

NEW MEXICO OIL & GAS COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
 Revised 1-1-68

POOL NAME South Blanco	POOL SLOPE n = .85	FORMATION Pictured Cliffs	COUNTY San Juan
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75-929

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER Howell No. 6		
UNIT LETTER G	SECTION 26	TOWNSHIP 28	RANGE 8	PURCHASING PIPELINE El Paso Natural Gas	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2474	TUBING O.D. - INCHES No tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2364 TO 2380		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .628	GRAVITY X LENGTH 1485
DATE OF FLOW TEST FROM 1-17-69 TO 1-25-69			DATE SHUT-IN PRESSURE MEASURED 10-09-68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 476	(b) Flowing Tubing Pressure (DWt) 476	(c) Flowing Meter Pressure (DWt) 1061	(d) Flow Chart Static Reading 1061	(e) Meter Error (Item c - Item d) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 476
(h) Corrected Meter Pressure (g+e) 476	(i) Avg. Wellhead Press. $P_i = (h+f)$ 476	(j) Shut-in Casing Pressure (DWt) 1061	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k) 1061	(m) Del. Pressure $P_d = 80\% P_c$ 849	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 402	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q =$ 402 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.102	$(F_c Q_m)^2 (1000)$ 4982	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 508	P_i^2 226576	$P_w^2 = P_i^2 + R^2$ 227084	$P_w = \sqrt{P_w^2}$ 477
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 402	$\left(\frac{404920}{898637} \right)^n =$.4505	$\frac{5c78}{.5080} =$ 204 MCF/D
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REMARKS:
 New well first delivered 12-20-68

SUMMARY

Item h	476	Psia
P_c	1061	Psia
Q	402	MCF/D
P_w	477	Psia
P_d	849	Psia
D	204	MCF/D

Company **EL PASO NATURAL GAS COMPANY**
 Title **H. L. Kendrick**
 Regional Well Test Engineer

Witnessed By _____

Company _____

