Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 71

Form C122-A
Revised 10-1-58

POOL NAME	POOL SLOPE	FORMATION	COUNTY
Basin	n = .75	DK	RA

86-633

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas Company			San Juan 29-6 Unit No. 102		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
G	10	29	6	EPNG	
CASING O.D. - INCHES	CASING I.D. - INCHES	PERFORATED AT - FEET	TUBING O.D. - INCHES	TUBING I.D. - INCHES	TOP TUBING PERF. - FEET
4.500	4.052	7865	1.900	1.610	7777
GAS PAY ZONE		WELL PRODUCING THRU	GAS GRAVITY	GRAVITY FLOWING	
FROM 7682 TO 7787		CASING TUBING XXX	.604	.697	
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 7-18-71 TO 7-26-71			4-30-71		

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	395
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. P_t= (b-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= 50 %P_c	(n) Separator or Dehydrator Pr. Dwt for critical flow only
395	395	2779	2744	2779	1390	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item e}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
388	1.0000	1.0000	Q = 388 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	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.289	40787	11787	156025	167812	410

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 388 \left[\left(\frac{5790741}{7555029}\right) = \left(.7664\right)^n = .8191\right] = 318 \text{ MCF/D}$$

REMARKS:

Well first delivered June 23, 1971.

SUMMARY

Item h	395	Psia
P_c	2779	Psia
Q	388	MCF/D
P_w	410	Psia
P_d	1390	Psia
D	318	MCF/D

Company EL PASO NATURAL GAS COMPANY
By J. E. McAnally
Title
Witnessed By
Company

RECEIVED
AUG 10 1971
OIL CON. COM.
DIST. 3