

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

5. Lease Designation and Serial No.
SF-078765
6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
WILLIAMS PRODUCTION COMPANY

3. Address and Telephone No.
PO BOX 3102 MS 37-4, TULSA, OK 74101 (918) 588-4592

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
790' FSL & 1490' FWL, SE/4 SW/4, SEC 9 T31N R6W

Well Name and No.
ROSA UNIT #234

API Well No.
30-659-27314

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

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Sidetrack

- ☐ 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 sidetrack this Fruitland Coal well to the same zone and cavitate. Estimated start date is October 20, 1998. Attached is the proposed procedure.

RECEIVED
OCT 7 1998
OCT 7 1998
OCT 7 1998

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

Signed Susan Griguhn
SUSAN GRIGUHN

Title CLERK Date October 3, 1998

(This space for Federal or State office use)

Approved by Ami Jateb

Title Acting Team Lead Date 10/9/98

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.

②

NMOC

✓

WILLIAMS PRODUCTION COMPANY
SIDETRACK & CAVITATION PROGNOSIS
ROSA 234

Purpose: To sidetrack and cavitate this Fruitland Coal zone.

1. Notify BLM 24 hours to moving in.
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/ 2-3/8" tubing and LD.
5. On wireline set cmt retainer at $\pm 2880'$. Set just above a casing collar. This will also be the kick off point.
6. Establish rate and pump Class "B" cement below retainer. Calculate volume from retainer to bottom perf plus 20% outside csg. Reverse circulate out any excess cement.

SIDETRACK

Objective

KICK OFF 19' ABOVE LINER TOP INSIDE 7" CASING. DRILL TO TVD = 3294'
AND 5-1/2" CASING FROM SIDETRACK TO TD
REVIEW PROCEDURE WITH BAKER PRIOR TO RUNNING TOOLS

7. Pick up Whipstock(anchorstock) slide assembly and starter mill. TIH with 3-1/2" DP, 4-3/4" 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', 2° whip face angle
8. Set bottom of slide assembly at 2880' by applying pressure down drill string. Approximately 3500 psi. May need pump truck.
9. 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.
10. Displace water with gas. Take deviation surveys until 5° is reached. TOH.
11. Do not rotate a bit or stabalizer down the whip face.
12. TIH with 4-3/4" bit, near bit stabalizer and drill collars. Drill enough hole depth to pass the packed BHA

through window. TOH.

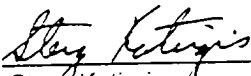
13. TIH with 6-1/8" bit and packed bottom hole assembly (stiff) on DP to maintain deviation. Continue normal drilling operations to TVD of 3294' taking frequent surveys. TOH.
14. Run open hole logs ??
15. Pickup 3-1/2" drill pipe w/ 6-1/8" bit. TIH w/drill pipe and clean out to TD.

Undream open hole to 9-5/8" from 7" shoe to TD.

CAVITATION

16. Run 5 to 10 bbl sweeps using 1 GPD soap if necessary.
17. 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.
18. TOH w/ bit and DP.
19. Notify Dante Vescovi with TIW to run liner.
PU 5-1/2" liner on DP. Run in with JGS liner hanger with left hand threads and LA set shoe on bottom of liner. Rotate down if necessary. Land liner @ 3294' with 100' overlap in 7". TOOH w/ DP and LD.
20. PU 2-7/8", 6.5#, J-55, 8rd, EUE tbg and and TIH. Land tubing @ 3230'.
21. ND BOP and NU wellhead. Shut well in for buildup.
22. Clean up location and release rig.



Steve Katirgis
Senior Engineer

PERTINENT DATA SHEET

WELLNAME: Rosa #234

FIELD: Basin Fruitland Coal

LOCATION: 790'FSL, 1490'FWL, Sec 9, T31N, R6W

ELEVATION: 6420' GL TD: 3294'
KB: 12' PBTD: 3275'

COUNTY: Rio Arriba

STATE: New Mexico

DATE COMPLETED: 1/91

ID Date 11/21/94

CASING TYPE	CASING SIZE	HOLE SIZE	WEIGHT & GRADE	DEPTH	CEMENT	TOP
Surface	9-5/8"	12-1/4"	40#, N-80	229'	160 sx	surface
Intermediate	7"	8-3/4"	23#, K-55	3064'	500 sx	250'
					Perfed @240'. Circ cmt to surface.	
Liner	4-1/2"	6-1/4"	10.5#, J-55	2899-3293	50 sx	2899'
TIW 4-1/2"x7", THL liner hanger						

TUBING EQUIPMENT 97 jts, 2-3/8", 4.7#, J-55, 8 rd, landed @ 3066'. F nipple one jt off bottom @ 3033'.
Expendable check on bottom.

WELLHEAD:

Casing Head:

Tubing Head

FORMATION TOPS:

Ojo Alamo	2398'
Kirtland	2518'
Fruitland	2983'

LOGGING RECORD:

GR-CNL-DIL-COAL LOG, CBL

PERFORATIONS:

3100' - 3238' w/ 52 - 0.45" holes

STIMULATION:

5,000 gals METH., 5,000 GALS 2% KcL, 76,970 gals 35# x-linked gel, 6,500#
40/70 sd, 166,800# 20/40 sd

WORK OVER HISTORY

SGK 7/30/1998

ROSA UNIT #234

FRUITLAND COAL

790' FSL 1490' FWL
SE/4 SW/4 SEC 9N T31N R6W
San Juan Co, NM

Elevation: 6420' GL
KB 12'

Spud Date 1990
ID'd Date 1994

Perforate 2 squeeze
holes @ 240'. Circulate
cmt to surface.

Ojo Alamo 2398'
Kirtland 2518'
Fruitland 2983'
Pictured Cliffs 3251'

5 jts 9-5/8", 40#, N-80, 8rd, ST&C @ 229'

102 jts of 2-3/8", 4.7#, J-55, 8rd EUE tbg with
expendable check valve on bottom and
Baker "F" nipple (1.81' ID) @ 3190'. Landed
@ 3223'.

TIW 7" x 4-1/2" liner hanger. Top @ 2899'.
TIW hanger, THL
71 jts 7", 23#, K-55, 8rd, ST&C @ 3064'

3100'

Perforations

Frac
6,500 # 40/70 sd, 166,800 # 33'
20/40 sd in 76,970 gals 52 holes
35 # Borate x-linked gel 0.45" holes
3238'

PBTD @ 3275'

TD @ 3294'

10 jts 4-1/2", 10.5#, J-55 @ 2899' - 3293'

HOLE SIZE	CASING	CEMENT	TOP OF CMT
12-1/4"	9-5/8" 40#	150 sx	SURFACE
8-3/4"	7" 23#	500 sx	250' (Temp)
6-1/4"	4-1/2" 10.5#	50 sx	