MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 11/10/75	
Company: Northwest Pipeline Corporation		Connection: New Completion			
Pool: Blanco		Formation: Mesa Verde		Unit: San Juan 29-6	
Completion Date: 11/1/75	Total Depth: 6199	Plug Back TD: 6165	Elevation: 6770 GL	Farm or Lease Name: San Juan 29-6 Unit	
Csg. Size: 4.500 / Wt.: 10.5 / d: 4.052 / Set At: 6199		Perforations: From 5462 To 6132		Well No.: #2A	
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 6118		Perforations: From To		Unit: F / Sec.: 14 / Twp.: 29 / Rge.: 6	
Type Well – Single – Bradenhead – G.G. or G.C. Multiple: Gas - Single		Packer Set At: None		County: Rio Arriba	
Producing Thru: Tubing	Reservoir Temp. °F: @	Mean Annual Temp. °F:	Baro. Press. – P_a: 12.0	State: New Mexico	
L:	H:	Gg: .690	% CO_2:	% N_2:	% H_2S:
Prover: Orifice Meter	Meter Run: 4"	Taps: Flange			

	FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size X Orifice Size	p.s.i.g.	Diff.	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					596		708		SIP
1.	4" X 2.500	84	7.1	59°	359		658		3 hr
2.									
3.									
4.									
5.									

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	Differential Meter	Pressure Meter Static	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1							
2.	103.00	7.1	3.1	1.001	1.204	1.007	2751
3.							
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.

Specific Gravity Separator Gas _____ XXXXXXXXXX

Specific Gravity Flowing Fluid XXXXX _____

Critical Pressure _____ P.S.I.A. _____ P.S.I.A.

Critical Temperature _____ R _____ R

P_c 720 P_c^2 518400

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		670	448900	69500
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 7.4590$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4.5135$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 12417$

Absolute Open Flow 12417 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: Differential and static from L-10 chart. Coefficient from chart factor 3.162 and orifice factor of 32.64. Variable choke set at 48/64-well produced approximately 5 bbls of water with a trace of condensate.

Approved By Commission:	Conducted By:	Calculated By:	Checked By: