In Lieu of Form 3160 (June 1990)

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

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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

SUBMIT IN TRIPLICATE

1.	Type of Well ☐ Oil Well ■ *Gas Well* ☐ Other	5. Lease Designation and Serial No. SF-078770
		6. If Indian, Allottee or Tribe Name
		7. If Unit or CA, Agreement Designation ROSA UNIT
		8. Well Name and No. ROSA UNIT #322
2.	Name of Operator WILLIAMS PRODUCTION COMPANY	9. API Well No. 30-039-24950
3.	Address and Telephone No. PO BOX 3102 MS 37-2, TULSA, OK 74101 (918) 573-6254	10. Field and Pool, or Exploratory Area BASIN FRUITLAND COAL
4.	Location of Well (Footage, Sec., T., R., M., or Survey Description) 1390' FNL & 2460' FEL, SW/4 NE/4, SEC 23 T31N R5W	11. County or Parish, State RIO ARRIBA, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION	
■ *Notice of Intent*	☐ Abandonment	☐ Change of Plans
☑ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	■ *Other Cavitation Complete*	☐ 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.)*

6-04-1999 MIRU service unit. SITP 1160 psi. SICP 1350 psi. Blow well down (had tbg stop set in F-nipple 06/03/99). NDWH. NU BOP, choke manifold and lay blooie lines. TOOH with 2 3/8" production tbg

6-05-1999 TOOH with 2 3/8" production tbg. Place 3 ½" drill pipe on racks. Tally drill pipe. Pick up liner retrieving tool, drill collars and drill pipe. TIH. Cut and slip 70' of drilling line. Finish TIH to top of liner at 3160'. Latch onto liner top at 3160'. TOOH. Lay down 5 joints of 5 ½" casing. Pick up a 6 ¼" bit and TIH. Tag fill at 3375' (10' of fill). Clean out from 3375' to 3385' with 1800 cfm air, 5 bph H2O mist. TOOH with bit. Under ream 6 ¼" to 9 ½" from 3249' to 3324'

6-06-1999 Under ream 6 ¼" to 9 ½" from 3324' to 3385'. Circulate hole clean. TOOH. TIH with bit. Tag fill at 3380' (5' of fill). CO from 3354' to 3385' with 1800 cfm air, 5 bph H2O mist. Circulate with 1800 cfm air to dry up hole. TOOH to shoe. Flow test through a ¾" choke. Had 7 oz. pressure and a 6' flare. Cavitate well. Surge 7 times to 2000 psi with 1800 cfm air, 5 bph H2O mist. Build up in 1 hr, flow back ½ hr. TIH, tag bridge at 3330'. Clean out from 3324' to 3385' with 1800 cfm air, 5 bph H2O mist. Q = 10 mcfd

Continued on back

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

Signed Tracy Ross TRACY ROSS Title Production Analyst Date July 8, 1999

ACCEPTED FOR RECORD
JUL 0 1999

(This space for Federal or State office use)

Approved by _____ Title _____ Date

DIV. JUL 27 1999
FARMINGTON FIELD OFFICE
BY _____

Conditions of approval, if any:

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

6-07-1999 Clean out from 3354' to 3385' with 1800 cfm air, 5 bph H2O mist. TOOH to the shoe. Cavitate well. Surge 14 times to 2000 psi with 1800 cfm air, 5 bph H2O mist. Build up in 1 hr, flow back ½ hr. Had coal dust, fines and up a 2" stream of water. Flare up 20' at times

6-08-1999 TIH, tag bridge at 3320'. Clean out from 3295' to 3385' with 1800 cfm air, 5 bph H2O mist. Circulate up large amounts of coal fines and dust. Circulate with 1800 cfm air to dry up hole. TOOH to shoe. Flow test well through a ¾" choke as follows: 15 min-6# = 261 mcfd, 30 min-5# = 246 mcfd, 45 min-4# = 232 mcfd, 60 min-4# = 232 mcfd. Cavitate well. Surge 8 times to 1950 psi with 1800 cfm air, 5 bph H2O mist. Build up in 1 ½ hr, flow back ½ hr. Had coal dust, fines and up a 2" stream of water. Flare up 20' at times. Tag bridge at the shoe (3239'). Clean out from 3239' with 1800 cfm air, 5 bph H2O mist. Q = 232 mcfd

6-09-1999 Clean out from 3239' to 3385' with 1800 cfm air, 5 bph H2O mist. Circulate up large amounts of coal fines and dust. Circulate with 1800 cfm air to dry up hole. TOOH to shoe. Flow test well through a ¾" choke as follows: 15 min-17# = 420 mcfd, 30 min-16# = 406 mcfd, 45 min-14# = 377 mcfd, 60 min-13# = 362 mcfd. Cavitate well. Surge 6 times to 1750 psi with 1800 cfm air, 5 bph H2O mist. Build up in 1 ½ hr, flow back ½ hr. Had coal dust, fines and a 2" stream of water. Flare up 20' at times. Q = 420 mcfd

6-10-1999 Cavitate well. Surge 4 times to 1750 psi with 1800 cfm air, 5 bph H2O mist. Build up in 1 ½ hr, flow back ½ hr. Had coal dust, fines and up a 2" stream of water. Flare up 20' at times. TIH. Tag bridge at 3309'. Clean out from 3295' to 3385' with 1800 cfm air, 5 bph H2O mist. Pump 5 bbl sweeps to help clean hole. Circulate up large amounts of coal from dust to ½" in size

6-11-1999 Clean out from 3364' to 3385' with 1800 cfm air, 5 bph H2O mist. Pump 5 bbl sweeps to help clean hole. Circulate up large amounts of coal from dust to ½" in size. Circulate with 1800 cfm air to dry up the hole. TOOH to shoe. Flow test through a ¾" choke as follows: 15 min-15# = 391 mcfd, 30 min-15# = 391 mcfd, 45 min-14# = 377 mcfd, 60 min-14# = 377 mcfd. Cavitate well. Surge 3 times with natural build up. Pressure up to 600 psi in 4 hrs. Flow back 1 hr. Pressure increased from 440 psi on first surge to 600 psi on last surge

6-12-1999 Cavitate well. Surge 5 times with natural build up. Pressure up to 620 psi in 4 hrs. Flow back 1 hr. Pressure increased from 600 psi on first surge to 620 psi on last surge. Started to see more coal dust on last few surges

6-13-1999 Cavitate well. Surge 3 times with natural build up. Pressure up to 620 psi in 4 hrs. Flow back 1 hr. Had 15' to 20' flare. TIH. Tag fill at 3379' (6' of fill). Clean out from 3354' to 3385' with 1800 cfm air, 5 bph H2O mist and 5 bbl water sweeps. Unload large amounts off water. Circulate up coal fines and dust with sweeps. Circulate with 1800 cfm air to dry up the hole. TOOH to shoe. Flow test through a ¾" choke as follows: 15 min-19# = 449 mcfd, 30 min-20.5# = 471 mcfd, 45 min-19.5# = 456 mcfd, 60 min-18.5# = 442 mcfd

6-14-1999 Cavitate well. Surge 1 time with natural build up. Pressure up to 440 psi in 4 hrs. Flow back 1 hr. Had 15' to 20' flare. Surge 1 time by letting build natural to 400 psi then pressure up to 1600 psi with air/mist. Surge 2 times with air and 10 bbl water pads to 1600 psi. Had large amounts of water returns and light coal fines. Flare up to 30'. TIH. Tag fill at 3379' (6' of fill). Clean out from 3354' to 3385' with 1800 cfm air, 5 bph H2O mist and 5 bbl water sweeps. Unload large amounts off water. Circulate up large amounts coal dust and fines up ½" in size with sweeps. Coals appear to be running. No gauge

6-15-1999 Clean out from 3354' to 3385' with 1800 cfm air, 5 bph H2O mist and 5 bbl water sweeps. Unload large amounts of water. Circulate up large amounts coal dust and fines up ½" in size with sweeps. Coals appear to be running. Circulate with 1800 cfm air to dry up the hole. TOOH to shoe. Flow test through a ¾" choke as follows: 15 min-20# = 464 mcfd, 30 min-21# = 478 mcfd, 45 min-19# = 449 mcfd, 60 min-19# = 449 mcfd. Cavitate well. Surge 6 times with 1800 cfm air, 5 bph H2O mist. Pressure up to 1600 psi in 2 hrs or less, Flow back ½ hr. Bridged off after 5th surge. TIH, tag bridge at 3344'. Clean out from 3324' to 3385' with 1800 cfm air, 5 bph H2O mist and water sweeps. Circulate up large amounts of coal fines

6-16-1999 Clean out from 3354' to 3385' with 1800 cfm air, 5 bph H2O mist and 5 bbl water sweeps. Unload large amounts of water. Circulate up large amounts coal dust and fines up ½" in size with sweeps. Coals appear to be running. Circulate with 1800 cfm air to dry up the hole. TOOH to shoe. Flow test through a ¾" choke as follows: 15 min-15.5# = 398 mcfd, 30 min-16# = 406 mcfd, 45 min-16# = 406 mcfd, 60 min-16# = 406 mcfd. Cavitate well. Surge 4 times with natural build up. Pressure up to 630 psi in 4 hrs, Flow back 1 hr. Pressure increased from 480 psi to 630 psi. Had 20' flare and light dust and mist on flow back

6-17-1999 Cavitate well. Surge 2 times with natural build up. Pressure up to 600 psi in 4 hrs. Flow back 1 hr. Unload large amounts of water and coal fines/dust. Bridged off well. TIH, tag bridge at 3340'. Clean out from 3324' to 3385' with 1800 cfm air, 5 bph H2O mist and 5 bbl water sweeps. Unload large amounts of water. Circulate up large amounts coal dust and fines up ½" in size with sweeps. Coals appear to be running. Circulate with 1800 cfm air to dry up the hole. TOOH to shoe. Flow test through a ¾" choke as follows: 15 min-19# = 449 mcfd, 30 min-18# = 435 mcfd, 45 min-17# = 420 mcfd, 60 min-17# = 420 mcfd. Cavitate well. Surge 1 times with natural build up. Pressure up to 510 psi in 4 hrs, Flow back 1 hr. Had 20' flare and light dust and light mist on flow back

6-18-1999 Cavitate well. Surge 5 times with natural build up. Pressure up to 590 psi in 4 hrs. Flow back 1 hr. Unload large amounts of water and coal fines/dust. Had 20' flare. Pressure increased from 540 psi to 590 psi on surges

6-19-1999 Cavitate well. Surge 1 time with natural build up. Pressure up to 400 psi in 4 hrs. Flow back 1 hr. Very light dust and no water returns. Well bridged off. TIH, tag bridge at 3360'. Clean out from 3354' to 3385' with 1800 cfm air, 5 bph H2O mist. Circulate up large amounts of coal fines. Add soap to the mist at a ratio of 2 gals/10 bbls to help clean the hole. Coals appear to be running

6-20-1999 Clean out from 3354' to 3385' with 1800 cfm air, 5 bph H2O/soap mist. Circulate up large amounts of coal fines. Circulate with 1800 cfm air to dry up the hole. TOOH to the shoe. Flow test through a ¾" choke as follows: 15 min-20# = 464 mcfd, 30 min-21# = 478 mcfd, 45 min-22 = 493 mcfd, 60 min-21.5# = 485 mcfd. Cavitate well. Surge 4 times with natural build up. Pressure up to 560 psi in 4 hrs. Flow back 1 hr. Light dust and no water on flow back. Q = 485 mcfd

6-21-1999 Cavitate well. Surge 3 times with natural build up. Pressure up to 660 psi in 4 hrs. Flow back 1 hr. Light dust and steady stream of black water on last surge. TIH, tag fill at 3379' (6' of fill). Clean out from 3354' to 3385' with 1800 cfm air, 5 bph H2O/soap mist. Circulate up large amounts of coal fines. Circulate with 1800 cfm air to dry up the hole. TOOH to shoe. Flow test through a ¾" choke as follows: 15 min-22# = 493 mcfd, 30 min-22# = 493 mcfd, 45 min-21 = 478 mcfd, 60 min-20# = 464 mcfd. Q = 464 mcfd

6-22-1999 Flow natural through both blooie lines. TIH, tag fill at 3380' (5' of fill). Clean out from 3354' to 3385' with 1800-cfm air, 5-bph H2O mist and soap sweeps. Circulate up large amounts of coal fines. Drop 1 compressor and clean out from 3354' to 3385' with 900-cfm air, 5-bph H2O mist and 5 bbl water sweeps to clean out soap. Still circulating up large amounts of coal dust with sweeps

6-23-1999 Clean out from 3354' to 3385' with 900-cfm air, 5-bph H2O mist and 5 bbl water sweeps. Circulate up large amounts of coal fines and dust. Circulate with 1800-cfm air to dry up hole. TOOH to shoe. Flow test through a ¾" choke as follows: 15 min-22.5# = 500 mcfd, 30 min-22.5# = 500 mcfd, 45 min-22# = 493 mcfd, 60 min-22.5# = 500 mcfd. Flow through both blooie lines. TIH, tag fill at 3381' (4' of fill). Clean out from 3354' to 3385' with 900-cfm air. TOOH, lay down drill collars. Change rams for 5 ½" casing. Rig up to run liner. TIH with liner. Q = 500 mcfd

6-24-1999 TIH with 5 ½"liner. (5 jts) Liner hanger @ 3165'. TOOH, lay down 3 ½" drill pipe. RU wire line truck and perforate intervals 3306'-3320', 3356'-3384' with 4 spf. TIH with 106 joints 2 3/8" tbg. Land at 3328'. ND BOP equipment. NUWH. Rig released at 12:00 06/23/99. Notes: 5 jts 5 ½", 15.5#, K-55, LT&C. Top @ 3165', bottom @ 3384'. 106 jts 2 3/8", 4.7#, J-55, EUE 8rd. Land @ 3328', F-nipple @ 3297'