Theorem TS TS To TS To TS TO TO TO TO TO TO TO	DISTATES STORMING INTERIOR AND MANAGEMENT	FORM APPROVED Budget Bureau No. 1/004-0135
SUNDRY NOTICE AND REPORTS ON WELLS Do not use this form for proposals to drill or to deepen or reenty to a different reservoir. Use "APPLICATION TO DRILL" for permit for such proposals		5. Lease Designation and Serial No. SF-078771
		6. If Indian, Allottee or Tribe Name
SUBMIT IN TRIPLICATE		7. If Unit or CA, Agreement Designation ROSA UNIT
1. Type of Well □ Other □ Other		8. Well Name and No. ROSA UNIT #212
Name of Operator WILLIAMS PRODUCTION COMPANY		9. API Well No. 30-039-24391
 Address and Telephone No. PO BOX 3102 MS 37-2, TULSA, OK 7410 	1 (918) 561-6254	10. Field and Pool, or Exploratory Area BASIN FRUITLAND COAL
 Location of Well (Footage, Sec., T., R., M., 1585' FNL & 1070' FEL, SE/4 NE/4, SEC 1 	or Survey Description) 4 T31N R6W 극축	11. County or Parish, State RIO ARRIBA, NM
CHECK APPROPRIA	TE BOX(s) TO INDICATE NATURE OF NOTICE, REF	PORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
■ Notice of Intent □ Subsequent Report □ Final Abandonment	□ Abandonment □ Recompletion □ Plugging Back □ Casing Repair □ Altering Casing ■ Other Cavitation	☐ 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.)
well is directionally drilled, give subsurface	locations and measured and true vertical depths for all m	es, including estimated date of starting any proposed work. It harkers and zones pertinent to this work.)* Procedure. Estimated start date 4/1/1999.
	(D)	MAR - 4 1999 DIV.
14. I hereby certify that the foregoing is true and Signed SUSAN GRIGUHN		pate February 5, 1999
(This space for Federal or State office use) Approved by Conditions of approval, if any:	近日: Title ^{第四回 Land} でいた 編	Date
Title 3 U.S.C. Section 1001, makes it a crime for any postate: ants or representations as to any matter within its		or agency of the United States any false, fictitious or fraudulen

NACO

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WILLIAMS PRODUCTION COMPANY CAVITATION PROGNOSIS

Purpose; To pull the liner and cavitate the Fruitland Coal zone.

- Prepare location, reserve pit, bank, and test anchors prior to rig move.
 Notify BLM 24 hours to moving in.
 Spot all tanks. Spot air package. Use produced water for workover.
- 2. MIRUSU. Nipple up BOP's, 2 blooie lines, working valves and 2" relief line. Test BOP's.
- TOOH w/ tubing and LD.
- 4. TIH with T.I.W. setting tool on 3-1/2" drill pipe. Tag liner top. Thread setting tool into liner langer and pull straight out to release hanger and liner. TOH with liner and drill pipe.
- 5. Re use liner if not damaged. Recondition JGS liner hanger with left hand threads and re-use.
- 6. If liner recovery with setting tool was unsuccessful, mill it out as follows.

 Pickup rotary shoe, bumper sub, jars, 6-1/4" mill and 4-3/4" drill collars on 3-1/2" drill pipe and TIH.

 Mill the top hold down slips off the JGS, Steel Sleeve liner hanger. TOOH. Pick up spear and the fishing tool assembly and TIH. Spear into the liner top and jar liner loose.
- 7. TOOH w/ liner and LD. Repair liner if necessary.
- 8. PU correct size bit on 3-1/2" DP and TIH. Clean out to TD. TOOH
- 9. PU 7" X 9-1/2" Underreamer and underream from casing shoe to TD. TOOH.
- 10. Hook up air package.
- 11. TIH w/ bit on 3-1/2" DP and circulate out fill. Run 5 10 bbl sweeps using 1 GPB of soap if necessary.
- 12. PU bit drill pipe inside casing. Pressure up hole to max pressure then surge. Do this repeatedly. Five to ten times. Also alternate with natural surges periodically.
- 13. Repeat 2-3 weeks or until gas production no longer increases.

NOTE: Accurate choke guages are required after each cycle. Track buildup pressure also.

- 14. TOH w/ 6-1/4" bit on 3-1/2" DP.
- 15. PU original 5-1/2" liner on DP. Run in with reconditioned JGS liner hanger with left hand threads and L A set shoe on bottom of liner. Rotate down if necessary. Land liner @ TD with 100' overlap in casing. TOOH w/ DP and LD.
- 16. Perforate liner. Depths and number of holes will be determined by engineering based off open hole

and mud logs. Use Blue Jets large diameter "Big Hole" shots (0.71" diameter) or equivalent.

- 17. PU 2-3/8", 4.7#, J-55, 8rd, EUE tbg or 2-7/8" to be determined by cavitation results and RIH. Land tubing near bottom perf. Exact depth to be determined. Leave sufficient rat hole.
- 18. ND BOP and NU wellhead. Shut well in for buildup.
- 19. Cleanup location and release rig.

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