

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 1971

Form C122-A
 Revised 1-1-65

WELL NAME SOUTH BLANCO	WELL SLOPE n = .85	FORMATION PC	COUNTY SAN JUAN
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87-325

COMPANY EL PASO NATURAL GAS COMPANY			WELL NAME AND NUMBER HOWELL NO; 9		
UNIT LETTER P	SECTION 27	TOWNSHIP 28	RANGE 8	PURCHASING PIPELINE EL PASO NATURAL GAS CO;	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2720	TUBING O.D. - INCHES No Tbg.	TUBING I.D. - INCHES	TOP TUBING PERF. - FEET
GAS PAY ZONE FROM 2560 TO 2582			WELL PRODUCING THRU CASING XX		GAS GRAVITY .625
DATE OF FLOW TEST FROM 12-8-71 TO 12-16-71			DATE SHUT-IN PRESSURE MEASURED 8-23-71		

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.) 282
(h) Corrected Meter Pressure (g+e) 282	(i) Avg. Wellhead Press. $P_i = (h+f)$ 282	(j) Shut-in Casing Pressure (DWt) 936	(k) Shut-in Tubing Pressure (DWt) --	(l) P_c = higher value of (j) or (k) 936	(m) Del. Pressure $P_d = \frac{80}{749} P_c$ 749	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 216	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 216 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-5})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-5}) (F_c Q_m)^2 (1000)$	P_i^2	$P_w^2 = P_i^2 + R^2$ Use P_t^2	$P_w = \sqrt{P_w^2}$ 282
FRICITION NEGLIGIBLE					

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{F_c^2 + P_d^2}{P_c^2 - F_c^2} \right]^n = 216 \left[\frac{315095}{796572} \right]^n = \left(0.3956 \right)^n = 0.4547 = 98 \text{ MCF/D}$$

REMARKS:

New Well 1st Del. 11-19-71

SUMMARY

Item h	282	Psia
P_c	936	Psia
Q	216	MCF/D
P_w	282	Psia
P_d	749	Psia
D	98	MCF/D

Company **EL PASO NATURAL GAS COMPANY**

By *H. E. McQuinn*

Title

Witnessed By

Company

