NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special — Test Date: 7-1-77

Company: Northwest Pipeline Corp. — Connection: New Completion

Pool: Blanco — Formation: Mesa Verde — Unit: San Juan 29-5

Completion Date	Total Depth	Plug Back TD	Elevation	Farm or Lease Name
6-24-77	5944	5904	6660	San Juan 29-5 Unit

Csg. Size	Wt.	d	Set At	Perforations	Well No.
7.000 / 4.500	20.0 / 10.5	6.456 / 4.052	3944 / 3799-5940	From 5492 To 5872	21A

Tbg. Size	Wt.	d	Set At	Perforations	Unit	Sec.	Twp.	Rge.
2.375	4.7	1.995	5859	From To	O	8	29	5

Type Well – Single – Bradenhead – G.G. or G.O. Multiple	Packer Set At	County
Gas - Single	None	Rio Arriba

Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a	State
Tubing	@		12.0	New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.637				orifice meter	4"	flange

NO.	FLOW DATA: Prover Line Size X Orifice Size	Meter PSIG	Meter Diff.	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					546		647		SIP
1.	4" X 2.750	54	6.8	69°	124		416		3 hrs.
2.									
3.									
4.									
5.									

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	Meter Static	Meter Diff.	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	130.00	2.6	6.8	.992	1.253	1.003	2865
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 659 P_c^2 434281

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		428	183184	251097
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.7295$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.5082$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4322$

Absolute Open Flow 4322 Mcfd @ 15.025 — Angle of Slope θ _____ — Slope, n .75

Remarks: Variable choke set @ 48/64. Produced 5 1/2 bbls. water with a trace of condensate.

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