

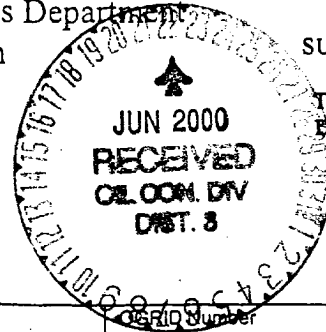
District I - (505) 393-6161  
1625 N. French Dr  
Hobbs, NM 88240  
District II - (505) 748-1283  
811 S. First  
Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Road  
Aztec, NM 87410  
District IV - (505) 827-7131  
2040 S. Pacheco  
Santa Fe, NM 87505

New Mexico  
Energy Minerals and Natural Resources Department  
Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

Form C-140  
Revised 06/99

SUBMIT ORIGINAL  
PLUS 2 COPIES  
TO APPROPRIATE  
DISTRICT OFFICE

APPLICATION FOR  
WELL WORKOVER PROJECT



I. Operator and Well

Operator name & address Williams Production Company P.O. Box 3102 Tulsa, OK 74101						120782		
Contact Party Kristine Russell						Phone 918/573-6181		
Property Name Rosa Unit				Well Number 272		API Number 30-039-24808		
UL L	Section 35	Township 31N	Range 5W	Feet From The 2510'	North/South Line S	Feet From The 790	East/West Line W	County Rio Arriba

II. Workover

Date Workover Commenced: 7/16/1999	Previous Producing Pool(s) (Prior to Workover):
Date Workover Completed: 8/5/1999	

III. Attach a description of the Workover Procedures performed to increase production.

IV. Attach a production decline curve or table showing at least twelve months of production prior to the workover and at least three months of production following the workover reflecting a positive production increase.

V. AFFIDAVIT:

State of Oklahoma )  
County of Tulsa ) ss.  
Kristine Russell, being first duly sworn, upon oath states:

- I am the Operator, or authorized representative of the Operator, of the above-referenced Well.
- I have made, or caused to be made, a diligent search of the production records reasonably available for this Well.
- To the best of my knowledge, this application and the data used to prepare the production curve and/or table for this Well are complete and accurate.

Signature Kristine Russell Title Production Analyst Date 6/21/2000  
SUBSCRIBED AND SWORN TO before me this 21 day of JUNE, 2000.  
Shirley L. Davis  
Notary Public  
My Commission expires: 10-10-01

FOR OIL CONSERVATION DIVISION USE ONLY:

VI. CERTIFICATION OF APPROVAL:

This Application is hereby approved and the above-referenced well is designated a Well Workover Project and the Division hereby verifies the data shows a positive production increase. By copy hereof, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval and certifies that this Well Workover Project was completed on 8/5/99.

Signature District Supervisor <u>[Signature]</u>	OCD District <u>3</u>	Date <u>9/1/00</u>
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VII. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT: \_\_\_\_\_

In Lieu of  
Form 3160  
(June 1990)

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

070 FARMINGTON, NM

5. Lease Designation and Serial No.  
SF-078773

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation  
ROSA UNIT

8. Well Name and No.  
ROSA UNIT #272

9. API Well No.  
30-039-24808

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

11. County or Parish, State  
RIO ARRIBA, NM

SUBMIT IN TRIPPLICATE

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 37-2, TULSA, OK 74101 (918) 561-6254

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
2510' FSL & 790' FWL, NW/4 SW/4, SEC 35 T31N R5W

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 Cavitation Complete

- ☐ 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.)\*

7-16-1999 MIRU service unit. NDWH. NU BOP equipment and lay blooie lines. Test BOP equipment to 1000 psi with rig pump. Test OK. Pull doughnut and 2 3/8" production tubing. Change rams for 3 1/2" drill pipe. Pick up liner retrieving tool, 10-4 3/4" drill collars and 3 1/2" drill pipe. TIH to 3375'. Try to latch onto liner hanger. Unable to recover liner. TOOH with liner retrieving tool

7-17-1999 TOOH with liner retrieving tool. Pick up a 6 1/4" mill and TIH to top of liner at 3375'. Mill top of liner from 3375' to 3376'. Stuck mill at 3376'. Work pipe until free. Mill on liner top at 3376'. Unable to make any mill to cut. TOOH with mill. Lay down mill, bit sub and 1 drill collar. Looks like possible down hole fire damage. Mill and bit sub in bad shape. Unable to break tools from the drill collar. Pick up new 6 1/4" mill and bit sub. TIH to top of liner at 3376'. Mill liner top from 3376' to 3379'. TOOH with mill. Cut and slip 285' of bad drilling line. Pick up a casing spear, jars, bumper sub and excelerator. Work on light plant. TIH with fishing tools

7-18-1999 TIH with fishing tools to top of liner at 3379'. Spear into top of liner. Jar liner free. TOOH with fish. Lay down fishing tools. Lay down 4 joints 5 1/2" csg. TIH with a 6 1/4" bit. Tag bridge at 3520'. Clean out from 3507' to 3555' (TD at 3555', solid bottom, 3' below bottom coal) with 1800 cfm air, 10 bph H2O mist. TOOH with bit. Pick up under reamer, TIH with under reamer to 3453'. Under ream from 3453' to 3540'. Open hole from 6 1/4" to 9 1/2". Circulate with 1800 cfm air, 10 bph H2O mist

Continued on Back

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

Signed

TRACY ROSS

Title Production Analyst

Date August 12, 1999

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

RECEIVED FOR RECORD

AUG 11 1999

**7-19-1999** Under ream from 3540' to 3555'. Open hole from 6 1/4" to 9 1/2". Circulate with 1800 cfm air, 10 bph H2O mist. TOOH. Lay down under reamer. TIH with a 6 1/4" bit. Tag fill at 3545' (10' of fill). Clean out from 3535' to 3555' with 1800-cfm air, 5 bph H2O mist and water/soap sweeps. Circulate up large amounts of coal fines. Circulate with 1800-cfm air to dry up the hole. TOOH to shoe. Flow test through a 3/4" choke as follows: 15 min-27# = 565 mcf, 30 min-29# = 594 mcf, 45 min-29.5# = 601 mcf, 60 min-27# = 565 mcf. Cavitare well. Surge with 1800 cfm air, 5 bph H2O mist

**7-20-1999** Cavitare well. Surge 6 times with 1800 cfm air, 5 bph H2O mist and 8 times with 1800 cfm air, 5 bph H2O and water pads. Pressure up to 1250 psi in 1 1/2 hrs, Flow back for 1/2 to 3/4 hrs. Had 20' flares. Heavy water returns, very light coal fines back on last 3 surges. Unable to pressures up above 1250 psi. Pump into formation at this pressure

**7-21-1999** Cavitare well. Surge 6 times with 1800 cfm air, 5 bph H2O and water/soap pads. Pressure up to 1250 psi in 1 1/2 hrs, Flow back for 1/2 to 3/4 hrs. Had 25' flares. Heavy water returns. One surge up to 2000 psi, had heavy black water returns and coal fines/dust. Bridged well bore off. TIH, tag bridge at 3507'. Clean out with 1800 cfm air, 5 bph H2O mist and 5 bbl water sweeps. Circulate up large amounts of coal fines. Coals maybe running

**7-22-1999** Clean out from 3507' to 3555' with 1800 cfm air, 5 bph H2O mist and 5 bbl water/soap sweeps. Circulate up large amounts of coal fines. Coals running. Circulate with 1800 cfm air to dry up the hole. TOOH to shoe. Flow test through a 3/4" choke as follows: 15 min-37# = 710 mcf, 30 min-45# = 826 mcf, 45 min-46# = 841 mcf, 60 min-46# = 841 mcf. TOOH to inspect the drill collars. Q = 841 mcf

**7-23-1999** TOOH to inspect the drill collars. Inspect drill collars. All drill collars checked out OK. TIH to check for fill. Tag fill at 3554', had 1' of fill. TOOH to shoe. Cavitare well. Surge 9 times with 1800 cfm air, 5 bph H2O mist. Pressure up to 1150 psi in 1 1/2 hr, flow back 1/2 hr. Had 25' flare, heavy water and light to medium coal dust/fines return on flow back

**7-24-1999** Cavitare well. Surge 3 times with 1800 cfm air, 5 bph H2O mist. Pressure up to 1150 psi in 1 1/2 hr, flow back 1/2 hr. Had 25' flare, heavy water and light to medium coal dust/fines return on flow back. TIH, tag fill at 3551' had 4' of fill. Clean out from 3534' to 3555' with 1800 cfm air, 5 bph H2O mist and 5 bbl water/soap sweeps. Circulate up large amounts of coal fines with sweeps. Circulate with 1800 cfm air to dry up the hole. TOOH to shoe. Flow test through a 3/4" choke as follows: 15 min-42# = 783 mcf, 30 min-44# = 812 mcf, 45 min-44# = 812 mcf, 60 min-44# = 812 mcf. Q = 812 mcf

**7-25-1999** Cavitare well. Surge 12 times with 1800 cfm air, 5 bph H2O mist. Pressure up to 1150 psi in 1 1/2 hr, flow back 1/2 hr. Had 25' flare, heavy water and light to medium coal dust/fines return on flow back

**7-26-1999** TIH, tag fill at 3529'. Had 26' of fill. Clean out from 3507' to 3555' with 1800 cfm air, 5 bph H2O mist and 5 bbl water/soap sweeps. Circulate up large amounts of coal fines with sweeps. Circulate with 1800 cfm air to dry up the hole. TOOH to shoe. Flow test through a 3/4" choke as follows: 15 min-40# = 745 mcf, 30 min-42# = 783 mcf, 45 min-42# = 783 mcf, 60 min-42# = 783 mcf. Cavitare well. Surge 1 times with natural build up. Pressure up to 720 psi in 4 hrs, flow back 1 hr. Had 25' flare, 2" stream of water and light to medium coal dust/fines return on flow back. Q = 783 mcf

**7-27-1999** Cavitare well. Surge 5 times with natural build up. Pressure up to 820 psi in 4 hrs, flow back 1 hr. Had 25' to 30' flare, 2" to 3" stream of water and light to heavy coal dust/fines return on flow back

**7-28-1999** Cavitare well. Surge 2 times with natural build up. Pressure up to 840 psi in 4 hrs, flow back 1 hr. Had 10' to 15' flare, no water and very light dust return on flow back. Maybe bridged off. TIH. Pushed through a small bridge at the shoe. Had no fill on bottom. Clean out from 3539' to 3555' with 1800 cfm air, 5 bph H2O mist and 5 bbl water/soap sweeps. Circulate up large amounts of coal fines and dust. Circulate with 1800 cfm air to dry up the hole. TOOH to shoe. Prepare to flow test

**7-29-1999** Flow test well through a 3/4" choke as follows: 15 min-43# = 797 mcf, 30 min-44# = 812 mcf, 45 min-44# = 812 mcf, 60 min-43# = 797 mcf. Had 25' flare, no water. Cavitare well. Surge 5 times with natural build up. Pressure up to 780 psi in 4 hrs, flow back 1 hr. Had 25' flare, heavy water and medium to heavy dust/fines return on flow back. Q = 797 mcf

**7-30-1999** Cavitare well. Pressure up to 80 psi. Well bridged off. TIH, tag bridges at 3443', 3500', 3520' and had 8' of fill at 3547'. Clean out from 3507' to 3555' with 1800 cfm air, 5 bph H2O mist and 5 bbl water/soap sweeps. Circulate up large amounts of coal fines with sweeps. TOOH to shoe. Flow test well through a 3/4" choke as follows: 15 min-48# = 870 mcf, 30 min-50# = 899 mcf, 45 min-51# = 913 mcf, 60 min-55# = 971 mcf. Last reading was wet. Q = 971 mcf

**7-31-1999** Cavitare well. Surge 5 times with natural build up. Pressure up to 745 psi in 4 hrs. Flow back 1 hr. Had medium to heavy coal dust/fines and large amounts of black water returns on flow back. Had 20'-30' flares

**8-01-1999** Cavitare well. Surge 2 times with natural build up. Pressure up to 780 psi in 4 hrs. Flow back 1 hr. Had medium to heavy coal dust/fines and large amounts of black water returns on flow back. Had 20'-30' flares. TIH, tag at 3553' (2' of fill). Clean out from 3539' to 3555' with 1800-cfm air, 5 bph H2O mist. Circulate up large amounts of black water, small amounts of coal fines. Circulate with 1800 cfm air to dry up the hole. TOOH to shoe. Flow test through a 3/4" choke as follows: 15 min-38# = 725 mcf, 30 min-44# = 812 mcf, 45 min-45# = 826 mcf, 60 min-46# = 841 mcf. Cavitare well, surge 2 times with natural build up. Pressure up to 740# in 4 hrs. Flow back 1 hr. Had medium coal dust/fines and medium amounts of black water returns. Had 30'-35' flare. Q = 841 mcf

**8-02-1999** Cavitare well. Surge 5 times with natural build up. Pressure up to 780 psi in 4 hrs. Flow back 1 hr. Had medium to heavy coal dust/fines and large amounts of black water (2" stream out both black lines) returns on flow back. Had 25'-35' flares

**8-03-1999** Cavitate well. Surge 2 times with natural build up. Pressure up to 800 psi in 4 hrs. Flow back 1 hr. Had medium to heavy coal dust/fines and large amounts of black water (3" stream out both blooie lines) returns on flow back. Had 30'-35' flares. TIH, tag fill at 3553', 2' of fill. Clean out from 3539' to 3555' with 1800 cfm air, 5 bph H2O mist and 5 bbl water/soap sweeps. Circulate up large amounts of coal fines and black water with sweeps

**8-04-1999** Clean out from 3539' to 3555' with 1800-cfm air, 5-bph H2O mist and 5 bbl water/soap sweeps. Circulate up large amounts of coal fines and black water with sweeps. Circulate with 1800-cfm air to dry up the hole. TOOH to shoe. Flow test well through a 3/4" choke as follows: 15 min-47# = 855 mcf, 30 min-54# = 957 mcf, 45 min-55# = 971 mcf, 60 min-64# = 1102 mcf. Had 25'-30' flare, last reading was wet. Flow well natural through both blooie lines. TIH, tag fill at 3553', had 2' of fill. Clean out from 3539' to 3555' with 1800-cfm air, 5-bph H2O mist and 5 bbl water/soap sweeps. Circulate up large amounts of coal fines and black water. TOOH, lay down 4 3/4" drill collars. Change rams for 5 1/2" casing, prepare to run liner. Pick up 4 joints 5 1/2" casing and liner hanger. TIH. Land casing at 3554', liner top at 3369'. TOOH, lay down 3 1/2" drill pipe. Q = 1102 mcf

**8-05-1999** TOOH, lay down 3 1/2" drill pipe. Change rams for 2 3/8" tubing, rig up floor to run tubing. RU Blue Jet and perforate intervals 3450'-3462', 3478'-3502' and 3518'-3555' with 4 spf. Liner: 4 jts 5 1/2" 15.5# K-55 LT&C, landed @ 3554', top of liner @ 3369', 72' of lap over in 7". TIH w/ 111 joints 2 3/8", 4.7#, J-55 EUE 8rd tbg, land at 3516', F-nipple @ 3483'. ND BOP's, NUWH. Rig down service unit. Release rig at 00:00 hrs 08/04/99.

# ROSA UNIT #272

WELL NAME	DATE	VOLUME
ROSA UNIT #272	8/31/1998 0:00	25086
ROSA UNIT #272	9/30/1998 0:00	18524
ROSA UNIT #272	10/31/1998 0:00	9110
ROSA UNIT #272	11/30/1998 0:00	9769
ROSA UNIT #272	12/31/1998 0:00	8090
ROSA UNIT #272	1/31/1999 0:00	7896
ROSA UNIT #272	2/28/1999 0:00	7927
ROSA UNIT #272	3/31/1999 0:00	9033
ROSA UNIT #272	4/30/1999 0:00	8031
ROSA UNIT #272	5/31/1999 0:00	8097
ROSA UNIT #272	6/30/1999 0:00	7615
ROSA UNIT #272	7/31/1999 0:00	3581
ROSA UNIT #272	8/31/1999 0:00	7675
ROSA UNIT #272	9/30/1999 0:00	14541
ROSA UNIT #272	10/31/1999 0:00	16023
ROSA UNIT #272	11/30/1999 0:00	15752
ROSA UNIT #272	12/31/1999 0:00	16833
ROSA UNIT #272	1/31/2000 0:00	15199
ROSA UNIT #272	2/29/2000 0:00	14542
ROSA UNIT #272	3/31/2000 0:00	15458
ROSA UNIT #272	4/30/2000 0:00	14982
ROSA UNIT #272	5/31/2000 0:00	15259