

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

Form C122-A
Revised 1- -66

POOL NAME Aztec	POOL SLOPE n = .85	FORMAT ON Pictured Cliff	COUNTY San Juan
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COMPANY EL PASO NATURAL GAS COMPANY			WELL NAME AND NUMBER Michener No. 4		
UNIT LETTER U	SECTION 15	TOWNSHIP 28	RANGE 9	PURCHASING PIPELINE EL PASO NATURAL GAS COMPANY	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2398	TUBING O.D. - INCHES NONE	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2306 TO 2344		WELL PRODUCING THRU CASING 23 TUBING		GAS GRAVITY .626	GRAVITY X LENGTH 1444
DATE OF FLOW TEST FROM 12-6-66 TO 12-14-66			DATE SHUT-IN PRESSURE MEASURED 8-24-66		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 221	(b) Flowing Tubing Pressure (DWt) 221	(c) Flowing Meter Pressure (DWt) 745	(d) Flow Chart Static Reading	(e) Meter Error (Item c - Item d) 745	(f) Friction Loss (a - c) or (b - c) 595	(g) Average Meter Pressure (Integr.) 221
(h) Corrected Meter Pressure (g + e) 221	(i) Avg. Wellhead Press. $P_t = (h + f)$ 221	(j) Shut-in Casing Pressure (DWt) 745	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k) 745	(m) Del. Pressure $P_d = \frac{80}{595} \% P_c$ 31	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 295	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 295 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.100	$(F_c Q_m)^2 (1000)$ 2683	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 263	P_t^2 48841	$P_w^2 = P_t^2 + R^2$ 49109	$P_w = \sqrt{P_w^2}$ 222
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 295 \left[\frac{199809}{505916} \right]^n = .3949 = .4540 = 134 \text{ MCF/D}$

REMARKS:

New Well First Delivered 11-18-66.

SUMMARY

Item h 221 Psia
P_c 745 Psia
Q 295 MCF/D
P_w 222 Psia
P_d 595 Psia
D 134 MCF/D

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

