

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE $n = .75$	FORMATION Dakota	COUNTY Rio Arriba
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86-560

COMPANY El Paso Natural Gas			WELL NAME AND NUMBER San Juan 27-5 Unit No. 106		
UNIT LETTER G	SECTION 1	TOWNSHIP 27	RANGE 5	PURCHASING PIPELINE El Paso Natural Gas	
CASING O.D. - INCHES 5.500	CASING I.D. - INCHES 4.950	SET AT DEPTH - FEET 8700	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 8397
GAS PAY ZONE FROM 8430 TO 8628		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .660	GRAVITY X LENGTH 5542
DATE OF FLOW TEST FROM 6-23-69 TO 7-01-69			DATE SHUT-IN PRESSURE MEASURED 5-29-69		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 430	(b) Flowing Tubing Pressure (DWt) 430	(c) Flowing Meter Pressure (DWt) 1015	(d) Flow Chart Static Reading 1013	(e) Meter Error (Item c - Item d) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 430
(h) Corrected Meter Pressure (g+e) 430	(i) Avg. Wellhead Press. $P_f = (h+f)$ 430	(j) Shut-in Casing Pressure (DWt) 1015	(k) Shut-in Tubing Pressure (DWt) 1013	(l) $P_c =$ higher value of (i) or (k) 1015	(m) Del. Pressure $P_d = \frac{50}{508} P_c$ 508	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 44.7	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q =$ 44.7 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.332	$(F_c Q_m)^2 (1000)$ 17665	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 5865	P_t^2 184900	$P_w^2 = P_t^2 + R^2$ 190765	$P_w = \sqrt{P_w^2}$ 437
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DELIVERABILITY CALCULATION

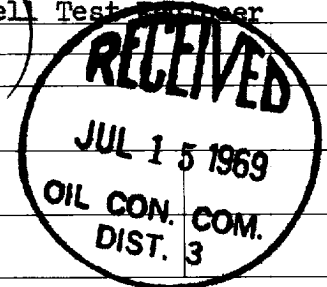
$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 447	$\left[\frac{772161}{839460} \right]^n =$ 0.9198	$=$ 0.9392	$=$ 420 MCF/D
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REMARKS: **Installed Intermittent 5-05-69**

SUMMARY

Item h	430	Psia
P_c	1015	Psia
Q	447	MCF/D
P_w	437	Psia
P_d	508	Psia
D	420	MCF/D

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



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