

Initial
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C122-A
Revised 1-1-68

POOL NAME Otero	POOL SLOPE n = .75	FORMATION CH	COUNTY RA
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87-118

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER Canyon Largo Unit No. 153		
UNIT LETTER J	SECTION 12	TOWNSHIP 25	RANGE 6	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 3937	TUBING O.D. - INCHES no tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 3760 TO 3786		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .728	GRAVITY X LENGTH 2737 ✓
DATE OF FLOW TEST FROM 1-31-70 TO 2-8-70			DATE SHUT-IN PRESSURE MEASURED 12-1-69		

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	261
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. P _i = (h+f)	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P _c = higher value of (j) or (k)	(m) Del. Pressure P _d = $\frac{80}{\%P_c}$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
261 ✓	261 ✓	798	-	798	638 ✓	

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
199	1.0000	1.0000	Q = 199 ✓ MCF/D

WORKING PRESSURE CALCULATION

(1-e ⁻⁵)	(F _c Q _m) ² (1000)	R ² = (1-e ⁻⁵) (F _c Q _m) ² (1000)	P _i ²	P _w ² = P _i ² + R ²	P _w = $\sqrt{P_w^2}$
Friction Neg.				Use P _i ²	261 ✓

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{199}{\left[\frac{229760}{568633} \right]^n} = \frac{199}{(.4040)^n} = \frac{199}{.5067} = 101 \text{ MCF/D}$$

REMARKS:

New Well 1st del. 1-9-70

SUMMARY

Item h	261 ✓	Psia
P _c	798 ✓	Psia
Q	199 ✓	MCF/D
P _w	261 ✓	Psia
P _d	638 ✓	Psia
D	101 ✓	MCF/D

Company **El Paso Natural Gas Co.**
By **H. E. McNally**
Title _____
Witnessed By _____
Company _____

