

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 71

Form O-22-A
Revised 1-1-68

WELL NAME Aztec	PODE SLOPE 0.85	FORMATION Fractured Cliffs	COUNTY San Juan
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87-253

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Heaton No. 27		
UNIT LETTER 0	SECTION 30	TOWNSHIP 31	RANGE 11	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	FEET AT DEPTH - FEET 2534	TUBING O.D. - INCHES No Tubing	TUBING I.D. - INCHES	TOP - TUBING PERFE. - FEET
GAS PAY ZONE FROM 2322 TO 2360		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .661	GRAVITY X LENGTH 1535
DATE OF FLOW TEST FROM 7-11-71 TO 7-19-71			DATE SHUT-IN PRESSURE MEASURED 4-20-71		

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 Water Pressure (Integr.) 163
(h) Corrected Meter Pressure (g-e) 163	(i) Avg. Wellhead Press. $P_i = (h+f)$ 163	(j) Shut-in Casing Pressure (DWT) 630	(k) Shut-in Tubing Pressure (DWT) ---	(l) P_c = higher value of (j) or (k) 630	(m) Del. Pressure $P_j = \frac{80}{504} P_c$ 504	(n) Separator or Dehydrator Pr. (DWT) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 565	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q =$ 565 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ 0.106	$(F_c Q_m)^2 (1000)$ 9836	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 1043	P_i^2 26569	$P_w^2 = P_i^2 + R^2$ 27612	$P_w = \sqrt{P_w^2}$ 166
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	565	$\left[\frac{142884}{369288} \right]^n =$	$(0.3869)^n =$	0.4461	$=$ 252 MCF/D
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REMARKS: New Well first delivered June 22, 1971.

SUMMARY

Item h **163** Psia
 P_c **630** Psia
 Q **565** MCF/D
 P_w **166** Psia
 P_d **504** Psia
 D **252** MCF/D

Company **EL PASO NATURAL GAS COMPANY**By *[Signature]*

Title

Witnessed By

Company

