

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Williams Production Company					Lease or Unit Name ROSA UNIT				
Test Type X Initial Annual Special			Test Date 9/21/2000		Well Number #351				
Completion Date 8/26/2000		Total Depth 3706'		Plug Back TD 3680'		Elevation 6787'		Unit Sec Twp Rng N 11 31N 5W	
Casing Size		Weight d		Set At		Perforations: From To		County Rio Arriba	
Tubing Size		Weight d		Set At		Perforations: From To		Pool Basin	
Type Well - Single-Bradenhead-GG or GO Multiple				Packer Set At		Formation Fruitland Coal			
Producing Thru Tubing		Reservoir Temp. oF		Mean Annual Temp. oF		Barometer Pressure - Pa		Connection	
L	H	Gg 0.6	%CO2	%N2	%H2S	Prover 3/4"		Meter Run	Taps

FLOW DATA					TUBING DATA		CASING DATA		
NO	Prover Line Size	X Orifice Size	Pressure p.s.i.q	Temperature oF	Pressure p.s.i.q	Temperature oF	Pressure p.s.i.q	Temperature oF	Duration of Flow
SI	2" X 3/4"				0		1125		0
1					790	60	885		0.5 hr
2					410	64	610		1.0 hr
3					210	68	415		1.5 hrs
4					160	69	360		2.0 hrs
5					25	70	300		3.0 hrs

RATE OF FLOW CALCULATION										
NO	Coefficient (24 Hours)				hwPm	Pressure Pm	Flow Temp. Factor Fl	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	9.604					37	0.9905	1.29	1.004	456
2										
3										
4										
NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ration					Mcf/bbl.
1					A.P.I Gravity of Liquid Hydrocabrons _____					Deq.
2					Specific Gravity Separator _____					
3					Specific Gravity Flowing Fluid xxxxxxxxxx					XXXXXX
4					Critical Pressure _____ p.s.i.a.					____ p.s.i.a.
5					Critical Temperature _____ R					____ R
Pc	1137	Pc ²	1292769							
NO	Ptl	Pw	Pw ²	Pc ² -Pw ²	(1) $\frac{Pc^2}{Pc^2 - Pw^2} =$ 1.0814305					(2) $\frac{Pc^{2n}}{Pc^2 - Pw^2} =$ 1.0605
1		312	97344	1195425						
2										
3										
4					AOF = Q $\frac{Pc^{2n}}{Pc^2 - Pw^2} =$ 483					
Absolute Open Flow		483	Mcf/d @ 15.025		Angle of Slope _____			Slope, n 0.75		

Remarks:			
Approved By Commission:	Conducted By: Mark Lepich	Calculated By: Tracy Ross	Checked By: Stergie Katirgis

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-078762

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

SUBMIT IN TRIPLICATE

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

8. Well Name and No.
ROSA UNIT #351

2. Name of Operator
WILLIAMS PRODUCTION COMPANY

9. API Well No.
30-039-26296 **26246**

3. Address and Telephone No.
PO BOX 3102 MS 37-2, TULSA, OK 74101 (918) 573-6254

10. Field and Pool, or Exploratory Area
BASIN FRUITLAND COAL

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
N 1260' FSL & 1725' FWL, SE/4 SW/4 SEC 11-31N-05W

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
Notice of Intent	Abandonment
<input checked="" type="checkbox"/> Subsequent Report	Recompletion
Final Abandonment	Plugging Back
	Casing Repair
	Altering Casing
	<input checked="" type="checkbox"/> Other <u>DRILLING COMPLETION</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.)*

7-30-2000 MI RU, mix spud mud, drill mouse hole and rat hole, drill surface, spud 0500 hrs 07/30/00

7-31-2000 Drill surface to 300', run 6 jts 9 5/8" casing set @ 292.49', cement w/ BJ w/ 150 sx type III w/ 2% CaCl₂ and 1/4# celloflake per sx, plug down @ 1615 hrs, WOC, NU bradenhead, BOP, pressure test, PU shock sub & bit, TIH

8-01-2000 Drill and survey to 2322'

8-02-2000 Drill and survey from 2331'-3440', mix mud, short trip, circulate on bottom

8-03-2000 Circulate hole clean. LD DP & DC's. RU casing crew, PU and run 75 jts 7" (3424') 20# K-55 8rd casing set @ 3439', cement nose guide shoe on bottom and insert float one joint up @ 3395', (had 19.6' cutoff). Wash 80' to TD. BJ cemented w/ 445 sx (925 cu ft) type III w/ 65/35 poz w/ 8% gel, 1% CaCl₂ and 1/4# cello-flake per sx followed w/ 170 sx (238 cu ft) type III w/ 1% CaCl₂ and 1/4# cello-flake per sx, good circulation throughout, circulated 5 bbl cement to surface. Plug down 1700 hrs 08/02/00, WOC, NU cavitation equipment

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

Signed Tracy Ross
Tracy Ross

Title Production Analyst

Date NOV 25 2000
ACCEPTED FOR RECORD

(This space for Federal or State office use)

Approved by _____

Title _____

Date NOV 01 2000

Conditions of approval, if any:

FARMINGTON FIELD OFFICE
BY [Signature]

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.