

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY Rio Arriba
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86-596

COMPANY El Paso Natural Gas			WELL NAME AND NUMBER San Juan 27-4 Unit No. 40		
UNIT LETTER G	SECTION 6	TOWNSHIP 27	RANGE 4	PURCHASING PIPELINE El Paso Natural Gas	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 8300	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 8068
GAS PAY ZONE FROM 8072 TO 8268		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .625	GRAVITY X LENGTH 5043
DATE OF FLOW TEST FROM 5-14-69 TO 5-22-69			DATE SHUT-IN PRESSURE MEASURED 9-20-68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 430	(b) Flowing Tubing Pressure (DWt) 430	(c) Flowing Meter Pressure (DWt) 2458	(d) Flow Chart Static Reading 2496	(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. $P_i = (h+f)$ 430	(j) Shut-in Casing Pressure (DWt) 2458	(k) Shut-in Tubing Pressure (DWt) 2496	(l) P_c = higher value of (j) or (k) 2496	(m) Del. Pressure $P_d = \frac{50}{1248} \% P_c$ 1248	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 556	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 556 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.307	$(F_c Q_m)^2 (1000)$ 27332	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 8391	P_t^2 184900	$P_w^2 = P_t^2 + R^2$ 193291	$P_w = \sqrt{P_w^2}$ 440
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	556	$\left(\frac{4672512}{6036725} \right)^n =$	.7740	$=$	.8251	$=$	459 MCF/D
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REMARKS:

New well first delivered 4-16-69

SUMMARY

Item h **430** Psia
 P_c **2496** Psia
 Q **556** MCF/D
 P_w **440** Psia
 P_d **1248** Psia
 n **.459** MCF/D

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

