

Deliver.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-68

POOL NAME Blanco	POOL SLOPE n = .85	FORMATION Pictured Cliffs	COUNTY San Juan
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75-943

COMPANY El Paso Natural Gas		WELL NAME AND NUMBER Howell No. 8			
UNIT LETTER B	SECTION 35	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 2817	TUBING O.D. - INCHES No tubing	TUBING I.D. - INCHES	TOP - TUEING PERF. - FEET
GAS PAY ZONE FROM 2648 TO 2685		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .635	GRAVITY LENGTH 1681
DATE OF FLOW TEST FROM 2-9-69 TO 2-17-69			DATE SHUT-IN PRESSURE MEASURED 11-13-68		

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)	(f) Friction Loss (a-c) or (b-c)	(g) Average Meter Pressure (Integr.)
				0	0	469
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_f = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) $P_w =$ higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{80}{823} P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
469	469	1029	--	1029		

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 352	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 352 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ Friction Neg.	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$ Use P_{t2}	$P_w = \sqrt{P_w^2}$ 469
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	$\frac{352}{\left(\frac{381512}{838880} \right)^n} = \left(0.4547 \right)^n =$	$\frac{0.5118}{180} \text{ MCF/D}$
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REMARKS:

New well first delivered 1-13-69

SUMMARY

Item h	469	Psia
P_c	1029	Psia
Q	352	MCF/D
P_w	469	Psia
P_d	823	Psia
D	180	MCF/D

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

