

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

AUG 03 2011

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-078770
If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

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

2 Name of Operator
WILLIAMS PRODUCTION COMPANY

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

4 Location of Well (Footage, Sec., T, R, M., or Survey Description)
1660' FNL & 930' FWL Sec 27, T31N, R5W NMPM

7. If Unit or CA, Agreement Designation
Rosa Unit

8. Well Name and No.
Rosa Unit #186

9. API Well No
30-039-30160

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

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

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 **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 #186. Based on the results obtained, Williams proposes the following allocation:

Mesaverde	30%	69 Mcf/d
Mancos	23%	52 Mcf/d
Dakota	47%	110 Mcf/d
Total	100%	231 Mcf/d

DIST. 3

RCVD AUG 4 '11

OIL CONS. DIV.

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

Signed Larry Higgins
Larry Higgins

Title Permit Suprv Date 8/2/11

(This space for Federal or State office use)

Approved by Joe Hunt

Title Geo

Date 8-3-11

Conditions of approval, if any

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

W NMOCD EP

Granillo, Lacey

From: Goodwin, Robert
Sent: Monday, August 01, 2011 11:20 AM
To: Granillo, Lacey; Higgins, Larry; Harris, Erin
Subject: RE: Williams - Rosa Unit 186

Allocation for the Rosa Unit # 186

Allocation date: 6/14/2011

Dakota – 47%

Mancos – 23%

Mesaverde – 30%

Thanks

bobby

From: Granillo, Lacey
Sent: Monday, August 01, 2011 11:23 AM
To: Goodwin, Robert
Subject: FW: Williams - Rosa Unit 186

Hey Bobby
Do you have your %?

From: Andrews, Michael
Sent: Thursday, July 28, 2011 5:11 PM
To: Brooks, Bob; Goodwin, Robert; Katirgis, Stergie; McQueen, Ken; Ostby, Douglas; VanDenBerg, Randy; Wray, Laura
Cc: Basye, Matt; Buck, Xander; Cochran, Kristi; Day, Roxana; Granillo, Lacey; Harris, Erin; Hawks, Ralph; Higgins, Larry; Kindle, Melissa; Knight, Russell; Lucero, Christopher; Mitchell, Ben; Place, Kirk; Richardson, Jason; Riley, Heather; Rodriguez, Luis; Russell, Kris; Sampayo, Jamie; Shepard, Cyd; Snyder, Walden; Sprague, Douglas; Thorson, Levi; Zimmer, Rachel
Subject: FW: Williams - Rosa Unit 186

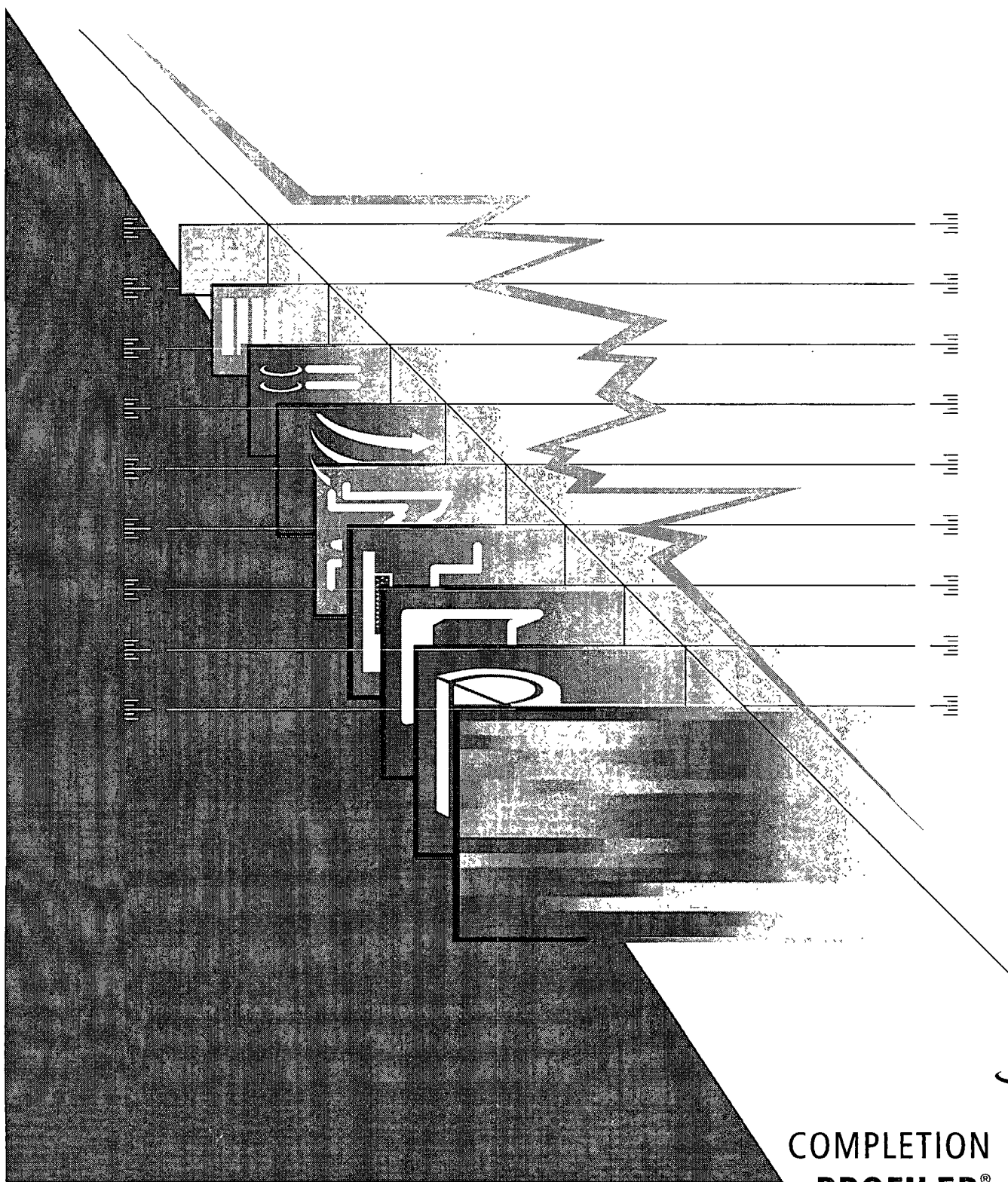
From: Fussell, Lyoid [<mailto:Lyoid.Fussell@corelab.com>]
Sent: Thursday, July 28, 2011 3:18 PM
To: Andrews, Michael
Subject: Fw: Williams - Rosa Unit 186

From: George, Derrick
Sent: Thursday, July 28, 2011 03:17 PM
To: Fussell, Lyoid
Subject: Williams - Rosa Unit 186

Lyoid,

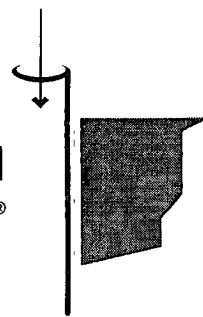
Please find attached the Completion Profiler Report, the emf file, and the las file for the above well.

*Williams Production Company
Rosa Unit #186*



MEASURED SOLUTIONS

COMPLETION
PROFILER®





Completion Profile Analysis

COMPLETION
PROFILER™



<i>Company</i>	<i>Williams Production Company</i>
<i>Well Name</i>	<i>Rosa Unit #186</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 14, 2011</i>
<i>Date of Analysis</i>	<i>July 26, 2011</i>
<i>Logging Engineer</i>	<i>Loren Healy</i>
<i>Analyst</i>	<i>Derrick George</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.

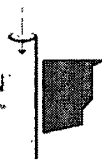
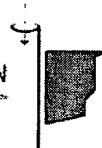


Table of Contents

<i>Survey Objectives</i>	4
<i>Logging Procedures</i>	4
<i>Well Information</i>	5
<i>Tool String</i>	5
<i>Results</i>	6
<i>Analysis Summary</i>	11
<i>Brief Description of Process</i>	12
<i>Model Results With Recorded Data</i>	13
<i>Production Rates At Surface Conditions</i>	14
<i>Flow Model at Downhole Conditions With Comparison of Theoretical Response to Recorded Data</i>	15
<i>Overlay of all Log Data</i>	16
<i>Apparent Fluid Velocity Derived from Spinner</i>	17
<i>Spinner Calibration Plots Relationship between R.P.S. and Fluid Velocity (fpm)</i>	18
<i>Well Information</i>	19
<i>Parameters used for Analysis</i>	19
<i>Definitions</i>	20



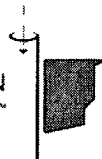
Survey Objectives

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

Logging Procedures

Date	Time	Comment
06/14	11:30	Arrive on location
06/14	10:30	Gauge run start
06/14	11:30	Gauge run stop
06/14	11:42	Program Completion Profile String
06/14	12:00	Start GIH pass
06/14	12:22	Stop GIH pass
06/14	12:40	Start logging passes
06/14	15:17	Stop logging passes
06/14	15:24	Start out of well pass
06/14	15:44	Stop out of well pass
06/14	15:51	Start download
06/14	16:10	Stop download
06/14	16:25	Rig down

Interval Logged: [From 5,550 to 8,370 ft.]
60 ft/min
90 ft/min



Well Information

Casing: 5.500" 17.0 lb/ft surface to 8,419 ft PBTD: 8,419 ft

Tubing: 2.375" 4.7 lb/ft surface to 5,507 ft

Perforations: 5,634; 5,638; 5,642; 5,646; 5,650; 5,654; 5,658; 5,662; 5,666; 5,672;
5,680; 5,685; 5,692; 5,700; 5,708; 5,716; 5,723; 5,730; 5,736; 5,746;
5,760; 5,770; 5,778; 5,785; 5,792; 5,798; 5,806; 5,812; 5,819; 5,831;
5,840; 5,854; 5,862; 5,866; 5,870; 5,874; 5,878; 5,884; 5,890; 5,896;
5,904; 5,912; 5,920; 5,924; 5,930; 5,934; 5,940; 5,946; 5,950; 5,954;
5,998; 6,002 ft (Stage 4 - Cliffhouse/Menefee)

6,098; 6,102; 6,106; 6,110; 6,114; 6,118; 6,122; 6,126; 6,130; 6,134;
6,140; 6,146; 6,152; 6,158; 6,164; 6,170; 6,176; 6,182; 6,188; 6,198;
6,204; 6,210; 6,216; 6,220; 6,224; 6,228; 6,234; 6,238; 6,242; 6,246;
6,251; 6,260; 6,268; 6,272; 6,276; 6,288; 6,297; 6,310; 6,320; 6,324;
6,332; 6,336; 6,344; 6,348; 6,354; 6,364; 6,372; 6,379; 6,390; 6,398;
6,413; 6,420 ft (Stage 3 - Point Lookout)

7,270; 7,280; 7,330; 7,340; 7,365; 7,375; 7,385; 7,395; 7,405; 7,415;
7,425; 7,455; 7,465; 7,555; 7,570; 7,585; 7,600; 7,615; 7,640; 7,655;
7,665; 7,675; 7,690; 7,710; 7,730 ft (Stage 2 - Mancos)

8,302; 8,306; 8,310; 8,314; 8,322; 8,330; 8,340; 8,344; 8,348; 8,352;
8,356; 8,360; 8,364; 8,368; 8,372; 8,378; 8,382; 8,386; 8,390; 8,394;
8,398; 8,402 ft (Stage 1 - Dakota)

Flowing tubing pressure at the time of logging: 105 psi

Daily average surface production reported at the time of logging:

gas: 230 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.

Results

The following table summarizes the production from each frac stage.

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 5634	231 Mcf/d		100 %	3 bpd		100 %
Stage 4 - Cliffhouse/Menefee			23 %			32 %
5634 to 6002	231 Mcf/d	53 Mcf/d		3 bpd	1 bpd	
Stage 3 - Point Lookout			7 %			5 %
6098 to 6420	179 Mcf/d	16 Mcf/d		2 bpd	0 bpd	
Stage 2 - Mancos			23 %			22 %
7270 to 7730	162 Mcf/d	52 Mcf/d		2 bpd	1 bpd	
Stage 1 - Dakota			12 %			9 %
8302 to 8368	110 Mcf/d	29 Mcf/d		1 bpd	0 bpd	
Flow Contribution from Below Log Depth			35 %			32 %
8370 to Below	81 Mcf/d		35 %	1 bpd		32 %