

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6-24-81				
Company El Paso Natural Gas Company						Connection Northwest Pipeline Corp.				
Pool Blanco						Formation Mesa Verde				
Completion Date 5-28-81			Total Depth 8146		Plug Back TD 8138		Elevation 6553 GR		Form or Lease Name Allison Unit	
Csg. Size 9.625	Wt. 40	d 8.835	Set At 3776	Perforations: From *5248 To 6122		Well No. #57				
Tub. Size 2.375	Wt. 4.7	d 1.995	Set At 8068	Perforations: From To		Unit Sec. Twp. Rge. K 13 32 7				
Type Well - Single - Broadhead - G.G. or G.O. Multiple G. G. Dual						Packer Set At		County San Juan		
Producing Thru Csg.		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico		
L	H	G _g .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 _v	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							1100		1142		26 Days
1.	2	X	.750	280		66	325		280		3 Hours
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_{in}}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcf/d
1	12.365		292	.9943	.9608	1.030	3553
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbon	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1										
2.										
3.										
4.										
5.										

NO.	P _t	P _w	P _c	P _c ² - P _w ²
1	1154	337	1331716	1218147
2.				
3.				
4.				
5.				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1331716}{1218147}$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3798$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0691$$

Absolute Open Flow	3798	Mcf @ 15.025	Angle of Slope θ	Slope, n	.75
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Remarks:	*7.000 Liner - 3647 - 6320 4.500 Liner - 6198 - 8146
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Approved by Division	Conducted by Tom McAndrew	Calculated by Ed Mabe	Checked by
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