

Initial Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 71

Form C122-A
Revised 1-1-69

POOL NAME

POOL SLOPE

FORMATION

COUNTY

Blanco

n = .85

PC *Ext*

San Juan

COMPANY

WELL NAME AND NUMBER

El Paso Natural Gas Company

Atlantic "A" No. 11

UNIT LETTER

SECTION

TOWNSHIP

RANGE

PURCHASING PIPELINE

E

29

31

10

El Paso Natural Gas Co.

CASING O.D. - INCHES

CASING I.D. - INCHES

SET AT DEPTH - FEET

TUBING O.D. - INCHES

TUBING I.D. - INCHES

TOP TUBING DEPTH - FEET

2.875

2.441

2778

No Tubing

CASE PAY ZONE

WELL PRODUCING THRU

GAS GRAVITY

GRAVITY X LENGTH

FROM 2630 TO 2660

CASING XX TUBING

.638

1678

DATE OF FLOW TEST

DATE SHUT-IN PRESSURE MEASURED

FROM 9-17-71 TO 9-25-71

4-26-71

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	181
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. P _w = (h+f)	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P _s = higher value of (j) or (k)	(m) Del. Pressure P _d = 80 % P _s	(n) Separator or Dehydrator Pr. (Dwt) for critical flow only
181	181	963	-	963	770	

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
2.81	1.0000	1.0000	q = 281 MCF/D

WORKING PRESSURE CALCULATION

(1-e ⁻³)	(F _c Q _m) ² (1000)	R ² = (1-e ⁻³) (F _c Q _m) ² (1000)	P _i ²	P _w ² = P _i ² + R ²	P _w = $\sqrt{P_w^2}$
0.115	2433	280	32761	33041	182

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{281}{\left[\frac{334469}{894328} \right]^n} = \frac{0.3740}{0.4335} = 122 \text{ MCF/D}$

REMARKS: New Well 1st Del. 8-30-71

SUMMARY

Item h

281

Psia

P_c

963

Psia

Q

281

MCF/D

P_w

182

Psia

P_d

770

Psia

D

122

MCF/D

Company

EL PASO NATURAL GAS COMPANY

By

H. E. McAnally

Title

Witnessed By

Company

RECEIVED

OCT 7 1971

OIL CON. COMM.

DIST. 3