

WELL NAME Antec	POOL SLOPE n = .85	FORMATION Pictured Cliffs	COUNTY San Juan
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87-009

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER McMulleys No. 8		
UNIT LETTER 2	SECTION 14	TOWNSHIP 28	RANGE 9	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2323	TUBING O.D. - INCHES No tubing	TUBING I.D. - INCHES	TOP TUBING PERFOR. FEET
GAS PAY ZONE FROM 2201 to 2242		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .649	GRAVITY X LENGTH 1437
DATE OF FLOW TEST FROM 7-23-69 to 7-31-69			DATE SHUT-IN PRESSURE MEASURED 5-08-69		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt)	(b) Flowing Tubing Pressure (DWt)	(c) Flowing Meter Pressure (DWt)	(d) Flow Chart Static Reading	(e) Meter Error (Item c - Item d)	(f) Friction Loss (a-c) or (b-c)	(g) Average Meter Pressure (integral)
				0	0	215
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. P _h = (h+f)	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P _c = higher value of (j) or (k)	(m) Del. Pressure P _d = $\frac{80}{541} \times P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
215	215	676	-	676		

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 251	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 251 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-S})$ Friction Reg.	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-S}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$ Use P_t^2	$P_w = \sqrt{P_w^2}$ 215
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	251	$\left(\frac{164295}{410751} \right)^n =$	$(0.3999)^n =$	0.4568	$=$	115 MCF/D
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REMARKS: New well 1st. del. June 13, 1969

SUMMARY

Item h	215	Psia
P _c	676	Psia
Q	251	MCF/D
P _w	215	Psia
P _d	541	Psia
D	115	MCF/D

Company	EL PASO NATURAL GAS COMPANY
By	H. E. McAnally
Title	Well Test Engineer
Witnessed By	
Company	

