

Initial
deliverability

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
----------------------------	------------------------------	--------------------------------	---------------------------

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)	(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	463
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_t = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) $P_c =$ higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{80}{623} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
463	463	779	779	779	623	

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
985	1.0000	1.0000	Q = 985 MCF/D

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
-----------------------------	--------------------------------------	---	--------------------------	--	------------------------------------

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	$=$	.6711	$=$	661 MCF/D
--	------------	--	--------------	-----	--------------	-----	------------------

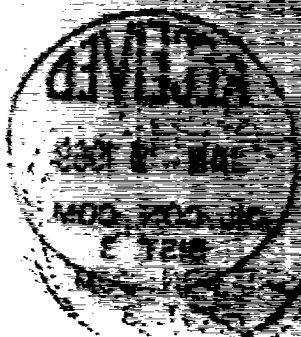
REMARKS: **First Delivered after ONWO 11-7-68.**

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 _____





CO-9-11 C-20 makes document less