MULTI-POINT AND ONE-POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 12-5-75	
Company: Northwest Pipeline Corp.		Connection: New Completion		
Pool: Gavalin		Formation: Pictured Cliff		Unit
Completion Date: 11-19-75	Total Depth: 3944'	Plug Back TD: 3926'	Elevation: 7113'	Farm or Lease Name: Jicarilla 93
Csg. Size: 2.875 / Wt.: 6.4# / d: 2.441 / Set At: 3944		Perforations: From 3776 To 3806		Well No.: 4
Tbg. Size: none / Wt. / d / Set At		Perforations: From To		Unit: P / Sec.: 34 / Twp.: 27 / Rge.: 3
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Gas-Tubingless Completion		Packer Set At: none		County: Rio Arriba
Producing Thru: casing	Reservoir Temp. °F: θ	Mean Annual Temp. °F	Baro. Press. – P_a: 12.0	State: New Mexico
L / H	Gg: .685	% CO_2 / % N_2 / % H_2S	Prover: orifice meter	Meter Run: 4" / Taps: flange

NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
	FLOW DATA				TUBING DATA		CASING DATA		
SI	SIP meter						937		10 day SIP
1.	4 x 2.500	7	3.0	62			64		3 hours
2.									
3.									
4.									
5.									

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$ meter / diff	Pressure P_m meter / P_s static	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	103.21	3.0	1.38	0.9981	1.208	1.004	517
2.							
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 949 P_c^2 900601

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		85	7225	893376
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{900601}{893376}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0069$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 521$

Absolute Open Flow 521 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .85

Remarks: Caclulated Pw = 85 psia. Well made 10.5 barrels of oil while testing.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Larry G. Moore	R.E. Fielder	

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