

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 71

Form C122-A
Revised 1-1-68

POOL NAME Basin		POOL SLOPE n = .75		FORMATION Dakota		COUNTY San Juan	
COMPANY El Paso Natural Gas Company						WELL NAME AND NUMBER Huerfano Unit No. 209	
UNIT LETTER J	SECTION 25	TOWNSHIP 26		RANGE 9	PURCHASING PIPELINE El Paso Natural Gas Co.		
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6732		TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6671	
GAS PAY ZONE FROM 6450 TO 6670		WELL PRODUCING THRU CASING TUBING XX			GAS GRAVITY .692	GRAVITY X LENGTH 4616 ✓	
DATE OF FLOW TEST FROM 7-9-71 TO 7-17-71				DATE SHUT-IN PRESSURE MEASURED 4-28-71			

87-249

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) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 328
(h) Corrected Meter Pressure (g+e) 328 ✓	(i) Avg. Wellhead Press. $P_i = (h+f)$ 328 ✓	(j) Shut-in Casing Pressure (DWt) 1812	(k) Shut-in Tubing Pressure (DWt) 1812	(l) P_c = higher value of (j) or (k) 1812 ✓	(m) Del. Pressure $P_c = \frac{50}{906} P_c$ 906 ✓	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 981	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume 981 ✓ Q = MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ 0.285 ✓	$(F_c Q_m)^2 (1000)$ 85070	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 24245	P_i^2 107584 ✓	$P_w^2 = P_i^2 + R^2$ 131829	$P_w = \sqrt{P_w^2}$ 363 ✓
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{981}{\left[\frac{2462508}{3151515} \right]^n} = \frac{981}{(0.7813)^n} = \frac{981}{0.8310} = 815 \text{ MCF/D}$$

REMARKS:

New Well first delivered June 11, 1971.

SUMMARY

Item h	328 ✓	Psia
P_c	1812 ✓	Psia
Q	981 ✓	MCF/D
P_w	363 ✓	Psia
P_d	906 ✓	Psia
D	815 ✓	MCF/D

Company **EL PASO NATURAL GAS COMPANY**

By *[Signature]*

Title

Witnessed By

Company

RECEIVED
AUG 2 1971

OIL CON. COM.
DIST. 3