In Lieu of Form 3160
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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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

SUBMIT IN TRIPLICATE

5.	Lease Designation and Serial No. SF-078766		
6.	If Indian, Allottee or Tribe Name		
7.	If Unit or CA, Agreement Designation ROSA UNIT		
1.	Type of Well ☐ Oil Well ■ *Gas Well* ☐ Other	8.	Well Name and No. ROSA UNIT #274
2.	Name of Operator WILLIAMS PRODUCTION COMPANY	9.	API Well No. 30-045-27963
3.	Address and Telephone No. PO BOX 3102 MS 37-2, TULSA, OK 74101 (918) 561-6254	10.	Field and Pool, or Exploratory Area BASIN FRUITLAND COAL
4.	Location of Well (Footage, Sec., T., R., M., or Survey Description) 790' FNL & 2415' FEL, NW/4 NE/4, SEC 16 T31N R6W	11.	County or Parish, State SAN JUAN, 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 Sidetrack and Cavitate*	☐ 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.)*

Williams Production Company plans to sidetrack and cavitate this well as per the attached procedure. Estimated start date is April 1, 1999.

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

Signed SUSAN GRIGUHN Title CLERK Date February 11, 1999

(This space for Federal or State office use)

Approved by Title Team Lead, Petroleum Management Date MAR - 4 1999

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

2/9/99

WILLIAMS PRODUCTION COMPANY
SIDETRACK & CAVITATION PROGNOSIS

Purpose; To sidetrack and cavitate this Fruitland Coal zone.

1. Prepare location, reserve pit, bank, and test anchors prior to rig move. Line pit.
   Notify BLM 24 hours to moving in.
   Spot all tanks. Spot air package.

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2. MIRUSU. Nipple up pneumatic actuated BOP's, 2 blooie lines, pneumatic working valves and 2 - 7" blooie lines. Anchor blooie lines securely. Test BOP's. Fill rig tank with produced water. Do not filter water unless necessary.

3 Rig up air package, 1800 cfm minimum.

4. TOOH w/ tubing and LD.

5. Set cmt retainer above liner top or above perfs. Sting into retainer.

6. Establish rate and squeeze perfs below retainer and 10' above retainer with class "B" cement..

SIDETRACK

Objective

KICK OFF ABOVE UPPER PERFS INSIDE CASING OR ABOVE LINER TOP INSIDE INTERMEDIATE. DRILL TO TD.
LAND NEW LINER FROM KICKOFF POINT TO TD

7. On wireline set CIBP at kickoff depth just above a casing collar at a point with good cement bond preferably.

8. Pick up Whipstock(anchorstock) slide assembly and starter mill.TIH with DP, Drill Collars and one joint high grade drill pipe below drill collars. Refer to manufacturer's specs for all recommended milling weights, number of drill collars and RPM.
   Tool length=16 1/2", Anchorstock whip=8' length, 3° whip face angle

9. Set bottom of slide assembly at by applying pressure down drill string. Approximately 3500 psi. May need pump truck.

10. Shear off from slide assembly. Approximately 45,000 psi over drag weight. Begin milling with starter mill.

    Mill as per manufacturer's recommended procedure. Circulate with water.
    a. Run starter mill with joint of high grade drill pipe, S-135, below drill collars. Drill approx. 16".
    b. Run window mill with joint of drill pipe below drill collars. Mill length of whip face plus 10' into formation.
    c. Run window mill and watermellon mill on drill collars. Make several passes through window to clean up burrs. Ream until smooth with no drag.

11. Displace water with gas. Take deviation surveys until 6°-8° is reached. TOH.

12. Do not rotate a bit or stabalizer down the whip face.

13. TIH with " bit, near bit stabalizer and drill collars. Drill enough hole depth to pass the packed BHA through window. TOH.

14. TIH with bit and packed bottom hole assembly (stiff) on DP to maintain deviation. Displace water with gas. Continue normal drilling operations to TD taking frequent surveys. TOH.

15. Blow wellbore clean and check for fill. TOH.
LDDP and collars.

16. Pickup drill pipe and bit and clean out to TD.

CAVITATION

17. Run 5 to 10 bbl sweeps using 1 GPD soap if necessary.

18. PU bit inside casing. Pressure up hole to 2500 psi (maximum pressure) then open to atmosphere. Repeatedly pressure up and surge well. Do natural surges also.

Record any breaks. Record accurate buildup pressure and choke gauges after each cycle. Repeat until gas production no longer increases, 2 – 3 weeks.

19. TOH.

20. PU liner on DP. Run in with JGS liner hanger with left hand threads and L A set shoe on bottom of liner. Rotate down if necessary. Land liner with 100' overlap casing. TOOH w/ DP and LD.

21. PU tbg and land near bottom perf.

22. ND BOP and NU wellhead. Shut well in for buildup.

23. Clean up location and release rig.

Sterg Katirgis
Senior Engineer