

NEW MEXICO 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
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75667

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	SURVEYSING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET SET ORIGIN - FEET 7880	STUBS O.D. - INCHES 2.375	STUBS I.D. - INCHES 1.995	TOP - TO MINE PERP. - FEET 7584
GAS PAY ZONE FROM 7612 TO 7828		CASING 7880	TUBING X	WELL GRAVITY .663	GRAVITY X LENGTH 5028
DATE OF FLOW TEST FROM 10-16-67 TO 10-24-67			WELL 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) Shut-In Casing Pressure (DWt)	(e) Shut-In Tubing Pressure (DWt)	(f) Friction Loss (a - c) or (b - c)	(g) Average Meter Pressure (Integr.)
						505
(h) Corrected Meter Pressure (g + e)	(i) Avg. Wellhead Press. $P_t = (h + f)$	(j) Shut-In Casing Pressure (DWt)	(k) Shut-In Tubing Pressure (DWt)	(l) P_c = highest value of (j) or (k)	(m) Del. Pressure $P_d = 50$ W.P.	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
505	505	2504	2099	2504	1252	

FLOW RATE CORRECTION (METER ERROR)

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

WORKING PRESSURE CALCULATION

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

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$	601	$\left[\frac{4702512}{255025} \right]^{.8325}$	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
H. L. Kendrick
Regional Well Test Engineer

