

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 1966

Form CI22-A
 Revised 1-1-66

POOL NAME So. Blanco	POOL SLOPE n= 85	FORMATION Pictured Cliff	COUNTY San Juan
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COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Schwerdtfeger A No. 23		
UNIT LETTER C	SECTION 8	TOWNSHIP 27	RANGE 8	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.442	SET AT DEPTH - FEET 2937	TUBING O.D. - INCHES NONE	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2836 TO 2896		WELL PRODUCING THRU CASING X TUBING		GAS GRAVITY .635	GRAVITY X LENGTH 1801
DATE OF FLOW TEST FROM 9/3/66 TO 9/11/66			DATE SHUT-IN PRESSURE MEASURED 6/22/66		

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.) 218
(h) Corrected Meter Pressure (g + e)	(i) Avg. Wellhead Press. $P_t = (h + f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{80}{507} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
218	218	634	000	634		

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 354	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.000	Corrected Volume Q = 354 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.123	$(F_c Q_m)^2 (1000)$ 3861	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 475	P_t^2 47524	$P_w^2 = P_t^2 + R^2$ 47999	$P_w = \sqrt{P_w^2}$ 219
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 354 \left[\frac{144907}{353957} \right]^n = \frac{.4093}{.4600} = 166 \text{ MCF/D}$

REMARKS:

New Well First Delivered 8-17-66.

SUMMARY

Item h	218	Psia
P_c	634	Psia
Q	354	MCF/D
P_w	219	Psia
P_d	507	Psia
D	166	MCF/D

Company EL PASO NATURAL GAS COMPANY
 By L. Kendrick
 Title Regional Well Test Engineer
 Witnessed By _____
 Company _____

