

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-078764

6 If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation
Rosa Unit

1 Type of Well
Oil Well Gas Well ☒ Other

8. Well Name and No.
Rosa Unit #166B

2 Name of Operator
WILLIAMS PRODUCTION COMPANY

9. API Well No
30-039-29841

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

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

4 Location of Well (Footage, Sec , T., R , M , or Survey Description)
2305' FNL & 2305' FEL Sec 30, T31N, R5W NMPM

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

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 #166B. Based on the results obtained, Williams proposes the following allocation:

Mesaverde	63%	237 Mcf/d
Mancos	29%	109 Mcf/d
Dakota	8%	30 Mcf/d
Total	100%	376 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

Title Permit Supervisor

Date 8/2/11

(This space for Federal or State office use)

Approved by

Joe Hewitt

Title

Geo

Date

8-2-11

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

NMOC

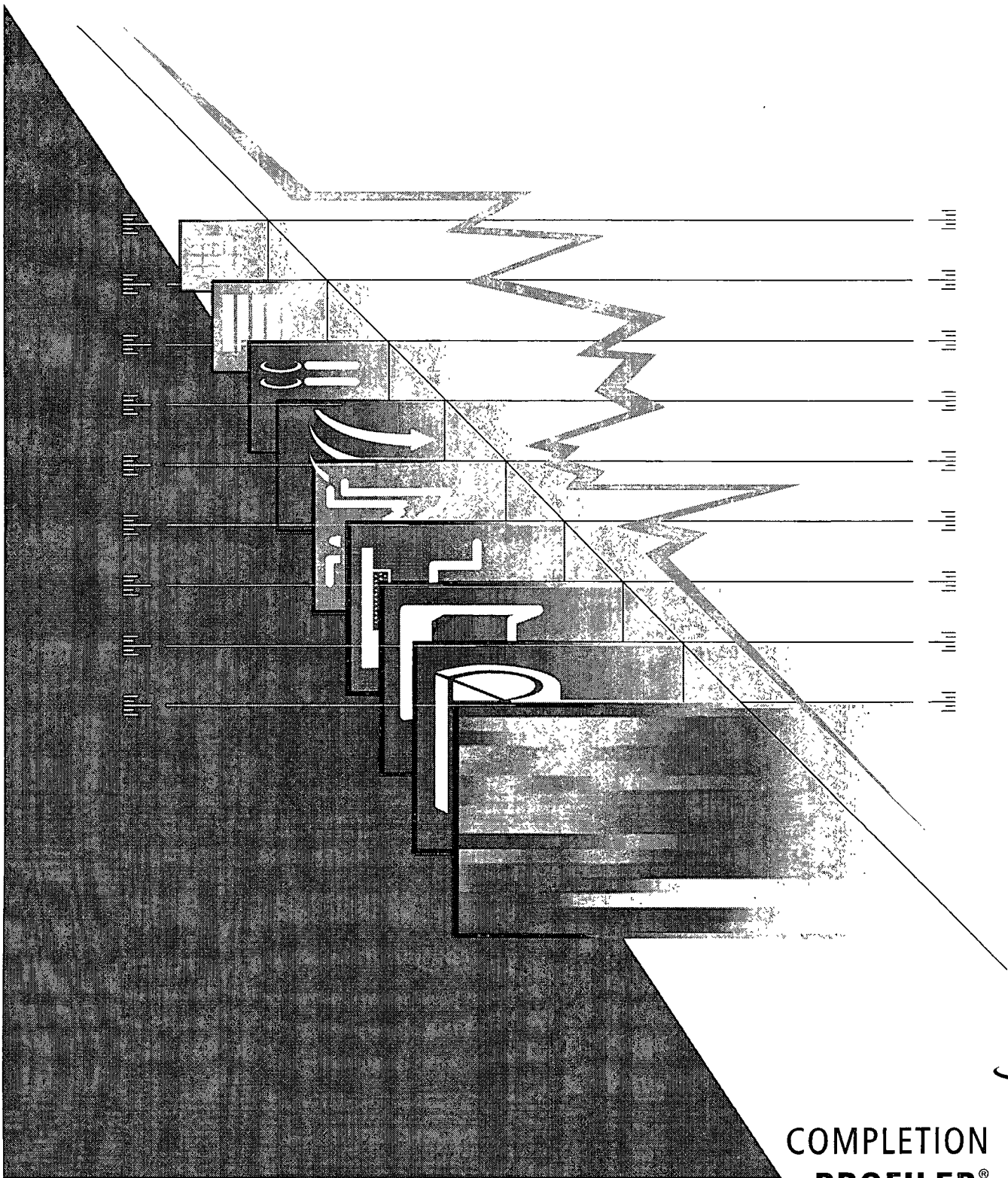
Granillo, Lacey

From: Goodwin, Robert
Sent: Tuesday, August 02, 2011 10:41 AM
To: Harris, Erin; Higgins, Larry; Granillo, Lacey
Subject: Allocation - 166B

Rosa unit 166B
Allocation date: 6/3/2011
Dakota: 8%
Mancos: 29%
Mesaverde: 63%

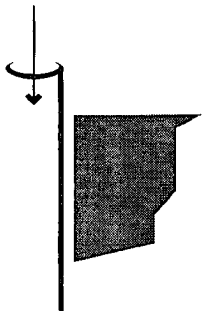
Thanks
bobby

Williams Production Company
Rosa Unit #166B



MEASURED SOLUTIONS

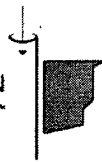
COMPLETION
PROFILER®





Completion Profile Analysis

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<i>Company</i>	<i>Williams Production Company</i>
<i>Well Name</i>	<i>Rosa Unit #166B</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 3, 2011</i>
<i>Date of Analysis</i>	<i>July 29, 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.

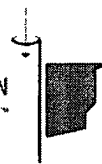
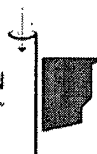


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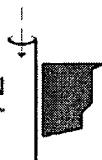
Survey Objectives

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

Logging Procedures

Date	Time	Comment
06/03	10:00	Arrive on location
06/03	10:00	Gauge run start
06/03	11:00	Gauge run stop
06/03	11:04	Program Completion Profile String
06/03	11:13	Start GIH pass
06/03	11:32	Stop GIH pass
06/03	11:45	Start logging passes
06/03	15:11	Stop logging passes
06/03	15:17	Start out of well pass
06/03	15:35	Stop out of well pass
06/03	15:42	Start download
06/03	16:09	Stop download
06/03	16:25	Rig down

Interval Logged: [From 5,304 to 8,134 ft.]
 60 ft/min
 90 ft/min
 120 ft/min



Well Information

Casing: 5.500" 17.0 lb/ft surface to 8,243 ft PBTD: 8,196 ft

Tubing: 2.375" 4.7 lb/ft surface to 5,240 ft

Perforations: 5,433; 5,434; 5,436; 5,439; 5,443; 5,446; 5,448; 5,450; 5,452; 5,454;
5,486; 5,488; 5,490; 5,492; 5,509; 5,514; 5,518; 5,520; 5,522; 5,558;
5,560; 5,562; 5,581; 5,583; 5,585; 5,587; 5,590; 5,592; 5,594; 5,626;
5,628; 5,630 ft (Stage 12 - Cliffhouse/Menefee)

5,680; 5,682; 5,684; 5,686; 5,688; 5,694; 5,698; 5,700; 5,703; 5,704;
5,705; 5,708; 5,710; 5,712; 5,714; 5,716; 5,718; 5,721; 5,730; 5,736;
5,739; 5,744; 5,753; 5,757; 5,761; 5,765; 5,773; 5,778; 5,783; 5,785;
5,787; 5,796; 5,802; 5,804; 5,806; 5,815; 5,818; 5,820; 5,822; 5,826;
5,828; 5,842; 5,844; 5,846; 5,852; 5,824; 5,884; 5,886; 5,888; 5,892;
5,900; 5,902; 5,904; 5,906 ft (Stage 11 - Point Lookout)

6,290; 6,305; 6,320; 6,335; 6,350; 6,365; 6,380; 6,395; 6,410; 6,425;
6,440; 6,455; 6,470 ft (Stage 10 - Mancos 8th)

6,535; 6,545; 6,555; 6,565; 6,575; 6,585; 6,595; 6,605; 6,615; 6,625;
6,635; 6,645; 6,655 ft (Stage 9 - Mancos 7th)

6,695; 6,705; 6,715; 6,725; 6,805; 6,815; 6,820; 6,825; 6,830; 6,835;
6,840; 6,845; 6,855 ft (Stage 8 - Mancos 6th)

6,923; 6,933; 6,965; 6,975; 6,985; 6,995; 7,005; 7,015; 7,025; 7,045;
7,055; 7,065; 7,075 ft (Stage 7 - Mancos 5th)

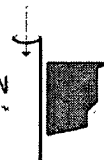
7,140; 7,150; 7,160; 7,170; 7,180; 7,190; 7,200; 7,210; 7,230; 7,240;
7,250; 7,255; 7,270; 7,280; 7,293; 7,300; 7,310 ft
(Stage 6 - Mancos 4th)

7,345; 7,350; 7,355; 7,360; 7,365; 7,370; 7,375; 7,380; 7,385 ft
(Stage 5 - Mancos 3rd)

7,425; 7,432; 7,440; 7,448; 7,456; 7,464; 7,472; 7,480; 7,488; 7,494;
7,500 ft (Stage 4 - Mancos 2nd)

7,553; 7,578; 7,593; 7,599; 7,605; 7,614; 7,626; 7,637; 7,642; 7,658;
7,665; 7,672 ft (Stage 3 - Mancos 1st)

Completion Profile Analysis



7,796; 7,799; 7,800; 7,801; 7,804; 7,805; 7,815; 7,816; 7,819; 7,820;
7,823; 7,825; 7,829; 7,830; 7,833; 7,834; 7,835; 7,839; 7,840; 7,845;
7,849 ft (Stage 2 - Graneros)

7,898; 7,902; 7,906; 7,910; 7,914; 7,922; 7,932; 7,940; 7,948; 7,952;
7,956; 7,960; 7,970; 7,974; 7,984; 7,988; 7,992; 7,996; 8,006; 8,016;
8,022; 8,028; 8,034; 8,040; 8,044; 8,048; 8,052 ft (Stage 1 - Dakota)

Flowing tubing pressure at the time of logging: 72 psi

Daily average surface production reported at the time of logging:

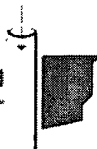
gas: 375 Mscf/d

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 Total	Q-Water	Qp-Water	Percent of Total
feet	MCFD	MCFD		BFPD	BFPD	
Surface to 5433	375 Mcf/d		100 %	2 bpd		100 %
Stage 12 - Cliffhouse/Mene fee			38 %			11 %
5433 to 5630	375 Mcf/d	144 Mcf/d		2 bpd	0 bpd	
Stage 11 - Point Lookout			25 %			9 %
5680 to 5906	231 Mcf/d	93 Mcf/d		2 bpd	0 bpd	
Stage 10 - Mancos 8th			5 %			20 %
6290 to 6470	138 Mcf/d	18 Mcf/d		2 bpd	0 bpd	
Stage 9 - Mancos 7th			1 %			7 %
6535 to 6655	121 Mcf/d	3 Mcf/d		1 bpd	0 bpd	
Stage 8 - Mancos 6th			1 %			7 %
6695 to 6855	118 Mcf/d	3 Mcf/d		1 bpd	0 bpd	
Stage 7 - Mancos 5th			8 %			8 %
6923 to 7075	115 Mcf/d	29 Mcf/d		1 bpd	0 bpd	
Stage 6 - Mancos 4th			9 %			8 %
7140 to 7310	86 Mcf/d	35 Mcf/d		1 bpd	0 bpd	
Stage 5 - Mancos 3rd			4 %			3 %
7345 to 7385	51 Mcf/d	17 Mcf/d		1 bpd	0 bpd	
Stage 4 - Mancos 2nd			0 %			4 %
7425 to 7500	35 Mcf/d	1 Mcf/d		1 bpd	0 bpd	
Stage 3 - Mancos 1st			0 %			6 %
7553 to 7672	34 Mcf/d	1 Mcf/d		0 bpd	0 bpd	



Completion Profile Analysis

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Stage 2 - Graneros				1 %			6 %
7796	to	7849	32 Mcf/d	2 Mcf/d	0 bpd	0 bpd	
Stage 1 - Dakota				8 %			10 %
7898	to	8052	30 Mcf/d	30 Mcf/d	0 bpd	0 bpd	