

Deliver

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

Form C122-A  
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION DK	COUNTY RA
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87-166

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 27-5 Unit No. 120		
UNIT LETTER L	SECTION 23	TOWNSHIP 27	RANGE 5	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7809	TUBING O.D. - INCHES 1.990	TUBING I.D. - INCHES 1.610	TOP - TUBING PERF. - FEET 7674
GAS PAY ZONE FROM 7478 TO 7688		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .654	GRAVITY X LENGTH 5019
DATE OF FLOW TEST FROM 8-5-70 TO 8-13-70			DATE SHUT-IN PRESSURE MEASURED 6-3-70		

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.) 422
(h) Corrected Meter Pressure (g+e) 422	(i) Avg. Wellhead Press. P <sub>i</sub> = (h+f) 422	(j) Shut-in Casing Pressure (DWt) 2650	(k) Shut-in Tubing Pressure (DWt) 2367	(l) P <sub>c</sub> = higher value of (j) or (k) 2650	(m) Del. Pressure P <sub>d</sub> = 50% P <sub>c</sub> 1325	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 834	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 834 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ .306	$(F_c Q_m)^2 (1000)$ 188448	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 57665	$P_i^2$ 178084	$P_w^2 = P_i^2 + R^2$ 235749	$P_w = \sqrt{P_w^2}$ 486
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DELIVERABILITY CALCULATION

$D = Q \left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	834	$\left( \frac{5266875}{6786751} \right)^n =$	$(.7760)^n =$	.8268	$=$	690 MCF/D
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REMARKS:

New well, 1st del. July 9, 1970.

SUMMARY

Item h	422	Psia
P <sub>c</sub>	2650	Psia
Q	834	MCF/D
P <sub>w</sub>	486	Psia
P <sub>d</sub>	1325	Psia
D	690	MCF/D

Company EL PASO NATURAL GAS COMPANY  
By [Signature]  
Title \_\_\_\_\_  
Witnessed By \_\_\_\_\_  
Company \_\_\_\_\_

