

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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75-913

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Heaton No. 23		
UNIT LETTER I	SECTION 29	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 2646	TUBING O.D. - INCHES No tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2495 TO 2530		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .663	GRAVITY X LENGTH 1654
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	245
(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 (i) or (k)	(m) Del. Pressure $P_d = \frac{80}{\%P_c}$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
245	245	646	-	646	517	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 282	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume q = 282 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.113	$(F_c Q_m)^2 (1000)$ 2449	$R^2 = \frac{(1-e^{-s}) (F_c Q_m)^2 (1000)}{P_t^2}$ 277	P_t^2 60025	$P_w^2 = P_t^2 + R^2$ 60302	$P_w = \sqrt{P_w^2}$ 246
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	282	$\left[\frac{150027}{357014} \right]^n =$	$\left[.4202 \right]^n =$	.4785	$=$	135 MCF/D
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REMARKS:

New well first delivered 12-2-68

SUMMARY

Item h **245** Psia
 P_c **646** Psia
 Q **282** MCF/D
 P_w **246** Psia
 P_d **517** Psia
 D **135** MCF/D

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

