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

JUN 2000 RECEIVED OIL CON. DIV. DIST. 3

OCT 2000 RECEIVED OIL CON. DIV. DIST. 3

APPLICATION FOR
WELL WORKOVER PROJECT

I. Operator and Well

Operator name & address							OGRID Number
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 237		API Number 30-045-27410
UL L	Section 4	Township 31N	Range 6W	Feet From The 1770'	North/South Line South	Feet From The 1190'	East/West Line West	County San Juan

II. Workover

Date Workover Commenced:	Previous Producing Pool(s) (Prior to Workover):
11/7/1999	
Date Workover Completed: 11/24/1999	

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)
) ss.
County of Tulsa)

Kristine Russell, being first duly sworn, upon oath states:

1. I am the Operator, or authorized representative of the Operator, of the above-referenced Well.
2. I have made, or caused to be made, a diligent search of the production records reasonably available for this Well.
3. 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 6/23/2000

SUBSCRIBED AND SWORN TO before me this 23 day of JUNE, 2000.

Shirley A. 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 11-24-1999.

Signature District Supervisor	OCD District	Date
Charlie Perrin	3	11-24-1999

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 1999 DEC -2 PM 12:31

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-078772

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation
ROSA UNIT

SUBMIT IN TRIPLICATE

1. Type of Well
Oil Well X Gas Well Other

8. Well Name and No.
ROSA UNIT #237

2. Name of Operator
WILLIAMS PRODUCTION COMPANY

9. API Well No.
30-045-27410

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)
1770' FSL & 1110' FWL, NW/4 SW/4, SEC 4 T31N R6W

11. County or Parish, State
SAN JUAN, NM

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment	Change of Plans
X Subsequent Report	Recompletion	New Construction
Final Abandonment	Plugging Back	Non-Routine Fracturing
	Casing Repair	Water Shut-Off
	Altering Casing	Conversion to Injection
	X Other Cavitation Complete	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.)*

11-07-1999 MIRU. SICP & SITP = 520 psi, blow well down & kill w/30 bbls prod wtr. NDWH, NUBOPs & bloole lines. Pres test BOP stack to 2500 psi. Unseat donut, TOOH w/2 3/8" prod tbg laying down. Tally in w/ret tool, jarring assembly, DC's & 88 jts 3 ½' DP & screw into hanger. Pull liner up hole 9' & hang up, jar on liner & free up but still dragging. Start out of hole w/5 ½" liner

11-08-1999 Cont out w/5 ½" liner laying down, bttm jt bent. TIH w/underreamer. RU power swivel, break circ & open arms. Underream f/3103'- 3206' circ clean. TOOH w/underreamer. TIH w/6 ¼" bit, tag 16' of fill @ 3190'. CO to 3206' w/8 bph a/s mist & 5 bbl sweeps, hvy ret's =90% coal & 10% shale. Blow well from TD w/8 bph a/s mist (coal running) hvy ret's = 90% coffee ground size coal & 10% ¼" size shale. Blow well dry & PU bit to 3129'. Flow natural. Gauge well on 2" open line, all gauges dry & 8 lbs = 1756 mcfd. SI 4 hr for build up

11-09-1999 Natural surge, 4 hr SI = 545 psi, ret's gas, flow nat. Break over w/air only @ 780 psi, ret's lt coal fines. Surge from 3129' (2 times) w/5 bph air/soap mist, pres @ 720 psi, lt ret's. Tag bridge @ 3190' & co to 3206' w/12 bph a/s mist. Blow well from 3206' w/12 bph a/s mist, hvy ret's = 90%coffee ground size coal & 10% ¼" shale. TOOH w/ bit. Natural surge (3 times) 2 hr SI = 530 psi, lt ret's

Continued on Back

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

Signed Tracy Ross TRACY ROSS Title Production Analyst Date November 28, 1999

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

ACCEPTED FOR RECORD

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.

DEC 10 1999

OPERATOR

FARMINGTON FIELD OFFICE

ROSA UNIT #237
CAVITATION RECAP

11-07-1999
MIRU. SICP & SITP = 520 psi, blow well down & kill w/30 bbls prod wtr. NDWH, NUBOPs & blooie lines. Pres test BOP stack to 2500 psi. Unseat donut, TOOH w/2 3/8" prod tbg laying down. Tally in w/ret tool, jarring assembly, DC's & 88 jts 3 ½' DP & screw into hanger. Pull liner up hole 9' & hang up, jar on liner & free up but still dragging. Start out of hole w/5 ½" liner

11-08-1999
Cont out w/5 ½" liner laying down, bttm jt bent. TIH w/underreamer. RU power swivel, break circ & open arms. Underream f/3103'- 3206' circ clean. TOOH w/underreamer. TIH w/6 ¼" bit, tag 16' of fill @ 3190'. CO to 3206' w/8 bph a/s mist & 5 bbl sweeps, hvy ret's =90% coal & 10% shale. Blow well from TD w/8 bph a/s mist (coal running) hvy ret's = 90% coffee ground size coal & 10% ¼" size shale. Blow well dry & PU bit to 3129'. Flow natural. Gauge well on 2" open line, all gauges dry & 8 lbs = 1756 mcfd. SI 4 hr for build up. Q = 1756 mcfd

11-09-1999
Natural surge, 4 hr SI = 545 psi, ret's gas, flow nat. Break over w/air only @ 780 psi, ret's lt coal fines. Surge from 3129' (2 times) w/5 bph air/soap mist, pres @ 720 psi, lt ret's. Tag bridge @ 3190' & co to 3206' w/12 bph a/s mist. Blow well from 3206' w/12 bph a/s mist, hvy ret's = 90%coffee ground size coal & 10% ¼" shale. TOOH w/ bit. Natural surge (3 times) 2 hr SI = 530 psi, lt ret's

11-10-1999
Surge well from surface (2 times) w/5 bbls ahead & 1 gal soap ahead, pres to 400 psi, pump 5 bbls & 1 gal soap, pres to 720 psi, ret's extra hvy coal & shale. Bridge off on 2nd surge. TIH & tag/CO bridges @ 700', 850', 2300' & 2420' w/10 bph air/soap mist & 5 bbl sweeps, cont CO to TD. Blow well from TD w/10 bph a/s mist & 5 bbl sweeps, hvy ret's = 70% dust to ¼" coal & 30% shale. Blow dry w/air only

11-11-1999
TOOH w/ bit. Natural surge, 4 hr SI = 540 psi, lt ret's. Surge f/surface (7 times) w/5 bbls &1 gal soap ahead, pres to 400 psi, pump 5 bbls & 1 gal soap, take pres to 700 psi, ret's hvy – extra hvy, plug blooie lines on 4 surges

11-12-1999
Flow natural. Surge natural, 2 hr SI = 520 psi, lt ret's. Surge from surface (2 times) w/8 bph a/s mist to 400 psi, pump 5 bbls & 1 gal soap, pres to 660 psi, ret's med-hvy 80% dust to ½" coal & 20% shale. TIH & tag 14' of fill @ 3192'. CO to 3206' w/10 bph a/s mist. CO on bttm w/10 bph a/s mist, hvy ret's = 80% coal & 20% shale. Blow dry w/air only. TOOH w/bit. Natural surge (2 times) both 2 hr SI = 500 psi, lt ret's

11-13-1999
Gauge well on 2" line, all gauges dry & avg 1865 mcfd. Break over w/air only @ 680 psi. Surge f/surface (3 times) w/5 bbls & 1 gal soap ahead, pres to 400 psi, pump 5 bbls & 1gal soap, take pres to 650 psi, ret's extra hvy & bridge off on 3rd surge. TIH & tag/co bridge @ 1500'. TOOH w/bit. Surge f/surface (2 times, same as above) hvy ret's = 90% dust to ¼" coal & 10% shale. Natural surge, 2 hr SI = 500 psi, lt ret's. Q = 1865 mcfd

11-14-1999
Surge f/surface (4 times) w/5 bbl & 1 gal soap ahead, pres to 400 psi, pump 5 bbls & 1 gal soap, pres to 630 psi, hvy ret's = 90% dust to ¼" coal & 10% shale. TIH & tag 2' of fill @ 3204'. CO on bttm w/10 bph air/soap mist & 5 bbl sweeps, ret's hvy coffee ground size coal & trace shale. Blow dry w/air only

11-15-1999
TOOH w/bit. Natural surge, 2 hr SI = 500 psi, lt ret's. Surge f/surface (5 times) w/5 bbls & 1 gal soap ahead, pres to 400 psi & pump 5 bbls & 1 gal soap, pres to 600 psi, ret's lt-med coffee ground size coal & trace shale. Natural surge (2 times) both 2 hr si = 490 psi, ret's lt-med coal. Surge f/surface w/5 bbls & 1 gal soap ahead, pres to 400 psi & pump 5 bbls & 1 gal soap, pres to 600 psi, ret's lt

11-16-1999
Flow natural. Surge from surface (3 times) w/5 bbls & 1 gal soap ahead, pres to 400 psi & pump 5 bbls & 1 gal soap, take pres to 620 psi, ret's lt-med coffee ground size coal & trace shale. Natural surge (3 times) all 2 hr SI = 460 psi & lt ret's. Surge from surface (3 times, same as above) pres to 620 psi, ret's lt- med coffee ground size coal

11-17-1999
Surge from surface (2 times) w/5 bbls & 1 gal soap ahead, pres to 400 psi, pump 5 bbls & 1 gal soap, pres to 610 psi, ret's lite coffee ground size coal. Natural surge (2 times) both 2 hr SI = 460 psi, lite ret's = black water & lite coal. TIH & tag 5' of fill @ 3201'. CO on bottom w/10 bph air/soap mist & 5 bbl sweeps, heavy ret's = 80% dust to ¼" coal & 20% ¼" shale

11-18-1999
CO on bottom w/10 bph air/soap mist & 5 bbl sweeps, ret's hvy-med coffee ground size coal. Blow dry w/air only. TOOH w/bit. Natural surge, 1 hr SI = 400 psi, lite ret's. Flow natural. Gauge well on 2" open line, all gauges dry & avg 1919 mcfd. Surge from surface (4 times) w/5 bbls & 1 gal soap ahead, pres to 400 psi, pump 5 bbls & 1 gal soap, pres to 610 psi, ret's lite – med coffee ground size coal. Natural surge, 2 hr SI = 440 psi, lite ret's. Q = 1919 mcfd

11-19-1999
Surge f/surface (7 times) w/5 bbls & 1 gal soap ahead, pres to 400 psi, pump 5 bbls & pres to 610 psi, ret's lt – med coffee ground size coal. Natural surge (2 times) both 2 hr SI = 450 psi lt ret's

11-20-1999
Surge f/surface (3 times) w/5 bbls & 1 gal soap ahead, pres to 400 psi, pump 5 bbls & pres to 610 psi, lite ret's = coffee ground size coal. Natural surge (5 times) all 2 hr SI = 450 psi, ret's lite-trace coffee ground size coal, flow natural 1.5 hrs each surge

11-21-1999
Surge from surface w/5 bbls & 1 gal soap ahead, pres to 400 psi & pump 5 bbls prod wtr, take pres to 600 psi, ret's lite. TIH & tag 6' of fill @ 3200'. CO on bottom w/10 bph air/soap mist, ret's med coffee ground size coal & trace shale, run 5 bbl sweep. Blow dry w/air only. TOOH w/bit. Natural surge, 2 hr SI = 460 psi, flow natural 1 hr. Gauge well on 2" open line, all gauges lite mist & avg 1919 mcfd. Natural surge (3 times) all 2 hr SI = 450 psi, ret's trace coal. Q = 1919 mcfd

11-22-1999
Natural surge (7 times) all 2 hr build up's = 450 psi, ret's trace fine coal, flow natural 1.5 hrs each surge

11-23-1999
Flow natural. Natural surge, 2 hr SI = 450 psi, ret's lite. TIH & tag 6' of fill @ 3200'. CO to TD w/10 bph air/soap mist, ret's lite-med coffee ground size coal. CO on bottom w/10 bph air/soap mist, ret's lite coffee ground size coal. Blow dry w/air only. TOOH laying down w/DC's. CO to run 5 ½" liner

11-24-1999
MU 5 ½" x 7" TIW hanger, TIH w/3 jts pre perf & 1 blank jt 5 ½" 17# N-80 csg, tag 3' of fill, circ down & land @ 3019'. TOOH laying down w/3 ½" DP. PU 4 ¾" mill & tally in w/2 7/8" tbg. Mill out plugs from 3067'- 3204'. TOOH w/mill. TIH w/prod tbg, land @ 3157' KB w/96 jts total. ND blooie lines, HCRs & BOP stack, NUWH. RD rig & equip. Gauge well on 2" open line, all gauges dry & = 1756 mcfd up tbg, 1948 mcfd up csg. Q = 1948 mcfd

11-25-1999
Load out equip, road rig to loc. Rel Drake #17 @ 1400 hrs 11/24/99

ROSA UNIT COM #237 FRT

WELL NAME	DATE	VOLUME
ROSA UNIT COM #237	10/31/1998 0:00	33822
ROSA UNIT COM #237	11/30/1998 0:00	31992
ROSA UNIT COM #237	12/31/1998 0:00	34181
ROSA UNIT COM #237	1/31/1999 0:00	34822
ROSA UNIT COM #237	2/28/1999 0:00	27396
ROSA UNIT COM #237	3/31/1999 0:00	36166
ROSA UNIT COM #237	4/30/1999 0:00	32779
ROSA UNIT COM #237	5/31/1999 0:00	32711
ROSA UNIT COM #237	6/30/1999 0:00	31113
ROSA UNIT COM #237	7/31/1999 0:00	34438
ROSA UNIT COM #237	8/31/1999 0:00	36079
ROSA UNIT COM #237	9/30/1999 0:00	35490
ROSA UNIT COM #237	10/31/1999 0:00	35967
ROSA UNIT COM #237	11/30/1999 0:00	14980
ROSA UNIT COM #237	12/31/1999 0:00	45378
ROSA UNIT COM #237	1/31/2000 0:00	48788
ROSA UNIT COM #237	2/29/2000 0:00	46300
ROSA UNIT COM #237	3/31/2000 0:00	48927
ROSA UNIT COM #237	4/30/2000 0:00	43672
ROSA UNIT COM #237	5/31/2000 0:00	41804
ROSA UNIT COM #237	6/30/2000 0:00	42212
ROSA UNIT COM #237	7/31/2000 0:00	40545
ROSA UNIT COM #237	8/31/2000 0:00	39849