

Info.
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 19 71

Form O-22-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE R = .75	FORMATION DK	COUNTY RA
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86-656

COMPANY El Paso Natural Gas Company		WELL NAME AND NUMBER San Juan 27-5 Unit No. 127		
UNIT LETTER L	SECTION 25	TOWNSHIP 27	RANGE 5	PURCHASING OFFICE EPNG
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.502	SET AT DEPTH - FEET 7906	TUBING O.D. - INCHES 1.900	TUBING I.D. - INCHES 1.610
GAS PAY ZONE FROM 7641 TO 7856		WELL PRODUCING THROUGH CASING XXX TUBING XXX		CP - TUBING PERCENT 7854
DATE OF FLOW TEST FROM 8-8-71 TO 8-16-71		DATE SHUT-IN PRESSURE MEASURED 6-29-71		

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.)
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(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_f = (h + f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k)	(m) Del. Pressure $P_d = 50 - P_c$	(n) Separator or Dehydrator Fr. (DWt) for critical flow only
470	470	2583	2582	2583	1292	

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
906	1.0000	1.0000	906 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$	P_i^2	$P_w^2 = F_i^2 + R^2$	$P_w = \sqrt{P_w^2}$
.316	222390	70275	220900	291175	755 54'

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_i^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 906 \left[\frac{5002625}{6380714} \right]^n = .7840 = \frac{8332}{755} \text{ MCF/D}$$

REMARKS:

New well, 1st del. 7-21-71.

SUMMARY

Item h	470	Psia
P_c	2583	Psia
Q	906	MCF/D
P_w	540	Psia
P_d	1292	Psia
D	755	MCF/D

Company **EL PASO NATURAL GAS COMPANY**
By **A. E. M. Quality**
Title
Witnessed By
Company

