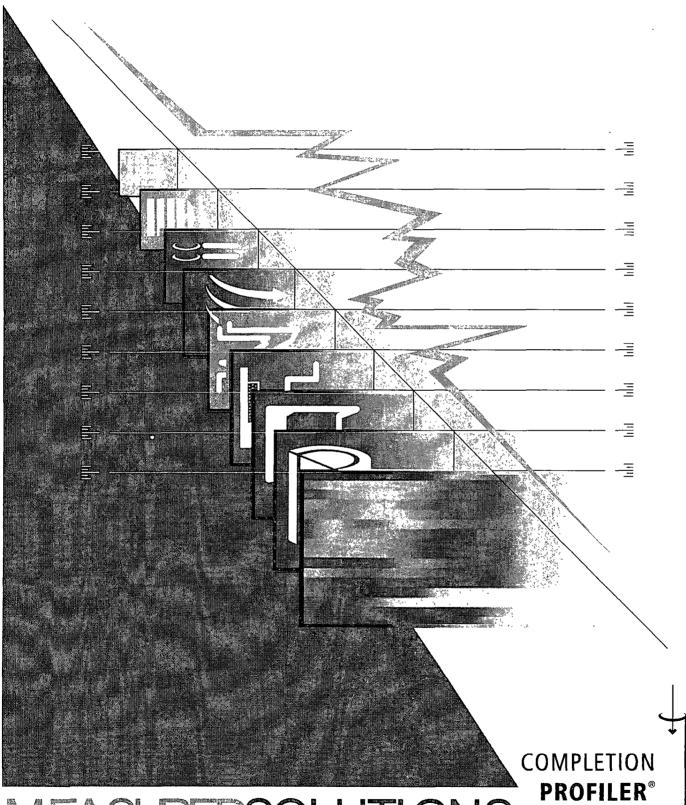
In Lieu of Form 3160 (June 1990	DEPARTMI	TED STATES ENT OF INTERIOR AND MANAGEMENT	FORM APPROVED Budget Bureau No. 1004-0135 Expires March 31, 1993 5 Lease Designation and Serial No NMSF-078772		
Do not us		REPORTS ON WELLS or reentry to a different reservoir Use "APPLICATION"			
	TO DREEL TO BEHI.	nt for such proposais	6 If Indian, Allottee or Tribe Name		
	SUBMIT IN	FRIPLICATE		Jnit or CA, Agreement Designation sa Unit	
1.	Type of Well Oil Well Gas Well X Other		1	II Name and No. sa Unit 089D	
2	Name of Operator WILLIAMS PRODUCTION COMPANY	1	9 API Well No. 30-039-30783		
3	Address and Telephone No PO Box 640 Aztec, NM 87410-0640			ld and Pool, or Exploratory Area ANCO MV/BASIN DK/BASIN MC	
4.	Location of Well (Footage, Sec , T , R , M., or 600' FNL & 645' FEL 1143' FNL & 1815' FEL SEC 34 32N 6W	Survey Description)		anty or Parish, State Arriba, New Mexico	
	CHECK APPROPRIA	TE BOX(s) TO INDICATE NATURE OF NOTICE, RE	PORT, OR OTHE	R DATA	
	TYPE OF SUBMISSION	ТҮРЕ	OF ACTION		
	Notice of Intent	Abandonment		nge of Plans	
	x Subsequent Report	Recompletion , Plugging Back		v Construction i-Routine Fracturing	
	Final Abandonment	Casing Repair Altering Casing X Other REALLOCATION	Wat Con	er Shut-Off version to Injection Dispose Water	
EP			on W	e Report results of multiple completion Vell Completion or Recompletion Report Log form)	
13.	Describe Proposed or Completed Operations (Odirectionally drilled, give subsurface locations	Clearly state all pertinent details, and give pertinent dates, and measured and true vertical depths for all markers an	ncluding estimated d zones pertinent to	date of starting any proposed work. If well is o this work.)*	
	s E&P has run Protechnic's Completies proposes the following allocation:	on profiler tool for allocation purposes on the		9D. Based on the results obtained,	
	Mesaverde	65% 358	Mcf/d	AND PROPERTY.	
	Mancos	9% 48	Mcf/d	180 TECEIVED 193031	
	Dakota	26% 142	Mcf/d	19 OH COM	
	Total	100% 548	Mcf/d	SEALONS DIN DIST & CO.	
14	I hereby certify that the foregoing is true and c	opect		-101 68 Fa	
	Signed Larry Higgins	Title <u>Drilling SUPR</u> Date 7/2	0/11		
	(This space for Federal or State office use)				
	Approved by Joe HewM	Title 6c0		Date 7 -72.1	
	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.

Williams Production Company Rosa Unit 89D



MEASUREDSOLUTIONS





Company | Williams Production Company

Well Name | Rosa Unit 89D

Field Blanco Mesaverde/Basin Dakota

Location | Rio Arriba County, New Mexico

Customer Name | Michael Andrews

Date of Survey July 7, 2011

Date of Analysis | July 11, 2011

Logging Engineer | Jeff White

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

Date	Time	Comment
07/07	10:00	Arrive on location
07/07	N/A	Gauge run start
07/07	N/A	Gauge run stop
07/07	10:28	Program Completion Profile String
07/07	10:37	Start GIH pass
07/07	10:57	Stop GIH pass
07/07	11:05	Start logging passes
07/07	14:25	Stop logging passes
07/07	14:33	Start out of well pass
07/07	15:46	Stop out of well pass
07/07	15:05	Start download
07/07	15:25	Stop download
07/07	15:45	Rig down

Interval Logged:

[From 5,836 to 8,543 ft.]

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





Well Information

Casing: 5.5" 17.0 lb/ft surface to 8,623 ft PBTD:8,614 ft

Tubing: 2.375" 4.7 lb/ft surface to 5,770 ft

Perforations: 5,976; 5,978; 5,980; 5,982; 5,984; 5,986; 5,988; 5,990; 5,992; 6,010;

6,012; 6,030; 6,032; 6,034; 6,036; 6,038; 6,040; 6,042; 6,044; 6,046; 6,048; 6,050; 6,052; 6,054; 6,056; 6,060; 6,086; 6,088; 6,090; 6,124; 6,126; 6,128; 6,134; 6,136; 6,138; 6,140; 6,161; 6,163; 6,165; 6,167;

6,169; 6,171 ft

(Stage 5 - Cliff House/Menefee)

6,203; 6,205; 6,207; 6,220; 6,222; 6,224; 6,226; 6,228; 6,230; 6,232; 6,234; 6,236; 6,238; 6,240; 6,242; 6,246; 6,248; 6,250; 6,252; 6,254; 6,256; 6,258; 6,260; 6,270; 6,274; 6,276; 6,278; 6,280; 6,282; 6,284; 6,286; 6,288; 6,290; 6,292; 6,296; 6,298; 6,300; 6,308; 6,317; 6,340; 6,343; 6,346; 6,350; 6,359; 6,361; 6,378; 6,405; 6,459; 6,461; 6,497;

6,499; 6,512; 6,514; 6,516 ft (Stage 4 – Point Lookout)

7,400; 7,410; 7,420; 7,430; 7,440; 7,450; 7,460; 7,470; 7,480; 7,490; 7,500; 7,510; 7,520; 7,530; 7,540; 7,550; 7,560; 7,570; 7,580; 7,590;

7,600; 7,610; 7,620; 7,630; 7,640; 7,650 ft

(Stage 3 – Upper Mancos)

7,700; 7,710; 7,720; 7,730; 7,740; 7,746; 7,753; 7,759; 7,766; 7,773;

7,780; 7,790; 7,800; 7,810; 7,820; 7,830; 7,840 ft

(Stage 2 – Lower Mancos)

8,482; 8,486; 8,488; 8,490; 8,494; 8,498; 8,502; 8,510; 8,518; 8,526;

8,530; 8,534; 8,536; 8,538; 8,544; 8,552; 8,560; 8,566; 8,570; 8,574;

8,578; 8,585; 8,592; 8,596; 8,600 ft

(Stage 1 – Dakota)

Flowing tubing pressure at the time of logging: 80 psi

Daily average surface production reported at the time of logging:

gas: 550 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	
07/31/10	Completion Profiler	





Results

The following table summarizes the production from each producing zone.

111				GAS / WATER PR	ODUCTION P	ROFILE		
				Flow Rates I	Reported at STF			
Zone	Inte	rvals	Q-Gas	Qp-Gas	Percent of	Q-Water	Qp-Water	Percent of
	feet		MCFD	MCFD	Total	BFPD	BFPD	Total
Surface	to	5976	549 Mcf/d		100 %	5 bpd		100 %
````		Stage 5	Cliff House/Mene	fée	26 %		275. (B)	28 %
5976	to	6171	549 Mcf/d	143 Mcf/d		5 bpd	1 bpd	
	art S	Stag	e 4 - Point Lookou		39%		Care Care	43.%
6203	to	6516	406 Mcf/d	215 Mcf/d		3 bpd	2 bpd	
ig	· · ·	Stag	e 3 - Upper Máncos		8.%			8 %
7400	to	7650	191 Mcf/d	42 Mcf/d		1 bpd	0 bpd	
1 (4 %		Stag	e 2 - Lower Mancos		1%	The same of the sa		1 %
7700	to	7840	149 Mcf/d	6 Mcf/d		1 bpd	0 bpd	
	7, 5		tage 1 - Dakota	State Contraction	20 %			15 %
8482	to	8538	143 Mcf/d	112 Mcf/d		1 bpd	1 bpd	
, Flòw C	onti	ibution f	ròm Below Log De	pth ```	6 %			4 %
8543	to	Below	30 Mcf/d		6 %	0 bpd		4 %