

Initial
Deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-68

POOL NAME So. Blanco	POOL SLOPE n = .85	FORMATION Pictured Cliffs	COUNTY San Juan
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87-004

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Riddle "F" No. 7		
UNIT LETTER P	SECTION 29	TOWNSHIP 28	RANGE 8	PURCHASING PIPELINE El Paso Natural Gas	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2372	TUBING O.D. - INCHES No tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2252 TO 2290		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .658	GRAVITY X LENGTH 1482
DATE OF FLOW TEST FROM 7-1-69 TO 7-9-69			DATE SHUT-IN PRESSURE MEASURED 4-30-69		

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)	(f) Friction Loss (a-c) or (b-c)	(g) Average Meter Pressure (Integr.)
				0	0	186
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_f = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{80}{659} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
186	186	824	-	824		

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 185	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 185 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ Friction Neg.	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$	P_i^2	$P_w^2 = P_i^2 + R^2$ Use P_t^2	$P_w = \sqrt{P_w^2}$ 186
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 185$	$\left[\frac{244695}{644380} \right]^n = 0.3797$	$\left[\frac{0.3797}{0.4391} \right]^n = 81$	MCF/D
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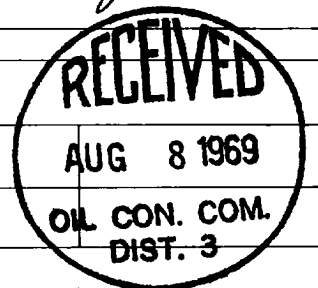
REMARKS: New well 1st. del. June 9, 1969

SUMMARY

Item h 186 Psia
P_c 824 Psia
Q 185 MCF/D
P_w 186 Psia
P_d 659 Psia
D 81 MCF/D

Company EL PASO NATURAL GAS COMPANY
By H. E. McAnally
Title Well Test Engineer

Witnessed By
Company



ALBANY, N. Y.

1882

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