

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.  
NMSF-078766

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation  
Rosa Unit

8. Well Name and No.  
Rosa Unit 149C

9. API Well No  
30-039-30723

10. Field and Pool, or Exploratory Area  
BLANCO MV/BASIN DK/BASIN MC

11. County or Parish, State  
Rio Arriba, New Mexico

RECEIVED

SUBMIT IN TRIPLICATE

JUL 21 2011

1. Type of Well  
Oil Well Gas Well X Other

2. Name of Operator  
WILLIAMS PRODUCTION COMPANY

3. Address and Telephone No.  
PO Box 640 Aztec, NM 87410-0640 (505) 634-4208

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
SHL 1910 FNL & 2225 FWL SEC 12 31N 6W  
BHL 1208 FNL & 1534 FEL

Farmington Field Office  
Bureau of Land Management

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

TYPE OF SUBMISSION

TYPE OF ACTION

Notice of Intent

X Subsequent Report

Final Abandonment

Abandonment  
Recompletion  
Plugging Back  
Casing Repair  
Altering Casing  
X Other REALLOCATION

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 E&P has run Protechnic's Completion profiler tool for allocation purposes on the Rosa Unit #149C. Based on the results obtained, Williams proposes the following allocation:

|              |             |                  |
|--------------|-------------|------------------|
| Mesaverde    | 68%         | 327 Mcf/d        |
| Mancos       | 22%         | 105 Mcf/d        |
| Dakota       | 10%         | 50 Mcf/d         |
| <b>Total</b> | <b>100%</b> | <b>482 Mcf/d</b> |



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

Signed Larry Higgins  
Larry Higgins

Title Drilling Supr Date 7/20/11

(This space for Federal or State office use)

Approved by Joe Hewitt


Title Geo

Date 7-22-11

Conditions of approval, if any

NMOC

12



# MEASUREDSOLUTIONS



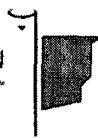
# Completion Profile Analysis

COMPLETION  
PROFILER™



|                         |                                      |
|-------------------------|--------------------------------------|
| <i>Company</i>          | <i>Williams Production Company</i>   |
| <i>Well Name</i>        | <i>Rosa Unit #149C</i>               |
| <i>Field</i>            | <i>Blanco Mesaverde/Basin Dakota</i> |
| <i>Location</i>         | <i>Rio Arriba County, New Mexico</i> |
| <i>Customer Name</i>    | <i>Michael Andrews</i>               |
| <i>Date of Survey</i>   | <i>June 8, 2011</i>                  |
| <i>Date of Analysis</i> | <i>June 14, 2011</i>                 |
| <i>Logging Engineer</i> | <i>Loren Healy</i>                   |
| <i>Analyst</i>          | <i>Cole Hutchings</i>                |

*All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful misconduct on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.*



## Table of Contents

|   |    |
|---|----|
| <i>Survey Objectives</i>  | 4  |
| <i>Logging Procedures</i>   | 4  |
| <i>Well Information</i>   | 5  |
| <i>Tool String</i>  | 6  |
| <i>Well Log History</i>   | 6  |
| <i>Results</i>  | 7  |
| <i>Analysis Summary</i>   | 13 |
| <i>Brief Description of Process</i>   | 14 |
| <i>Model Results With Recorded Data</i>   | 15 |
| <i>Production Rates At Surface Conditions</i>   | 16 |
| <i>Flow Model at Downhole Conditions With Comparison of Theoretical Response to Recorded Data</i> | 17 |
| <i>Overlay of all Log Data</i>  | 18 |
| <i>Apparent Fluid Velocity Derived from Spinner</i>   | 19 |
| <i>Spinner Calibration Plots Relationship between R.P.S. and Fluid Velocity (fpm)</i>             | 20 |
| <i>Well Information</i>   | 21 |
| <i>Parameters used for Analysis</i>   | 21 |
| <i>Definitions</i>  | 22 |

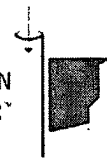
## *Survey Objectives*

- Identify the source of water production.
- Identify gas producing intervals.
- Quantitative production profile.

## *Logging Procedures*

| Date  | Time  | Comment                           |
|-------|-------|-----------------------------------|
| 06/08 | 06:30 | Arrive on location                |
| 06/08 | 05:30 | Gauge run start                   |
| 06/08 | 06:30 | Gauge run stop                    |
| 06/08 | 07:18 | Program Completion Profile String |
| 06/08 | 07:30 | Start GIH pass                    |
| 06/08 | 07:50 | Stop GIH pass                     |
| 06/08 | 08:06 | Start logging passes              |
| 06/08 | 11:30 | Stop logging passes               |
| 06/08 | 11:39 | Start out of well pass            |
| 06/08 | 11:58 | Stop out of well pass             |
| 06/08 | 12:05 | Start download                    |
| 06/08 | 12:28 | Stop download                     |
| 06/08 | 12:45 | Rig down                          |

Interval Logged: [From 5,330 to 8,107 ft.]  
 60 ft/min  
 90 ft/min  
 120 ft/min



## Well Information

Casing: 5.5" 17.0 lb/ft surface to 8,177 ft PBTD: 8,135 ft

Tubing: 2.375" 4.7 lb/ft surface to 5,285 ft

Perforations: 5,386; 5,388; 5,394; 5,396; 5,419; 5,421; 5,451; 5,453; 5,455; 5,527;  
5,558; 5,560; 5,562; 5,595; 5,606; 5,608; 5,610; 5,628; 5,630; 5,632;  
5,634; 5,636; 5,638; 5,640; 5,642; 5,644; 5,646; 5,648; 5,650; 5,652;  
5,654; 5,656; 5,658; 5,660; 5,662; 5,664; 5,666; 5,668; 5,670; 5,672;  
5,678; 5,680; 5,682; 5,684; 5,686; 5,688; 5,690; 5,717; 5,719; 5,728;  
5,730; 5,732; 5,734; 5,736; 5,738; 5,740; 5,742 ft  
(Stage 5 - Cliff House/Menefee)

5,798; 5,800; 5,802; 5,822; 5,824; 5,826; 5,828; 5,832; 5,834; 5,836;  
5,838; 5,840; 5,846; 5,848; 5,850; 5,852; 5,854; 5,856; 5,858; 5,860;  
5,862; 5,867; 5,874; 5,876; 5,878; 5,880; 5,882; 5,884; 5,886; 5,888;  
5,896; 5,904; 5,906; 5,908; 5,910; 5,912; 5,914; 5,916; 5,918; 5,920;  
5,922; 5,930; 5,932; 5,934; 5,936; 5,982; 5,987; 6,038; 6,040; 6,055;  
6,065; 6,067; 6,082; 6,084; 6,086; 6,094; 6,104; 6,106; 6,120; 6,141;  
6,143; 6,145 ft  
(Stage 4 - Point Lookout)

6,968; 6,978; 6,987; 6,997; 7,008; 7,016; 7,025; 7,034; 7,042; 7,048;  
7,059; 7,066; 7,072; 7,080; 7,090; 7,098; 7,107; 7,116; 7,124; 7,132;  
7,140; 7,150; 7,157; 7,166; 7,174; 7,180; 7,190; 7,200; 7,210;  
7,220 ft  
(Stage 3 - Upper Mancos)

7,253; 7,262; 7,270; 7,279; 7,285; 7,292; 7,298; 7,304; 7,310; 7,316;  
7,324; 7,332; 7,340; 7,347; 7,353; 7,362; 7,368; 7,375; 7,380; 7,387;  
7,392; 7,398; 7,405; 7,410; 7,420 ft  
(Stage 2 - Lower Mancos)

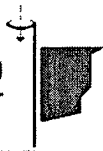
8,052; 8,056; 8,058; 8,060; 8,062; 8,064; 8,066; 8,072; 8,094; 8,096;  
8,098; 8,102; 8,108; 8,112; 8,114; 8,116; 8,118; 8,120; 8,122; 8,124;  
8,126; 8,128; 8,130; 8,132; 8,134 ft  
(Stage 1 - Dakota)

Flowing tubing pressure at the time of logging: 92 psi

Daily average surface production reported at the time of logging:

gas: 500 Mscf/d

water: N/A bpd



## *Tool String*

The 1 11/16" Completion Profiler string comprised the following sensors:

Battery housing; RS-232/CCL; Memory/CPU; Gamma Ray; Pressure/Temperature Combo; Centralizer; Induction Collar Locator; Fluid Density; Centralizer; Spinner Flowmeter.

## *Well Log History*

| Log Date | Type of Survey      |
|----------|---------------------|
| 10/18/09 | Completion Profiler |
| 07/23/10 | Completion Profiler |

## Results

The following table summarizes the production from each producing zone.

| GAS / WATER PRODUCTION PROFILE         |           |           |            |         |          |            |
|--|-----------|-----------|------------|---------|----------|------------|
| Flow Rates Reported at STP             |           |           |            |         |          |            |
| Zone Intervals                         | Q-Gas     | Qp-Gas    | Percent of | Q-Water | Qp-Water | Percent of |
| feet                                   | MCFD      | MCFD      | Total      | BFPD    | BFPD     | Total      |
| Surface to 5386                        | 483 Mcf/d |           | 100 %      | 6 bpd   |          | 100 %      |
| Stage 5 - Cliff House/Menefee          |           |           | 32 %       |         |          | 33 %       |
| 5386 to 5742                           | 483 Mcf/d | 153 Mcf/d |            | 6 bpd   | 2 bpd    |            |
| Stage 4 - Point Lookout                |           |           | 36 %       |         |          | 37 %       |
| 5798 to 6145                           | 330 Mcf/d | 174 Mcf/d |            | 4 bpd   | 2 bpd    |            |
| Stage 3 - Upper Mancos                 |           |           | 19 %       |         |          | 19 %       |
| 6968 to 7220                           | 156 Mcf/d | 89 Mcf/d  |            | 2 bpd   | 1 bpd    |            |
| Stage 2 - Lower Mancos                 |           |           | 3 %        |         |          | 3 %        |
| 7253 to 7420                           | 67 Mcf/d  | 16 Mcf/d  |            | 1 bpd   | 0 bpd    |            |
| Stage 1 - Dakota                       |           |           | 10 %       |         |          | 8 %        |
| 8052 to 8102                           | 51 Mcf/d  | 49 Mcf/d  |            | 0 bpd   | 0 bpd    |            |
| Flow Contribution from Below Log Depth |           |           | 0 %        |         |          | 0 %        |
| 8107 to Below                          | 1 Mcf/d   |           | 0 %        | 0 bpd   |          | 0 %        |