

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

RECEIVED  
BLM

98 FEB -4 PM 1:15

070 FARMINGTON, NM

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. SF-078766
2. Name of Operator WILLIAMS PRODUCTION COMPANY	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. PO BOX 3102 MS 37-4, TULSA, OK 74101 (918) 588-4592	7. If Unit or CA, Agreement Designation ROSA UNIT
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1040' FSL & 1310' FWL, SW/4 SW/4, SEC 21 T31N R6W	8. Well Name and No. ROSA UNIT #260
	9. API Well No. 30-039-24577
	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	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Cavitation</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> 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 cavitate this coal well as per the attached procedure.

RECEIVED  
FEB - 9 1998  
OIL CON. DIV.  
DIST. 3

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

Signed Susan Griguhn  
SUSAN GRIGUHN

Title CLERK Date February 2, 1998

(This space for Federal or State office use)

Approved by JS/ Duane W. Spencer

Title \_\_\_\_\_ Date FEB - 6 1998

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.

NMOC

RECEIVED  
FEB 8 1937  
OUT COM. DIV.  
ROOM 3

1/23/98

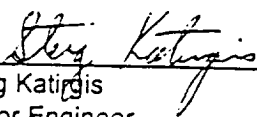
WILLIAMS PRODUCTION COMPANY  
CAVITATION PROGNOSIS  
ROSA 260

Purpose: To cavitate the Fruitland Coal zone.

1. Notify BLM 24 hours to moving in.  
Notify Dante Vescovi with T.I.W.
2. MIRUSU. Nipple up BOP's, 2 blooie lines, hydraulic valves, working valves and 2" relief line. Test BOP's.  
Fill rig pit with produced water. Do not filter water unless necessary.
3. TIH w/ tubing and check for fill. TOH with tbg and LD.
4. Pickup 3-1/2" drill pipe w/ 4-3/4" bit. TIH w/drill pipe and clean out to PBTD @ 3219'. TOO H.
5. Notify Dante Vescovi with T.I.W. to be on location with liner setting/retrieving tool. TIH with T.I.W. setting tool on 3-1/2" drill pipe. Tag liner top at 2910'. Thread setting tool into liner hanger and pull straight out to release hanger and liner. TOH with liner and drill pipe.
6. Recondition 5-1/2" liner as necessary. Order new pipe if necessary. Recondition JGS liner hanger with left hand threads.
7. 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, Right Hand Release liner hanger. TOO H. Pick up a spear and the fishing tool assembly and TIH. Spear into the liner top and jar liner loose.
8. TOO H w/ 5-1/2" Liner and LD. Repair liner if necessary.
9. PU 6-1/4" bit on 3-1/2" DP and TIH. Clean out to 3219'. TOO H.
10. PU 7" X 9-1/2" Underreamer and underream from 3000' to 3219'. TOO H.
11. Install three 750 cfm rated compressors with boosters and one 750 cfm compressor with booster for backup on location.
12. TIH w/ 6-1/4" bit on 3-1/2" DP and circulate out fill. Cavitate well! Run 10 to 5 bbl sweeps using 1 GPB of soap if necessary.
13. PU bit and drill pipe to 2950'. Pressure up hole to 3000 psi (Max pressure) then surge. Do this repeatedly.  
S.I. and measure pressure buildup.
14. Repeat 2-3 weeks or until gas production no longer increases.

NOTE: Accurate guages will be essential in determining the success of each step.

15. TOH w/ 6-1/4" bit on 3-1/2" DP.
16. PU original 5-1/2" Liner on 3-1/2 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 @ 3219' with 60' overlap in 7". TOOH w/ 3-1/2" DP and LD.  
  
If new 5-1/2" is run, perforation depths will be picked as per engineering.
17. PU 2-3/8", 4.7#, J-55, 8rd, EUE tbg and RIH. Land tubing @ 3196'.
18. ND BOP and NU wellhead. Shut well in for buildup.
19. Cleanup location and release rig.

  
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Sterg Katigis  
Senior Engineer

PERTINENT DATA SHEET

WELLNAME: Rosa #260

FIE\_D: Basin Fruitland Coal

LOCATION: 1040'FSL, 1310'FWL, Sec 21, T31N, R6W

ELEVATION: 6350 GL TD: 3219'  
KB: 12' PBTD: 3219'

COUNTY: Rio Arriba

STATE: New Mexico

DATE COMPLETED: 12/8/89

CASING TYPE	CASING SIZE	HOLE SIZE	WEIGHT & GRADE	DEPTH	CEMENT	TOP
Surface	9-5/8"	12-1/4"	36.00#, K-55	220'	240 sx	surface
Intermediate Casing	7"	8-3/4"	23.0#, K-55	2978'	535 sx	surface
Production Liner	5-1/2"	6-1/4"	15.5#, K-55	2910'-3218'	NO CEMENT	

TUBING EQUIPMENT 102 jts, 2-3/8", 4.7#, J-55, 8 rd, landed @ 3196'. SN nipple one jt off bottom.

WELLHEAD: Casing Head: 9-5/8" X 11" 3000#

Tubing Head 7-1/16" 3000#

FORMATION TOPS:

Ojo Alamo	2285' (est)
Kirtland	2450' (est)
Fruitland	3940' (est)

LOGGING RECORD: Mud log.

PERFORATIONS: 2996'-3084', 3128'-3216'

STIMULATION: circulated and ran sweeps for 4 days

WORK OVER HISTORY Changed out tbg 4/29/97

SGK 1/23/98

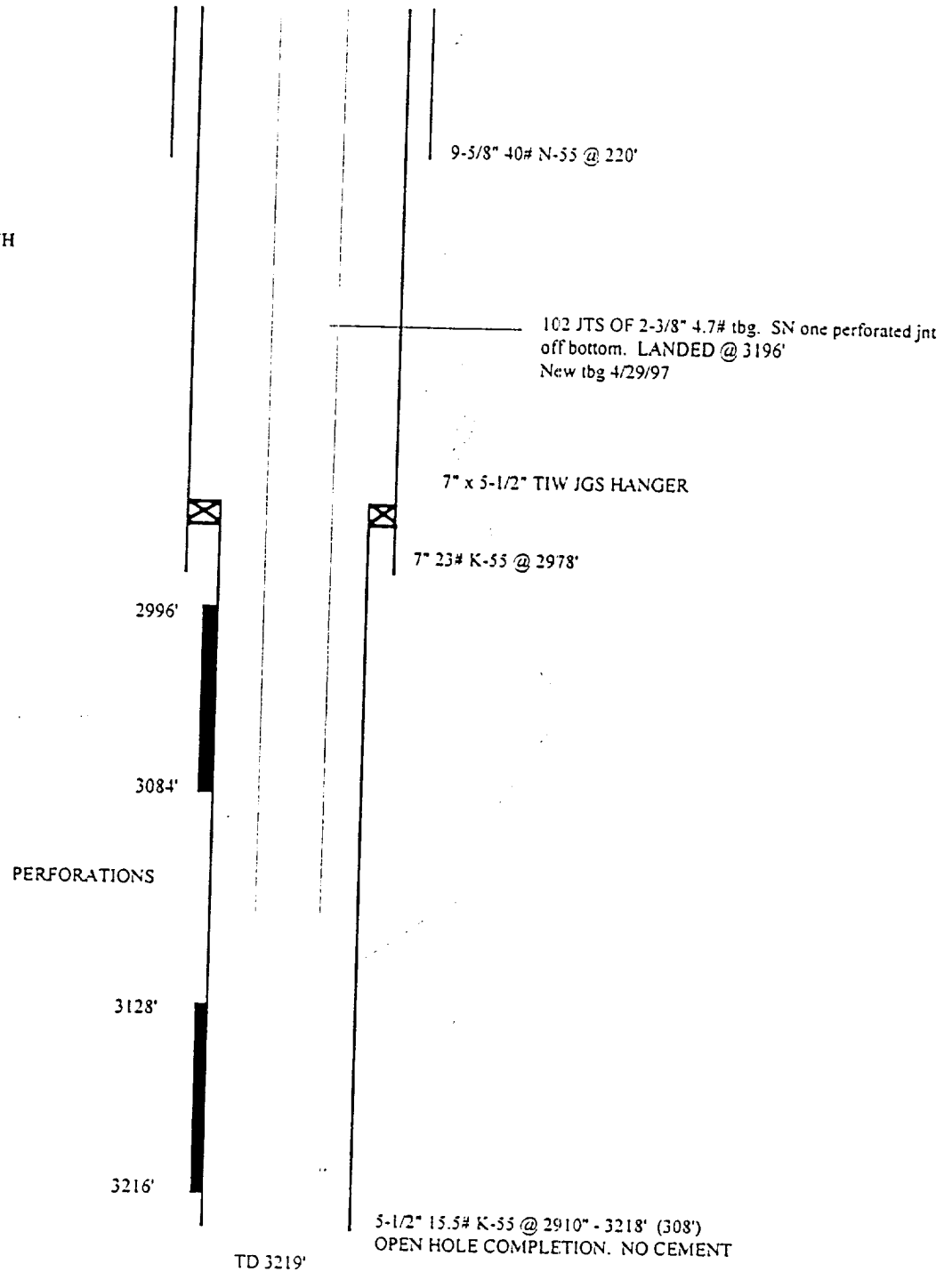
# WELLBORE DIAGRAM

ROSA #260 FRT COAL

Location: 1040' FSL, 1310' FWL  
SW/4 SW/4 Section 21, T31N, R6W  
Rio Arriba Co., NM

Elevation = 6350' GR  
KB = 12'

TOPS	DEPTH
OJO ALAMO	2285'
KIRTLAND	2450'
FRUITLAND	2940'



HOLE SIZE	CASING	CEMENT	TOP OF CMT
12-1/4"	9-5/8" 36# K-55	240 sx	SURFACE
8-3/4"	7" 23# K-55	535 sx	SURFACE
6-1/4"	5-1/2" K-55	N/A	N/A