

Initial
Deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 19 68

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE $n = .75$	FORMATION Dakota	COUNTY Rio Arriba
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75-901

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 28-5 Unit No. 75		
UNIT LETTER G	SECTION 17	TOWNSHIP 28	RANGE 5	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES	SET AT DEPTH - FEET 7952	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7726
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY .596	GRAVITY X LENGTH 4605
FROM 7734	TO 7928	CASING	TUBING XX	DATE SHUT-IN PRESSURE MEASURED	
DATE OF FLOW TEST FROM 12-7-68 TO 12-15-68		DATE SHUT-IN PRESSURE MEASURED 9-24-68			

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	456
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_t = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) $P_c =$ higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{50}{1257} P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
456	456	2510	2514	2514		

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
472	1.0000	1.0000	$Q = \frac{472}{1.0000} = 472$ MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.285	19696	5613	207936	213549	462

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{472}{\left(\frac{4740147}{6106647} \right)^n} = \frac{472}{(.7762)^n} = \frac{472}{.8268} = 390 \text{ MCF/D}$$

REMARKS: **New Well First Delivered 11-8-68.**

SUMMARY

Item h **456** Psia
 P_c **2514** Psia
 Q **472** MCF/D
 P_w **462** Psia
 P_d **1257** Psia
 D **390** MCF/D

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

