

Initial
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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70-358

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER San Juan 30-6 Unit No. 50		
UNIT LETTER M	SECTION 22	TOWNSHIP 30	RANGE 6	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6085	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP TUBING PERF. - FEET 5976
GAS PAY ZONE FROM 5244 TO 5562		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .637	GRAVITY X LENGTH 3807 ✓
DATE OF FLOW TEST FROM 10-4-70 TO 10-12-70			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)	(f) Friction Loss (a-c) or (b-c)	(g) Average Meter Pressure (Integr.)
-	-	-	-	0	0	483
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. P _i = (h+f)	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P _c = higher value of (i) or (k)	(m) Del. Pressure P _d = $\frac{80}{\%P_c}$	(n) Separator or Dehydrator P _r (DWt) for critical flow only
483	483 ✓	707	704	707 ✓	566 ✓	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
1232	1.0000	1.0000	Q = 1232 MCF/D ✓

WORKING PRESSURE CALCULATION

$(1-e^{-s})$ ✓	$(F_c Q_m)^2 (1000)$ ✓	$R^2 = (1-e^{-s}) \cdot (F_c Q_m)^2 (1000)$ ✓	P_i^2 ✓	$P_w^2 = P_i^2 + R^2$ ✓	$P_w = \sqrt{P_w^2}$ ✓
.242	134172	32470	233289	265759	516

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 1232 \left[\frac{179493}{234090} \right]^n = (.7667)^n = .8194 = 1010 \text{ MCF/D} \checkmark$$

REMARKS:

OWWO, 1st del, Sept. 5, 1970.

SUMMARY

Item h 483 ✓ Psia
P_c 707 ✓ Psia
Q 1232 ✓ MCF/D
P_w 516 ✓ Psia
P_d 566 ✓ Psia
D 1010 ✓ MCF/D

Company EL PASO NATURAL GAS COMPANY

By *A. E. McStenally*
Title

Witnessed By

Company



