

Initial
Deliverability Test

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

Form C122-A
Revised 1-1-62

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

87-030

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas Company			Quigley No. 2		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
K	6	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	3290	no tubing		
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 3230	TO 3246	CASING 300	TUBING	.658	2125
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 8-13-69 TO 8-21-69			6-27-69		

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	232
(h) Corrected Meter Pressure (g+e)	(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 $P_d = \frac{80}{74.1} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
232	232	926	--	926		

FLOW RATE CORRECTION (METER ERROR)

10309
8

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
1364	1.0000	1.0000	Q = 1364 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	$P_w^2 = P_i^2 + R^2$	$P_w = \sqrt{P_w^2}$
.143	57328	8198	79524	87722	296

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	$\left[\frac{308395}{769754} \right]^n =$	$\left[\frac{0.4006}{0.4593} \right]^n =$	0.4593	$= 627$ MCF/D
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REMARKS:

New Well first delivery July 14, 1969

SUMMARY

Item h 232 Psia
P_c 926 Psia
Q 1364 MCF/D
P_w 296 Psia
P_d 741 Psia
D 627 MCF/D

Company El Paso Natural Gas Company

By R. E. Stauffer

Title

Witnessed By

Company

