

Inital  
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C122-A  
Revised 1-1-68

POOL NAME So. Blanco		POOL SLOPE n = .85	FORMATION PC	COUNTY RA	
COMPANY El Paso Natural Gas			WELL NAME AND NUMBER Harrington No. 2		
UNIT LETTER D	SECTION 31	TOWNSHIP 27	RANGE 7	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2275	TUBING O.D. - INCHES No tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2144 TO 2164		WELL PRODUCING THRU CASING <b>XX</b> TUBING		GAS GRAVITY .669	GRAVITY X LENGTH 1434
DATE OF FLOW TEST FROM 2-15-70 TO 2-23-70			DATE SHUT-IN PRESSURE MEASURED 12-8-69		

70-136

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.) 157
(h) Corrected Meter Pressure (g+e) 157	(i) Avg. Wellhead Press. P <sub>i</sub> = (h+f) 157	(j) Shut-in Casing Pressure (DWt) 433	(k) Shut-in Tubing Pressure (DWt) -	(l) P <sub>sc</sub> = higher value of (i) or (k) 433	(m) Del. Pressure P <sub>d</sub> = 80 346	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 220	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 220 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ Friction Neg.	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$	$P_i^2$	$P_w^2 = P_i^2 + R^2$ Use P <sub>i</sub> <sup>2</sup>	$P_w = \sqrt{P_w^2}$ 157
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DELIVERABILITY CALCULATION

$$D = Q \left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{220}{\left( \frac{67773}{162840} \right)^n} \left( .4161 \right)^n = .4746 = 104 \text{ MCF/D}$$

REMARKS:

OWWO, 1st del. 1-21-70

SUMMARY

Item h	157	Psia
P <sub>c</sub>	433	Psia
Q	220	MCF/D
P <sub>w</sub>	157	Psia
P <sub>d</sub>	346	Psia
D	104	MCF/D

*OK*

Company El Paso Natural Gas Co.  
By A. E. McAnally  
Title \_\_\_\_\_  
Witnessed By \_\_\_\_\_  
Company \_\_\_\_\_

