

POOL NAME Blanco	POOL SLOPE n = .75	FORMATION Mesa Verde	COUNTY Rio Arriba
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70-359

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 30-6 Unit No. 51		
UNIT LETTER B	SECTION 30	TOWNSHIP 30	RANGE 6	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 5879	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 5641
GAS PAY ZONE FROM 5056 TO 5638		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .645	GRAVITY X LENGTH 3638
DATE OF FLOW TEST FROM 9-17-70 TO 9-25-70			DATE SHUT-IN PRESSURE MEASURED 8-10-70		

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.) 404
(h) Corrected Meter Pressure (g+e) 404	(i) Avg. Wellhead Press. $P_t = (h+f)$ 404	(j) Shut-in Casing Pressure (DWt) 797	(k) Shut-in Tubing Pressure (DWt) 695	(l) $P_w =$ higher value of (i) or (k) 797	(m) Del. Pressure $P_d = \frac{80}{638} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 980	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 980 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ 0.232	$(F_c Q_m)^2 (1000)$ 84897	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 19696	P_t^2 163216	$P_w^2 = P_t^2 + R^2$ 182912	$P_w = \sqrt{P_w^2}$ 428
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	980	$\left(\frac{228165}{452297} \right)^n =$	$(0.5044)^n =$	0.5986	$= 587$ MCF/D
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REMARKS: First delivered after OWWO on August 21, 1970.

SUMMARY

Item h 404 Psia
 P_c 797 Psia
 Q 980 MCF/D
 P_w 428 Psia
 P_d 638 Psia
 D 587 MCF/D

Company EL PASO NATURAL GAS COMPANYBy H. E. McDaniel

Title

Witnessed By

Company



