NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: ☐ Initial ☐ Annual ☒ Special — Test Date: 7-25-77

Company: Northwest Pipeline Corp. — Connection: New Well — Unit: 29-5

Pool: Blanco — Formation: Mesa Verde — Farm or Lease Name: San Juan 29-5 Unit

Completion Date	Total Depth	Plug Back TD	Elevation
7-13-77	5838	5766	6540 GR

Csg. Size	Wt.	d	Set At	Perforations	Well No.
7.000	11.6	6.456	3838	From 5382 To 5767	#4A
4.500	10.5	4.052	3690-5836		

Tbg. Size	Wt.	d	Set At	Perforations	Unit	Sec.	Twp.	Rge.
2.375	4.7	1.995	5757	From To	C	6	29	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
		.67				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	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							724		724		SIP
1.	4"	X	2.750	116	9.6	64°	226		541		3 hr.
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	~~Pressure~~ Diff. P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	130.00	3.6	9.6	.9962	1.222	1.014	5546
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_t	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.

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

Specific Gravity Separator Gas _____ XXXXXXXXX

Specific Gravity Flowing Fluid XXXXX _____

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

Critical Temperature _____ R _____ R

P_c 736 P_c^2 541696

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		553	305809	235887
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.2964$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.8655$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 10,346$

Absolute Open Flow 10,346 Mcfd @ 15.025 — Angle of Slope θ _____ — Slope, n .75

Remarks: Variable Choke set @ 48/64.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Fred Hamrick	Fred Hamrick	

RJR/dr