

NEW MEXICO OIL CONSERVATION COMMISSION
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122

Revised 12-1-55

Pool Blanco Mesaverde		Formation Mesaverde		County San Juan	
Initial M	Annual	Special	Date of Test 10/28/65		
Company Artec Oil & Gas Company		Lease Granier #2		Well No. 1	
Unit M	Sec. 26	Twp. 30	Range 10	Purchaser Southern Union Gas	
Casing 1 1/2	Wt. 9.5	I.D. 4.090	Set at 5100'	Perf. 4044	To 79
Tubing 2-3/8	Wt. 4.7	I.D. 1.995	Set at 5013	Perf. 4085	To 4095
Gas Pay:	From 4044	To 4079	L 4085	G 700 (est)	GL 5195
Producing Through:		Casing	Tubing	Type Well - Single - Braden head - G.G. or G.O. Dual	
Date of Completion 10/22/65		Packer None	Reservoir Temp.		

OBSERVED DATA

Tested Through: Prover ☐ Choke ☒ Meter ☐								Type of Taps	
FLOW DATA					TUBING DATA		CASING DATA		DURATION OF FLOW HR.
No.	(Choke) (Line) Size	(Choke) (Line) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	
1.	7 days					815		818	
2.	2"	3/4"				197		458	
3.									
4.									
5.									

FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{h_w p_t}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCF PD @ 15.025 psia
1.	12.365		809	1.000	.9258	1.015	2429
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl. Specific Gravity Separator Gas _____

Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____

F_c _____ (1-e^{-S}) P_c _____ P_c^2 _____ P_c^2 _____

No.	$\frac{P_w}{P_t}$ psia	P_t^2	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2 (1-e^{-S})$	$\frac{P_w^2}{P_c^2}$	$P_c^2 - P_w^2$	Cal $\frac{P_w}{P_c}$	$\frac{P_w}{P_c}$
1.						220800	518,700		
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: 3986 MCFPD; α .75

COMPANY Artec Oil & Gas Company WITNESSED _____

ADDRESS Box 570, Farmington, New Mexico COMPANY _____

AGENT AND TITLE W. H. J. Jenson

District Engineer

