NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 5-31-77	
Company: Northwest Pipeline Corp.		Connection: New Completion		
Pool: Blanco		Formation: Mesa Verde		Unit: San Juan 29-5
Completion Date: 5-20-77	Total Depth: 5888	Plug Back TD: 5854	Elevation: 6575	Farm or Lease Name: San Juan 29-5 Unit
Csg. Size: 7.000 / 4.500 — Wt.: 20.0 / 10.5 — d: 4.052 — Set At: 3888 / 3725-5888		Perforations: From 5404 To 5800		Well No.: 19A
Tbg. Size: 2.375 — Wt.: 4.7 — d: 1.995 — Set At: 5808		Perforations: From To		Unit: P — Sec.: 6 — Twp.: 29 — Rge.: 5
Type Well – Single – Bradenhead – G.G. or G.O. 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	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.64				orifice meter	4"	flange

	FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					545		678		SIP
1.	4 x 2.750	78	8.2	66°	156		514		
2.									
3.									
4.									
5.									

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	130.00	3.0	8.2	.994	1.250	1.007	4001
2.							
3.							
4.							
5.							

NO.	P_t	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 690 P_c^2 476100

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

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.3874$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.9206$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 7,685$

Absolute Open Flow 7,685 Mcfd @ 15.025 — Angle of Slope θ _____ — Slope, n .75

Remarks: Well produced 7 bbls of water with a trace of condensate. Variable choke set at 48/64.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Fred Hamrick	B.J. Broughton js	