

POOL NAME	POOL SLOPE	FORMATION	COUNTY
Basin	n = .75	DK	RA

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas Company			San Juan 27-5 Unit No. 129		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
L	26	27	5	PDMC	
CASING O.D. - INCHES	CASING I.D. - INCHES	SET AT DEPTH - FEET	TUBING O.D. - INCHES	TUBING I.D. - INCHES	TOP OF TUBING PERF. - FEET
4.500	4.052	7798	1.900	1.610	7726
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 7474	TO 7732	CASING	TUBING XXXX	.649	5014 ✓
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 8-8-71	TO 8-16-71	5-28-71			

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)	(f) Friction Loss (a-c) or (b-c)	(g) Average Meter Pressure (Integr.)
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(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_1 = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) $P_c =$ higher value of (j) or (k)	(m) Del. Pressure $P_c = 50 \text{ } ^\circ P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
348	348	2569	2325	2569	1285	

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
625	1.0000	1.0000	Q = 625 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$ 0.306	$(F_c Q_m)^2 (1000)$ 105833	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 32385	P_t^2 121104	$P_w^2 = P_t^2 + R^2$ 153189	$P_w = \sqrt{P_w^2}$ 392
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{625}{\left[\frac{4948936}{6446272} \right]^n} = \left[\frac{.7677}{.8201} \right]^n = \frac{513}{\text{MCF/AD}}$$

REMARKS:

New well, 1st del. July 13, 1971.

SUMMARY

Item h	348	Psia
P _c	2569	Psia
Q _c	625	MCF/D
P _w	392	Psia
P _d	1285	Psia
D	513	MCF/D

EL PASO NATURAL GAS COMPANY

By J. E. D. L. C. Mally

Title _____

Witnessed By _____

Company _____

