

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.

070 Farmington, NM

SUBMIT IN TRIPPLICATE

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)  
1450' FNL & 1140' FWL, SW/4 NW/4 SEC 8-31N-06W

5. Lease Designation and Serial No.  
SF-078765

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
ROSA UNIT #224A

9. API Well No.  
30-045-31633

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

11. County or Parish, State  
SAN JUAN COUNTY, 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.)\*

08-28-2003 MIRU, drill MH/RH. Drill 12 1/4" surface hole from 0' to 101'. Single shot survey @ 101' 1/2 degree @ 342.7' degrees directional. Drill 12 1/4" surface hole from 101' to 330'. Circulate, survey, RU csg crew, run 7 jts 9-5/8" csg to 330'. RU BJS, cmt as follows: 175 sxs (44 bbls) Type III w/ 2% CaCl & 1/4 #/sk celloflake @ 1.41 yld, 14.6 ppg. Displaced to 305' w/ 23.5 bbls FW. Circulate 22 bbls cmt to surface, left SI w/ 100 psi. WOC, back out landing jt, NU BOP.

08-29-2003 NU BOP, change out valve on BOP, finish NU BOP. Test BOP & csg, test witnessed by BLM. PU directional tools & orient. TIH, tag cmt @ 290', drill cmt. Directionally drill (slide & rotate) from 330' to 1268'. Kick off @ 400'. Slide for 6' to 8' per jt. Pump 420 GPM after burying DC's.

08-30-2003 Directionally drill from 1268' to 2758'.

08-31-2003 Directionally drill from 2758' to 3112' (MD), 2975' (TVD). TD well @ 1630 hrs. Circulate, short trip to DC's, 25' of fill when back on bottom. Circulate, raise Vis from spotty 36-50 to 50 all the way around. LDDP & BHA. RU csg crew. Run 68 jts 7", 20# csg, landed @ 3112', insert baffle @ 3064'. RU BJS & cmt as follows: pump 10 bbls FW spacer ahead. Lead: 360 sxs (140 bbls) PREM LITE FM w/ 1% CaCl, .25 #/SK Celloflake + 8% Bentonite mixed @ 12.1 PPG, 2.08 yld. Tail: 50 sxs Type III w/ 1% CaCl & .25 #/SK Celloflake @ 14.5 PPG, 1.4 yld. Displace w/ 124 bbls FW. Late pump pressure = 730 psi. Bump plug w/ 1200 psi @ 04:20 hrs. Circulate 74 bbls cmt to surface. Check float, held. RD BJS. ND BOP.

Continue on Back

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

Signed Tracy Rose  
Tracy Ross

Title Production Analyst

Date December 5, 2003

(This space for Federal or State office use)

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

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

ACCEPTED FOR RECORD

DEC 11 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

09-01-2003 ND BOP, release rig @ 1100 hrs, 8/31/03.

10-30-2003 MIRU, NU BOP, RU blooie line

10-31-2003 NU BOP, RU blooie line & 3 choke lines to blow pit. Welder modified lines for secondary blooie line. Blooie lines to pit & anchored. Test BOP, choke manifold & csg to 1500 psi hi/ 250 low. Pipe rams in #3 would not hold. TIW valve would not hold. While WO parts from town, moved DC's over to racks. Hold safety meeting prior to PU DC's. Rig service, PU DC's & TIH.

11-01-2003 TIH w/DP, hold safety meeting & service rig. TIH, pull DP baskets & put on racks, strap. TIH, RU power swivel. Blank blooie line & RU flow line to drill w/ Coal water. Drill cmt, tag cmt @ 3030', float collar @ 3058', float shoe @ 3106'. Drill new Formation from 3106' to 3133'. Drill Fruitland Coal from 3133' to 3261'.

11-02-2003 Drill Fruitland Coal from 3261' to 3288'. TD 6 1/4" hole @ 1000 hrs, 10/31/03. Circulate @ TD. LD 7 jts of DP, TOOH, MU Weatherford 5 3/4" x 9 1/2" under reamer, BS, 4-3/4" SS & 5 stds DC's, TIH to 3114', swivel up. Under ream 6 1/4" to 9 1/2" from 3114' to 3276', TOOH, LD under reaming assembly. Change over to air, RU, pull plug on blooie line. RD flow line to shaker. PU bit & TIH to 1500', test air lines to 1500 psi. Unload hole @ 1500', air press to 650 psi before unloading.

11-03-2003 Unload hole @ 1500', air press to 650 psi before unloading. TIH to csg shoe, swivel up, unload hole @ shoe, pressure to 600 psi before unloaded. CO open hole from 3102' to 3286', small bridges @ 3197' & 3270'. Medium volume of coarse sand sized (very small aquarium gravel) coal back @ blooie line. Filled 1/2 of a 5 gal bucket/hr @ sample catcher. Cut mist to well, CO for 45 more minutes allowing well to dry up. Trip to shoe, LD 6 jts. SI for surge #1, natural build to 80 psi in 4 hrs. Release surge, flow to pit, no coal or water to surface, 5' - 6' lazy flare. SI for surge #2, natural build to 80 psi in 5 hrs. Release surge, flow to pit, no coal or water to surface, 5'-6' lazy flare w/ more blue methane flame than on release #1. SI for surge #3. #3 will be final natural surge before going to air assisted surges.

11-04-2003 Finish 4 hr SI on surge #3, pressure build to 94 psi, release & flow for 1 hr. Surge #4 air assisted, build to 810 psi, release gas to sfc in 10-12 min, 5-6' lazy flare, no coal or wtr to surface. Surge #5 natural, 4 hrs SI, build to 94 psi, release & flow 45 min, 5-8' lazy flare. Surge #6 natural, 4 hrs SI, build to 94 psi, release & flow 60 mins, 6-8' lazy flare, no coal or wtr to surface. Surge #7 natural, 4 hrs SI, build to 100 psi, release & flow 30 min, 6-8' stronger flare. Surge #8 air assisted, build to 810 psi in 24 min, release gas to sfc immediately, initially 2-3' lazy blue flare, flare increasing to 5-6' lazy yellow flare after 15 min, flow 45 mins, no coal or wtr to sfc. Surge #9 air assisted, build to 910 psi in 30 min before seeing break over of pressure, release gas to surface immediately, flow 45 mins, initially 2-3' lazy blue flare, increasing to 6-10' strongest yellow flare at end of flow period, no coal or wtr to surface. Surge #10 natural, will clean out during daylight after surge #10 release.

11-05-2003 Surge #10 natural, pressure to 110 psi, flow well 45 min, 4-5' flare after initial bleed down, no water or coal to sfc. Open rams, TIH to bottom, 8' of fill on bottom, very little water in wellbore. CO w/ 2100 cfm & 10-12 bph mist w/ 1/2-1 gph soap. During 2 hr ream to bottom filled two 5 gal buckets @ sample catcher w/ fine sand. LD 6 jts, pull 7<sup>th</sup> into csg. Surge #11 natural, pressure built to 110 psi, 3 - 6' lazy flare. Surge #12 natural, pressure built to 114 psi, 5 - 8' flare. Surge #13 air assisted, pressure broke over @ 850 psi @ 30 min. Opened both blooie lines for better surge effect, 5 - 8' blue flare w/ coal dust sparkles in flame going to blue/yellow flame after 10 min, flowed for 30 min. Surge #14 air assisted, pressure broke over @ 800 psi @ 30 min, gas to sfc after 5 min, 5 - 8' blue flare w/ coal dust sparkles in flame, flowed for 30 min. Surge #15 natural, pressure built to 114 psi, 5 - 8' flare. Surge #16 natural, build pressure.

11-06-2003 Surge #16 natural, pressure to 114 psi, 5-8' flare, flow for 30 mins. Surge #17 air assisted, pressure broke over @ 925 psi @ 30 mins, gas to surface after 5 min, 5-8' blue flare w/ no evident coal to surface, flowed for 30 mins. Surge #18, air assisted, press up to 1010 psi @ 30 min, gas to sfc after 5 min, 5 - 8' blue flare w/ no coal to surface, flowed for 30 min. Surge #19, air assisted, press up to 1020 psi @ 30 min, gas to sfc after 5 min, 5 - 8' blue flare w/ no coal to surface, flowed for 30 min. Surge #20, natural, press built to 114 psi. 5 - 8' flare. flow for 30 min. Surge #21, natural, press built to 120 psi, 5 - 8' flare, flow for 30 min. Surge #22, air assisted, press up to 1000 psi @ 30 min, gas to sfc after 5 min, 5 - 8' blue flare w/ sparkles (coal dust) for 1st 5 min of flare, flowed for 30 min. Surge #23, air assisted, press up to 1000 psi @ 30 min. gas to sfc after 5 min. 6 - 8' blue flare w/ sparkles (coal dust) for increased period in flare, flowed for 30 min. Surge #24, air assisted, press up to 1000 psi @ 30 min, gas to sfc after 5 min, 6 - 8' blue flare w/ sparkles (coal dust) for 7 - 8 min in flare, flowed for 30 min. Surge #25 natural, build pressure.

11-07-2003 Surge #25, natural, press built to 150 psi, 5 - 8' flare, flow for 30 min. Surge #26, air assisted, press up to 1150 psi @ 3 min, pump 5-7 bbl water pad before press up, gas to sfc after 5 min, 6 - 8' flare w/ sparkles, flowed for 30 min. TIH & CO to bottom, 6' of fill on bottom w/ little water. TOOH to shoe. Surge #27, natural, press built to 145 psi, 5 - 8' flare, flow for 30 min. Surge #28, air assisted, press up to 1250 psi @ 37 min, pump 10 bbl water pad w/ 3-4 gal soap before pressure up, gas to sfc after 15 min, heading w/ soap. 6 - 12' flare w/ sparkles, flowed for 90 min. Surge #29, air assisted, press up to 1050 psi @ 45 min, pump 2 bbl water pad before press up, gas to sfc after 5 min, 3-4' flare initially w/ some heading, 10 - 12' constant flare after 30 min. Flowed for 60 min. Surge #30, air assisted, press up to 1250 psi @ 35 min, pump 7 bbl water pad w/ 3 gals soap before press. Up, gas to sfc after 5 min. 3-4' flare initially w/ some heading, built to 10 - 12' constant flare after 30 min, flowed for 75 min. Surge # 31, natural press built to 105 psi in 180 min, 5 - 8' flare, some sparkles, coal dust in flare, flow for 30 min. Surge # 32, natural, build pressure.

11-08-2003 Surge #32, natural, press built to 112 psi, 5 - 8' flare, flow for 30 min. Surge #33, air assisted, press up to 1250 psi @ 35 min, pump 7 bbl water pad w/ 3 gals soap before press up, held press for 20 min after build up. Release flare lit after 30 min of flow, 3-4' flare initially w/ some heading, built to 10-12' constant flare after 60 min, flowed for 90 min. Surge #34, air assisted, press built to 145 psi, 5 - 8' flare, flow for 30 min. Surge #28, air assisted, press up to 1250 psi @ 37 min, pump 10 bbl water pad w/ 3-4 gal soap before pressure up, gas to sfc after 15 min, heading w/ soap, 6 - 12' flare w/ sparkles, flowed for 90 min. Surge #35, air assisted, press up to 1250 psi @ 35 min, no pad, 3-4' after 15 min, 6-10' constant flare after 45 min, built to 10-12' constant flare after 60 min, flowed for 90 min. Surge #36, natural, press built to 132 psi, 5-8' flare, flow for 30 min. Surge #37, natural, press built to 130 psi, 6-10' flare, flow for 30 min. Surge #38, air assisted, press up to 1250 psi @ 35 min. Pump 5 bbl/2gal soap pad before press up & another after press on well then re-pressure to 1250 psi. Coal fines in soap stream unloaded from hole. Gas to sfc in 30 mins. Continuous 8-10' flare after 60 min. Flow for 100 min. Surge #39, air assisted, press up to 1250 psi @ 45 min. Pump 7 bbl/1gal soap pad before press up. Gas to sfc in 30 mins. 10-14' flare. Flow for 90 min.

11-09-2003 Surge #40, natural, press built to 125 psi. 6-8' flare. Flow for 30 min. Surge #41, natural, press built to 140 psi, 5 hr SI. 6-8' flare. Flow for 30 min. Surge #42, air assisted, press up to 1075 psi @ 45 min. Pump 5 bbl/1gal soap pad before press up. Pump 2<sup>nd</sup> 5 bbl/1 gal soap pad on top. Gas to sfc in 50 mins. Intermittent-continuous good flare after 75 min. 10-14' flare. Flow for 150 min. Flare heading at end of flow period.

### 11-10-2003

Recap: Surge #45, natural, press built to 125 psi, 6 - 8' flare, flow for 30 min. TIH to CO, 5' solid bridge @ 3240', CO to bottom. CO on bottom w/ 10 bph mist & 1 1/2" - 2 gals soap. Coal running, heavy returns of coffee ground to aquarium gravel sized coal. TOO H to csg shoe. Surge #46, natural, press only built to 60 psi in 4 hr SI, 3 - 5' flare, flow for 60 min w/ no improvement in flare. TIH to CO well bore. Tag @ 3273', 15' of fill. CO to bottom w/ 10 bph mist. Cut off mist & dry up hole. Trip into csg, LD 6 jts & pull up into csg. Surge #47, natural, press built to 125 psi, 6-8' flare, flow for 30 min. Surge #48, natural, pressure.

11-11-2003 Surge #48, natural, press built to 160 psi in 4 hrs SI. 5-8' flare, flow for 30 min. Surge #49, natural, built pressure. Surge #50, air assisted, press up to 1200 psi @ 45 min, 10 bbl pad, no flare bridged off. TIH, tag @ 3261', CO from 3261' to 3288'. TOO H to csg shoe. Lock pipe rams, safety meeting. TIH to dry hole for natural surges. Lights for air package out. Generator no adequate. TOO H to csg shoe, lock pipe rams. Surge #51, natural, build pressure. Surge #51, natural, pressure built to 190 psi in 4 hr SI, 5-8' flare, flow for 60 min, gas & coal dust to surface, 6-10' flare. Surge #52, natural, build pressure.

11-12-2003 Surge #58, natural, press built to 198 psi in 5 hrs SI. 5-8' flare, flow for 60 min, gas & coal dust to surface, 6-10' flare. Surge #53, natural, build press, change out generators, change out HCR valve. Pressure built to 183 psi in 5 hr SI, 5-8' flare, flow for 60 min, gas & coal dust to surface, 6-10' flare. Surge #54, air assisted, press up to 1250 psi @ 45 min, 10 bbl pad, coal dust & gas to surface. Flow well, 6-10' flare. Surge #55, air assisted, press up to 1400 psi @ 45 min. 10 bbl H2O w/ 2 1/2 gal soap pad. Heavy H2O, foam, hvy coal fines & gas to surface, flow well, 10-16' flare, blooie line washed out. Surge #56, natural, pressure built to 247 psi in 4 hr SI, flow for 90 min, gas & coal dust to surface, 12-20' flare. Surge #57, air assisted, building pressure.

11-13-2003 Surge #57, air assisted, press up to 1200 psi @ 25 min. 10 bbl pad. Flow well 120 min, coal dust & gas to surface, flow well, 12-14' flare. Surge #58, natural, built press to 290 psi in 4 hr SI, flow for 30 min. Gas & coal dust to surface. 6-10' flare. Surge #59, natural, flow for 90 min, gas & coal t surface, 12-12' flare. Surge #60, air assisted, press up to 1400 psi @ 45 min. 2-10 bbl pads w/ soap. Coal dust & gas to surface. Flow well 120 min. 8-12' flare. Surge #61, air assisted, press up to 1400 psi @ 45 min. 2-10 bbl pads w/ soap. Returns coal dust in H2O to 1/8" pieces. Gas to surface. Flow well 120 min. 8-12' flare. Surge #62, air assisted, press up to 1400 psi @ 45 min. 2-10 bbl pads w/ soap. Returns coal dust in H2O to fines. Gas to surface. Flow well 120 min. 8-12' flare. Surge #63, air assisted, press up to 1400 psi @ 55 min. 2-10 bbl pads w/ soap. Returns coal dust in H2O to fines. Gas to surface. Flow well 60 min. 8-12' flare.

11-14-2003 Flow well. Surge #64, air assisted, press up to 1400 psi @ 55 min, 2-10 bbl pads w/ soap. Returns coal dust in H2O in fines. Gas to surface. Flow well 120 min, 8-12' flare. Surge #65, air assisted, press up to 1500 psi @ 55 min. 2-10 bbl pads w/ soap. Returns coal dust in H2O to fines. Gas to surface. Flow well 30 min. Bridged off. TIH, CO from 3245' to 3288'. 12' fill heavy coal returns. Coal-coal dust in solution. Fines. No shale. Small amount of metal on magnet, blow well dry. TOO H to csg shoe, close & lock pipe rams. Pitot test on 1", 3.5 ozs @ 60 min. Surge #66, air assisted, press up to 1400 psi @ 45 min, 2-10 bbl pads w/ soap. Returns coal dust in H2O to fines, gas to surface, flow well 90 min, flare 8-20'. Surge #67, air assisted, press up to 1400 psi @ 45 min, returns-coal dust in H2O, gas to surface, flow well 90 min, flare 6-8'. Surge #68, air assisted, press up to 1400 psi @ 55 min, 2-10 bbl pads w/ soap, returns-coal dust in H2O to fines, gas to surface, flow well 180 min, flare 8-20'. Surge #69, air assisted, press up to 1400 psi @ 55 min, 2-10 bbl pads w/ soap, returns-coal dust in H2O to fines, gas to surface, flow well 120 min, flare 8-20'.

11-15-2003 Flow well. Surge #70, air assisted, press up to 1400 psi @ 55 min, 2-10 bbl pads w/ soap. Returns coal dust in H2O to fines. Gas to surface. Flow well 180 min, 8-12' flare. Surge #71, air assisted, press up to 1600 psi @ 60 min. 2-10 bbl pads w/ soap. Returns coal dust in H2O to fines. Gas to surface. Flow well 180 min. 10-14' flare. Surge #72, air assisted, press up to 1600 psi @ 60 min. Gas to surface, flow well 150 min, 10-14' flare. Surge #73, air assisted, press up to 1600 psi @ 60 min, 3 bbl pads w/ soap. Returns-hvy coal dust in H2O to fines, gas to surface, flow well 150 min, 20-25' flare. Surge #74, air assisted, press up to 1400 psi @ 60 min, 3 bbl pads w/ soap, returns-hvy coal dust in H2O to fines, gas to surface, flow well 120 min, 16-20' flare. Surge #75, air assisted, press up to 1400 psi @ 60 min, 3 bbl pads w/ soap, returns-hvy coal dust in H2O to fines, gas to surface, flow well 120 min, 16-20' flare. Surge #76, air assisted, press up to 1400 psi @ 60 min, 3 bbl pads w/ soap, returns-hvy coal dust in H2O to fines, gas to surface, flow well 120 min, 12-16' flare.

11-16-2003 Surge #77, air assisted, press up to 1700 psi @ 120 min, 2-10 bbl pads w/ soap. Returns hvy coal dust in H2O to fines. Gas to surface. Flow well 120 min, 12-16' flare. Surge #78, air assisted, press up to 1800 psi @ 120 min. 2-10 bbl pads w/ soap. Returns hvy coal dust in H2O to fines. Gas to surface. Flow well 120 min. 12-16' flare. Surge #79, air assisted, press up to 1800 psi @ 150 min. 2-10 bbl pads w/ soap. Returns hvy coal dust in H2O to fines. Gas to surface, flow well 120 min, 12-16' flare. Surge #80, air assisted, press up to 1400 psi @ 60 min, 2-10 bbl pads. Returns-hvy coal dust in H2O to fines, gas to surface, flow well 120 min, 12-16' flare. Surge #81, air assisted, press up to 1500 psi @ 60 min, 2-3 bbl pads, returns-hvy coal dust in H2O to fines, gas to surface, flow well 150 min, 5-6' flare. Surge #82, air assisted, press up to 1500 psi @ 90 min, 3-5 bbl pads w/ soap, returns-hvy coal dust in H2O to fines, gas to surface, flow well 120 min, 10-12' flare. Surge #83, air assisted, press up to 1500 psi @ 90 min, 2-5 bbl pads.

11-17-2003 Flow well. Surge #84, air assisted, press up to 1600 psi @ 15 min, 1-5 bbl H2O pads. Release surge, no returns, log 25K string wt. SWI to equalize well. Release to surge from backside, no returns. Pump 40 bbls H2O down backside, SWI to equalize well, gained 6K string wt. Unlock 3 1/2" pipe rams, drill out bridge. TIH, tag @ 3102'. CO from 3102' to 3197', hvy coal ret's, H2O, gas, coal, coal dust in solution. Fines to 1/4" pieces, no shale, small amount of metal on magnet.

11-18-2003 CO from 3102' to 3197', hvy coal ret's, gas coal-coal dust in solution, fines to 1/4" pieces, no shale, small amount of metal on magnet. CO from 3197' to 3261', hvy coal ret's, gas, coal-coal dust in solution, fines to 1/8" pieces, no shale, small amount of metal magnet. CO from 3261' to 3288', med coal ret's, gas coal-coal dust in solution, fines to 1/8" pieces, no shale, small amount of metal on magnet.

11-19-2003 CO from 3261' to 3288', med coal ret's, gas, coal-coal dust in solution, fines to 1/8" pieces, no shale, small amount of metal on magnet. Circulate, dry hole, trip up into shoe, close & lock top rams, pitot test, 10.5 ozs. Surge #85, natural, press built to 40 psi in 2 hrs SI, flow for 90 mins, gas & coal dust to surface, 12-20' flare. Surge #86, air assisted, press up to 1400 psi @ 15 min, 1-5 bbl H2O pad @ 1000 psi, release surge, good coal ret's, gas to surface in 1 hr, 10-12' flare, flowed well 240 min. Surge #87, air assisted, press up to 1600 psi @ 15 min, 2-10 bbl H2O pad, release surge, good initial coal ret's, then bridged. Close HCR's, pump 20 bbls down backside, let bridge soak.

11-20-2003 Close HCR's, pump 20 bbls down backside, let bridge soak. Attempt to move pipe, had 48' of movement up or down. Pump additional 20 bbls of water & allow bridge to soak. Attempt to move pipe, could not move down, pulled up through upper bridge, circ well. Change stripper rubber. CO to 3288' (TD), pump 5 bbl sweep every 30 min, well making 4 buckets of coal every hour.

11-21-2003 CO from 3261' to 3288' (TD), pump 5 bbl sweep every 30 min. Circulate well, TOO H to csg shoe. Surge #88, natural, 2 hr build to 87 psi, 90 min flow, no solids & minimal gas to surface. Surge #89, air assisted, press up to 1400 psi @ 15 min, 1-5 bbl H2O pad. 2nd 5 bbl pad @ 1000 psi. Release surge, good coal ret's initially, no gas to surface, well bridged. Flow well 120 min. Surge #90, air assisted, press up to 1300 psi @ 15 min, 1-10 bbl H2O pad. 2nd 5 bbl pad @ 1000 psi, release surge, good coal ret's initially, small amt of gas to surface, flow well 150 min. TIH to CO, tag up @ 3122', CO from 3122' to 3197'. Bridge @ 3192'. Making 4 buckets of coal /hr @ 0600 hrs.

11-22-2003 CO well from 3197' to 3268' w/ 2250 CFM & 12 bbls mist per hr @ 375 to 400 psi. Large volume of aquarium gravel sized coal. Some cleating evident in larger pieces.

11-23-2003 CO well from 3268' to 3288' w/ 2250 CFM & 12 bbls mist per hr @ 375 to 400 psi. Large volume of aquarium gravel sized coal. Circ well & dry up hole. Pitot test, well flowing mist, no consistent reading. Surge #91, natural, 2 hr build to 68 psi, 60 min flow, no solids to surface. Surge #92, air assisted, press up to 1200 psi, 1-5 bbl H2O pad. 2<sup>nd</sup> - 5 bbl pad @ 1000 psi, release surge, good coal returns. Good 10-15' flare building during flow period, flowed well 150 mins. Surge #93, natural, 4 hr build to 115 psi, 120 min flow, no solids to surface, good flare after 15 min.

11-24-2003 Surge #94, air assisted, press up to 800 psi, 1-5 bbl H2O pad, no 2<sup>nd</sup> pad. Release surge, good coal ret's, good flare, flowed well 60 min. Surge #95, air assisted, press up to 1000 psi, 1-5 bbl H2O pad, 2<sup>nd</sup> 5 bbl pad @ 1000 psi, release surge, hvy coal, wtr & air returns, good 10-15' flare building during flow period. Flowed well 240 min. Surge #96, natural, 4 hr build to 140 psi, 120 min flow, no solids to sfc, good flare immediately. Surge #97, air assisted, press up to 1000 psi, 1-5 bbl H2O pad, 2<sup>nd</sup> 5 bbl pad @ 1000 psi, release surge, hvy coal, wtr & air returns, good flare, flowed well 120 min. surge #98, air assisted, press up to 1000 psi, 1-5 bbl H2O pad, 2<sup>nd</sup> 5 bbl pad @ 1000 psi, release surge, hvy coal, wtr & air returns then flow stopped as if partially bridged, flare continued, flowed well 90 min. PU 20' pup jt to change wear pattern on csg. TIH to 3270', 18' of fill. COTB w/ hvy coal ret's.

11-25-2003 PU 20' pup jt to change wear pattern on csg, TIH to 3270', 18' of fill, COTB w/ heavy coal ret's. TOOH to shoe, lock rams. Flow well. Surge #99, natural, 4 hr build to 110 psi, 120 min flow, no solids to surface, good flare immediately, discovered leaking HCR after 1 hr. Surge #100, natural.

11-26-2003 Surge #100, natural, build for 4 hrs to 140 psi. Release, 10-15' flare, flow 120 mins. Surge #101, natural, build for 6 hrs to 160 psi, release, 10-15' flare, flow 120 mins. Surge #102, natural, build for 6 hrs to 165 psi, release, 10-15' flare, flow 120 mins. Surge #103, natural, build for 3 hrs.

11-27-2003 Surge #103, natural, build for 4 hrs to 140 psi, release, 10-15' flare, flow 120 mins. Surge #104, natural, build for 4 hrs to 140 psi, release, 10-15' flare, flow 120 mins.

11-28-2003 Well SI for Thanksgiving.

11-29-2003 Well SI for Thanksgiving.

11-30-2003 Swivel up, CO to bottom from 3212' to 3288'. LD 6 jts, SLM OOH, LD DC's. Change rams, RU to run liner. Run 7 jts 5 1/2", 17#, N80, ST&C liner & hanger, liner run to 3288', TOL @ 2970'. TOOH LD DP & DC's. ND stripping head, NU lubricator & WL perforators. Perforate the following intervals: 3120' - 30', 3165' - 3200', 3225', 30', 3238' - 70', 328 total shots @ 4 SPF, ND WL unit. NU stripping head, RU to run 2-7/8" tbg. TIH w/ 99 jts 2-7/8" tbg, set @ 3240'. Tbg string: guide shoe on bottom, expendable check, 1 jt tbg, SN set @ 3208', 98 jts tbg. Turn well to production department, release rig.