

Deliver

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 1970

Form C122-A
Revised 1-1-68

POOL NAME Tapacito	POOL SLOPE n = .85	FORMATION PC	COUNTY RA
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73055

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER San Juan 27-5 Unit No. 65		
UNIT LETTER C	SECTION 17	TOWNSHIP 27	RANGE 5	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 3458	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 3395
GAS PAY ZONE FROM 3385 TO 3403		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .635	GRAVITY X LENGTH 2156 ✓
DATE OF FLOW TEST FROM 9-30-70 TO 10-8-70			DATE SHUT-IN PRESSURE MEASURED 3-7-69		

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.) 166
(h) Corrected Meter Pressure (g+e) 166	(i) Avg. Wellhead Press. $P_i = (h+f)$ 166 ✓	(j) Shut-in Casing Pressure (DWt) 422	(k) Shut-in Tubing Pressure (DWt) -	(l) P_c = higher value of (i) or (k) 422 ✓	(m) Del. Pressure $P_d = \frac{80}{338} \% P_c$ 338 ✓	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 310	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 310 ✓ MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.145 ✓	$(F_c Q_m)^2 (1000)$ 58250 ✓	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 8446 ✓	P_t^2 27556 ✓	$P_w^2 = P_t^2 + R^2$ 36002 ✓	$P_w = \sqrt{P_w^2}$ 190 ✓
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 310 ✓	$\left(\frac{63840}{142082} \right)^n =$.4493 ✓	$=$.5066 ✓	$=$ 157 ✓ MCF/D
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REMARKS:

Ran tubing 9-1-70

SUMMARY

Item h **166** Psia
 P_c **422** Psia
 Q **310** MCF/D
 P_w **190** Psia
 P_d **338** Psia
 n **157** MCF/D

Company **EL PASO NATURAL GAS COMPANY**

By **A. E. McAnally**

Title

Witnessed By

Company

