

Im-
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C122-A
Revised 1-1-68

POL NAME Ballard	POL SLOPE n = .85	FORMATION PC	COUNTY RA
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87-147

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER Canyon Largo Unit No. 157		
UNIT LETTER 0	SECTION 27	TOWNSHIP 25	RANGE 7	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2796	TUBING O.D. - INCHES no tubing.	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2713 TO 2733		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .695	GRAVITY X LENGTH 1886
DATE OF FLOW TEST FROM 5-25-70 TO 6-2-70			DATE SHUT-IN PRESSURE MEASURED 3-26-70		

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)	(f) Friction Loss (a-c) or (b-c)	(g) Average Meter Pressure (Integr.)
-	-	-	-	0	0	190
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_t = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (i) or (k)	(m) Del. Pressure $P_d = \frac{80}{354} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
190	190	442	-	442	354	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
789	1.0000	1.0000	Q = 789 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$.128	$(F_c Q_m)^2 (1000)$ 19182	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 2455	P_t^2 36100	$P_w^2 = P_t^2 + R^2$ 38555	$P_w = \sqrt{P_w^2}$ 196
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{789}{\left[\frac{70048}{156809} \right]^n \left[\frac{.4467}{.5041} \right]^n} = 398 \text{ MCF/D}$$

REMARKS:

New Well, April 28, 1970.

SUMMARY

Item h 190 Psia
P_c 442 Psia
Q 789 MCF/D
P_w 196 Psia
P_d 354 Psia
D 398 MCF/D

Company EL PASO NATURAL GAS COMPANY
By *H. E. McAnally*
Title
Witnessed By
Company

