

Initial Deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 1970

Form C122-A
Revised 1-1-68

POOL NAME Blanco	POOL SLOPE $n = .75$	FORMATION MV	COUNTY RA
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87-180

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 30-6 Unit No. 4-Y		
UNIT LETTER G	SECTION 35	TOWNSHIP 30	RANGE 6	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6135	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6059
GAS PAY ZONE FROM 5502 TO 6060		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .652	GRAVITY X LENGTH 3950
DATE OF FLOW TEST FROM 9-18-70 TO 9-26-70			DATE SHUT-IN PRESSURE MEASURED 8-10-70		

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.) 499
(h) Corrected Meter Pressure (g+e) 499	(i) Avg. Wellhead Press. $P_t = (h+f)$ 499	(j) Shut-in Casing Pressure (DWt) 842	(k) Shut-in Tubing Pressure (DWt) 556	(l) $P_c =$ higher value of (i) or (k) 842	(m) Del. Pressure $P_d = \frac{80}{100} P_c$ 674	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1429	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q =$ 1429 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-5})$.250	$(F_c Q_m)^2 (1000)$ 180511	$R^2 = (1-e^{-5}) (F_c Q_m)^2 (1000)$ 45128	P_t^2 249001	$P_w^2 = P_t^2 + R^2$ 294129	$P_w = \sqrt{P_w^2}$ 542
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 \cdot P_d^2}{P_c^2 \cdot P_w^2} \right]^n =$ 1429	$\left(\frac{254688}{414835} \right)^n =$.6139	$=$.6935	$=$ 991 MCF/D
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REMARKS: New Well, 1st del. August 28, 1970.

SUMMARY *OK*

Item h	499	Psia
P_c	842	Psia
Q	1429	MCF/D
P_w	542	Psia
P_d	674	Psia
D	991	MCF/D

Company EL PASO NATURAL GAS COMPANY
 By A. E. McAnally
 Title _____
 Witnessed By _____
 Company _____

