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: 11-05-81	
Company: Northwest Pipeline Corporation	Connection: New Well			
Pool: Blanco	Formation: Mesa Verde			Unit: San Juan 31-6
Completion Date: 10-22-81	Total Depth: 5700'	Plug Back TD: 5665'	Elevation: 6329'	Farm or Lease Name: San Juan 31-6 Unit
Csg. Size: 7.000 / 4.500	Wt.: 20.0 / 10.5	d: 6.456 / 4.052	Set At: 3621' / 3393'-5696'	Perforations: From 5166' To 5626'
Well No.: #7A MV				
Tbg. Size: 2.375	Wt.: 4.7	d: 1.995	Set At: 5486'	Perforations: From To
Unit: O	Sec.: 1	Twp.: 30N	Rge.: 7W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Gas - Single Completion		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	% CO_2	% N_2	% H_2S	Prover: positive 3/4"choke	Meter Run	Taps
.		est. .602						

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							690		690		SIP
1.	2"	X	.750	214		67°	214		524		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		226	.993	1.289	1.020	2834
2							
3							
4							
5							

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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 _____ XXXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 702 P_c^2 492804

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		536	287296	205508
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.3980$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.9270$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 5461$

Absolute Open Flow 5461 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: Produced light H_2O mist throughout test, with trace of condensate.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Fred S. Hamrick	Fred S. Hamrick	