

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-177
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date 6-16-81							
Company El Paso Natural Gas Company				Connection Northwest Pipeline Corp.								
Pool Basin			Formation Dakota			Unit Allison						
Completion Date 5-28-81		Total Depth 8146		Plug Back TD 8138		Elevation 6553 GR		Farm or Lease Name Allison Unit				
Csg. Size 9.625	Wt. 40	d 8.835	Set At 3776	Perforations: From 7969 To 8115		Well No. #57						
Tub. Size 2.375	Wt. 4.7	d 1.995	Set At 8068	Perforations: From To		Unit K	Sec. 13	Twp. 32	Rye. 7			
Type Well - Single - Branchhead - G.C. or G.O. Multiple G. G. Dual					Packer Set At		County San Juan					
Producing Thru Tbg.		Reservoir Temp. *F p		Mean Annual Temp. *F		Baro. Press. - P _a 12		State New Mexico				
L	H	G _v .650	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps				
FLOW DATA					TUBING DATA			CASING DATA		Duration of Flow		
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							1520				18 Days	
1.	2		.750	245		62	245				3 Hours	
2.												
3.												
4.												
5.												
RATE OF FLOW CALCULATIONS												
NO.	Coefficient (24 Hour)	$\sqrt{h_w \rho_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd					
1	12.365		257	.9981	.9608	1.025	3124					
2.												
3.												
4.												
5.												
NO.	P _f	Temp. *R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf, bbl.							
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.							
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX							
3.					Specific Gravity Flowing Fluid _____ XXXXX							
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.							
5.					Critical Temperature _____ R _____ R							
P ₁	1532	P ₂	2347024									
NO.	P ₁ ²	P ₂ ²	P ₂ ² - P ₁ ²	(1) $\frac{P_2^2}{P_2^2 - P_1^2} = \frac{2347024}{2007135}$				(2) $\left[\frac{P_2^2}{P_2^2 - P_1^2} \right]^n = 1.1245$				
1	66049	583	339889									
2												
3				AOF = Q $\left[\frac{h_w^2}{P_2^2 - P_1^2} \right]^n = 3513$								
4												
5												
Absolute Open Flow 3513					Mcfd @ 15.025			Angle of Slope @ _____				
Remarks: * 7.000 Liner 3647 - 6320' * 4.500 Liner 6198 - 8146'												
Approved by Division				Conducted By: Tom McAndrews				Calculated By: L. E. Mabe, Jr.				Checked By:

