NEW MEXICO OIL CONSERVATION COMMISSION

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: 8-31-81	
Company: Northwest Pipeline Corporation			Connection: New Completion		
Pool: Blanco			Formation: Mesa Verde		Unit: San Juan 30-5
Completion Date: 8-13-81	Total Depth: 5818'		Plug Back TD: 5783'	Elevation: 6449'	Farm or Lease Name: San Juan 30-5 Unit
Csg. Size: 7.000 / 4.500	Wt.: 20.0 / 10.5	d: 6.456 / 4.052	Set At: 3821' / 3581'-5818'	Perforations: From 5312' To 5709'	Well No.: #41A
Tbg. Size: 2.375	Wt.: 4.7	d: 1.995	Set At: 5757'	Perforations: From To	Unit: I; Sec.: 32; Twp.: 30N; 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: e	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
		est. .583				positive choke		

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							687		687		SIP
1.	2"	X	.750	136		60°	136		378		3 hrs.
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	9.604		148	1.000	1.310	1.010	1881
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 Hyerocarbons _____ 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 699 P_c^2 488601

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		390	152100	336501
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4520$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.3227$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2488$

Absolute Open Flow 2488 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

Remarks: Produced very light mist of water throughout test. Vented 291 MCF.

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