

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

Form C122-A
 Revised 1-1-68

POOL NAME Blanco	POOL SLOPE n = .75	FORMATION Mesa Verde	COUNTY San Juan
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70-209

COMPANY El Paso Natural Gas			WELL NAME AND NUMBER Atlantic "A" No. 5 (OWWO)		
UNIT LETTER L	SECTION 26	TOWNSHIP 31	RANGE 10	PURCHASING PIPELINE El Paso Natural Gas	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 5627	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 5259
GAS PAY ZONE FROM 4754 TO 5560		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .687	GRAVITY X LENGTH 3613
DATE OF FLOW TEST FROM 2-10-69 TO 2-18-69			DATE SHUT-IN PRESSURE MEASURED 12-19-68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 429	(b) Flowing Tubing Pressure (DWt) 429	(c) Flowing Meter Pressure (DWt) 813	(d) Flow Chart Static Reading 810	(e) Meter Error (Item c - Item d) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 429
(h) Corrected Meter Pressure (g+e) 429	(i) Avg. Wellhead Press. $P_i = (h+f)$ 429	(j) Shut-in Casing Pressure (DWt) 813	(k) Shut-in Tubing Pressure (DWt) 810	(l) P_c = higher value of (j) or (k) 813	(m) Del. Pressure $P_d = \frac{80}{650} \% P_c$ 80	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 934	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 934 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ 0.231	$(F_c Q_m)^2 (1000)$ 77113	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 17813	P_i^2 184041	$P_w^2 = P_i^2 + R^2$ 201854	$P_w = \sqrt{P_w^2}$ 449
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{934}{\left[\frac{238469}{459115} \right]^n} = \frac{0.5194}{0.6116} = 571 \text{ MCF/D}$$

REMARKS:

First delivered after OWWO 1-13-69

SUMMARY

Item h	429	Psia
P_c	813	Psia
Q	934	MCF/D
P_w	449	Psia
P_d	650	Psia
D	571	MCF/D

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



