

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Dakota Formation DAKOTA County SAN JUAN
 Initial _____ Annual _____ Special _____ Date of Test 8/29/61
 Company ARTEL OIL AND GAS Lease Grenier Well No. 12
 Unit P Sec. 13 Twp. 31N Rge. 12W Purchaser _____
 Casing 4 1/2 Wt. 9 5/11-6 I.D. 4.000 Set at 7320 Perf. 7068 To 7298
 Tubing 2 3/8 Wt. 4.0 I.D. 1.995 Set at 7041 Perf. As seller To _____
 Gas Pay: From 7068 To 7298 L 7041 XG 7000 GL 4929 Bar. Press. 12
 Producing Thru: Casing _____ Tubing _____ Type Well SINGLE-GR
 Single-Bradenhead-G. G. or G.G. Well
 Date of Completion: 8/22/61 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Choke) (Choke) (Choke)

Type Taps _____

No.	Flow Data			Tubing Data		Casing Data		Duration of Test
	(Choke) (Line) Size	(Choke) (Choke) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	
SI								
1.	2"	3/4"				1923	1924	
2.						238	602	
3.								
4.								
5.								

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.5650		250	1.000	.9258	1.031	29.56
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
 Gravity of Liquid Hydrocarbons _____ deg.
 P_c _____ (1-e⁻⁸)

Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid _____
 P_c 1926 P_c 3.748, 026

No.	P_w P_t (psia)	P_t^2	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2$ (1-e ⁻⁸)	P_w^2	$P_c^2 - P_w^2$	Cal. P_w	X_c
1.	630					396,900	3,351,186		3.22
2.									
3.									
4.									
5.									

Absolute Potential: 3209 MCFPD; n. 75
 COMPANY ARTEL OIL AND GAS
 ADDRESS Denver, 570 Farmington, New Mexico
 AGENT and TITLE B. J. Manna DISTRICT ENGINEER
 WITNESSED _____
 COMPANY _____

REMARKS

