

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 1967

Form C122-A
Revised 1-1-66

POOL NAME Blanco	POOL SLOPE n = .75	FORMATION Mesa Verde	COUNTY San Juan
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70329

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Howell M No. 1		
UNIT LETTER M	SECTION 30	TOWNSHIP 30	RANGE 8	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 4819	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 4705
GAS PAY ZONE FROM 4150 TO 4788		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .663	GRAVITY X LENGTH 3119
DATE OF FLOW TEST FROM 10-21-67 TO 10-29-67			DATE SHUT-IN PRESSURE MEASURED 9-11-67		

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.) 490
(h) Corrected Meter Pressure (g + e) 490	(i) Avg. Wellhead Press. $P_t = (h + f)$ 490	(j) Shut-in Casing Pressure (DWt) 930	(k) Shut-in Tubing Pressure (DWt) 929	(l) P_c = higher value of (j) or (k) 930	(m) Del. Pressure $P_d = \frac{80}{744} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 883	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 883 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.203	$(F_c Q_m)^2 (1000)$ 68923	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 13991	P_t^2 240100	$P_w^2 = P_t^2 + R^2$ 254091	$P_w = \sqrt{P_w^2}$ 504
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	883	$\left[\frac{311364}{610809} \right]^n =$	.5097	$=$	.6035	$=$	533 MCF/D
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REMARKS:

First Delivered after OWWO 10-3-67.

SUMMARY

Item h	490	Psia
P_c	930	Psia
Q	883	MCF/D
P_w	504	Psia
P_d	744	Psia
D	533	MCF/D

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



