

NEW MEXICO

COMMISSION

WELL DELIVERABILITY TEST

FOR 1970

Form C-12
Revised 1-1-68

POOL NAME	POOL BLOCK	FORMATION	COUNTY
Basin	B = 75	DK	RA

87-178

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas Company			San Juan 27-5 Unit No. 118		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
K	22	27	5	EPNG	
CASING O.D. - INCHES	CASING I.D. - INCHES	SET AT DEPTH - FEET	TUBING O.D. - INCHES	TUBING I.D. - INCHES	TDP - TUBING PERF. - FEET
4.500	4.052	7822	1.900	1.610	7745
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 7533 TO 7756		CASING TUBING XX		0.652	5050
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 9-14-70 TO 9-22-70			9-26-70		

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	411
(h) Corrected Meter Pressure (g + e)	(i) Avg. Wellhead Press. $P_w = (h + f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_w - higher value of (i) or (k)	(m) Del. Pressure $P_d = P_w - P_f$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
411	411	2587	2232	2587	1294	

FLOW RATE CORRECTION (METER ERROR)

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

WORKING PRESSURE CALCULATION

$(1 - \epsilon^2)$	$(F_c Q_m)^2 (1000)$	$\frac{P_w^2}{(1 - \epsilon^2) F_c Q_m^2 (1000)}$	P_w^2	$P_w^2 = P_c^2 + R^2$	$P_w = \sqrt{P_w^2}$
.307	258612	19394	18921	248315	498

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$	977	501813	7745	8239	810 MCF/D
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REMARKS:

New Well, 1185 Gal. Aug. 1970

SUMMARY

Item K	411	P _{sc}
P _c	2587	P _{sc}
Q	977	MCF/D
P _w	498	P _{sc}
P _d	1294	P _{sc}
D	810	MCF/D

Company: EL PASO NATURAL GAS COMPANY
 By: [Signature]
 Title: [Signature]
 Witnessed By: [Signature]
 Company: [Signature]

OCT 1 1970