NEW MEXICO OIL CONSERVATION COMMSSION

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: 7-20-81	
Company: Northwest Pipeline Corporation			Connection: New Completion		
Pool: Blanco			Formation: Mesa Verde		Unit: San Juan 29-5
Completion Date: 6-30-81	Total Depth: 5800'		Plug Back TD: 5765'	Elevation: 6405'	Farm or Lease Name: San Juan 29-5 Unit
Csg. Size: 7.000 / 4.500	Wt.: 20.0 / 10.5	d: 6.456 / 4.052	Set At: 3695' / 3471-5800	Perforations: From 5263' To 5628'	Well No.: #104 MV
Tbg. Size: 2.378	Wt.: 4.7	d: 1.995	Set At: 5567'	Perforations: From To	Unit: B; Sec.: 10; Twp.: 29N; Rge.: 5W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Gas - Multiple Completion			Packer Set At: 3440'		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. .670	% 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	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							1110				SIP
1.	2"	X	.750	130		60°	130		283 (Calc.)		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		142	1.000	1.222	1.014	1690
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 _____ XXXXXXXXX
Critical Pressure _____ P.S.I.A.
Critical Temperature _____ R _____ R

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DIST. 3

P_c 1122 P_c^2 1258884

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		283	80089	1178795
2		(calc)		
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0679$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0505$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1775$

Absolute Open Flow 1775 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: Produced heavy mist of water. Vented 242 MCF.

G1	1-e-s	$Fc0^2$	R^2	Pt^2	Pt^2+R^2	Calc. Pw
3730	.238	252472	60088	20164	80252	283 Psia

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