

**NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

Operator Williams Production Company					Lease or Unit Name Unit 3				
Test Type X Initial Annual Special			Test Date 10/1/2001		Well Number #152B				
Completion Date 9/21/2001		Total Depth 6375'		Plug Back TD 6351'		Elevation 6658'		Unit Sec Twp Rng C 36 32N 6W	
Casing Size 4 1/2"		Weight 10.5#		Set At 6375'		Perforations: 5062' - 5825'		County Rio Arriba	
Tubing Size 2-3/8"		Weight 4.7#		Set At 6240'		Perforations: 5906' - 6285'		Pool Blanco MV	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At		Formation MV		
Producing Thru Tubing		Reservoir Temp. oF		Mean Annual Temp. oF		Barometer Pressure - Pa		Connection	
L	H	Gq 0.6	%CO2	%N2	%H2S	Prover 3/4"	Meter Run	Taps	

FLOW DATA					TUBING DATA		CASING DATA		
NO	Prover Line Size	X Orifice Size	Pressure p.s.i.q	Temperature oF	Pressure p.s.i.q	Temperature oF	Pressure p.s.i.q	Temperature oF	Duration of Flow
SI	2" X 3/4"				935	81	935		0
1					260	60	900		0.5 hr
2					255	61	885		1.0 hr
3					255	62	875		1.5 hrs
4					250	64	870		2.0 hrs
5					250	65	855		3.0 hrs

RATE OF FLOW CALCULATION										
NO	Coefficient (24 Hours)				hwPm	Pressure Pm	Flow Temp. Factor Fl	Gravity Factor Fq	Super Compress. Factor, Fpv	Rate of Flow Q.Mcfd
1	9.604					262	0.9952	1.29	1.03	3327
2										
3										
4										

NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ration				Mcf/bbl.
1					A.P.I Gravity of Liquid Hydrocarbons _____				Deq.
2					Specific Gravity Separator _____				XXXXXX
3					Specific Gravity Flowing Fluid xxxxxxxxxxxx				
4					Critical Pressure _____ p.s.i.a.				_____ p.s.i.a.
5					Critical Temperature _____ R				_____ R

NO	Pc	Pt1	Pw	Pw2	Pc2-Pw2	(1) $Pc2 =$		(2) $Pc2^n =$	
1	947		867	751689	145120	6.1797754		3.9194896	
2						$Pc2 - Pw2$		$Pc2 - Pw2$	
3						$AOF = Q$		$Pc2^n =$	
4						13041		$Pc2 - Pw2$	

Absolute Open Flow 13041		Mcf/d @ 15.025	Angle of Slope _____	Slope, n 0.75
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Remarks:			
Approved By Commission:	Conducted By: Larry Higgins	Calculated By: Tracy Ross	Checked By:

District I
1625 N. French Dr., Hobbs, NM 88240

District II
811 South First, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-104
Revised March 17, 1999

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P O BOX 3102, MS 37-2 TULSA, OK 74101		² OGRID Number 120782
		³ Reason for Filing Code NW
⁴ API Number 30 - 039-26631	⁵ Pool Name BLANCO MV	⁶ Pool Code 72319
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 152B

II. ¹⁰ Surface Location

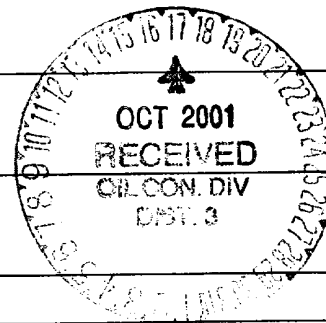
Ul or lot no. C	Section 36	Township 32N	Range 6W	Lot Idn	Feet from the 885'	North/South Line NORTH	Feet from the 2490'	East/West line WEST	County RIO ARRIBA
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¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Lse Code F	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE, AZ 85267	2830093	O	
025244	WILLIAMS FIELD SERVICES ATTN: BUD ALMOND P O BOX 645 TULSA, OKLA 74102	2830094	G	



IV. Produced Water

²³ POD 2830095	²⁴ POD ULSTR Location and Description
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V. Well Completion Data

²⁵ Spud Date 07/15/01	²⁶ Ready Date 09/21/01	²⁷ TD 6375'	²⁸ PBTD 6351'	²⁹ Perforations 5062' - 6285'	³⁰ DHC, DC, MC
³¹ Hole Size 12 1/4"	³² Casing & Tubing Size 9 5/8" - 36#	³³ Depth Set 289'	³⁴ Sacks Cement 140 SX 195 cu. Ft.		
8 3/4"	7" - 20#	3900'	630 SX 1170 cu. Ft.		
6 1/4"	4 1/2" - 10.5#	3778' - 6375'	210 SX 416 cu. Ft.		
	2 3/8" - 4.7#	6240'			

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date 10/01/01	³⁸ Test Length 3 HRS	³⁹ Tbg. Pressure 250	⁴⁰ Csg. Pressure 855
⁴¹ Choke Size 3/4"	⁴² Oil 0	⁴³ Water 0	⁴⁴ Gas 416	⁴⁵ AOF	⁴⁶ Test Method Pilot

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Tracy Ross</i> Printed name: TRACY ROSS Title: PRODUCTION ANALYST Date: October 16, 2001 Phone: 918-573-6254		OIL CONSERVATION DIVISION Approved by: ORIGINAL SIGNED BY CHARLIE T. PURPIN Title: DEPUTY OIL & GAS INSPECTOR, DIST. 3 Approval Date: OCT 17 2001	
⁴⁸ If this is a change of operator fill in the OGRID number and name of the previous operator			
Previous Operator Signature	Printed Name	Title	Date