

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY San Juan
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COMPANY El Paso Natural Gas			WELL NAME AND NUMBER Huerfano Unit "Y" No. 127		
UNIT LETTER C	SECTION 26	TOWNSHIP 26	RANGE 10	PURCHASING PIPELINE El Paso Natural Gas	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.012	SET AT DEPTH - FEET 6881	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6629
GAS PAY ZONE FROM 6647 TO 6758		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .702	GRAVITY X LENGTH 4654
DATE OF FLOW TEST FROM 12-28-68 TO 1-5-69			DATE SHUT-IN PRESSURE MEASURED 7-31-68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 410	(b) Flowing Tubing Pressure (DWt) 410	(c) Flowing Meter Pressure (DWt) 1907	(d) Flow Chart Static Reading 1907	(e) Meter Error (Item c - Item d) 1907	(f) Friction Loss (a-c) or (b-c) 954	(g) Average Meter Pressure (Integr.) 410
(h) Corrected Meter Pressure (g+e) 410	(i) Avg. Wellhead Press. $P_t = (h+f)$ 410	(j) Shut-in Casing Pressure (DWt) 1907	(k) Shut-in Tubing Pressure (DWt) 1907	(l) $P_c =$ higher value of (j) or (k) 1907	(m) Del. Pressure $P_d = 50\% P_c$ 954	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

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

$(1-e^{-s})$.287	$(F_c Q_m)^2 (1000)$ 59722	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 17140	P_t^2 168100	$P_w^2 = P_t^2 + R^2$ 185240	$P_w = \sqrt{P_w^2}$ 430
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{822}{\left(\frac{2726533}{3451409} \right)^n} = \left(.7899 \right)^n = .8377 = 689 \text{ MCF/D}$$

REMARKS: **New well first delivered 11-15-68.**

SUMMARY

Item h **410** Psia
 P_c **1907** Psia
 Q **822** MCF/D
 P_w **430** Psia
 P_d **954** Psia
 D **689** MCF/D

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

Witnessed By _____

Company _____

JAN 14 1969
OIL CON. COM.
DIST. 3