

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 1968

Form C122-A
 Revised 1-1-68

POOL NAME Blanco	POOL SLOPE n = .75	FORMATION Mesa Verde	COUNTY San Juan
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70-429

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Hughes "A" No. 5		
UNIT LETTER H	SECTION 28	TOWNSHIP 29	RANGE 8	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 5433	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 5192
GAS PAY ZONE FROM 4587 TO 5378		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .715	GRAVITY X LENGTH 3712
DATE OF FLOW TEST FROM 12-2-68 TO 12-10-68			DATE SHUT-IN PRESSURE MEASURED 10-14-68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 463	(b) Flowing Tubing Pressure (DWt) 463	(c) Flowing Meter Pressure (DWt) 779	(d) Flow Chart Static Reading 779	(e) Meter Error (Item c - Item d) 779	(f) Friction Loss (a-c) or (b-c) 623	(g) Average Meter Pressure (Integr.) 463
(h) Corrected Meter Pressure (g+e) 463	(i) Avg. Wellhead Press. $P_t = (h+f)$ 463	(j) Shut-in Casing Pressure (DWt) 779	(k) Shut-in Tubing Pressure (DWt) 779	(l) P_c = higher value of (j) or (k) 779	(m) Del. Pressure $P_d = \frac{80}{623} P_c$ 623	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 985	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume 985 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.237	$(F_c Q_m)^2 (1000)$ 85766	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 20327	P_t^2 214369	$P_w^2 = P_t^2 + R^2$ 234696	$P_w = \sqrt{P_w^2}$ 484
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 985	$\left(\frac{218712}{372145} \right)^n =$.5877	$\left(\frac{.623}{.715} \right)^m =$.672	661 MCF/D
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REMARKS:

CORRECTED COPY

SUMMARY

Item h **463** Psia
 P_c **779** Psia
 Q **985** MCF/D
 P_w **484** Psia
 P_d **623** Psia
 D **661** MCF/D

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



