

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 Cliff	COUNTY San Juan
---------------------------	-----------------------------	------------------------------------	---------------------------

COMPANY EL PASO NATURAL GAS COMPANY			WELL NAME AND NUMBER Heaton No. 21		
UNIT LETTER E	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 2532	TUBING O.D. - INCHES NONE	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2463 TO 2501		WELL PRODUCING THRU CASING X TUBING		GAS GRAVITY .666	GRAVITY X LENGTH 1640
DATE OF FLOW TEST FROM 12-20-66 TO 12-28-66			DATE SHUT-IN PRESSURE MEASURED 8-10-66		

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.) 238
(h) Corrected Meter Pressure (g + e) 238	(i) Avg. Wellhead Press. $P_t = (h + f)$ 238	(j) Shut-in Casing Pressure (DWt) 662	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k) 662	(m) Del. Pressure $P_d = \frac{80}{530} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 181	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 181 MCF/D
---	--	---	--

WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.112	$(F_c Q_m)^2 (1000)$	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ FRICITION NEGLIGIBLE	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$ USE P_t
-------------------------------	----------------------	--	---------	-----------------------	---

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{181} \left[\frac{157344}{381600} \right]^n = \underline{.4123}^n = \underline{.4711} = \underline{85} \text{ MCF/D}$$

REMARKS:

New Well First Delivered 12-2-66.

SUMMARY		
Item h	238	Psia
P_c	662	Psia
Q	181	MCF/D
P_w	238	Psia
P_d	530	Psia
D	85	MCF/D

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

