

Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 1971

Form C122-A
Revised 1-1-63

POOL NAME Aztec	POOL SLOPE n = .85	FORMATION PC	COUNTY San Juan
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COMPANY El Paso Natural Gas Company		WELL NAME AND NUMBER Nye No. 5			
UNIT LETTER M	SECTION 9	TOWNSHIP 29	RANGE 10	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2285	TUBING O.D. - INCHES No Tubing	TUBING I.D. - INCHES	TOP - TUBING DEPTH - FEET
GAS PAY ZONE FROM 2180 TO 2200		WELL PRODUCING TUBING CASING XX TUBING		GAS GRAVITY .650	GRAVITY X LENGTH 1417
DATE OF FLOW TEST FROM 9-23-71 TO 10-1-71					
DATE SHUT-IN PRESSURE MEASURED 7-8-71					

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	171
(h) Corrected Meter Pressure (g+c)	(i) Avg. Wellhead Press. $P_i = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{80}{466} P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
171	171	582	-	582	80	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
217	1.0000	1.0000	Q = 217 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$	P_i^2	$P_w^2 = P_i^2 + R^2$	$P_w = \sqrt{P_w^2}$
Friction Neg.				Use P_{t2}	171

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 217 \left[\frac{121568}{309483} \right]^n = (0.3928)^n = 0.4519 = 98 \text{ MCF/D}$

REMARKS: New Well 1st Del. 9-10-71

SUMMARY

Item h 171 Psia
P_c 582 Psia
Q 217 MCF/D
P_w 171 Psia
P_d 466 Psia
D 98 MCF/D

Company EL PASO NATURAL GAS COMPANY

By H. E. McNally

Title

Witnessed By

Company

