

WELL DELIVERABILITY TEST REPORT FOR 1972

Form C122-A
Revised 1-1-68

POOL NAME Aztec	POOL SLOPE n = .85	FORMATION PC	COUNTY San Juan
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COMPANY EL PASO NATURAL GAS COMPANY			WELL NAME AND NUMBER Hancock "B" No. 10		
UNIT LETTER I	SECTION 29	TOWNSHIP 28	RANGE 9	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2618	TUBING O.D. - INCHES No tubing	TUBING I.D. - INCHES	TOP TUBING PERF. FEET
GAS PAY ZONE FROM 2516 TO 2550		WELL PRODUCERS THRU CASING XX	TUBING	GAS GRAVITY .640	GRAVITY X LENGTH 1610
DATE OF FLOW TEST FROM 1-20-72 TO 1-28-72			DATE SHUT-IN PRESSURE MEASURED 8-11-71		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 139	(b) Flowing Tubing Pressure (DWt) 139	(c) Flowing Meter Pressure (DWt) 667	(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.) 139
(h) Corrected Meter Pressure (g+e) 139	(i) Avg. Wellhead Press. P _f = (h+f) 139	(j) Shut-in Casing Pressure (DWt) 667	(k) Shut-in Tubing Pressure (DWt) --	(l) P _c = higher value of (j) or (k) 667	(m) Del. Pressure P _d = 80 % P _c 534	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 407	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 407 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-5})$ 0.111	$(F_c Q_n)^2 (1000)$ 5104	$R^2 = (1-e^{-5}) (F_c Q_m)^2 (1000)$ 567	P_t^2 19321	$P_w^2 = P_t^2 + R^2$ 19888	$P_w = \sqrt{P_w^2}$ 141
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 407 \left[\frac{159733}{425001} \right]^n = (0.3758)^n = 0.4352 = 177 \text{ MCF/D}$$

REMARKS:

New Well 1st Del. 12-27-71

SUMMARY

Item h **139** Psia
P_c **667** Psia
Q **407** MCF/D
P_w **141** Psia
P_d **534** Psia
D **177** MCF/D

Company **EL PASO NATURAL GAS COMPANY**
By **H. E. MISCANALLY**
Title _____
Witnessed By _____
Company _____

