

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 67

Form C122-A
Revised 1-1-66

POOL NAME Aztec	POOL SLOPE n = .85	FORMATION Pictured Cliffs	COUNTY San Juan
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75675

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Neudecker No. 4		
UNIT LETTER D	SECTION 14	TOWNSHIP 29	RANGE 10	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2192	TUBING O.D. - INCHES NO TUBING	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2110 TO 2152		WELL PRODUCING THRU CASING X TUBING		GAS GRAVITY .658	GRAVITY X LENGTH 1388
DATE OF FLOW TEST FROM 10-30-67 TO 11-7-67			DATE SHUT-IN PRESSURE MEASURED 8-10-67		

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.) 221
(h) Corrected Meter Pressure (g + e) 221	(i) Avg. Wellhead Press. $P_i = (h + f)$ 221	(j) Shut-in Casing Pressure (DWt) 615	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k) 615	(m) Del. Pressure $P_d = \frac{80}{492} P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 412	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 412 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.096	$(F_c Q_m)^2 (1000)$ 5230	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 502	P_t^2 48841	$P_w^2 = P_t^2 + R^2$ 49343	$P_w = \sqrt{P_w^2}$ 222
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 412$	$\left[\frac{136161}{328882} \right]^n = .4140$	$\left[\frac{.4140}{.4727} \right]^n = .4727$	195 MCF/D
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REMARKS:

New Well First Delivered 10-13-67.

SUMMARY

Item h 221 Psia
 P_c 615 Psia
 Q 412 MCF/D
 P_w 222 Psia
 P_d 492 Psia
 D 195 MCF/D

Company El Paso Natural Gas Company
 By H. L. Kendrick
 Title Regional Well Test Engineer
 Witnessed By _____
 Company _____

