In Lieu of Form 3160 (June 1990)

#### **UNITED STATES** DEPARTMENT OF INTERIOR BUREAU OF LAND MANAGEMENT

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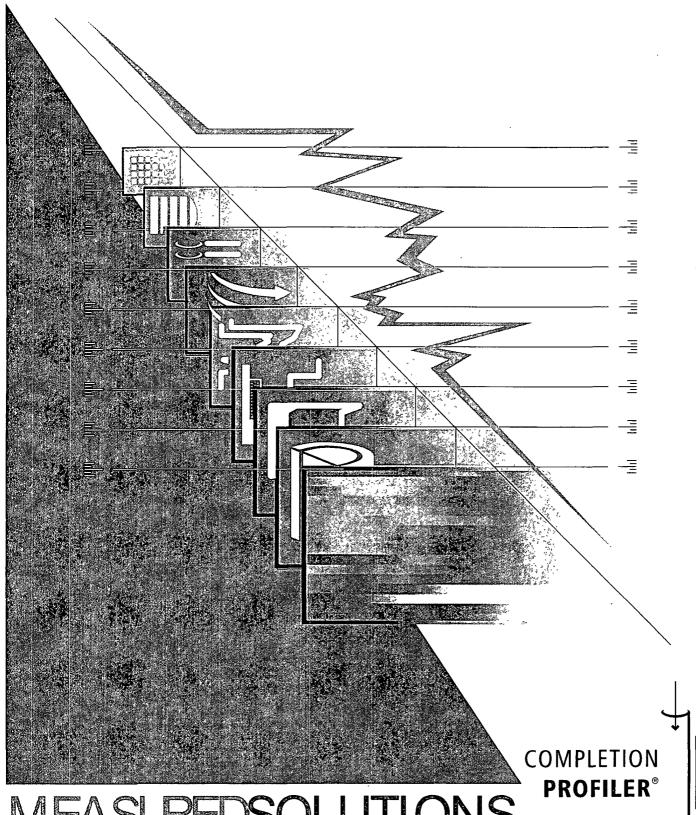
FORM APPROVED Budget Bureau No 1004-0135

JUN 20 2011

Expires March 31, 1993

Do no	ot use this form for proposals to drill or to deepen of	r reentry to a different reservoir. Use	· "APPLITEIATE ION F Bureau of Land I	s eld Offic lanagen	Lease Designation and Scrial No. FEE  NOT If Indian, Allottee or Tribe Name		
	SUBMIT IN 7	TRIPLICATE		7.	If Unit or CA, Agreement Designation Rosa Unit		
1.	Type of Well Oil Well Gas Well X Other	·		8.	Well Name and No. Rosa Unit 017C		
2	Name of Operator WILLIAMS PRODUCTION COMPANY			9	API Well No. 30-039-30381		
3	Address and Telephone No. PO Box 640 Aztec, NM 87410-0640 634-42	22		10.	Field and Pool, or Exploratory Area BLANCO MV/BASIN DK/BASIN MC		
4.	Location of Well (Footage, Sec., T., R, M, or 1940' FSL & 535' FWL 22\$0' FSL & -2250' FWL SEC 20, T31N, 5'	AND REPORTS ON WELLS per or recentry to a different reservoir.  USE_"APPLICATION   USE_"APPLICATION   If Indian, Allottee or Tribe Name   Indian   Indian		•			
	9 J3D2 CHECK APPROPRIA	TE BOX(s) TO INDICATE NATUR	E OF NOTICE, REP	ORT, OR C	OTHER DATA		
	TYPE OF SUBMISSION						
	Notice of Intent  x Subsequent Report  Final Abandonment	Recompletion Plugging Back Casing Repair Altering Casing			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		
13.	directionally drilled, give subsurface locations	and measured and true vertical depth	s for all markers and	zones perti	nent to this work.)*		
	ims E&P has run Protechnic's Completionims proposes the following allocation:	on profiler tool for allocation	purposes on the	Rosa Uni	t #017C. Based on the results obtained,  RCVD JUN 22'11		
					OIL CONS. DIV.		
	Mesaverde	80%	437	Mcf/d	DIST. 3		
	Mancos	8%	44	Mcf/d			
	Dakota	12%	66	Mcf/d			
	Total	100%	547	Mcf/d			
14	I hereby certify that the foregoing is true and c		ory Spec Sr. D	ate <u>6/20</u> /	<u>/11                                   </u>		
	(This space for Federal or State office use)  Approved by	Title	6c0 ·		Date 6-21-11		

### Williams Production Company Rosa Unit 17C







Company | Williams Production Company

Well Name | Rosa Unit 17C

Field | Blanco Mesaverde/Basin Dakota

Location | Rio Arriba County, New Mexico

Customer Name | Michael Andrews

Date of Survey June 7, 2011

Date of Analysis | June 10, 2011

Logging Engineer | Loren Healy

Analyst | Cole Hutchings

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

<b>₩ Date</b>	Time	Comment
06/07	06:30	Arrive on location
06/07	05:30	Gauge run start
06/07	06:30	Gauge run stop
06/07	07:22	Program Completion Profile String
06/07	07:38	Start GIH pass
06/07	08:04	Stop GIH pass
06/07	08:11	Start logging passes
06/07	11:45	Stop logging passes
06/07	10:54	Start out of well pass
06/07	12:14	Stop out of well pass
06/07	12:22	Start download
06/07	12:45	Stop download
06/07	13:00	Rig down

Interval Logged: [From 5,549 to 8,477 ft.]

60 ft/min 90 ft/min 120 ft/min





### Well Information

Casing: 5.5" 17.0 lb/ft surface to 8,528 ft PBTD: 8,510 ft

Tubing: 2.375" 4.7 lb/ft surface to 5,489 ft

Perforations: 5,714; 5,716; 5,718; 5,720; 5,722; 5,728; 5,733; 5,735; 5,737; 5,740;

5,744; 5,906; 5,912; 5,914; 5,916; 5,922; 5,928; 5,934; 5,940; 5,946; 5,953; 5,955; 5,957; 5,959; 5,961; 5,964; 5,970; 5,976; 5,982; 5,988;

5,992; 5,994; 5,996; 5,998 ft

(Cliff House)

6,000; 6,004; 6,008; 6,012; 6,014; 6,016; 6,018; 6,020; 6,022; 6,024;

6,026; 6,028; 6,030; 6,038; 6,055; 6,057; 6,059; 6,064; 6,066;

6,068 ft (Menefee)

6,169; 6,173; 6,177; 6,181; 6,185; 6,189; 6,204; 6,208; 6,212; 6,216;

6,220; 6,224; 6,230; 6,236; 6,240; 6,244; 6,248; 6,252; 6,256; 6,260;

6,264; 6,267; 6,270; 6,275; 6,281; 6,285; 6,289; 6,293; 6,297; 6,301;

6,305; 6,309; 6,313; 6,329; 6,331; 6,345; 6,347; 6,365; 6,367; 6,378;

 $6,380;\ 6,428;\ 6,430;\ 6,432;\ 6,434;\ 6,446;\ 6,448;\ 6,457;\ 6,459;\ 6,490;$ 

6,492; 6,507; 6,509; 6,531; 6,533; 6,554; 6,556; 6,578; 6,580; 6,589;

6,590; 6,599; 6,601 ft

(Point Lookout)

7,372; 7,385; 7,394; 7,406; 7,419; 7,430; 7,440; 7,447; 7,456; 7,467;

7,476; 7,485; 7,493; 7,500; 7,507; 7,513; 7,521; 7,528; 7,534; 7,545;

7,556 ft

(Upper Mancos)

7,709; 7,713; 7,719; 7,723; 7,727; 7,731; 7,740; 7,750; 7,760; 7,765;

7,770; 7,775; 7,780; 7,784; 7,793; 7,801; 7,805; 7,815 ft

(Lower Mancos)

8,432; 8,436; 8,440; 8,444; 8,448; 8,452; 8,456; 8,460; 8,466; 8,470;

8,474; 8,478; 8,482; 8,486; 8,490; 8,494; 8,498; 8,502; 8,506; 8,510;

8,514 ft

(Dakota)





Flowing tubing pressure at the time of logging: 68 psi

Daily average surface production reported at the time of logging:

gas: 556 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					
10/08/09	Completion Profiler				
05/15/10	Completion Profiler				





### Results

The following table summarizes the production from each producing zone.

1.37				GAS / WATER P	RODUCTION P			
Zone	Inte	rvals	Q-Gas	Qp-Gas	Percent of	Q-Water	Qp-Water	Percent of
	feet		MCFD	MCFD	Total	BFPD	BFPD	Total
Surface	to	5714	547 Mcf/d		100 %	5 bpd		100 %
			Cliff House		39 %			40 %
5714	to	5998	547 Mcf/d	211 Mcf/d		5 þpd	2 bpd	
			Menefee		7 %			7 %
6000	to	6068	336 Mcf/d	38 Mcf/d		3 bpd	0 bpd	
			Point Lookout	<u> </u>	34 %			36 %
6169	to	6601	298 Mcf/d	188 M cf/d		3 bpd	2 bpd	
			Upper Mancos	<u> </u>	7 %			8 %
7372	to	7556	110 Mcf/d	41 Mcf/d		1 bpd	0 bpd	
Lower Mancos			1 %			1 %		
7709	to	7815	69 Mcf/d	3 Mcf/d		0 bpd	0 bpd	
Dakota			10 %		<u> </u>	7 %		
8432	to	8474	66 Mcf/d	55 Mcf/d		0 bpd	0 bpd	
Flow C	ontr	ibution f	rom Below Log De	pth	2 %		•	1 %
8477	to	Below	11 Mcf/d		2 %	0 bpd		1 %