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: 7-24-80	
Company: El Paso Natural Gas Company		Connection: Northwest Pipeline Company		
Pool: Basin		Formation: Dakota		Unit: San Juan
Completion Date: 5-4-80	Total Depth: 8396'	Plug Back TD: 8382'	Elevation: 7101'	Farm or Lease Name: San Juan 27-4 Unit
Csg. Size: 9.625 / Wt.: 40.0# / d: 8.835 / Set At: * 4316'		Perforations: From 8168 To 8379		Well No.: #101 (DK)
Tbg. Size: 2.375 / Wt.: 4.7# / d: 1.995 / Set At: 8329		Perforations: From To		Unit: G / Sec.: 28 / Twp.: 27 / Rge.: 4
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G.G. Dual		Packer Set At: 6515'		County: Rio Arriba
Producing Thru: Tub	Reservoir Temp. °F: @	Mean Annual Temp. °F:	Baro. Press. – P_a: 12	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
8329'		.670					4"	Flg.

	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					1638				7 Days
1.	4" X 2.50"			70	20				3 Hr.
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	32.64	9.353	14	.9905	1.222	1.000	370
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 1650 P_c^2 2,722,500

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	196	65.7	4317	2,718,183
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0016$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0012$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 370$

Absolute Open Flow 370 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: * 4½" Liner 6545' - 8396'
Fluid Produced - 233 Bbls Oil, 9.8 Bbls Water
Gas Vented 66.0 MCF

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Roger Hardy	Bill Clark	