

Initial
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 1969

Form C122-A
Revised 1-1-68

POOL NAME Blanco	POOL SLOPE $n = .85$	FORMATION Pictured Cliffs	COUNTY San Juan
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87033

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER Pierce No. 6		
UNIT LETTER G	SECTION 17	TOWNSHIP 30 N	RANGE 9 W	PURCHASING PIPELINE	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 3039	TUBING O.D. - INCHES	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2946 TO 2968		WELL PRODUCING THRU CASING xx TUBING		GAS GRAVITY .658	GRAVITY X LENGTH 1938
DATE OF FLOW TEST FROM 9-20-69 TO 9-28-69			DATE SHUT-IN PRESSURE MEASURED 8-4-69		

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) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 244
(h) Corrected Meter Pressure (g+e) 244	(i) Avg. Wellhead Press. $P_i = (h+f)$ 244	(j) Shut-in Casing Pressure (DWt) 711	(k) Shut-in Tubing Pressure (DWt) ---	(l) P_c = higher value of (i) or (k) 711	(m) Del. Pressure $P_d = 80\% P_c$ 569	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 582	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q = 582$ MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.131	$(F_c Q_m)^2 (1000)$ 10437	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 1367	P_i^2 59536	$P_w^2 = P_i^2 + R^2$ 60903	$P_w = \sqrt{P_w^2}$ 247
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 582 \left[\frac{181760}{444618} \right]^n = (.4088)^n = .4675 = 272 \text{ MCF/D}$$

REMARKS: New Well 1st Del. July 22, 1969.

SUMMARY

Item h	244	Psia
P_c	711	Psia
Q	582	MCF/D
P_w	247	Psia
P_d	569	Psia
D	272	MCF/D

Company **El Paso Natural Gas Co.**

By **R.E. Stauffer**

Title

Witnessed By

Company

