

Initial
Deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 19 68

Form C123
Revised 1-68

POOL NAME Artec	POOL SLOPE n = .85	FORMATION Pictured Cliffs	COUNTY San Juan
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70580

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Hartman No. 1 (OWHO)		
UNIT LETTER D	SECTION 26	TOWNSHIP 30	RANGE 11	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING I.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2366	TUBING O.D. - INCHES No Tubing	WELL I.D. - INCHES 6.44	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2316 TO 2340		WELL PRODUCING THRU CASING X TUBING		GAS GRAVITY 6.44	GRAVITY X LENGTH
DATE OF FLOW TEST FROM 9-18-68 TO 9-26-68			DATE SHUT-IN PRESSURE MEASURED 8-16-68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 221	(b) Flowing Tubing Pressure (DWt) 221	(c) Flowing Meter Pressure (DWt) 451	(d) Flow Chart Static Reading ---	(e) Meter Error (Item c - Item d) 451	(f) Friction Loss (a--c) or (b--c) 80 / 361	(g) Average Meter Pressure (Inches) 221
(h) Corrected Meter Pressure (g+e) 221	(i) Avg. Wellhead Press. $P_f = (h+f)$ 221	(j) Shut-in Casing Pressure (DWt) 451	(k) Shut-in Tubing Pressure (DWt) ---	(l) P_c = higher value of (i) or (k) 451	(m) Del. Pressure $P_d = \frac{80}{361} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 62	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume 62 MCF/D
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WORKING PRESSURE CALCULATION

$(1-s^{-s})$	$(F_c Q_m)^2 (1000)$	$(1-s^{-s}) (F_c Q_m)^2 (1000)$	P_i^2	$P_w^2 = P_i^2 + R^2$	$P_w = \sqrt{P_w^2}$
Friction Negligible Use P_c					

DELIVERABILITY CALCULATION

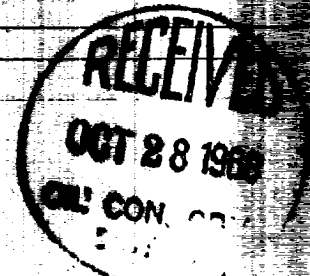
$D = 4 \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	62	$\left(\frac{73080}{154560} \right)^n =$	.4728	$=$	.5290	$=$	33 MCF/D
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REMARKS:

SUMMARY

Item h **221** Psia
 P_c **451** Psia
 Q **62** MCF/D
 P_w **221** Psia
 P_d **361** Psia
 D **33** MCF/D

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



Corrected Test

ORIGINAL
NO. 130
100-20