

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 1971

Form C122-A
 Revised 1-1-68

POOL NAME <u>Blanco</u> Antee		POOL SLOPE n = <u>.85</u>	FORMATION <u>PC</u>	COUNTY <u>SJ</u>	
COMPANY <u>El Paso Natural Gas Co</u>			WELL NAME AND NUMBER <u>87-214</u> <u>Sunray "B" No. 3</u>		
UNIT LETTER <u>P</u>	SECTION <u>1</u>	TOWNSHIP <u>30</u>	RANGE <u>10</u>	PURCHASING PIPELINE <u>EPNG</u>	
CASING O.D. - INCHES <u>2.875</u>	CASING I.D. - INCHES <u>2.441</u>	SET AT DEPTH - FEET <u>3367</u>	TUBING O.D. - INCHES <u>no tubing</u>	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM <u>3250</u> TO <u>3270</u>		WELL PRODUCING THRU CASING <u>xx</u> TUBING		GAS GRAVITY <u>.637</u>	GRAVITY X LENGTH <u>2070</u>
DATE OF FLOW TEST FROM <u>1-15-71</u> TO <u>1-23-71</u>			DATE SHUT-IN PRESSURE MEASURED <u>9-8-70</u>		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) <u>-</u>	(b) Flowing Tubing Pressure (DWt) <u>-</u>	(c) Flowing Meter Pressure (DWt) <u>-</u>	(d) Flow Chart Static Reading <u>-</u>	(e) Meter Error (Item c - Item d) <u>0</u>	(f) Friction Loss (a-c) or (b-c) <u>0</u>	(g) Average Meter Pressure (Integr.) <u>215</u>
(h) Corrected Meter Pressure (g+e) <u>215</u>	(i) Avg. Wellhead Press. $P_t = (h+f)$ <u>215</u>	(j) Shut-in Casing Pressure (DWt) <u>899</u>	(k) Shut-in Tubing Pressure (DWt) <u>-</u>	(l) $P_c =$ higher value of (j) or (k) <u>899</u>	(m) Del. Pressure $P_d = \frac{80}{719} \% P_c$ <u>719</u>	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D <u>1354</u>	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ <u>1.0000</u>	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ <u>1.0000</u>	Corrected Volume Q = <u>1354</u> MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ <u>.140</u>	$(F_c Q_m)^2 (1000)$ <u>56491</u>	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ <u>7909</u>	P_t^2 <u>46225</u>	$P_w^2 = P_t^2 + R^2$ <u>54134</u>	$P_w = \sqrt{P_w^2}$ <u>233</u>
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{1354}{\left[\frac{291240}{754067} \right]^n} = \frac{1354}{(.3862)^n} = \frac{.4454}{.3862} = 603 \text{ MCF/D}$$

REMARKS:

New well, 1st del. 12-16-70.

SUMMARY

Item h 215 Psia
 P_c 899 Psia
 Q 1354 MCF/D
 P_w 233 Psia
 P_d 719 Psia
 D 603 MCF/D

Company EL PASO NATURAL GAS COMPANY

By A. E. McAnally

Title _____

Witnessed By _____

Company _____

RECEIVED

FEB 2 1971

**OIL CON. COM.
DIST. 3**