

DATE November 15, 1957

Operator El Paso Natural Gas		Lease Warren No. 3 (M)	
Location 1550'S, 1090'W, Sec. 13-28-9		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing Diameter 7-5/8	Set At: Feet 2393	Tubing Diameter 2"	Set At: Feet 4633
5-1/2 liner	2299 - 4719	Total Depth: 4720 - c/o 4680	
Pc, Zone: From 4484	To 4672	Flow Through Casing 4720 - c/o 4680	
Stimulation Method Sand Water Frac.		Flow Through Tubing X	

Choke Size, inches .750	Choke Constant: C 12.365		
Shut-in Pressure, Casing, PSIG PC 854	+ 12 = PSIA 866	Days Shut-In 7	Shut-in Pressure, Tubing, PSIG MV 987
Flowing Pressure: P, PSIG 295	+ 12 = PSIA 307		+ 12 = PSIA 999
Temperature: T 66	.750	Working Pressure: Pw, PSIG Calculated	+ 12 = PSIA 580
		Fpv (From Tables) 1.036	Gravity .710

Initial SIPC (PC) 854 psig. Final SIPC (FC) 855 psig. Packer at 2377, sleeve at 2281

CHOKED VOLUME $Q = C \times P_c \times E \times F_g \times F_{pv}$

$Q = 12.365 \times 307 \times .9943 \times .9193 \times 1.036 = 3595$ MCF/D

OPEN FLOW $A_{of} = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$

$A_{of} = \left(\frac{998,001}{661,601} \right)^n \times 1.5084^{.75} \times 3595 = 1.3610 \times 3595$

$A_{of} = 4893$ MCF/D

Tested by R. R. Davis

Witnessed by

cc: E. S. Oberly (6)

Medium fog of distillate and water entire test period.

L. D. Galloway
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