

Initial
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 1970

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION DK	COUNTY RA
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87-178

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 27-5 Unit No. 118		
UNIT LETTER K	SECTION 22	TOWNSHIP 27	RANGE 5	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7822	TUBING O.D. - INCHES 1.900	TUBING I.D. - INCHES 1.610	TOP - TUBING PERF. - FEET 7745
GAS PAY ZONE FROM 7533 TO 7756		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .652	GRAVITY X LENGTH 5050
DATE OF FLOW TEST FROM 9-14-70 TO 9-22-70			DATE SHUT-IN PRESSURE MEASURED 6-26-70		

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) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 411
(h) Corrected Meter Pressure (g+e) 411	(i) Avg. Wellhead Press. $P_i = (h+f)$ 411	(j) Shut-in Casing Pressure (DWt) 2587	(k) Shut-in Tubing Pressure (DWt) 2232	(l) $P =$ higher value of (i) or (k) 2587	(m) Del. Pressure $P_d =$ % P_i 1294	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 977	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 977 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-5})$.307	$(F_c Q_m)^2 (1000)$ 258612	$R^2 = (1-e^{-5}) (F_c Q_m)^2 (1000)$ 79394	P_t^2 168921	$P_w^2 = P_t^2 + R^2$ 248315	$P_w = \sqrt{P_w^2}$ 498
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 977	$\left[\frac{5018133}{6444254} \right]^n =$.7786	$=$.8289	$=$ 810 MCF/D
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REMARKS:

New Well, 1st del. Aug. 26, 1970

SUMMARY

Item h 411 Psia
P_c 2587 Psia
Q 977 MCF/D
P_w 498 Psia
P_d 1294 Psia
D 810 MCF/D

Company EL PASO NATURAL GAS COMPANY

By *H. E. M. Anally*

Title

Witnessed By

Company

