

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

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

RECEIVED
BLM

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

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-078764
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) 1215' ENL & 1183' FEL, NE/4 NE/4, SEC 30 T31N R5W	8. Well Name and No. ROSA UNIT #223
	9. API Well No. 30-039-24425
	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

Title CLERK

Date February 2, 1998

(This space for Federal or State office use)

Approved by

AS/ 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.

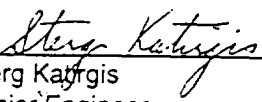
WILLIAMS PRODUCTION COMPANY
CAVITATION PROGNOSIS
ROSA 223

Purpose: To cavitate the Fruitland Coal zone.

1. Notify BLM 24 hours to moving in.
Check rig anchors and build pits.
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 to consist of three 750 cfm air compressors with booster and one 750 cfm compressor with booster for backup, or equivalent.
4. TOOH w/ 98 jts of 2-3/8" tubing and LD.
5. Pickup 3-1/2" drill pipe w/ 4-3/4" bit. TIH w/drill pipe and clean out to PBTD @ 3206'. TOH.
6. PU 7" X 9-1/2" Underreamer and underream from 3050' to 3206'. TOOH.
7. Run 5 to 10 bbl sweeps using 1 GPD soap if necessary.
8. PU bit inside 7" casing. Pressure up hole to 3000 psi (maximum pressure) then open to atmosphere. Repeatedly surge well. SI for buildup after surging about 5 times.

Record any breaks. Record accurate buildup pressure and pitot gauges after each cycle. Repeat until gas production no longer increases, 2 - 3 weeks.
9. TOH w/ 6-1/4" bit and 3-1/2" DP.
Order out 5-1/2" casing.
10. Notify Dante Vescovi with TIW to run liner.
PU 5-1/2" liner on 3-1/2" 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 @ 3206' with 100' overlap in 7". TOOH w/ 3-1/2" DP and LD.
11. Load hole w/ formation water or pressure up wellbore with air package to 1200 psi. Perforate 4 JSPF with 0.50" holes at depths to be decided by Engineering;
12. TIH w/ 2-3/8", 4.7#, J-55, 8rd, EUE tbg and RIH. Land tubing @ 3180'.
13. ND BOP and NU wellhead. Shut well in for buildup.

14. Clean up location and release rig.



Sterg Kargis
Senior Engineer

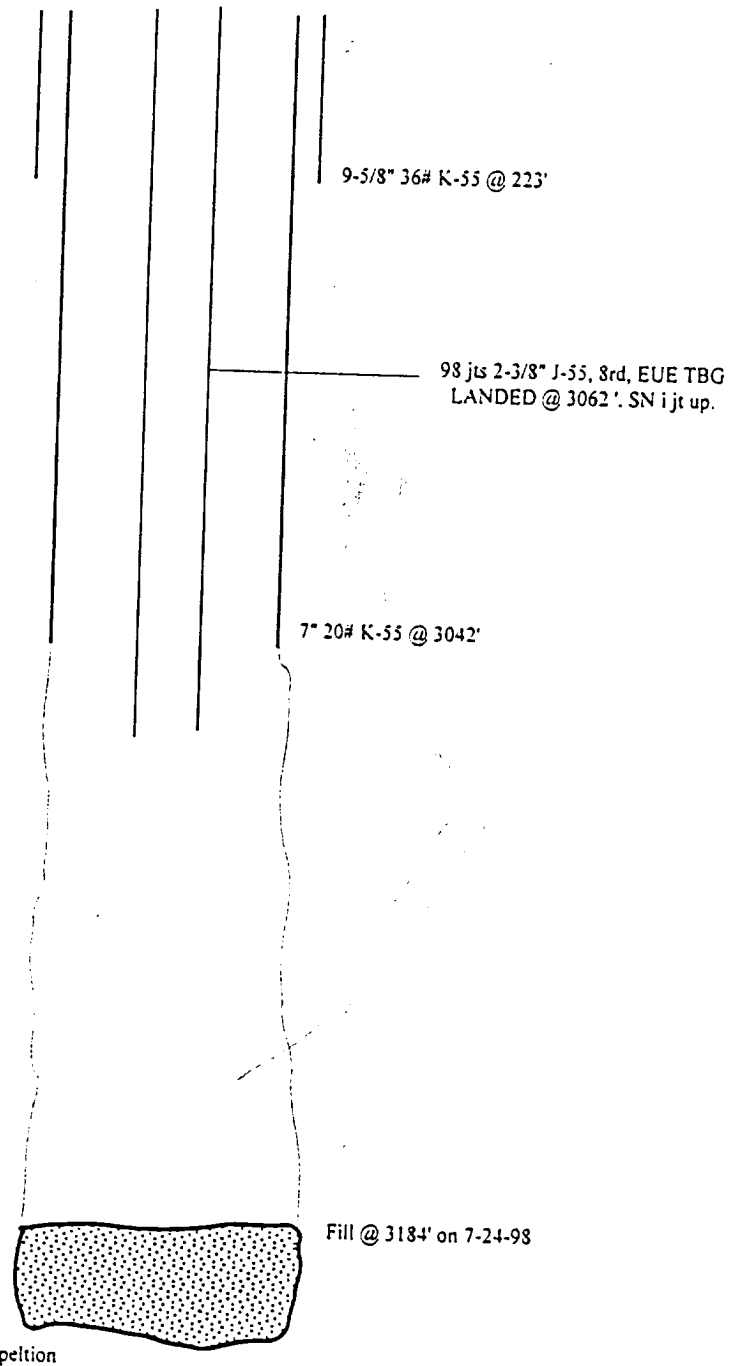
WELLBORE DIAGRAM

ROSA #223 FRT COAL

Location: 1215' FNL, 1185' FEL
NE/4 NE/4 Section 30, T31N, R5W
Rio Arriba Co., NM
Completed 4/27/91

Elevation = 6360' GR
KB = 12'

TOPS	DEPTH
OJO ALAMO	2490'
KIRTLAND	2600'
FRUITLAND	3070'



TD 3206'
Open hole completion

HOLE SIZE	CASING	CEMENT	TOP OF CMT
12-1/4"	9-5/8" 36.0#	160 sx	SURFACE
8-3/4"	7" 20.0#	520 sx	SURFACE
6-1/4"	N/A	N/A	N/A

PERTINENT DATA SHEET

WELLNAME: Rosa #223

FIELD: Basin Fruitland Coal

LOCATION: 1215'FNL, 1185'FEL, Sec 30, T31N, R5W

ELEVATION: 6360 GL TD: 3206'
KB: 12' PBTD: 3206'

COUNTY: Rio Arriba

STATE: New Mexcio

DATE COMPLETED: 4/27/91

CASING TYPE	CASING SIZE	HOLE SIZE	WEIGHT & GRADE	DEPTH	CEMENT	TOP
Surface	9-5/8"	12-1/4"	36.00#, K-55	223'	160 sx	surface
Intermediate Casing 7"		8-3/4"	20#, K-55	3042'	520 sx	surface
6-1/4" OPEN HOLE TO 3206'.						

TUBING EQUIPMENT 98 jts, 2-3/8", 4.7#, J-55, 8 rd, landed @ 3062'. 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	2490'
Kirtland	2600'
Fruitland	3070'

LOGGING RECORD: none

PERFORATIONS: open hole to 3206'

STIMULATION: circulated and ran sweeps for 2-1/2 days

WORK OVER HISTORY Changed out tbg 4/29/97. Bottom 2 jts plugged with coal and scale.

SGK 1/23/98