NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-68

POOL NAME	POOL SLOPE	FORMATION	COUNTY
Blanco	n = .85	PC	San Juan

87-028

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas Company			Riddle A No. 9		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
M	24	30	9	EPNG	
CASING O.D. – INCHES	CASING I.D. – INCHES	SET AT DEPTH – FEET	TUBING O.D. – INCHES	TUBING I.D. – INCHES	TOP – TUBING PERF. – FEET
2.875	2.441	2557	no tubing		
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 2484 TO 2504		CASING xx TUBING		.679	1687
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 9-10-69 TO 9-18-69			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)	(f) Friction Loss (a–c) or (b–c)	(g) Average Meter Pressure (Integr.)
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(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. P_t= (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	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
456	456	901	--	901	P_d= 80 = 721 $\%P_c$	

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
261	1.0000	1.0000	Q = 261 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_t^2	$P_w^2=P_t^2+R^2$	$P_w=\sqrt{P_w^2}$
Friction Neg.				use Pt^2	456

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 261 \left[\frac{291,960}{603,865}\right]^n = (0.4834)^n = 0.5391 = 141 \text{ MCF/D}$$

REMARKS: New well 1st delivery July 17, 1969.

SUMMARY

Item h	456	Psia
P_c	901	Psia
Q	261	MCF/D
P_w	456	Psia
P_d	721	Psia
D	141	MCF/D

Company El Paso Natural Gas Co.
By [signature]
Title
Witnessed By
Company

RECEIVED
OCT 1 1969
OIL CON. COM.
DIST.