

Initial
Deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 19 71

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY Rio Arriba
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86-650

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 29-6 Unit No. 103		
UNIT LETTER G	SECTION 11	TOWNSHIP 29	RANGE 6	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 8178	TUBING O.D. - INCHES 1.900	TUBING I.D. - INCHES 1.610	TCP - TUBING PERF. - FEET 8143
GAS PAY ZONE FROM 8030 TO 8130		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .578	GRAVITY X LENGTH 4707 ✓
DATE OF FLOW TEST FROM 7-2-71 TO 7-10-71			DATE SHUT-IN PRESSURE MEASURED 4-23-71		

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) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 373
(h) Corrected Meter Pressure (g+e) 373	(i) Avg. Wellhead Press. $P_t = (h+i)$ 373 ✓	(j) Shut-in Casing Pressure (DWt) 2549	(k) Shut-in Tubing Pressure (DWt) 2547	(l) P_c = higher value of (j) or (k) 2549 ✓	(m) Del. Pressure $P_d = \frac{50}{1275} P_c$ 1275 ✓	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 468	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q =$ 468 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ 0.290 ✓	$(F_c Q_m)^2 (1000)$ 59341 ✓	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 17209 ✓	P_t^2 139129 ✓	$P_w^2 = P_t^2 + R^2$ 156338 ✓	$P_w = \sqrt{P_w^2}$ 395 ✓
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 468 ✓	$\left[\frac{4871776}{6341063} \right]^n =$ 0.7682 ✓	$=$ 0.8206 ✓	$=$ 384 MCF/D ✓
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REMARKS: New well, first delivered June 12, 1971.

SUMMARY

Item h	373 ✓	Psia
P_c	2549 ✓	Psia
Q	468 ✓	MCF/D
P_w	395 ✓	Psia
P_d	1275 ✓	Psia
D	384 ✓	MCF/D

Company **EL PASO NATURAL GAS COMPANY**
By **H. E. McNally**
Title _____
Witnessed By _____
Company _____

