

Initial Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 1969

Form C122-A
Revised 1-1-68

POOL NAME Blanco		POOL SLOPE n = .85	FORMATION PC	COUNTY San Juan	
COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER 87-026 Riddle A No. 8		
UNIT LETTER D	SECTION 24	TOWNSHIP 30	RANGE 9	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2588	TUBING O.D. - INCHES no tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2508 TO 2544		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .658	GRAVITY X LENGTH 1650
DATE OF FLOW TEST FROM 8-9-69 TO 8-17-69			DATE SHUT-IN PRESSURE MEASURED 6-30-69		

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) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 216 228
(h) Corrected Meter Pressure (g+e) 228	(i) Avg. Wellhead Press. $P_f = (h+f)$ 228	(j) Shut-in Casing Pressure (DWt) 821	(k) Shut-in Tubing Pressure (DWt) --	(l) P_c = higher value of (j) or (k) 821	(m) Del. Pressure $P_d = 80\% P_c$ 657	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 473	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q = 473$ MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.113	$(F_c Q_m)^2 (1000)$ 6894	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 779	P_t^2 51984	$P_w^2 = P_t^2 + R^2$ 52763	$P_w = \sqrt{P_w^2}$ 230
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{473}{\left[\frac{242392}{621278} \right]^n} = \frac{0.3902}{0.4494} = 213 \text{ MCF/D}$$

REMARKS:

New Well first delivery July 14, 1969

SUMMARY

Item h 228 Psia
P_c 821 Psia
Q 473 MCF/D
P_w 230 Psia
P_d 657 Psia
D 213 MCF/D

Company El Paso Natural Gas Company
By P. E. Shaffer
Title
Witnessed By
Company

