

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

2004 AUG 17 AM 10:39

5. Lease Designation and Serial No.  
SF-078767

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

RECEIVED  
070 FARMINGTON NM

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)  
1085' FSL & 975' FEL, SW/4 SE/4 SEC 24-31N-06W

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
ROSA UNIT #209A

API Well No.  
30-039-27699

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 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.)\*

07-16-2004 MIRU, csg press = 0 psi, ND tree. NU cavitation stack. RU blooie line, SDFN. Flow back hand on location to dry watch.

07-17-2004 Csg press = 0. PU 6 1/4" bit, 8 - 4 3/4" DC's & TIH. Finish RU blooie line. PU 2 7/8" AOH DP, TIH. RU power swivel. Bit @ 3012', unload hole w/air, est. circ. w/ 10 bph mist, C/O to TD @ 3182'. Bypass air; pull up to 3012', turn well over to night watch. Surge f/ 3012' w/ 10 bph mist, 20 min. = 800 psi, ret's lt wtr, flow 40 min. in between surges (total of 8 surges).

07-18-2004 Surge f/ 3012' w/ 10 bph mist, 20 min. = 800 psi, ret's lt wtr, flow 40 min. in between surges (total of 3 surges), SIW for 4 hr. nat. build. 4 hr SI = 350 psi. Surge well, ret's lt. mist, PU singles w/ swivel & TIH, tag bridge @ 3062'. Est. circ. w/ 12 bph mist, C/O 5' bridge @ 3062', C/O 10' of fill to TD @ 3182', pump 2 - 5 bbl sweeps, circ. well bore clean. Pull bit up to 3012'. Surge f/ 3012' w/ 10 bph mist, 20 min. = 800 psi, hold press. on formation for 1.25 hr, ret's lt wtr, flow nat. 1 hr. Surge f/ shoe w/ 10 bph mist, .25 hr = 800 psi, ret's lt wtr, flow nat. .75 hr between surges (total of 4 surges), turn well to night watch @ 14:30 hrs. Nat. surge f/ 3012', 2 hr SI = 375 psi, ret's lt. mist, flow nat. 1 hr. Surge f/ 3012' w/ 10 bph mist, .25 hr = 800 psi, ret's lt coal fines, lt wtr, flow .75 hr between surges (total of 5 surges).

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 19, 2004

(This space for Federal or State office use)

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

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

ACCEPTED FOR RECORD

AUG 19 2004

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

07-19-2004 Surge f/ 3012' w/ 10 bph mist, .25 hr = 800 psi, ret's lt coal fines, lt wtr, flow .75 hr between surges (total of 3 surges), SIW for 4 hr nat. build. 4 hr SI = 430 psi, ret's gas only. PU singles w/ swivel & TIH, tag @ 3110'. Est. circ. w/ 12 bph mist, C/O to TD @ 3182', 72' of fill. Pull up to 3137', surge f/ big coal w/ 12 bph mist, .25 hr = 800 psi, ret's lt coal, med wtr, circ. clean. Circ. air only, dry up wellbore. Pull up to 3012', flow well nat. Surge f/ 3012' w/ 10 bph mist, .25 hr = 800 psi, ret's lt. fines, med wtr, flow .75 hr between surges, total of 5 surges. Nat. surge f/ 3012', 2 hr SI = 475 psi, ret's lt. fines, lt wtr, flow nat. 1 hr. Surge f/ 3012' w/ 10 bph mist, .25 hr = 800 psi, ret's lt. fines, med wtr, flow .75 hr between surges, total of 5 surges.

07-20-2004 Surge f/ 3012' w/ 10 bph mist, .25 hr = 800 psi, ret's lt coal fines, lt wtr, flow .75 hr between surges (total of 3 surges), SIW for 4 hr nat. build. 4 hr SI = 500 psi, ret's very lt coal, start up equip. PU singles w/ swivel & TIH, tag @ 3152', est. circ. w/ 12 bph mist, C/O 30' of fill to TD. PU to 3148', surge w/ 15 bph mist, .5 hr = 1000 psi, ret's lt coal, med wtr, C/O to 3168' after each surge, total of 3 surges. PU to 3012', surge w/ 10 bph mist, .5 hr = 1000 psi, ret's med coal, med wtr, flow nat. .5 hr between surges, 3 surges total. Nat. surge, 2 hr SI = 500 psi, ret's lt. mist, flow nat. 1 hr, rel. rig crew @ 14:30 hrs. Nat. surge, 2 hr SI = 500 psi, ret's lt. mist, flow nat. 1 hr. Nat. surge, 2 hr SI = 530 psi, ret's lt. mist, flow nat. 1 hr. Nat. surge, 1.5 hr SI = 480 psi, ret's lt. mist. Flow nat.

07-21-2004 Flow nat. Nat. surge, 1.5 hr SI = 540 psi, ret's lt. fines, lt. mist, Flow nat. 1 hr., SIW for 4 hr nat. build. 4 hr SI = 700 psi, ret's lt coal, lt. mist. PU singles w/ swivel & TIH, tag @ 3160', est. circ. w/ 12 bph mist, C/O 22' of fill to TD @ 3182'. Surge f/ middle of big coal @ 3148' w/ 15 bph mist @ 1000 psi, total of 4 surges, 1st three surges ret's lt coal, med wtr, 4th surge ret's hvy. coal w/ some shale, med Wtr. Circ. w/ 12 bph mist to clean up hole, running med coal (85%), shale (15%). Circ. w/air only, 1 1/2" stream of wtr. PU to 3012', flow well nat. Nat. surge f/ 3012', 1.5 hr SI = 500 psi, ret's lt coal, med wtr, flow nat. 1 hr. Nat. surge, 1.5 hr SI = 480 psi, ret's med coal, med wtr, flow nat. 1 hr. Nat. surge, 2 hr SI = 500 psi, ret's med coal, med wtr, flow nat. 1 hr. Nat. surge, 2 hr SI = 480 psi, ret's lt coal, lt wtr, flow nat.

07-22-2004 Flow nat. Nat. surge f/ 3012', 1.5 hr SI = 500 psi, ret's lt coal, med wtr, flow nat. 1 hr., SIW for 4 hr nat. build. Start up equip., 4 hr. SI = 540 psi, ret's lt. mist. C/O f/ 3152' to 3182', 30' of fill, circ. hole clean, pump 3-5 bbl sweeps, bypass mist, blow well dry. RD swivel, TOH. RU to surge f/ surface, surge f/surf., air only breakover, .75 hr = 880 psi, ret's dust, lt coal, lt wtr, flow nat. 1.25 hr. Surge f/ surf. w/ 15 bph mist & 2 - 5bbl pads spaced out, .5 hr = 1000 psi, ret's med coal, hvy. wtr, flow nat. 1.25 hr. Nat. surge f/ surf, 2 hr SI = 460 psi, ret's md coal, med wtr, flow nat. 1 hr. Nat. surge, 2 hr SI = 480 psi, ret's med coal, lt wtr, flow nat. 1 hr. Nat. surge, 1.5 hr SI = 435 psi, ret's med coal, lt wtr, flow nat. .5 hr.

07-23-2004 Flow nat. Nat. surge f/surf., 1.5 hr SI = 440 psi, ret's lt coal, lt wtr, flow nat. 1 hr, SIW f/ 4 hr nat. build. 4 hr SI = 600 psi, ret's lt coal, lt wtr, flow nat. Surge f/surf. w/ 15 bph mist, .5 hr = 1200 psi, hold press. on formation for 2.5 hr, press. dropped to 820 psi, press. back to 1200 psi & release, ret's hvy coal, hvy wtr, flow nat. 1 hr. Nat. surge f/surf, 2 hr SI = 500 psi, ret's hvy coal, hvy wtr, flow nat. 1 hr. Nat. surge f/surf, 2 hr SI = 500 psi, ret's med coal, med wtr, flow nat. 1 hr. Nat. surge f/surf, 2 hr SI = 500 psi, ret's hvy coal, med wtr, flow nat. 1 hr. Nat. surge f/surf, 2 hr SI = 480 psi, ret's med coal, med wtr, flow nat. 1 hr.

07-24-2004 Nat. surge f/surf, 2 hr SI = 480 psi, ret's med coal, med wtr, flow nat. 1 hr, SIW for 4 hr nat. build. 4 hr SI = 680 psi, ret's med coal, med wtr, flow nat. .75 hr. Surge f/ surf w/ 7 bph mist & 3 - 5 bbl pads spaced out, .5 hr = 1000 psi, ret's med coal, hvy wtr, flow nat. 1 hr. Nat. surge f/surf., 1.5 hr SI = 380 psi, ret's lt coal, hvy wtr, flow nat. 1 hr. Nat. surge f/surf., 2 hr SI = 520 psi, ret's lt coal med wtr, flow nat. 1 hr, rel. rig crew @ 14:30 hrs. Nat. surge f/surf., 4 hr SI = 660 psi, ret's lt coal, lt wtr, flow nat. 1 hr, reason for 4 hr SI, air hand & fire watch hand put out fire caused by lightning. Nat. surge f/surf., 2 hr SI = 500 psi, ret's lt coal, lt wtr, flow nat. 1 hr. Nat. surge.

07-25-2004 Nat. surge cont., 2 hr SI = 520 psi, ret's lt coal, med Wtr. Flow well nat., SIW for 4 hr nat. build. TIH w/ 6 1/4" bit, tag bridge @ 2163'. RU swivel. Est. circ. w/ 12 bph mist, C/O bridge. RD swivel. Cont. TIH. Tag bridge @ 2730', est. circ. w/ 12 bph mist, C/O bridge, cont. in hole, C/O 40' of fill, formation running coal & shale -50/50. PU to 3137', surge f/ middle of big coal w/ 12 bph mist, .5 hr = 800 psi, ret's med coal, hvy wtr. Formation running coal & shale - 50/50, circ. w/ 12 bph mist, pump 5 bbl sweeps every .5 hr to clean up wellbore. Circ. air only & dry up wellbore. PU to 3012', rel. rig crew. Flow well nat. Surge f/ 3012' w/ 10 bph mist @ 800 psi, ret's lt coal, med wtr, flow nat. .5 hr between surges, total of 5 surges.

07-26-2004 Surge f/ 3012' w/ 10 bph mist @ 800 psi, ret's lt coal, med wtr, flow nat. .5 hr between surges, total of 2 surges. 4 hr SI = 520 psi, ret's lt. fines, lt mist. Est. circ. @ 3012', C/O bridge @ 3020', C/O to TD, total of 40' of fill. PU to 3137', surge w/ 12 bph mist, .5 hr = 800 psi, ret's hvy coal, hvy wtr, cont. circ. w/ 12 bph mist, C/O to TD. Surge f/ 3137' w/ 12 bph mist, .5 hr = 800 psi, ret's med coal, hvy wtr, cont. circ. w/ 12 bph mist, C/O to TD, bypass mist, blow well dry. RD swivel, TOOH, RU to surge f/surface. Surge f/surf., air only breakover, 1 hr = 820 psi, ret's very lt coal, flow nat. 1 hr. Nat. surge f/surf., 2 hr SI = 490 psi, ret's lt coal, lt. mist, flow nat. 1 hr. Nat. surge f/surf., 2 hr SI = 480 psi, ret's med coal, lt. mist, flow nat. 1 hr.

07-27-2004 Nat. surge f/surf., 2 hr SI = 490 psi, ret's lt coal, lt wtr, flow nat. 1 hr, SIW for 4 hr nat. build. 4 hr SI = 500 psi, ret's lt coal, lt wtr. Surge f/surf. w/ 3 - 5 bbl pads spaced out, 1 hr = 1200 psi, ret's med coal, hvy wtr, flow nat. 1.5 hr. Nat. surge f/surf., 1.5 hr SI = 480 psi, ret's lt. fines, hvy wtr, flow nat. 1 hr. Nat. surge, 1.5 hr SI = 490 psi, ret's lt coal, med wtr, flow nat. 1 hr. Nat. surge, 1.5 hr SI = 480 psi, ret's med coal, med wtr, flow nat. 1 hr. Nat. surge, 1.5 hr SI = 480 psi, ret's lt coal, med wtr, flow nat. 1 hr. Nat. surge, 1.5 hr SI = 480 psi, ret's. lt coal, med wtr, flow nat 1 hr. Nat. surge.

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07-28-2004 Nat. surge cont., 1.5 hr SI = 480 psi, ret's lt coal, med wtr, flow nat. 2 hr, SIW f/ 4 hr nat. build. 4 hr SI = 530 psi, ret's lt coal, med wtr, flow nat. Surge f/surf w/ 5 bph mist & 3 - 5bbl pads spaced out, .75 hr = 1000 psi, hold press on formation for 2.25 hr, press dropped to 700 psi, press back to 1000 psi & release, ret's lt coal, hvy wtr, lt. gas flow, flow nat. 1 hr. Nat. surge f/surf., 2 hr SI = 40 psi, ret's lt. mist, flow nat. 1 hr, partially bridged off, lt. gas flow, rel. rig crew @ 14:30. Attempt to surge out bridge w/ 10 bph mist, got bridge surge out, ret's hvy coal, hvy wtr, plugged blooie lines, .75 hr to unplug blooie lines. Flow well nat.. Nat. surge f/surf, 2 hr SI = 525 psi, ret's lt coal, lt wtr, flow nat. 1 hr. Nat. surge f/surf, 2 hr SI = 520 psi, ret's lt coal, lt wtr, flow nat. 1 hr.

07-29-2004 Nat. surge f/surf., 2 hr SI = 490 psi, ret's lt. fines, lt wtr, flow nat. 1 hr, SIW for 4 hr nat. build. 4 hr SI = 480 psi, ret's lt. fines, lt wtr, flow nat. TIH w/ 6 1/4" bit. Tie back single line, RU swivel. Est. circ. w/ 12 bph mist @ 3012', C/O to TD @ 3182', (75' of fill), pump 5 bbl sweeps to clean up wellbore. Circ. w/air only to dry up well. Bypass air, pull up to 3012', install 2 7/8" rams in top BOP, close & lock rams, rel. rig crew. Flow well nat. Nat. surge f/shoe, 2 hr SI = 500 psi, ret's lt. fines, lt. mist, flow nat. 1 hr. Nat. surge f/shoe, 2 hr SI = 525 psi, ret's lt. fines, lt. mist, flow nat. 1 hr, SIW for 4 hr nat. build.

07-30-2004 Nat. surge f/shoe, 2 hr SI = 500 psi, lt. fines, lt wtr, flow nat. 1 hr, SIW for 4 hr nat. build. 4 hr SI = 540 psi, ret's lt wtr, flow nat. Est. circ. w/ 12 bph mist @ 3012', C/O to TD @ 3182', (15' of fill), circ. well clean, bypass mist, circ. air only dry up wellbore. RD swivel, tieback double fast. TOOH, RU to surge f/surf, turn to night crew. Surge f/surf., air only breakover, 1.5 hr = 830 psi, ret's lt. dust, flow nat. 1.5 hr. Nat. surge f/surf, 1.5 hr SI = 500 psi, ret's lt coal, lt. mist, flow nat. 1 hr. Nat. surge f/surf, 2 hr SI = 500 psi, ret's lt coal, lt wtr, flow nat. 1 hr.

07-31-2004 Nat. surge f/surf, 2 hr SI = 500 psi, ret's med coal, lt wtr, flow nat. 1 hr, SIW f/ 4 hr nat. build. Nat. surge f/surf, 4 hr SI = 530 psi, ret's med coal, med wtr, flow nat. Nat. surge f/surf., 1.5 hr SI = 480 psi, ret's lt. fines, flow nat. .5 hr. Nat. surge f/surf., 1.5 hr SI = 480 psi, ret's lt. fines, med wtr, flow nat. .5 hr. Surge f/surf w/ 15 bph mist & 2 - 5 bbl pads spaced out, 1 hr = 1000 psi, ret's med shale, lt coal fines, med wtr, flow nat. 1 hr. Nat. surge f/surf, 1.5 hr SI = 560 psi, ret's lt. fines, lt wtr, flow nat. 1 hr. Nat. surge f/surf, 1.5 hr SI = 550 psi, ret's lt. fines, lt wtr, flow nat. 1 hr. Nat. surge f/surf, 1.5 hr SI = 560 psi, ret's lt. fines, lt wtr, flow nat. 1 hr. Nat. surge f/surf, 1.5 hr SI = 560 psi, ret's lt. fines, lt wtr, flow nat. 1 hr.

08-01-2004 Nat. surge f/surf, 1.5 hr SI = 560 psi, ret's lt. fines, lt wtr, flow nat. 1.5 hr, SIW for 4 hr nat. build. 4 hr SI = 600 psi, ret's lt wtr, flow nat. Surge f/surf w/ 5 bph mist & 3 - 5 bbl pads spaced out, .75 hr = 1000 psi, hold pressure on formation for 2.25 hr, pressure drop 740 psi, pressure back to 1000 psi & release, ret's med shale, hvy wtr, bridged off in csg, unable to surge out bridge. TIH, tag @ 2824', LD 6 jts., run 3 stands out of derrick. RU swivel. Est. circ. w/ 12 bph mist @ 2824', C/O bridges down to shoe - tottal of 30' of fill, cont. to C/O open hole to 3043', running coal & shale - 30/70. Ret's slowed, pull up to shoe, turn to night crew. Flow well nat., evap. pit.

08-02-2004 Flow well nat., evap. pit, SIW f/ 4 hr nat. build. 4 hr SI = 580 psi, ret's lt. fines, lt. mist. Est. circ. @ 3012' w/ 12 bph mist, C/O to TD @ 3182'. Formation running coal & shale - 30/70, cont. circ. & pump sweeps to clean up wellbore. Ret's lt. to med, bypass air, pull up to 3012', turn over to night crew. Flow nat., evap. pit.

08-03-2004 Flow nat., evap. pit, SIW for 4 hr nat. build. 4 hr SI = 520 psi, ret's lt. fines, lt. mist, flow nat. Est. circ. w/ 14 bph mist @ 3012', C/O to 3168', formation running hvy fines up to 1/16" coal & shale 50/50, cont. circ. & pump sweeps. Bypass air, pull up to shoe, circ. csg clean, turn over to night crew. Flow well nat., evap. pit.

08-04-2004 Flow well nat., evap. pit. PU singles & TIH, tag @ 3153', Est. circ. w/ 14 bph mist. C/O 29' of fill, formation running coalfines & shale - 60/40, cont. circ. & pump 5 bbl sweep every 3/4 hr. Ret's slowed, bypass mist, dry up hole. Pull up to shoe, turn over to night crew. Flow well nat., evap. pit.

#### 08-05-2004

Recap: Flow well nat., evap. pit. Nat. surge f/shoe, 2 hr SI = 480 psi, ret's lt. fines, flow nat. 1 hr. Nat. surge, 2 hr SI = 460 psi, ret's lt. fines, lt. mist, flow nat. 1 hr. Nat. surge, 2 hr SI = 460 psi, ret's lt. fines, lt. mist, flow nat. 1 hr. Nat. surge, 2 hr SI = 470 psi, ret's lt. fines, lt. mist, flow nat. 1 hr. Nat. surge, 2 hr SI = 440 psi, ret's lt. fines, lt wtr, flow nat. 1 hr.

08-06-2004 Nat. surge, 2 hr SI = 460 psi, ret's lt. fines, lt. mist, flow nat., SIW for 4 hr nat. build. 4 hr SI = 470 psi, ret's lt. fines, lt. mist, flow nat. Est. circ. w/ 12bph mist @ 3012', C/O bridge @ 3033', C/O to TD @ 3182', 13' of fill, blow well dry. Pull up to 3012'. Flow well nat. on blooie line. Nat. surge f/shoe, 2 hr SI = 460 psi, ret's lt coal, lt. mist, flow nat. 1 hr. Nat. surge, 2 hr SI = 460 psi, ret's lt. fines, lt. mist, flow nat. 1 hr. Nat. surge, 2 hr SI = 460 psi, ret's lt. fines, lt. mist, flow nat. 1 hr. Nat. surge.

08-07-2004 Nat. surge cont., 2 hr SI = 460 psi, ret's lt. fine, lt. mist, flow nat. 2 hr, SIW f/ 4 hr nat. build. 4 hr SI = 470 psi, ret's lt. fines, lt. mist. PU singles w/swivel & TIH, est. circ. w/ 12 bph mist @ 3137', C/O to TD @ 3182', 2 - small bridges, circ. clean, blow well dry, pull up to 3012'. Flow well nat. on blooie line. Nat. surge f/shoe, 2 hr SI = 460 psi, ret's lt coal, lt. mist, flow nat. 1 hr. Nat. surge, 2 hr SI = 450 psi, ret's lt. fines, lt. mist, flow nat. 1 hr. Nat. surge, 2 hr SI = 440 psi, ret's lt. fines, lt. mist, flow nat. 1 hr.

08-08-2004 Nat. surge cont., 2 hr SI = 440 psi, ret's lt. fines, lt. mist, flow nat. 2 hr, SIW for 4 hr nat. build. 4 hr SI = 470 psi, ret's lt. fines, lt. mist, flow nat. Est. circ. w/ 14 bph mist @ 3012', C/O bridge @ 3152', circ. down to TD @ 3182', circ. hole clean, blow well dry, pull up to 3012'. Flow well nat. on blooie line. Nat. surge f/shoe, 2 hr SI = 440 psi, ret's lt. fines, lt. mist, flow nat. 1 hr. Nat. surge, 2 hr SI = 450 psi, ret's lt coal, lt wtr, flow nat. 1 hr. Nat. surge, 2 hr SI = 440 psi, ret's lt. fines, lt. mist, flow nat. 1 hr.

08-09-2004 Flow well nat., SIW for 4 hr nat. build. 4 hr SI = 460 psi, ret's lt. fines. PU singles w/swivel & TIH, tag @ 3152'. Est. circ. w/ 14 bph mist, C/O 30' of fill to TD @ 3182', pull up to 3012'. Flow well nat. on bloole line. PU singles w/swivel, tag @ 3152', est. circ. w/ 14 bph mist, C/O small bridge, circ. down to TD @ 3182', circ. hole clean. Pull up to 3012', SDFN.

08-10-2004 Csg. press. = 480 psi, blow well down. PU singles w/swivel & TIH, tag @ 3152'. Est. circ. w/ 14 bph mist, C/O to TD @ 3182', 30' of fill, circ. hole clean. RD swivel, tieback double fast. TOH stand back drill pipe. LD 4 3/4" DC's, unload csg onto pipe rack & tally. RU csg. crew, install 5 1/2" rams. PU 5 1/2" liner & TIH. Landed @ 3178' as follows: 5-1/2" LA-set shoe on bottom, 2 jts 5-1/2", 17#, N-80 csg, 4 jts 5 1/2" 15.5# K-55 csg, H-Latch drop off sleeve. Liner top @ 2898', 104' of overlap. RD swivel, TOH laying down drill pipe, SDFN.

08-11-2004 Csg. press = 470 psi, ND inovator head, RU Computalog. Perforate 5 1/2" liner w/ 3 1/8" HSC, 0.49" dia, 15 gram chg., 4 spf @ following intervals top down: 3008' - 3018', 3030' - 3040', 3060' - 3070', 3135' - 3145', 3145' - 3169', total of 64' of zone perforated = 256 holes, RD Computalog. RU stripping head, tally 2 7/8" tbg on float. RU stripping head tally 2 7/8" tbg on float. RIH w/ 101 jts 2-7/8", 6.5#, J-55, landed @ 3168' as follows: 1/2" mule shoe on bottom, 10' pup jt, 2.28" SN @ 3157', 100 jts tbg, 10' pup jt, 1 jts tbg. RD floor, ND BOP. NU tree & test 3000 psi 15 min. Release rig @ 2030 hrs, 8/11/04. Turn well over to production department.