. SICP = 550 psi. Natural surge, rets med coal & light wtr. SI for natural surge f/ shoe, 4 hr SI = 500 psi, rets med coal appr. 1/4" to 1/2" in size & light wtr. Surge f/ shoe @ 900 psi w/ two 5 bbl pads & 10 bph a/s mist, rets med to hvy coal & med wtr, follow surge w/ 10 bph a/s mist for 20 mins., rets w/ mist med 1/2" to 2" coal & light shale; flow natural for 1 hr. Surge f/ shoe @ 800 psi w/ two 5 bbl pads & 10 bph a/s mist, rets med coal & hvy shale w/ med wtr, follow surge w/ air for 20 mins, flow natural for 1 hr. SI for natural surge, 2 hr SI = 350 psi, rets med coal & shale & hvy wtr, follow surge w/ air, rets med coal & light wtr, flow natural for 1 hr. Surge well @ 800 psi w/ one 5 bbl pad & 10 bph a/s mist, rets ex. hvy coal & shale & hvy wtr, follow surge w/ a/s mist, well started to bridge, 1300 psi on booster to break bridge, flow natural for 45 mins. Surge well @ 700 psi w/ two 5 bbl pads & 10 bph a/s mist, rets med coal & shale & med wtr, follow surge w/ a/s mist, flow natural for 45 mins.

07-24-2004 SI for natural surge, 2 hr SI = 450 psi, rets hvy coal & hvy wtr, follow surge w/ a/s mist, flow natural for 1 hr. SI for natural build up. SICP = 550 psi. Natural surge, rets hvy coal & med wtr, flow natural for 30 mins. PU 1 jt DP & tag fill @ 2900'. Break circ w/ 14 bph a/s mist, CO 79' of fill f/ 2900' to 2979', work on shale ledges @ 2900' & 2940' rets hvy coal & shale mix, run five 5 bbl sweeps to clean up shale, make connection & CO to 2979', work pipe & run sweeps, rets hvy coal & shale mix. LD 3 jts 2 7/8" DP, DP hung up @ 2940', work through tight spot, set bit @ 2885'. Flow well natural.

07-25-2004 Flow well. SI for natural build up. SICP = 525 psi. Natural surge well, rets med coal & shale, & light wtr. PU 1 jt DP & tag fill @ 2900'. Break circ. w/ 14 bph a/s mist, shale ledge @ 2900', shale & coal running hvy, run sweeps every 15 to 20 mins. CO to 2917' rets hvy coal & shale running appr. 50 / 50, pump 5 bbl sweep every 15 to 20 mins to CO running fill, slowed down appr. 15:30 hrs, circulate for 30 mins. LD 1 jt DP, lock upper rams, turn over to night crew. Flare well overnight.

07-26-2004 Flare well overnight. PU 1 jt 2 7/8" DP & tag fill @ 2900'. Break circ. w/ 14 bph a/s mist, work on shale ledge @ 2900', run two 5 bbl sweeps, CO fill to 3000'. PU DP & CO to 3070', well running hvy coal & shale, run 5 bbl sweep every 20 mins until well is clean, blow well dry. LD 6 jts DP on rack, pull 5 stds DP & shut HCR valves & lock rams, flow well.

07-27-2004 Flow well. TOOH w/ bit, change out rams to 4 3/4", lock bit in upper rams. Natural surge f/ surface, 4 1/2 hr SI = 410 psi, rets lt. coal & lt. wtr, flow natural for 1 hr. Natural surge f/ surface, 4 hr SI = 420 psi, rets gas only, flow nat. 1 hr. Natural surge f/ surface.

07-28-2004 Nat. surge cont., 3 hr SI = 400 psi, ret's lt. coal, no water, flow nat. 1 hr, SIW for 4 hr nat. build. 4 hr SI = 420 psi, ret's lt. dust, flow nat. Surge f/surface w/ 15 bph mist, 1 hr SI = 800 psi, ret's, lt. coal, hvy water, flow nat. 1 hr. Nat. surge f/surf, 3 hr SI = 400 psi, ret's lt. coal, lt. mist, flow nat. 1 hr. Nat. surge f/surf, 3 hr SI = 400 psi, ret's lt. coal, lt. mist, flow nat. 1 hr. Nat. surge f/surf, 3 hr SI = 480 psi, ret's lt. coal, lt. mist, flow nat. 1 hr.

07-29-2004 Nat. surge cont., 3 hr SI = 390 psi, ret's lt. coal, lt. water, flow nat. 1 hr, SIW f/ 4 hr nat. build. 4 hr SI = 350 psi, ret's lt. dust. TIH w/ 6 1/4" bit. Tie back single line, RU power swivel. Est. circ. w/ 15 bph mist @ shoe - 1 hr, st. cleaning out, running shale w/ lt. coal fines 60' below 7" shoe. Pull up to shoe, flow well nat.

07-30-2004 Flow well natural. PU 1 jt DP & tag fill @ 2900'. Break circ. w/ 14 bph a/s mist, CO 90' of fill from 2900' to 2990', rets hvy coal & shale running, appr. 1/4" in size & 60% shale to coal, run sweeps every 20 mins. & between connections. LD 3 jts DP, flow well natural.

07-31-2004 Flow well natural. PU 1 jt 2 7/8" DP & tag fill @ 2900'. Break circ. w/ 14 bph a/s mist, CO ' of fill 115' of fill, f/ 2900' to 3015', rets hvy 1/4" coal & fine pepper size coal running constant, work pipe & run 4 bbl sweeps every 20 mins. & between connections. Pull up to shoe, flow well natural.

08-01-2004 Flow well natural. PU 2 jts 2 7/8" DP & tag fill @ 2945'. Break circ. w/ 15 bph a/s mist, CO 65' of fill f/ 2945' to 3010', rets 1/8" hvy coal & running pepper size coal constant, run 5 bbl sweeps every 20 to 30 min. & between connections, circ. well w/ 14 bph a/s mist. LD 4 jts DP & set bit @ shoe. Flow well natural.

08-02-2004 Flow well natural. PU 2 jts 2 7/8" DP & tag fill @ 2960'. Break circ. w/ 15 bph a/s mist, C/O bridge @ 2960', tag solid fill @ 2995', C/O 77' of fill f/ 2995' to 3072', rets medium 1/8" in size running coal & shale, 50/50 coal to shale mix, hvy 1/8" to 1/2" coal & shale f/ 3046' to 3072', run sweeps & work pipe, circ. well clean. Blow well dry. LD 6 jts DP, set bit @ shoe, PU tools & flow well natural.

08-03-2004 Flow well natural. PU 2 jts DP & tag small bridge @ 2946'. Break circ. w/ 15 bph a/s mist, C/O several small bridges & 45' of solid fill f/ 3027' to 3072', rets medium running coal & shale appr. 80% coal to shale mix, 1/8" to 1/2" in size, run sweeps, work pipe & circ. well clean. Blow well dry. LD 6 jts DP & set bit @ shoe, flow well natural.

08-04-2004 Flow well natural. PU 2 jts DP & tag tight spot @ 2940'. Break circ. w/ 14 bph a/s mist, work on tight spot @ 2940' & 2990', rets med coal & shale 1/8" in size, run sweeps & work pipe through tight spots, tag solid fill @ 3025', C/O fill to 3072', run sweeps & circ. well clean. LD 6 jts DP, set bit @ shoe, flow well natural.

08-05-2004 Flow well natural. PU 1 jt DP & tag ledge @ 2900', break circ. w/ 15 bph a/s mist, work on ledges f/ 2900' to 3010', rets medium coal & shale, C/O 40' of fill f/ 3032' to 3072', rets medium coal appr. 1/2" in size, run two 5 bbl sweeps. LD 6 jts 2 7/8" DP. RD power swivel, TOO H w/ bit, stand collars back. RU csg crew, change out upper rams to 5.5", tally & run 7 jts 5.5", 17#, N-80 csg landed @ 3069', TOL @ 2800'. TOO H, SDFN, turn over to night crew.

08-06-2004 TOO H w/ DP, LD DP in pipe basket, break out & load out TIW's liner tool. RU perforators, perforate 5.5" liner w/ 3 1/8" HSC guns, 0.45" hole, 17" pen, 12 gram charges @ 4 shots per foot, 1st run, (3040' to 3060') 80 shots, 2nd run, (3020' to 3040') 80 shots, 3rd run (2940' to 2960') 80 shots, 4th run (2920' to 2940') 80 shots, 5th run (2900' to 2920') 80 shots, 6th run (2890' to 2900') 40 shots, 440 total shots all shots fired. RD perforators, change out stripping heads. Shut & lock pipe rams, SDFN.

08-07-2004 SICP = 500 psi. Blow well down. TIH w/ 98 jts 2 3/4", 6.5#, J-55 tbg landed @ 3047' as follows: 1/2" mule shoe on bottom, 10' pump jt, 2.25" SN @ 3037', 97 jts tbg, 10' pup jt & 1 jt tbg. RU power swivel & pump out plug @ 500 psi & unload fluid off of well. RD power swivel. ND BOP's & NUWH & test to 3000 psi, tested good. Release rig, turn well to production department.