

NEW MEXICO WELL DELIVERABILITY TEST REPORT FOR 1968

Form CI22-A
Revised 1-1-68

POOL NAME Blanco	POOL SLOPE n = 75	FORMATION Mesa Verde	COUNTY San Juan
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70617

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Grambling C No. 4 (OWWO)		
UNIT LETTER K	SECTION 12	TOWNSHIP 30	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 5714	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 5327
GAS PAY ZONE FROM 4722 TO 5688		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .681	GRAVITY X LENGTH 3628
DATE OF FLOW TEST FROM 8-7-68 TO 8-15-68			DATE SHUT-IN PRESSURE MEASURED 7-3-68		

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.)
						456
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. P _w = (h+f)	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P _c = higher value of (i) or (k)	(m) Del. Pressure P _d = $\frac{80}{634} P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
456	456	793	777	793		

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
1518	1.0000	1.0000	Q = 1518 MCF/D

WORKING PRESSURE CALCULATION

$(1-s)^2$.232	$(F_c Q_m)^2 (1000)$ 203690	$R^2 = (1-s)^2 (F_c Q_m)^2 (1000)$ 47256	P_t^2 207936	$P_w^2 = P_t^2 + R^2$ 255192	$P_w = \sqrt{P_w^2}$ 505
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{1518}{\left(\frac{226893}{373657} \right)^n} = \left(\frac{.6072}{.6879} \right)^n = \frac{.6879}{.6072} = 1044 \text{ MCF/D}$$

REMARKS: First Delivered 7-18-68 after OWWO.

SUMMARY

Item h	456	Psia
P _c	793	Psia
Q	1518	MCF/D
P _w	505	Psia
P _d	634	Psia
D	1044	MCF/D

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



