

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 66

Form C122-A
 Revised 1-1-66

POOL NAME Basin	POOL SLOPE n= .75	FORMATION Dakota	COUNTY Rio Arriba
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86548

COMPANY EL PASO NATURAL GAS COMPANY			WELL NAME AND NUMBER San Juan 28-6 Unit No. 121		
UNIT LETTER G	SECTION 15	TOWNSHIP 28	RANGE 6	PURCHASING PIPELINE EL PASO NATURAL GAS COMPANY	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7915	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7825
GAS PAY ZONE FROM 7663 TO 7856		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .678	GRAVITY X LENGTH 5305
DATE OF FLOW TEST FROM 12-17-66 TO 12-25-66			DATE SHUT-IN PRESSURE MEASURED 9-8-66		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 512	(b) Flowing Tubing Pressure (DWt) 512 ✓	(c) Flowing Meter Pressure (DWt) 2544	(d) Flow Chart Static Reading 2522	(e) Meter Error (Item c - Item d) 2544 ✓	(f) Friction Loss (a - c) or (b - c) 1272 ✓	(g) Average Meter Pressure (Integr.) 512
(h) Corrected Meter Pressure (g + e) 512	(i) Avg. Wellhead Press. $P_t = (h + f)$ 512 ✓	(j) Shut-in Casing Pressure (DWt) 2544	(k) Shut-in Tubing Pressure (DWt) 2522	(l) P_c = higher value of (j) or (k) 2544 ✓	(m) Del. Pressure $P_d = \frac{50}{1272} \times P_c$ 1272 ✓	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 758	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 758 ✓ MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.320 ✓	$(F_c Q_m)^2 (1000)$ 50794 ✓	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 16254 ✓	P_t^2 262144 ✓	$P_w^2 = P_t^2 + R^2$ 278398 ✓	$P_w = \sqrt{P_w^2}$ 528 ✓
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 758	$\left[\frac{4853952}{6193538} \right]^n =$.7837 ✓	$\left[\frac{.7837}{.8328} \right]^n =$.631 ✓	631 ✓ MCF/D
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REMARKS:

New Well First Delivered 11-23-66.

SUMMARY

Item h	512 ✓	Psia
P_c	2544 ✓	Psia
Q	758 ✓	MCF/D
P_w	528 ✓	Psia
P_d	1272 ✓	Psia
D	631 ✓	MCF/D

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

