

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 1971

Form C122-1
Revised 1-1-68

WELL NAME Blanco	POOL SLOPE n = .75	FORMATION MV	COUNTY SJ
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70-346

COMPANY El Paso Natural Gas Company				WELL NAME AND NUMBER Hardie No. 3	
UNIT LETTER A	SECTION 25	TOWNSHIP 29	RANGE 8	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.502	SET AT DEPTH - FEET 5829	PIPELINE O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING FEET 5770
GAS PAY ZONE FROM 5560 TO 5785		WELL PRODUCTION TEST CASING TUBING XXX		GAS GRAVITY .706	GRAVITY X LENGTH 4074
DATE OF FLOW TEST FROM 8-6-71 TO 8-14-71			DATE SHUT-IN PRESSURE MEASURED 6-10-71		

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.) 410
(h) Corrected Meter Pressure (g+e) 410	(i) Avg. Wellhead Press. $P_i = (h+f)$ 410	(j) Shut-in Casing Pressure (DWt) 829	(k) Shut-in Tubing Pressure (DWt) 824	(l) P_c = higher value of (j) or (k) 829	(m) Del. Pressure $P_d = 80\% P_c$ 663	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 912	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q =$ 912 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.256	$(F_c Q_m)^2 (1000)$ 73524	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 18822	P_i^2 168100	$P_w^2 = P_i^2 + R^2$ 186922	$P_w = \sqrt{P_w^2}$ 432
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{912} \left[\frac{247672}{500319} \right]^n = \underline{.4950} = \underline{.5901} = \underline{538} \text{ MCF/D}$$

REMARKS:

OWWO, Re-1st-del. 7-14-71.

SUMMARY

Item h **410** Psia
 P_c **829** Psia
 Q **912** MCF/D
 P_w **432** Psia
 P_d **663** Psia
 D **538** MCF/D

Company **EL PASO NATURAL GAS COMPANY**
 By **H. E. Mc...**
 Title _____
 Witnessed By _____
 Company _____

SEP 8 1971

**OIL CON. COM.
DIST. 3**