

Initial
Delivery

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 77

Form C122-A
Revised 1-1-68

POOL NAME Blanco	POOL SLOPE $n = .75$	FORMATION Mesa Verde	COUNTY San Juan
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89-753

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Fields #2-A		
UNIT LETTER I	SECTION 25	TOWNSHIP 32	RANGE 11	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 5471'	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 5292'
GAS PAY ZONE FROM 5360 TO 5464		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY 0.720	GRAVITY X LENGTH 3810
DATE OF FLOW TEST FROM 11-17-77 TO 11-25-77			DATE SHUT-IN PRESSURE MEASURED 8-2-77		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 275	(b) Flowing Tubing Pressure (DWt) 275	(c) Flowing Meter Pressure (DWt) 761	(d) Flow Chart Static Reading 762	(e) Meter Error (Item c - Item d) 762	(f) Friction Loss (a-c) or (b-c) 610	(g) Average Meter Pressure (Integr.) 275
(h) Corrected Meter Pressure (g+e) 275	(i) Avg. Wellhead Press. $P_t = (h+f)$ 275	(j) Shut-in Casing Pressure (DWt) 761	(k) Shut-in Tubing Pressure (DWt) 762	(l) P_c = higher value of (j) or (k) 762	(m) Del. Pressure $P_d = 80\% P_c$ 610	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 4647	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 4647 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ 0.242	$(F_c Q_m)^2 (1000)$ 1908912	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 461957	P_t^2 75625	$P_w^2 = P_t^2 + R^2$ 537582	$P_w = \sqrt{P_w^2}$ 733
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DELIVERABILITY CALCULATION

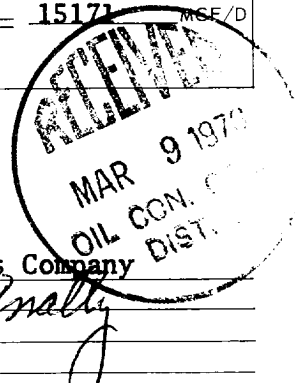
$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{4647}{\left[\frac{208544}{43062} \right]^n} = \frac{4647}{4.8429^n} = \frac{4647}{3.2646} = 15171 \text{ MCF/D}$$

REMARKS: New well first delivered 9-19-77.

SUMMARY

Item h **275** Psia
P_c **762** Psia
Q **4647** MCF/D
P_w **733** Psia
P_d **610** Psia
D **15171** MCF/D

Company **El Paso Natural Gas Company**
By **H. E. McNally**
Title **Well Test Engineer**
Witnessed By _____
Company _____



NEW MEXICO IN GENERAL STATE COMMISSION
 77

Blanco 75 Mesa Verde San Juan 80-125

El Paso Natural Gas Company
 11-17-77 11-15-77 8-2-77
 4.500 4.052 5471 2.275 1.905 2202
 1.300 5464
 0.720 3810
 El Paso Natural Gas Co.

275 275 275 275 275 275
 80 610 702 762 761 762

4647 1.0000 1.0000 4647
 0.343 100812 461927 75625 537582 735
 4647 208544 43062 4.8420 2.2646 15171

New well first delivered 9-12-77.

El Paso Natural Gas Company
 Well Test Engineer

275
 262
 4647
 735
 610
 15171