

Initial
Deliverability Test

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

Form CI22-A
Revised 1-1-68

POOL NAME So. Blanco	POOL SLOPE n = .85	FORMATION Pictured Cliffs	COUNTY San Juan
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75-996

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Dryden No. 5		
UNIT LETTER I	SECTION 28	TOWNSHIP 28	RANGE 8	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2342	TUBING O.D. - INCHES No tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2224 TO 2248		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .658	GRAVITY X LENGTH 1463
DATE OF FLOW TEST FROM 6-25-69 TO 7-03-69			DATE SHUT-IN PRESSURE MEASURED 4-24-69		

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	480
(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_s higher value of (i) or (k)	(m) Del. Pressure $P_d = \frac{80}{832} \times P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
480	480	1040	-	1040		

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
291	1.0000	1.0000	Q = 291 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	$P_w^2 = P_i^2 + R^2$	$P_w = \sqrt{P_w^2}$
Friction Neg.				Use P_{t2}	480

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 291 \left[\frac{389376}{851200} \right]^n = (0.4574)^n = 0.5144 = 150 \text{ MCF/D}$$

REMARKS: New well 1st. del. June 6, 1969

SUMMARY

Item h	480	Psia
P _c	1040	Psia
Q	291	MCF/D
P _w	480	Psia
P _d	832	Psia
D	150	MCF/D

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



