NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
OCT 15 1984
OIL CON. DIV.
DIST. 3

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 10/01/84	
Company: Northwest Pipeline Corporation			Connection: New Completion		Unit: San Juan 31-6
Pool: Basin			Formation: Dakota		
Completion Date: 9/11/84	Total Depth: 7709'		Plug Back TD: 7652'	Elevation: 6208' KB	Farm or Lease Name: San Juan 31-6 Unit
Csg. Size: 4.500 / Wt.: 10.5 / d: 4.052	Set At: 7709'		Perforations: From 7595' To 7646'		Well No.: #50
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995	Set At: 7609'		Perforations: From To		Unit: L / Sec.: 31 / Twp.: 31 / Rge.: 6
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	Prover: 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						2810		2810		
1.	2"	X	.750"			65°	79	65°	398	65°	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		91	.995	1.302	1.006	1139
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 _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 2822 P_c^2 7963684

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		410	168100	7795584
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0216$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0162$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1157$

Absolute Open Flow 1157 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: Produced light mist throughout test. Vented 187 MCF.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
skl	Chik Charley	M.J. Turnbaugh	