NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

JUN 11 1983
OIL CON. DIV.
DIST. 3

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 4/19/83	
Company: Northwest Pipeline Corporation			Connection: New Completion		
Pool: Basin			Formation: Dakota		Unit: San Juan 30-5
Completion Date: 4-07-83	Total Depth: 7925'		Plug Back TD: 7858'	Elevation: 6413' KB	Farm or Lease Name: San Juan 30-5 Unit
Csg. Size: 4.500 / Wt.: 11.6 / d: 4.052 / Set At: 7925'			Perforations: From 7780' To 7830'		Well No.: #87
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 7764'			Perforations: From To		Unit: M / Sec.: 5 / Twp.: 30 / Rge.: 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: est. .590	% CO_2:	% N_2:	% H_2S: Positive Choke / Meter Run: / Taps:

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	SIP						2526		2526		
1.	2"	X	.750"	259		69°	259	69°	875	69°	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		271	.992	1.302	1.019	3425
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 2538 P_c^2 6441444

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		887	786769	5654675
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1391$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1026$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3777$

Absolute Open Flow 3777 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: Produced light mist throughout test. Vented 528 MCF.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Gip Aulbert	M.J. Turnbaugh	

SKW