

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 66

Form C122-A
 Revised 1-1-66

POOL NAME Aztec	POOL SLOPE n = .85	FORMATION Pictured Cliff	COUNTY San Juan
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COMPANY EL PASO NATURAL GAS COMPANY			WELL NAME AND NUMBER Heaton No. 20		
UNIT LETTER G	SECTION 29	TOWNSHIP 31	RANGE 11	PURCHASING PIPELINE EL PASO NATURAL GAS COMPANY	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2570	TUBING O.D. - INCHES NONE	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2482 TO 2518		WELL PRODUCING THRU CASING X TUBING		GAS GRAVITY .669	GRAVITY X LENGTH 1660
DATE OF FLOW TEST FROM 12-20-66 TO 12-28-66			DATE SHUT-IN PRESSURE MEASURED 8-12-66		

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.) 242
(h) Corrected Meter Pressure (g + e) 242	(i) Avg. Wellhead Press. $P_t = (h + f)$ 242	(j) Shut-in Casing Pressure (DWt) 675	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k) 675	(m) Del. Pressure $P_d = \frac{80}{540} \% P_c$ 540	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 469	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 469 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.114	$(F_c Q_m)^2 (1000)$ 6776	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 772	P_t^2 58564	$P_w^2 = P_t^2 + R^2$ 59336	$P_w = \sqrt{P_w^2}$ 244
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 469	$\left[\frac{164025}{396289} \right]^n =$.4139	$\left[\frac{.4139}{.4727} \right]^n =$.4727	$=$ 222 MCF/D
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REMARKS:

New Well First Delivered 12-2-66.

SUMMARY

Item h **242** Psia
 P_c **675** Psia
 Q **469** MCF/D
 P_w **244** Psia
 P_d **540** Psia
 D **222** MCF/D

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

