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: 7-1-80	
Company: El Paso Natural Gas Company		Connection: Northwest Pipeline Company		
Pool: Tapacito		Formation: Pictured Cliff		Unit: San Juan 27-4
Completion Date: 4-28-80	Total Depth: 6704	Plug Back TD: 6686	Elevation: 7251 Gl	Farm or Lease Name: 27-4 Unit
Csg. Size: 7.000 / Wt.: 20 / d: 6.456 / Set At: 4413		Perforations: From 4060 To 4140		Well No.: #120 (PC)
Tbg. Size: 1.660 / Wt.: 2.4 / d: 1.380 / Set At: 4148		Perforations: From To		Unit: K / Sec.: 34 / Twp.: 27 / Rge.: 4
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G.G. Dual		Packer Set At: 4287		County: Rio Arriba
Producing Thru: Csg.	Reservoir Temp. °F: @	Mean Annual Temp. °F:	Baro. Press. – P_a: 12	State: New Mexico
L:	H:	Gg: 0.685	% CO_2:	% N_2:
% H_2S:	Prover:	Meter Run: 4"	Taps: Flange	

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X	Orifice Size	Static	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							1002		1005		
1.	4"	X	2.500	2.07	6.30	50	127		127		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	3.162X2.35X6.30		1.010	1.208	1.004	1872
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 _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1017 P_c^2 1034289

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		139	19321	1014968
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0190$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0162$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1902$

Absolute Open Flow 1902 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n 0.85

Remarks: The well produced 269 MCF/D of gas and no fluids during the test.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Lyle Nation	H. E. McAnally	