

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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COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Huerfanito Unit No. 98 (MV)		
UNIT LETTER G	SECTION 35	TOWNSHIP 27	RANGE 9	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 5.500	CASING I.D. - INCHES 4.950	SET AT DEPTH - FEET 6885	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 4469
GAS PAY ZONE FROM 4515 TO 4588		WELL PRODUCING THRU CASING X TUBING		GAS GRAVITY .670	GRAVITY X LENGTH 2994
DATE OF FLOW TEST FROM 4-25-67 TO 5-3-67			DATE SHUT-IN PRESSURE MEASURED 2-24-67		

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.) 476
(h) Corrected Meter Pressure (g + e) 476	(i) Avg. Wellhead Press. $P_t = (h + f)$ 476	(j) Shut-in Casing Pressure (DWt) 1002	(k) Shut-in Tubing Pressure (DWt) 1008	(l) P_c = higher value of (j) or (k) 1008	(m) Del. Pressure $P_d = \frac{80}{806} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 903	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 903 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
FRICTION NEGLIGIBLE				USE P_t	

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 903 \left[\frac{366428}{789488} \right]^n = .4641^n = .5622^3 = 508$ MCF/D

REMARKS:

New Well First Delivered 4-4-67.

SUMMARY

Item h 476 Psia
P_c 1008 Psia
Q 903 MCF/D
P_w 476 Psia
P_d 806 Psia
D 508 MCF/D

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



