

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 68

Form CI 22-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE $n = 75$	FORMATION Dakota	COUNTY Rio Arriba
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86577

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 28-4 Unit No. 30		
UNIT LETTER G	SECTION 31	TOWNSHIP 28	RANGE 4	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4500	CASING I.D. - INCHES 4052	SET AT DEPTH - FEET 8701	TUBING O.D. - INCHES 2375	TUBING I.D. - INCHES 1995	TOP - TUBING PERF. - FEET 8442
GAS PAY ZONE FROM 8456 TO 8658		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 678	GRAVITY X LENGTH 5724
DATE OF FLOW TEST FROM 5-27-68 TO 6-4-68			DATE SHUT-IN PRESSURE MEASURED 11-29-67		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 463	(b) Flowing Tubing Pressure (DWt) 463	(c) Flowing Meter Pressure (DWt) 2684	(d) Flow Chart Static Reading 2671	(e) Meter Error (Item c - Item d) 2684	(f) Friction Loss (a-c) or (b-c) $P_d = \frac{50}{1342} \% P_c$	(g) Average Meter Pressure (Inegr.) 463
(h) Corrected Meter Pressure (g+e) 463	(i) Avg. Wellhead Press. $P_t = (h+f)$ 463	(j) Shut-in Casing Pressure (DWt) 2684	(k) Shut-in Tubing Pressure (DWt) 2671	(l) P_c = higher value of (j) or (k) 2684	(m) Del. Pressure $P_w^2 = P_t^2 + R^2$ 299000	(n) Separator or Dehydrator Pr. (DWt) for critical flow only 547

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1678	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q =$ 1678 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.340	$(F_c Q_m)^2 (1000)$ 248914	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 84631	P_t^2 214369	$P_w^2 = P_t^2 + R^2$ 299000	$P_w = \sqrt{P_w^2}$ 547
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	1678	$\left[\frac{5402892}{6904856} \right]^n =$	$\left[.7824 \right]^n =$	.8320	$=$	1396 MCF/D
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REMARKS: New well first delivered 5-11-68.

SUMMARY

Item h **463** Psia
 P_c **2684** Psia
 Q **1678** MCF/D
 P_w **547** Psia
 P_d **1342** Psia
 D **1396** MCF/D

Company **El Paso Natural Gas Company**
 By **[Signature]**
 Title _____
 Witnessed By _____
 Company _____

