

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 1968

POOL NAME Blanco		POOL SLOPE n= .75	FORMATION Mesa Verde		COUNTY San Juan
70216					
COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Day A No. 5		
UNIT LETTER A	SECTION 18	TOWNSHIP 29	RANGE 8	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.000	SET AT DEPTH - FEET 5453	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 5320
GAS PAY ZONE FROM 4661 TO 5364		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .699	GRAVITY X LENGTH 3719
DATE OF FLOW TEST FROM 12-15-67 TO 12-23-67			DATE SHUT-IN PRESSURE MEASURED 11-14-67		

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.) 504
(h) Corrected Meter Pressure (g + e) 504	(i) Avg. Wellhead Press. $P_t = (h + f)$ 504	(j) Shut-in Casing Pressure (DWt) 816	(k) Shut-in Tubing Pressure (DWt) 732	(l) P_c = higher value of (j) or (k) 816	(m) Del. Pressure $P_d = \frac{80}{653} \% P_c$ 653	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1505	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 1505 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.237	$(F_c Q_m)^2 (1000)$ 200223	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 47453	P_t^2 254016	$P_w^2 = P_t^2 + R^2$ 301469	$P_w = \sqrt{P_w^2}$ 549
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{1505}{\left[\frac{239447}{364387} \right]^n \left(.6571 \right)^n} = \frac{.7298}{.7298} = 1098 \text{ MCF/D}$$

REMARKS:

OWWO. First Delivered After Workover 11-29-67.

SUMMARY

Item h 504 Psia
 P_c 816 Psia
 Q 1505 MCF/D
 P_w 549 Psia
 P_d 653 Psia
 D 1098 MCF/D

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

