

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 68

Form C122-A
 Revised 1-1-68

POOL NAME Blanco	POOL SLOPE n = .75	FORMATION Mesaverde	COUNTY Rio Arriba
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COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 29-6 Unit No. 36		
UNIT LETTER H	SECTION 15	TOWNSHIP 29	RANGE 6	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 6028	TUBING O.D. - INCHES No Tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 5502 TO 5956		WELL PRODUCING THRU CASING X TUBING		GAS GRAVITY .677	GRAVITY X LENGTH 3725
DATE OF FLOW TEST FROM 11-6-68 TO 11-14-68			DATE SHUT-IN PRESSURE MEASURED 4-19-68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 449	(b) Flowing Tubing Pressure (DWt) 449	(c) Flowing Meter Pressure (DWt) 788	(d) Flow Chart Static Reading ---	(e) Meter Error (Item c - Item d) 788	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 449
(h) Corrected Meter Pressure (g+e) 449	(i) Avg. Wellhead Press. $P_t = (h+f)$ 449	(j) Shut-in Casing Pressure (DWt) 788	(k) Shut-in Tubing Pressure (DWt) ---	(l) P_c = higher value of (j) or (k) 788	(m) Del. Pressure $P_d = \frac{80}{630} P_c$ 80	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 439	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 439 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-5})$.237	$(F_c Q_m)^2 (1000)$ 5938	$R^2 = (1-e^{-5}) (F_c Q_m)^2 (1000)$ 1407	P_t^2 201601	$P_w^2 = P_t^2 + R^2$ 203008	$P_w = \sqrt{P_w^2}$ 451
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$	439	$\left[\frac{224044}{417936} \right]^n$	$= \left[\frac{.5360}{.6263} \right]^n$	$= .6263$	275 MCF/D
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REMARKS: Installed 1 1/4" Tubing. Turned back on production 10-7-68.

SUMMARY

Item h **449** Psia
 P_c **788** Psia
 Q **439** MCF/D
 P_w **451** Psia
 P_d **630** Psia
 D **275** MCF/D

Company **El Paso Natural Gas Company**
 Title **Regional Well Test Engineer**
 Witnessed By **H. L. Kendrick**
 Company

