

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C122-A
 Revised 1-1-68

POOL NAME Blanco	POOL SLOPE n = .75	FORMATION MV	COUNTY RA
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70-393

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 30-6 Unit No. 78		
UNIT LETTER A	SECTION 25	TOWNSHIP 30	RANGE 7	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 5943	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 5804
GAS PAY ZONE FROM 5167 TO 5812		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .646	GRAVITY X LENGTH 3749 ✓
DATE OF FLOW TEST FROM 9-9-70 TO 9-17-70			DATE SHUT-IN PRESSURE MEASURED 8-7-70		

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.) 404
(h) Corrected Meter Pressure (g+e) 404 ✓	(i) Avg. Wellhead Press. $P_i = (h+f)$ 404 ✓	(j) Shut-in Casing Pressure (DWt) 801	(k) Shut-in Tubing Pressure (DWt) 624	(l) P_c = higher value of (j) or (k) 801	(m) Del. Pressure $P_d = \frac{80}{641} \% P_c$ 641 ✓	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1387	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q = \frac{1387}{1.0000}$ MCF/D 1387 ✓
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ ✓ .239	$(F_c Q_m)^2 (1000)$ ✓ 170056	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ ✓ 40643	P_i^2 ✓ 163216	$P_w^2 = P_i^2 + R^2$ ✓ 203859	$P_w = \sqrt{P_w^2}$ ✓ 452
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{1387}{\left[\frac{230720}{437741} \right]^n} = \frac{1387}{.5270^n} = \frac{6185}{.6183} = 858 \text{ MCF/D}$$

REMARKS:

OWWO, 1st del. August 7, 1970

SUMMARY

Item h **404** Psia
 P_c **801** Psia
 Q **1387** MCF/D
 P_w **452** Psia
 P_d **641** Psia
 D **858** MCF/D

Company **EL PASO NATURAL GAS COMPANY**
 By **A. E. M. M. M. M.**
 Title _____
 Witnessed By _____
 Company _____



