

In.
Deliverability

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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71781

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 29-7 Unit No. 89		
UNIT LETTER K	SECTION 7	TOWNSHIP 29	RANGE 7	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 5484	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 5378
GAS PAY ZONE FROM 4760 TO 5390		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .687	GRAVITY X LENGTH 3695
DATE OF FLOW TEST FROM 10-6-70 TO 10-14-70			DATE SHUT-IN PRESSURE MEASURED 8-24-70		

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.) 456
(h) Corrected Meter Pressure (g+e) 456	(i) Avg. Wellhead Press. $P_i = (h+f)$ 456	(j) Shut-in Casing Pressure (DWt) 843	(k) Shut-in Tubing Pressure (DWt) 738	(l) $P = \text{higher value of (j) or (k)}$ 843	(m) Del. Pressure $P_d = \frac{80}{\%P}$ 674	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 969	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q = \frac{969}{1.0000}$ 969 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.236	$(F_c Q_m)^2 (1000)$ 83002	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 19588	P_i^2 207936	$P_w^2 = P_i^2 + R^2$ 227524	$P_w = \sqrt{P_w^2}$ 477
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{969}{\left[\frac{256373}{483125} \right]^n} = \frac{969}{(.5306)^n} = \frac{969}{.6216} = 602$ MCF/D

REMARKS:

OWWO, 1st del., Sept. 8-1970.

SUMMARY

Item h **456** Psia
 P_c **843** Psia
 Q **969** MCF/D
 P_w **477** Psia
 P_d **674** Psia
 D **602** MCF/D

Company **EL PASO NATURAL GAS COMPANY**

By **H. E. McAnally**

Title

By

By

