

Submit 3 Copies  
To Appropriate  
District Office

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

811 South First, Artesia NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

**OIL CONSERVATION DIVISION**

2040 South Pacheco  
Santa Fe, NM 87505

Form C-103  
Revised 1-1-89

WELL API NO.

30-039-30916

5. Indicate Type of Lease  
STATE ☐ FED ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement  
Name:

Rosa Unit

8. Well No.

Rosa Unit 601

9. Pool name or Wildcat  
BASIN MANCOS/  
BLANCO MV//BASIN DK

**SUNDRY NOTICES AND REPORTS ON WELLS**

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A  
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH  
PROPOSALS

1. Type of Well:

Oil Well ☐

Gas Well ☒

Other

2. Name of Operator

WILLIAMS PRODUCTION COMPANY

120782

3. Address of Operator

P.O. Box 640, Aztec, NM 87410

4. Well Location (Surface)

Unit letter H : 1475 feet from the NORTH line & 1220 feet from the EAST line Sec 31 -31N-4W RIO ARRIBA, NM

10. Elevation (Show whether DF, RKB, RT, GR, etc.  
6963' GR

Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

**NOTICE OF INTENTION TO:**

PERFORM REMEDIAL  
WORK

PLUG AND ABANDON

REMEDIAL WORK

**SUBSEQUENT REPORT OF:**

ALTERING CASING

TEMPORARILY ABANDON

CHANGE PLANS

COMMENCE DRILLING OPNS.

PLUG AND

PULL OR ALTER CASING

CASING TEST AND CEMENT JOB

ABANDONMENT  
RCVD AUG 16 '11  
OIL CONS. DIV.  
DIST. 3

X OTHER: COMMINGLING AUTHORIZATION

OTHER: \_\_\_\_\_

1) Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). Data below to satisfy NM OCD Rule 303.C.3 (b) (i)-(vii)

- Pre-approved Pool Division Order R-13122.
- Pools to be commingled: Basin MC 97232, Basin Dakota 71599.
- Perforated intervals: Basin MC 6925'-8320', Basin Dakota 8395'-8722'.
- Fixed percentage allocation based upon production data of 61% Basin MC and 39% Basin Dakota. This is based on the historic production of all wells that have MC/DK production. See attached recommendation for details. This allocation may be adjusted at a later date based on a spinner survey after production has stabilized.
- Commingling will not reduce the value of reserves.
- Interest owners in the spacing unit have not been notified of the intent to downhole commingle per order R-12991.
- The BLM has been notified on sundry notice form 3160-5.

DHC 3636 AZ

\* Note - this DHC  
order approves  
only the commingle  
of DK-MC \*

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

*Larry Higgins*

TITLE: Permit Supv

DATE: 8/16/11

Type or print name Larry Higgins

Telephone No: (505) 634-4208

(This space for State use)

APPROVED

BY

Conditions of approval, if any:

TITLE

Deputy Oil & Gas Inspector,  
District #3

DATE

AUG 19 2011

A



Exploration & Production

## **Production Allocation Recommendation Rosa Unit #601 (DK/MC)**

**WELLNAME:** Rosa Unit #601

**LOCATION:** Sec.31, T31N,R04W

**API No.:** 30-039-30916

**FIELD:**

**COUNTY:**

**Date:**

Rosa Unit

Rio Arriba, NM

08/16/2011

**Current Status:** Williams is currently completing the Rosa Unit #601 in the Dakota and Mancos formations. Williams recommends commingling the well after the proposed completion work has been completed.

### **Commingle Procedure:**

1. Acidize & fracture stimulate the DK and MC formations
2. Flow back and clean up each formation prior to completion.
3. TIH w/ work string and remove CIBP
4. Clean out to PBTB
5. Complete with single string 2-3/8" tubing, land below DK perfs
6. NDBOP. NUWH.
7. Turn well over to production as a commingle

**Allocation Method:** Williams has assembled historic production data used to forecast Mancos production. Williams used this production data to come up with an initial allocation for this commingle. Williams recommends that a spinner survey be performed after production has stabilized, so that allocation percentages can be corrected if need be.

After 18 months of production:

Total Production from well = 222,608 Mcf

Total Production from DK = 86,405 Mcf

Total Production from MC = 136,202 Mcf

DK allocation =  $\text{DK prod} / \text{Total prod} = 86,405 \text{ Mcf} / 364,108 \text{ Mcf} = \mathbf{39\%}$

MC allocation =  $\text{MC prod} / \text{Total prod} = 136,202 \text{ Mcf} / 364,108 \text{ Mcf} = \mathbf{61\%}$