

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

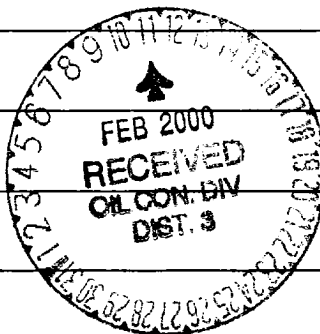
FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

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

SUBMIT IN TRIPLICATE

1. Type of Well Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>	5. Lease Designation and Serial No. SF-078773
2. Name of Operator WILLIAMS PRODUCTION COMPANY	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. PO BOX 3102 MS 37-2, TULSA, OK 74101 (918) 573-6254	7. If Unit or CA, Agreement Designation ROSA UNIT
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1300' FSL and 905' FWL SE/4 SW/4 SEC 33-31N-05W	8. Well Name and No. ROSA UNIT #259
	9. API Well No. 30-039-24612
	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	Abandonment
<input type="checkbox"/> Subsequent Report	Recompletion
<input type="checkbox"/> Final Abandonment	Plugging Back
	Casing Repair
	Altering Casing
	Other <u>Cavitation</u>
	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.)

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 well as per the attached procedure on or about April 1, 2000

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

Signed Tracy Ross
TRACY ROSS

Title Production Analyst Date February 2, 2000

(This space for Federal or State office use)

Approved by /s/ Charlie Beecham

Title _____

Date FEB - 2 - 2000

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.

NMCGD

2/1/2000

WILLIAMS PRODUCTION COMPANY
SIDETRACK & CAVITATION PROGNOSIS
ROSA 259

Purpose: To sidetrack higher uphole and cavitate this Fruitland Coal zone.

1. Notify BLM 24 hours to moving in.
Notify mud loggers; Soft Rock. John Bircher is the backup.
Notify Dante Vescovi with TIW.
Notify wireline gyro company **1 week prior to moving in**; Gyro Data Inc, Jim Gilmore, (915) 561-8458.
Scientific Drilling Inc, George Moody, (915)563-1339 will be the backup. They will need as much time as possible to drive from Midland.
Order 5-1/2" liner.
Order 4" flush joint liner.
2. MIRUSU. Nipple up pneumatic actuated BOP's, 2 blooie lines, pneumatic working valves and 2 - 7" blooie lines. Anchor blooie lines securely. Test BOPss. Fill rig tank with produced water. Do not filter water unless necessary.
3. Rig up air package, 1800 cfm minimum at 2000 psi.
4. TOOH w/ 2-3/8" tubing and LD.
5. Set CIBP in 7" above a casing collar at 2537'. This will be the kick off point.

SIDETRACK in a north east direction (60° from North) @ 8°, from 2537' bottom of new hole should be $\pm 115'$ from original hole. **Straighten hole to vertical through the coals.**
Measured depth \approx 826' from kick off point.

Objective
KICK OFF INSIDE 7" CASING. DRILL TO TVD = 3357' (estimated bottom of basal coal)
LAND 5-1/2" CASING FROM 7" SIDETRACK TO TD ABOVE COALS. DRILL OUT TO TD.
REVIEW PROCEDURE WITH WEATHERFORD AND GYRO WIRELINE COMPANY PRIOR TO RUNNING TOOLS

6. Pick up Weatherford whipstock(anchorstock) slide assembly, starter mill, watermelon mill, and **orienting sub**. TIH with 3-1/2" DP, 4-3/4" Drill Collars and one joint high grade drill pipe below drill collars to BP. Refer to manufacturer's specs for all recommended milling weights, number of drill collars and RPM.
Tool length=16', 2° whip face angle.
7. RIH with gyroscopic tool on wireline. Sting into sleeve in orienting sub. Orient whipstock to North East direction (60°from north). Pull out of sleeve, remove any torque from drill string and set whipstock.
Pull out gyro tool.

8. 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 6-1/4" 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 watermelon mill on drill collars. Make several passes through window to clean up burrs. Ream until smooth with no drag.
9. Drill with water. Deviate to 8° and hold. Take deviation surveys until 8° is reached, at each joint and TD. TOH.
10. Do not rotate a bit or stabilizer down the whip face.
11. TIH with 4-3/4" bit, near bit stabilizer and drill collars. Drill enough hole depth to pass the packed BHA through window. TOH.
12. TIH with 6-1/8" bit and packed bottom hole assembly (stiff) on DP to maintain deviation. Continue normal drilling operations to TVD of 3217'. Estimated measured depth of 3223'. Use "Soft Rock" to determine TD-above coals. TOH.
13. RIH with 760' of 5-1/2", 15.5#, K-55 liner to bottom. Hang with ±75' overlap in 7" using TIW hanger.
14. Cement liner with 50% excess CI "B" w/ 2% CaCl. WO cmt 12 hrs. BJ will calculate cmt volumes.
15. Pick up 4-3/4" bit and drill to TVD of 3357'. Estimated MD = 3365'. Use "Soft Rock" to identify coals and to determine actual TD (bottom of basal coal).
16. Underream open hole to 8-1/2" from 5-1/2" shoe to TD. TOH.


CAVITATION

17. Run 5 to 10 bbl sweeps using 1 GPD soap if necessary.
18. PU bit inside 7" casing. Pressure up hole to 2500 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.
19. TOH w/ bit and DP.
20. Notify Dante Vescovi with TIW to run liner.
PU **pre drilled** 4", 11#, Atlas Bradford FL-4S flush joint liner on DP. 5 joints total & bottom 3 joints pre-drilled w/ plugs. 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 @ TD' with ±50' overlap in 5-1/2". TOOH w/ DP.

TIH and mill out aluminum plugs in 4". TOH.
21. PU 2-3/8", 4.7#, J-55, 8rd, EUE tbg and and TIH. Land tubing @ ±3300'.

22. ND BOP and NU wellhead. Shut well in for buildup.
23. Clean up location and release rig.


Sterg Katirgis
Senior Engineer

ROSA UNIT #259

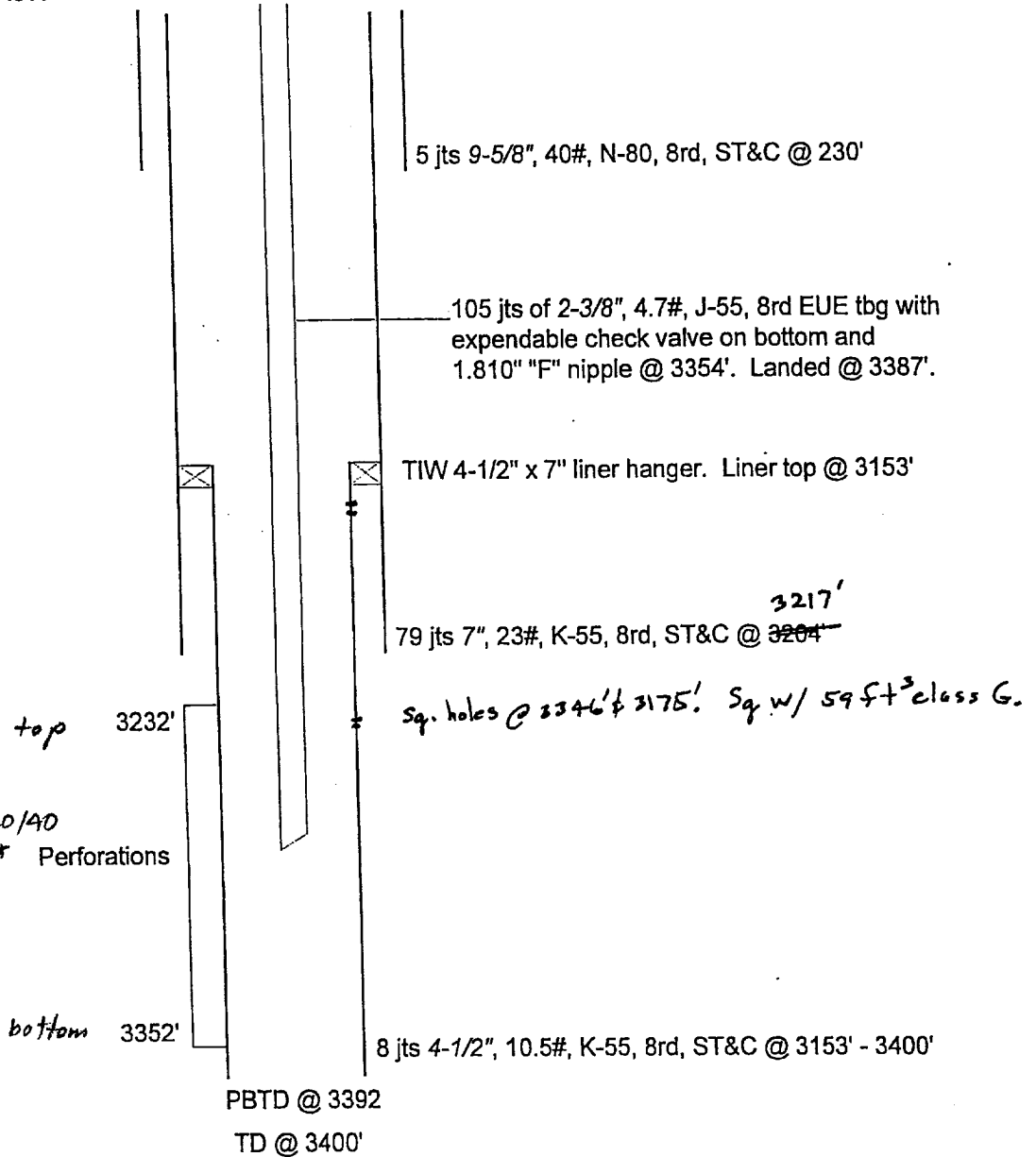
BASIN FRUITLAND COAL

1300' FSL 905' FWL
SW/4 SW/4 SEC 33M T31N R5W
Rio Arriba Co, NM

Elevation: 6520' GL
KB 12'

Drilled in 1989

Ojo Alamo 2664'
Kirtland 2803'
Fruitland 3182'
Pictured Cliffs 3361'



HOLE SIZE	CASING	CEMENT	TOP OF CMT
12-1/4"	9-5/8" 40#	160 sx	SURFACE
8-3/4"	7" 23#	550 sx	SURFACE
6-1/4"	4-1/2" 10.5#	50 sx	3153'