

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 1967

Form C122-A
Revised 1-1-66

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY San Juan
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75633

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Huerfano Unit No. 161		
UNIT LETTER 0	SECTION 18	TOWNSHIP 26	RANGE 9	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES	SET AT DEPTH - FEET 6710	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6470
GAS PAY ZONE FROM 6512 TO 6624		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .678	GRAVITY X LENGTH 4387
DATE OF FLOW TEST FROM 7-27-67 TO 8-4-67			DATE SHUT-IN PRESSURE MEASURED 6-21-67		

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.) 456
(h) Corrected Meter Pressure (g + e) 456	(i) Avg. Wellhead Press. $P_t = (h + f)$ 456	(j) Shut-in Casing Pressure (DWt) 1881	(k) Shut-in Tubing Pressure (DWt) 1304	(l) P_c = higher value of (j) or (k) 1881	(m) Del. Pressure $P_d = 50\% P_t$ 941	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 340	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 340 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.273	$(F_c Q_m)^2 (1000)$ 10221	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 2790	P_t^2 207936	$P_w^2 = P_t^2 + R^2$ 210726	$P_w = \sqrt{P_w^2}$ 459
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 340$	$\left[\frac{2652680}{3327435} \right]^n = .7972$	$.7972^n = .8435$	287 MCF/D
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REMARKS:

New Well First Delivered 7-13-67.

SUMMARY

Item h 456 Psia
P_c 1881 Psia
Q 340 MCF/D
P_w 459 Psia
P_d 941 Psia
D 287 MCF/D

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



