NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 6-1-65

Type Test: [x] Initial [ ] Annual [ ] Special — 4/24/78

Company: Northwest Pipeline Corp.	Connection: New Completion	
Pool: Blanco	Formation: Mesa Verde	Unit: San Juan 29-5
Completion Date: 4/11/78	Total Depth: 5980'	Plug Back TD: 5942' — Elevation: 6675' GR — Farm or Lease Name: San Juan 29-5 Unit
Csg. Size: 7.000 / 4.500 — Wt.: 20.0 / 10.5 — d: 6.456 / 4.000 — Set At: 3885 / 3711-5977	Perforations: From 5394' To 5896'	Well No.: #12A
Tbg. Size: 2 3/8" — Wt.: 4.7 — d: 1.995 — Set At: 5898'	Perforations: From — To	Unit: D — Sec.: 30 — Twp.: 29N — Rge.: 5W
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: 6 — Mean Annual Temp. °F: — Baro. Press. – P_a: 12.0	State: New Mexico
L: — H: — Gg: .687 — % CO_2: — % N_2: — % H_2S: — Prover: Flow Meter	Meter Run: 4"	Taps: Flange

FLOW DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI							643		924		STP
1.	2"	x	2.750	210	485	58°	417		758		3 hr.
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	4.7	4.85	1.002	1.206	1.025	3670
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 936 P_c^2 876096

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		760	577600	298496
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.9350$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.2424$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 8230$

Absolute Open Flow 8230 Mcfd @ 15.025 — Angle of Slope θ _____ — Slope, n .75

Remarks: Well produced approximately 1 bbl of condensate.

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

RJB/aa