

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool BASIN Formation DAKOTA County SAN JUAN
 Initial _____ Annual _____ Special _____ Date of Test 4/14/64
 Company ARTEL OIL & GAS Lease McGrath Well No. A-1
 Unit I Sec. 3 Twp. 29N Rge. 12W Purchaser _____
 Casing 4 1/2 Wt. 9.5-10.5 I.D. 4.000 Set at 6688 Perf. 6434 To 6524
 Tubing 2 3/8 Wt. 4.7 I.D. 1.995 Set at 6429 Perf. Pin Collar To _____
 Gas Pay: From 6434 To 6524 L 6429 XG 7000 GL 4500 Bar. Press. 12
 Producing Through Casing _____ Tubing ☒ Type Well Single - Gas
 Single-Bradenhead G.O.G. or G.O. Dual _____
 Date of Completion: 4/7/64 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Runner) (Choke) (Master)

Type Taps _____

No.	Flow Data			Tubing Data		Casing Data		Duration of Flow Hr.
	(Runner) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	
SI								
1.	2"	3/8"				1906	1913	
2.						132	1024	3 hrs.
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.	12.365		199	1.000	.9258	1.017	1725
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
 Gravity of Liquid Hydrocarbons _____ deg.
 P_c _____

Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid _____
 P_c 1925 2 3725.625

No.	P _w P _t (psia)	P _t ²	P _c Q	(P _c Q) ²	(P _c Q) ² (1-e ⁻⁸)	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.	400					160,000	3,545,625		
2.									
3.									
4.									
5.									

Absolute Potential: 1793 MCFPD; n .75
 COMPANY ARTEL OIL & GAS
 ADDRESS Dumas 578 FARMINGTON, NEW MEXICO
 AGENT and TITLE B. H. Preece DISTRICT ENGINEER
 WITNESSED _____
 COMPANY _____

REMARKS

