

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 1967

Form C122-A
Revised 1-1-66

POOL NAME Basin		POOL SLOPE n= .75		FORMATION Dakota		COUNTY Rio Arriba	
COMPANY El Paso Natural Gas Company				WELL NAME AND NUMBER San Juan 27-5 Unit No. 108			
UNIT LETTER I		SECTION 15		TOWNSHIP 27		RANGE 5	
CASING O.D. - INCHES 4.500		CASING I.D. - INCHES 4.052		SET AT DEPTH - FEET 7880		TUBING O.D. - INCHES 2.375	
CASING I.D. - INCHES 4.052		TUBING I.D. - INCHES 1.995		TOP - TUBING PERF. - FEET 7584		TUBING O.D. - INCHES 2.375	
GAS PAY ZONE FROM 7612 TO 7828		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .663		GRAVITY X LENGTH 5028	
DATE OF FLOW TEST FROM 10-16-67 TO 10-24-67				DATE SHUT-IN PRESSURE MEASURED 8-16-67			

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)	(f) Friction Loss (a - c) or (b - c)	(g) Average Meter Pressure (Integr.) 505
(h) Corrected Meter Pressure (g + e) 505	(i) Avg. Wellhead Press. $P_t = (h + f)$ 505	(j) Shut-in Casing Pressure (DWt) 2504	(k) Shut-in Tubing Pressure (DWt) 2099	(l) P_c = higher value of (j) or (k) 2504	(m) Del. Pressure $P_d = \frac{50}{1252} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 601	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 601 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.306	$(F_c Q_m)^2 (1000)$ 31934	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 9772	P_t^2 255025	$P_w^2 = P_t^2 + R^2$ 264797	$P_w = \sqrt{P_w^2}$ 515
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 601$	$\left[\frac{4702512}{6005219} \right]^n = .7830$	$.8325$	500 MCF/D
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REMARKS:

New Well First Delivered 9-29-67.

SUMMARY

Item h 505 Psia
P_c 2504 Psia
Q 601 MCF/D
P_w 515 Psia
P_d 1252 Psia
D 500 MCF/D

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

