

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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COMPANY El Paso Natural Gas			WELL NAME AND NUMBER San Juan 27-4 Unit No. 39		
UNIT LETTER N	SECTION 5	TOWNSHIP 27	RANGE 4	PURCHASING PIPELINE El Paso Natural Gas	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.012	SET AT DEPTH - FEET 8121	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7889
GAS PAY ZONE FROM 7896 TO 8100		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .639	GRAVITY X LENGTH 5041
DATE OF FLOW TEST FROM 1-14-69 TO 1-22-69			DATE SHUT-IN PRESSURE MEASURED 10-07-68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 477	(b) Flowing Tubing Pressure (DWt) 477	(c) Flowing Meter Pressure (DWt) 2563	(d) Flow Chart Static Reading 2559	(e) Meter Error (Item c - Item d) 2563	(f) Friction Loss (a-c) or (b-c) 1282	(g) Average Meter Pressure (Integr.) 477
(h) Corrected Meter Pressure (g+e) 477	(i) Avg. Wellhead Press. $P_h = (h+f)$ 477	(j) Shut-in Casing Pressure (DWt) 2563	(k) Shut-in Tubing Pressure (DWt) 2559	(l) $P_c =$ higher value of (j) or (k) 2563	(m) Del. Pressure $P_d = 50$ 1282	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 547	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 547 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.307	$(F_c Q_m)^2 (1000)$ 26450	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 8120	P_t^2 227529	$P_w^2 = P_t^2 + R^2$ 235649	$P_w = \sqrt{P_w^2}$ 485
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 547	$\left(\frac{4925445}{6333320} \right)^n =$.777	453 MCF/D
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REMARKS:

New well first delivered 12-20-68

SUMMARY

Item h **477** Psia
 P_c **2563** Psia
 Q **547** MCF/D
 P_w **485** Psia
 P_d **1282** Psia
 D **453** MCF/D

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

