

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 68Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY Rio Arriba
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86-583

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 28-5 Unit No. 76		
UNIT LETTER G	SECTION 21	TOWNSHIP 28	RANGE 5	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 8058	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7874
GAS PAY ZONE FROM 7898 TO 8048		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .598	GRAVITY X LENGTH 4709
DATE OF FLOW TEST FROM 12-7-68 TO 12-15-68			DATE SHUT-IN PRESSURE MEASURED 9-17-68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(e) 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	449
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_i = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c higher value of (i) or (k)	(m) Del. Pressure $P_d = 50\% P_i$ 1365	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
449	449	2729	2718	2729		

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 822	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 822 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.290	$(F_c Q_m)^2 (1000)$ 59722	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 17319	P_i^2 201601	$P_w^2 = P_i^2 + R^2$ 218920	$P_w = \sqrt{P_w^2}$ 468
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$	$\frac{822}{\left(\frac{5584216}{7228521} \right)^n} = \frac{8240}{.8238} = 677$	MCF/D
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REMARKS: New Well First Delivered 11-8-68.

CORRECTED COPY

SUMMARY

Item h 449 Psia
 P_c 2729 Psia
 Q 822 MCF/D
 P_w 468 Psia
 P_d 1365 Psia
 D 677 MCF/D

Company El Paso Natural Gas Company
 Title H. L. Kendrick
 Regional Well Test Engineer

Witnessed By

Company

