

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 1970

Form C122-A
Revised 1-1-68

POOL NAME Ballard	POOL SLOPE n = .85	FORMATION PC	COUNTY RA
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87-146

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER Canyon Largo Unit No. 156		
UNIT LETTER N	SECTION 14	TOWNSHIP 25	RANGE 7	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2755	TUBING O.D. - INCHES no tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2604 TO 2688		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .681	GRAVITY X LENGTH 1773
DATE OF FLOW TEST FROM 5-9-70 TO 5-17-70			DATE SHUT-IN PRESSURE MEASURED 3-13-70		

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) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 175
(h) Corrected Meter Pressure (g+e) 175	(i) Avg. Wellhead Press. $P_t = (h+f)$ 175	(j) Shut-in Casing Pressure (DWt) 614	(k) Shut-in Tubing Pressure (DWt) -	(l) $P =$ higher value of (j) or (k) 614	(m) Del. Pressure $P_d = \frac{80}{491} \% P$ 491	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 179	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 179 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ Friction Neg.	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$ use pt2	$P_w = \sqrt{P_w^2}$ 175
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{179}{\left[\frac{135915}{346371} \right]^n} = \frac{179}{(.3923)^n} = \frac{179}{.4514} = 81 \text{ MCF/D}$$

REMARKS:

New well, 1st del. April 10, 1970.

SUMMARY

Item h	175	Psia
P_c	614	Psia
Q	179	MCF/D
P_w	175	Psia
P_d	491	Psia
D	81	MCF/D

Company El Paso Natural Gas Company
By [Signature]
Title _____
Witnessed By _____
Company _____

