Form 3160-5
(February 2005)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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FEB 15 2011
Farmington Field Office
Bureau of Land Management

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – *Other instructions on page 2.*

1. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other	5. Lease Serial No. NMSF-078766
	6. If Indian, Allottee or Tribe Name
	7. If Unit of CA/Agreement, Name and/or No. Rosa Unit
	8. Well Name and No. Rosa Unit #032c
2. Name of Operator Williams Production Company, LLC	9. API Well No. 30-039-27240
3a. Address PO Box 640 Aztec, NM 87410 3b. Phone No. *(include area code)* 505-634-4208	10. Field and Pool or Exploratory Area Blanco MV / Basin DK
4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* Sur: 1675' FNL & 1700' FWL – BHL: 615' FNL & 763' FWL, Sec. 21, T31N, R6W	11. Country or Parish, State Rio Arriba, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☒ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Reallocation
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Williams E&P has run Protechnic's Completion profiler tool for allocation purposes on the Rosa Unit #032C. Based on the results obtained, Williams proposes the following allocation:

Mesaverde	99%	430	Mcf/d
Dakota	1%	5	Mcf/d
Total	**100%**	**435**	**Mcf/d**

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OIL CONS. DIV. DIST. 3

14. I hereby certify that the foregoing is true and correct.
Name *(Printed/Typed)* Larry Higgins
Title Permit Supervisor
Signature Larry Higgins
Date 2/15/11

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Joe Hewitt
Title Geo
Date 2-22-11

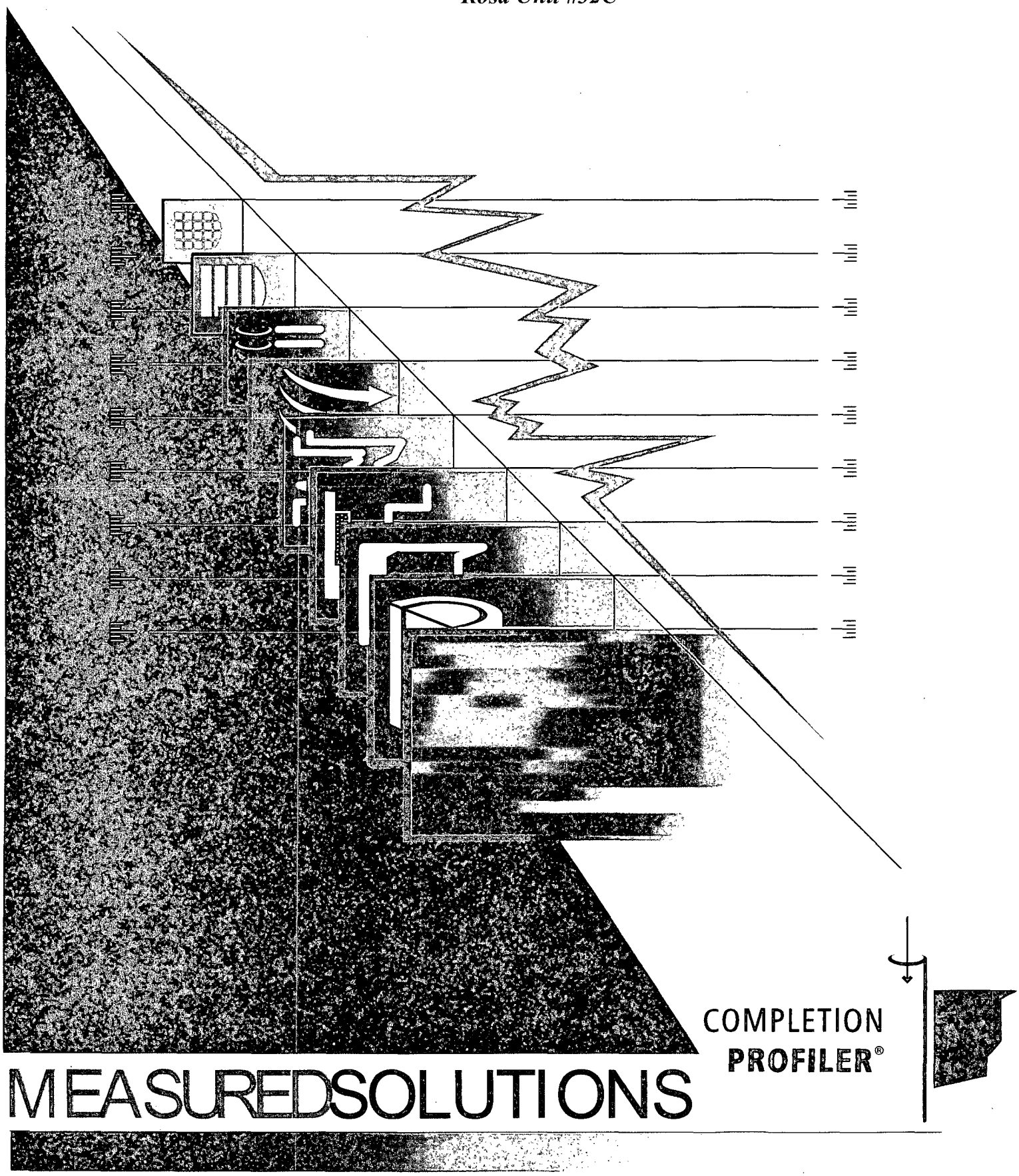
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Office FFD

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

(Instructions on page 2)

NMOCD

Williams Production Company
Rosa Unit #32C



COMPLETION
PROFILER®

MEASUREDSOLUTIONS

ProTechnics
A CORE LABORATORIES COMPANY

Completion Profile Analysis

Company	*Williams Production Company*
Well Name	*Rosa Unit #32C*
Field	*Blanco Mesaverde/Basin Dakota*
Location	*Rio Arriba County, New Mexico*
Customer Name	*Justin Stolworthy*
Date of Survey	*September 27, 2010*
Date of Analysis	*October 12, 2010*
Logging Engineer	*Loren Healy*
Analyst	*Cole Hutchings*

Table of Contents

Survey Objectives

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

Logging Procedures

Date	Time	Comment
09/27	13:00	Arrive on location
09/27	12:00	Gauge run start
09/27	13:00	Gauge run stop
09/27	13:30	Program Completion Profile String
09/27	13:38	Start GIH pass
09/27	14:00	Stop GIH pass
09/27	14:06	Start logging passes
09/27	17:55	Stop logging passes
09/27	18:00	Start out of well pass
09/27	18:19	Stop out of well pass
09/27	18:26	Start download
09/27	18:52	Stop download
09/27	19:00	Rig down

Interval Logged: [From 4,844 to 7,885 ft.]
60 ft/min
90 ft/min
120 ft/min

Well Information

Casing:	5.5"	17.0 lb/ft	surface to 8,190 ft
Casing:	3.5"	9.3 lb/ft	8,086 to 8,353 ft
Tubing:	2.375"	4.7 lb/ft	surface to 4,769 ft

Perforations: 5,380; 5,389; 5,410; 5,418; 5,429; 5,449; 5,463; 5,468; 5,497; 5,517; 5,525; 5,610; 5,638; 5,647; 5,685; 5,693; 5,701; 5,726; 5,741; 5,744; 5,775; 5,778; 5,852; 5,861; 5,864; 5,905; 5,910; 5,950; 5,957; 5,962 ft
(Stage 3 – Cliff House/Menefee)

5,993; 6,001; 6,007; 6,012; 6,017; 6,024; 6,027; 6,030; 6,041; 6,049; 6,064; 6,072; 6,095; 6,102; 6,105; 6,112; 6,134; 6,137; 6,160; 6,164; 6,177; 6,182; 6,188; 6,237; 6,255; 6,276 ft
(Stage 2 – Point Lookout)

8,188; 8,206; 8,209; 8,212; 8,215; 8,218; 8,247; 8,251; 8,256; 8,259; 8,262; 8,276; 8,279; 8,288; 8,291; 8,296 ft
(Stage 1 – Dakota)

Flowing tubing pressure at the time of logging: 155 psi

Daily average surface production reported at the time of logging:

gas: N/A water: N/A

Tool String

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

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

Results

The following table summarizes the production from each producing zone.

GAS / WATER PRODUCTION PROFILE Flow Rates Reported at STP						
Zone Intervals **feet**	**Q-Water** **BFPD**	**Qp-Water** **BFPD**	**Percent of Total**	**Q-Gas** **MCFD**	**Qp-Gas** **MCFD**	**Percent of Total**
Surface to **5380**	3 bpd		**100 %**	431 Mcf/d		**100 %**
Stage 3 - Cliff House/Menefee			**93 %**			**92 %**
5380 to **5962**	3 bpd	3 bpd		431 Mcf/d	397 Mcf/d	
Stage 2 - Point Lookout			**7 %**			**8 %**
5993 to **6276**	0 bpd	0 bpd		33 Mcf/d	33 Mcf/d	
Flow Contribution from Below Log Depth			**0 %**			**0 %**
7885 to **Below**	0 bpd		**0 %**	0 Mcf/d		**0 %**

The following table summarizes the production from each producing interval.

GAS / WATER PRODUCTION PROFILE Flow Rates Reported at STP							
Zone Intervals feet		Q-Water BFPD	Qp-Water BFPD	Percent of Total	Q-Gas MCFD	Qp-Gas MCFD	Percent of Total
Surface to **5380**		3 bpd		**100 %**	431 Mcf/d		**100 %**
Stage 3 - Cliff House/Menefee				**93 %**			**92 %**
5380 to **5380**		3 bpd	0 bpd	**0 %**	431 Mcf/d	2 Mcf/d	**0 %**
5389 to **5389**		3 bpd	0 bpd	**0 %**	428 Mcf/d	1 Mcf/d	**0 %**
5410 to **5410**		3 bpd	0 bpd	**5 %**	428 Mcf/d	22 Mcf/d	**5 %**
5418 to **5418**		3 bpd	0 bpd	**1 %**	406 Mcf/d	5 Mcf/d	**1 %**
5429 to **5429**		3 bpd	0 bpd	**1 %**	401 Mcf/d	3 Mcf/d	**1 %**
5449 to **5449**		3 bpd	0 bpd	**3 %**	398 Mcf/d	10 Mcf/d	**2 %**
5463 to **5463**		2 bpd	0 bpd	**4 %**	388 Mcf/d	17 Mcf/d	**4 %**
5468 to **5468**		2 bpd	0 bpd	**1 %**	371 Mcf/d	5 Mcf/d	**1 %**
5497 to **5497**		2 bpd	0 bpd	**1 %**	366 Mcf/d	4 Mcf/d	**1 %**
5517 to **5517**		2 bpd	0 bpd	**0 %**	362 Mcf/d	1 Mcf/d	**0 %**
5525 to **5525**		2 bpd	0 bpd	**0 %**	361 Mcf/d	2 Mcf/d	**0 %**
5610 to **5610**		2 bpd	0 bpd	**0 %**	359 Mcf/d	2 Mcf/d	**0 %**
5638 to **5638**		2 bpd	0 bpd	**1 %**	358 Mcf/d	5 Mcf/d	**1 %**
5647 to **5647**		2 bpd	1 bpd	**19 %**	353 Mcf/d	77 Mcf/d	**18 %**
5685 to **5685**		2 bpd	0 bpd	**12 %**	276 Mcf/d	50 Mcf/d	**12 %**
5693 to **5693**		1 bpd	0 bpd	**4 %**	226 Mcf/d	15 Mcf/d	**4 %**
5701 to **5701**		1 bpd	0 bpd	**2 %**	210 Mcf/d	10 Mcf/d	**2 %**
5726 to **5726**		1 bpd	0 bpd	**0 %**	200 Mcf/d	1 Mcf/d	**0 %**
5741 to **5741**		1 bpd	0 bpd	**0 %**	200 Mcf/d	2 Mcf/d	**0 %**
5744 to **5744**		1 bpd	0 bpd	**0 %**	198 Mcf/d	1 Mcf/d	**0 %**
5775 to **5775**		1 bpd	0 bpd	**1 %**	197 Mcf/d	6 Mcf/d	**1 %**
5778 to **5778**		1 bpd	0 bpd	**0 %**	191 Mcf/d	1 Mcf/d	**0 %**
5852 to **5852**		1 bpd	0 bpd	**1 %**	190 Mcf/d	3 Mcf/d	**1 %**
5861 to **5861**		1 bpd	0 bpd	**1 %**	187 Mcf/d	3 Mcf/d	**1 %**
5864 to **5864**		1 bpd	0 bpd	**9 %**	185 Mcf/d	43 Mcf/d	**10 %**
5905 to **5905**		1 bpd	0 bpd	**12 %**	142 Mcf/d	52 Mcf/d	**12 %**
5910 to **5910**		1 bpd	0 bpd	**3 %**	90 Mcf/d	13 Mcf/d	**3 %**
5950 to **5950**		0 bpd	0 bpd	**6 %**	77 Mcf/d	25 Mcf/d	**6 %**
5957 to **5957**		0 bpd	0 bpd	**4 %**	52 Mcf/d	17 Mcf/d	**4 %**
5962 to **5962**		0 bpd	0 bpd	**0 %**	35 Mcf/d	1 Mcf/d	**0 %**

Stage 2 - Point Lookout				7 %			8 %
5993	to **5993**	0 bpd	0 bpd	**5 %**	33 Mcf/d	27 Mcf/d	**6 %**
6001	to **6001**	0 bpd	0 bpd	**1 %**	6 Mcf/d	3 Mcf/d	**1 %**
6007	to **6007**	0 bpd	0 bpd	**0 %**	3 Mcf/d	1 Mcf/d	**0 %**
6012	to **6012**	0 bpd	0 bpd	**0 %**	1 Mcf/d	0 Mcf/d	**0 %**
6017	to **6017**	0 bpd	0 bpd	**0 %**	1 Mcf/d	0 Mcf/d	**0 %**
6024	to **6024**	0 bpd	0 bpd	**0 %**	1 Mcf/d	0 Mcf/d	**0 %**
6027	to **6027**	0 bpd	0 bpd	**0 %**	1 Mcf/d	0 Mcf/d	**0 %**
6030	to **6030**	0 bpd	0 bpd	**0 %**	1 Mcf/d	0 Mcf/d	**0 %**
6041	to **6041**	0 bpd	0 bpd	**0 %**	1 Mcf/d	0 Mcf/d	**0 %**
6049	to **6049**	0 bpd	0 bpd	**0 %**	1 Mcf/d	0 Mcf/d	**0 %**
6064	to **6064**	0 bpd	0 bpd	**0 %**	1 Mcf/d	0 Mcf/d	**0 %**
6072	to **6072**	0 bpd	0 bpd	**0 %**	1 Mcf/d	0 Mcf/d	**0 %**
6095	to **6095**	0 bpd	0 bpd	**0 %**	1 Mcf/d	0 Mcf/d	**0 %**
6102	to **6102**	0 bpd	0 bpd	**0 %**	1 Mcf/d	0 Mcf/d	**0 %**
6105	to **6105**	0 bpd	0 bpd	**0 %**	1 Mcf/d	0 Mcf/d	**0 %**
6112	to **6112**	0 bpd	0 bpd	**0 %**	1 Mcf/d	0 Mcf/d	**0 %**
6134	to **6134**	0 bpd	0 bpd	**0 %**	1 Mcf/d	0 Mcf/d	**0 %**
6137	to **6137**	0 bpd	0 bpd	**0 %**	1 Mcf/d	0 Mcf/d	**0 %**
6160	to **6160**	0 bpd	0 bpd	**0 %**	1 Mcf/d	0 Mcf/d	**0 %**
6164	to **6164**	0 bpd	0 bpd	**0 %**	1 Mcf/d	0 Mcf/d	**0 %**
6177	to **6177**	0 bpd	0 bpd	**0 %**	0 Mcf/d	0 Mcf/d	**0 %**
6182	to **6182**	0 bpd	0 bpd	**0 %**	0 Mcf/d	0 Mcf/d	**0 %**
6188	to **6188**	0 bpd	0 bpd	**0 %**	0 Mcf/d	0 Mcf/d	**0 %**
6237	to **6237**	0 bpd	0 bpd	**0 %**	0 Mcf/d	0 Mcf/d	**0 %**
6255	to **6255**	0 bpd	0 bpd	**0 %**	0 Mcf/d	0 Mcf/d	**0 %**
6276	to **6276**	0 bpd	0 bpd	**0 %**	0 Mcf/d	0 Mcf/d	**0 %**
Flow Contribution from Below Log Depth				**0 %**			**0 %**
7885	to **Below**	0 bpd		**0 %**	0 Mcf/d		**0 %**

Analysis Summary

1. The Dakota perforations were not logged due to wellbore restrictions. Total production from that interval was calculated based on data below the 6,276 ft perforation.