

POOL NAME	POOL SLOPE	FORMATION	COUNTY
Tapacito	$n = .85$	PC	

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 27-5 Unit No. 95		
UNIT LETTER M	SECTION 15	TOWNSHIP 27	RANGE 5	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 3536	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 3425
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 3408	TO 3436	CASING	TUBING XX	.652	2233
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 9-30-70 TO 10-8-70			5-5-69		

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)	(f) Friction Loss (a-c) or (b-c)	(g) Average Meter Pressure (Integr.)
-	-	-	-	0	0	397
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_i = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) $P_m =$ higher value of (i) or (k)	(m) Del. Pressure $P_d =$ <u>80</u> % P_c	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
397 ✓	397 ✓	632	-	632 ✓	506 ✓	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume – MCF/D	Quotient of	$\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
237	1.0000		1.0000	Q = 237 ✓ MCF/D

WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.150	$(F_c, Q_m)^2 (1000)$ 34047	$R^2 =$ $(1 - e^{-s}) (F_c, Q_m)^2 (1000)$ 5107	P_t^2 157609	$P_w^2 = P_t^2 + R^2$ 162716	$P_w = \sqrt{P_w^2}$ 403
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 \cdot P_d^2}{P_c^2 \cdot P_w^2} \right]^n = \underline{237} \left[\frac{143388}{236708} \right]^n = \left[.6057 \right]^n = .6530 = \underline{155} \text{ MCF/D}$$

REMARKS:

Ran tubing 9-1-70

SUMMARY

Item h	397	Psia
P _c	632	Psia
Q	237	MCF/D
P _w	403	Psia
P _d	506	Psia
-	155	MCF/D

Company EL PASO NATURAL GAS COMPANY

By D. E. Walsh

Title

Witnessed By

Company

