

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-68

POOL NAME Blanco	POOL SLOPE n = .75	FORMATION Mesa Verde	COUNTY San Juan
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70050

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER Howell L No. 1		
UNIT LETTER M N	SECTION 23	TOWNSHIP 30N	RANGE 8W	PURCHASING PIPELINE	
CASING O.D. - INCHES 7.000	CASING I.D. - INCHES 6.336	SET AT DEPTH - FEET 4630	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 4816
GAS PAY ZONE FROM 4662 TO 5271		WELL PRODUCING THRU CASING TUBING xx		GAS GRAVITY .663	GRAVITY X LENGTH 3195
DATE OF FLOW TEST FROM 9-16-69 TO 9-24-69			DATE SHUT-IN PRESSURE MEASURED 8-12-69		

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) - - 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 451
(h) Corrected Meter Pressure (g+e) 451	(i) Avg. Wellhead Press. $P_i = (h+f)$ 451	(j) Shut-in Casing Pressure (DWt) 782	(k) Shut-in Tubing Pressure (DWt) 782	(l) P_c = higher value of (i) or (k) 782	(m) Del. Pressure $P_d = 80\% P_c$ 626	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1267	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 1267 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.207	$(F_c Q_m)^2 (1000)$ 141904	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 29374	P_i^2 203401	$P_w^2 = P_i^2 + R^2$ 232775	$P_w = \sqrt{P_w^2}$ 482
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{1267}{\left(\frac{219648}{378749} \right)^n} = \left(.5799 \right)^n = .6646 = 842 \text{ MCF/D}$$

REMARKS: **OWWO Re 1st Del. August 27, 1969.**

SUMMARY

Item h **451** Psia
 P_c **782** Psia
 Q **1267** MCF/D
 P_w **482** Psia
 P_d **626** Psia
 D **842** MCF/D

Company **El Paso Natural Gas Co.**
 By **R. E. Stauffer**
 Title **Original Signed By: R. E. Stauffer**
 Witnessed By _____
 Company _____



