

WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-68

POOL NAME West Kutz	POOL SLOPE n = .85	FORMATION Pictured Cliffs	COUNTY San Juan
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75-903

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Huerfano Unit "Y" No. 10		
UNIT LETTER B	SECTION 6	TOWNSHIP 26	RANGE 10	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2238	TUBING O.D. - INCHES No Tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2134 TO 2187		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .746	GRAVITY X LENGTH 1592
DATE OF FLOW TEST FROM 12-12-68 TO 12-20-68			DATE SHUT-IN PRESSURE MEASURED 8-16-68		

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.)
				0	0	174
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_f = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_s = higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{80}{202} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
174	174	252	--	252		

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
533	1.0000	1.0000	Q = 533 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-5})$	$(F_c Q_m)^2 (1000)$	$R^2 = \frac{(1-e^{-5}) (F_c Q_m)^2 (1000)}{P_i^2}$	P_i^2	$P_w^2 = P_i^2 + R^2$	$P_w = \sqrt{P_w^2}$
.109	8756	954	30276	31230	177

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{533}{\left[\frac{22700}{32274} \right]^n} = \left(\frac{.7033}{.7413} \right)^m = \frac{7415}{.7413} = 395 \text{ MCF/D}$$

REMARKS:

New Well First Delivered 11-14-68.

SUMMARY

Item h 174 Psia
P_c 252 Psia
Q 533 MCF/D
P_w 177 Psia
P_d 202 Psia
D 395 MCF/D

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

JAN 8 1969

OIL CON. COM.
DIST. 3

100-200-100
100-200-100
100-200-100