

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 1972

Form C122-A
 Revised 1-1-66

WELL NAME Aztec	POOL SLOPE n = .85	FORMATION PC	COUNTY San Juan
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87-335

COMPANY EL PASO NATURAL GAS COMPANY			WELL NAME AND NUMBER Hancock No. 10		
UNIT LETTER K	SECTION 28	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 2571	TUBING O.D. - INCHES No Tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2431 TO 2461		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .612	GRAVITY X LENGTH 1488
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) --	(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.) 139
(h) Corrected Meter Pressure (g+e) 139	(i) Avg. Wellhead Press. $P_t = (h+f)$ 139	(j) Shut-in Casing Pressure (DWt) 666	(k) Shut-in Tubing Pressure (DWt) --	(l) $P_c =$ higher value of (j) or (k) 666	(m) Del. Pressure $P_d = 80$ % P_c 533	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 359	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 339 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-5})$ 0.103	$(F_c Q_m)^2 (1000)$ 3541	$R^2 = (1-e^{-5}) (F_c Q_m)^2 (1000)$ 365	P_t^2 19321	$P_w^2 = P_t^2 + R^2$ 19686	$P_w = \sqrt{P_w^2}$ 140
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 339	$\left[\frac{159467}{423870} \right]^n =$ 0.3762	$\left[\frac{159467}{423870} \right]^n =$ 0.4356	$=$ 148 MCF/D
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REMARKS:

New Well 1st Del. 12-27-71

SUMMARY

Item h **139** Psia
 P_c **666** Psia
 Q **339** MCF/D
 P_w **140** Psia
 P_d **533** Psia
 D **148** MCF/D

Company **EL PASO NATURAL GAS COMPANY**

By **W. E. McAnally**

Title

Witnessed By

Company

