

In-
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 1968

Form C122-A
Revised 1-1-68

POOL NAME South Blanco	POOL SLOPE n = .85	FORMATION Pictured Cliffs	COUNTY San Juan
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COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Storey No. 6		
UNIT LETTER H	SECTION 27	TOWNSHIP 28	RANGE 8	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2691	TUBING O.D. - INCHES No Tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2602 TO 2660		WELL PRODUCING THRU CASING X TUBING		GAS GRAVITY .638	GRAVITY X LENGTH 1660
DATE OF FLOW TEST FROM 10-20-68 TO 10-28-68			DATE SHUT-IN PRESSURE MEASURED 7-31-68		

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) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 469
(h) Corrected Meter Pressure (g+e) 469	(i) Avg. Wellhead Press. $P_i = (h+f)$ 469	(j) Shut-in Casing Pressure (DWt) 965	(k) Shut-in Tubing Pressure (DWt) -	(l) P_s = higher value of (j) or (k) 965	(m) Del. Pressure $P_d = \frac{80}{772} \% P_i$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 370	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 370 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_t^2	$P_w = \sqrt{P_w^2}$ 469
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 370 \left[\frac{335241}{711264} \right]^n = (0.4713)^n = 0.5276 = 195 \text{ MCF/D}$$

REMARKS:

New well first delivered 9-24-68.

SUMMARY

Item h	469	Psia
P_c	965	Psia
Q	370	MCF/D
P_w	469	Psia
P_d	772	Psia
D	195	MCF/D

Company EL PASO NATURAL GAS COMPANY
By *H.E. McAnally* H.E. McAnally
Title Well Test Engineer
Witnessed By
Company



