

WELL DELIVERABILITY TEST REPORT FOR 19 68

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY San Juan
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75-772

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Huerfano Unit No. 173		
UNIT LETTER 0	SECTION 13	TOWNSHIP 26	RANGE 10	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6800	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6656
GAS PAY ZONE FROM 6656 TO 6752		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .701	GRAVITY X LENGTH 4666
DATE OF FLOW TEST FROM 6-11-68 TO 6-19-68			DATE SHUT-IN PRESSURE MEASURED 3-20-68		

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.) 443
(h) Corrected Meter Pressure (g+e) 443	(i) Avg. Wellhead Press. $P_f = (h+f)$ 443	(j) Shut-in Casing Pressure (DWt) 1494	(k) Shut-in Tubing Pressure (DWt) 1259	(l) P_c = higher value of (j) or (k) 1494	(m) Del. Pressure $P_d = \frac{50}{747} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 722	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 722 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.288	$(F_c Q_m)^2 (1000)$ 46077	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 13270	P_t^2 196249	$P_w^2 = P_t^2 + R^2$ 209519	$P_w = \sqrt{P_w^2}$ 458
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{722}{\left[\frac{1674027}{2022517} \right]^n} = \frac{722}{(.8276)^n} = \frac{722}{.8677} = 626 \text{ MCF/D}$$

REMARKS:

New well first delivered 5-16-68.

SUMMARY

Item h	443	Psia
P_c	1494	Psia
Q	722	MCF/D
P_w	458	Psia
P_d	747	Psia
D	626	MCF/D

Company El Paso Natural Gas Company
 By *H. L. Kendrick* H. L. Kendrick
 Title Regional Well Test Engineer
 Witnessed By _____
 Company _____

