

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 70

Form O-12-A
Revised 1-1-68

WELL NAME Aztec	WELL DEPTH n = .85	FORMATION PC	COUNTY SJ
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87-189

COMPANY El Paso Natural Gas Co			WELL NAME AND NUMBER Heaton No. 25		
UNIT LETTER K	SECTION 30	TOWNSHIP 31	RANGE 11	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2573	TUBING O.D. - INCHES no tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. FEET
GAS PAY ZONE FROM 2366 TO 2390			WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .688
DATE OF FLOW TEST FROM 12-1-70 TO 12-9-70			DATE SHUT-IN PRESSURE MEASURED 10-8-70		

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.) 192
(h) Corrected Meter Pressure (g+e) 192	(i) Avg. Wellhead Press. $P_1 = (h+f)$ 192	(j) Shut-in Casing Pressure (DWt) 662	(k) Shut-in Tubing Pressure (DWt) -	(l) $P_c =$ higher value of (j) or (k) 662	(m) Del. Pressure $P_d = 80\% P_c$ 530	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 984	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q =$ 984 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.112	$(F_c Q_m)^2 (1000)$ 29835	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 3342	P_i^2 36864	$P_w^2 = P_i^2 + R^2$ 40206	$P_w = \sqrt{P_w^2}$ 201
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 + P_w^2} \right]^n = \frac{984}{\left[\frac{157344}{398038} \right]^n} = \frac{984}{.3953^n} = \frac{984}{.4544^3} = 447 \text{ MCF/D}$$

REMARKS:

New well, 1st del. 11-12-70.

SUMMARY

Item h	192	Psia
P _c	662	Psia
Q	984	MCF/D
P _w	201	Psia
P _d	530	Psia
D	447	MCF/D

Company **EL PASO NATURAL GAS CO**

By *[Signature]*

Title

Witnessed By

Company

