

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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87-113

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER Canyon Largo Unit No. 150		
UNIT LETTER D	SECTION 3	TOWNSHIP 25	RANGE 6	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 3940	TUBING O.D. - INCHES no tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 3784 TO 3888		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .653	GRAVITY X LENGTH 2471
DATE OF FLOW TEST FROM 1-31-70 TO 2-8-70			DATE SHUT-IN PRESSURE MEASURED 11-3-69		

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) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 255
(h) Corrected Meter Pressure (g+e) 255	(i) Avg. Wellhead Press. $P_i = (h+f)$ 255	(j) Shut-in Casing Pressure (DWt) 864	(k) Shut-in Tubing Pressure (DWt) -	(l) P_c = higher value of (i) or (k) 864	(m) Del. Pressure $P_d = 80$ % P_c 691	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1159	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 1159 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.164	$(F_c Q_m)^2 (1000)$ 41391	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 6788	P_i^2 65025	$P_w^2 = P_i^2 + R^2$ 71813	$P_w = \sqrt{P_w^2}$ 268
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{1159}{\left[\frac{269015}{674683} \right]^n} = \left[\frac{.3987}{.5018} \right]^n = 582 \text{ MCF/D}$$

REMARKS:

New Well 1st del. 12-5-69.

SUMMARY

Item h	255	Psia
P_c	864	Psia
Q	1159	MCF/D
P_w	268	Psia
P_d	691	Psia
D	582	MCF/D

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

