

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-68

POOL NAME Aztec	POOL SLOPE n = .85	FORMATION Pictured Cliffs	COUNTY San Juan
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75-911

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Heaton No. 22		
UNIT LETTER E	SECTION 28	TOWNSHIP 31	RANGE 11	PURCHASING PIPELINE El Paso Natural Gas	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2733	TUBING O.D. - INCHES No tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2588 TO 2622		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .652	GRAVITY X LENGTH 1687
DATE OF FLOW TEST FROM 1-2-69 TO 1-10-69			DATE SHUT-IN PRESSURE MEASURED 8-14-68		

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 (Integr.)
				0	0	249
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_t = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{80}{531} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
249	249	664		664	531	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 139	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 139 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ Friction Neg.	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$ Use P_t^2	$P_w = \sqrt{P_w^2}$ 249
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 139	$\left(\frac{158935}{378895} \right)^n =$.4194	$=$.4780	$=$ 66 MCF/D
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REMARKS:
New well first delivered 12-2-68

SUMMARY

Item h	249	Psia
P_c	664	Psia
Q	139	MCF/D
P_w	249	Psia
P_d	531	Psia
D	66	MCF/D

Company **EL PASO NATURAL GAS COMPANY**
By **H. L. Kendrick**
Title **Regional Well Test Engineer**
Witnessed By _____
Company _____

JAN 23 1969
OIL CON. COM.
DIST. 3