

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 1969

Form C122-A
 Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = 75	FORMATION Dakota	COUNTY Rio Arriba
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86-586

COMPANY El Paso Natural Gas			WELL NAME AND NUMBER San Juan 27-4 Unit No. 38		
UNIT LETTER L	SECTION 6	TOWNSHIP 27	RANGE 4	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 4500	CASING I.D. - INCHES 4052	SET AT DEPTH - FEET 8306	TUBING O.D. - INCHES 2375	TUBING I.D. - INCHES 1995	TOP - TUBING PERF. - FEET 8025
GAS PAY ZONE FROM 8068 TO 8270		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .674	GRAVITY X LENGTH 5409
DATE OF FLOW TEST FROM 1-1-69 TO 1-14-69			DATE SHUT-IN PRESSURE MEASURED 12-03-68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 449	(b) Flowing Tubing Pressure (DWt) 449	(c) Flowing Meter Pressure (DWt) 2427	(d) Flow Chart Static Reading 2476	(e) Meter Error (Item c - Item d) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 449
(h) Corrected Meter Pressure (g + e) 449	(i) Avg. Wellhead Press. $P_f = (h + f)$ 449	(j) Shut-in Casing Pressure (DWt) 2427	(k) Shut-in Tubing Pressure (DWt) 2476	(l) P_c = higher value of (i) or (k) 2476	(m) Del. Pressure $P_d = \frac{50}{1238} \% P_c$ 1238	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1076	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume 1076 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.325	$(F_c Q_m)^2 (1000)$ 102354	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 33265	P_i^2 201601	$P_w^2 = P_i^2 + R^2$ 234866	$P_w = \sqrt{P_w^2}$ 485
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 1076	$\left(\frac{4597932}{5895710} \right)^n =$.7798	$D =$ 8297 MCF/D
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REMARKS:

New well first delivered 12-7-68

SUMMARY

Item h **449** Psia
 P_c **2476** Psia
 Q **1076** MCF/D
 P_w **485** Psia
 P_d **1238** Psia
 D **893** MCF/D

Company **EL PASO NATURAL GAS CO.**
 By **H. L. Kendrick**
 Title **Regional Well Test Engineer**
 Witnessed By _____
 Company _____

