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: 9/5/78	
Company: Northwest Pipeline Corporation		Connection: New Completion			
Pool: Basin		Formation: Dakota		Unit: San Juan 29-5	
Completion Date: 8/25/78	Total Depth: 8830	Plug Back TD: 8782	Elevation: 7459	Farm or Lease Name: San Juan 29-5 Unit	
Csg. Size: 4.500 / Wt.: 10.5 / d: 4.052 / Set At: 8827		Perforations: From 8726 To 8736		Well No.: #91	
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 8750		Perforations: From To		Unit: B / Sec.: 35 / Twp.: 29 / Rge.: 5	
Type Well – Single – Bradenhead – G.C. 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: .590	% CO_2:	% N_2:	% H_2S:
Prover: Positive Choke	Meter Run:	Taps:			

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						2309		2639		SIP
1.	2"	x .750	332		78°	332		1250		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		334	.984	1.302	1.021	4322
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: _____ XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX _____
Critical Pressure: _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature: _____ R _____ R

P_c 2651 P_c^2 7027801

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1262	1592644	5435157
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2930$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2125$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 5240$

Absolute Open Flow: 5240 Mcfd @ 15.025 Angle of Slope θ: _____ Slope, n: .75

Remarks: Well unloaded heavy water at start of test then cleared to light mist of water.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Wilford Charley	B.J. Broughton	

BJB/aa