

Deliver

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 1970

Form C122-A
Revised 1-1-68

POOL NAME Blanco	POOL SLOPE n = .75	FORMATION MV	COUNTY RA
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COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER San Juan 30-6 Unit No. 5		
UNIT LETTER N	SECTION 35	TOWNSHIP 30	RANGE 6	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6204	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6092
GAS PAY ZONE FROM 5358 TO 6084		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .654	GRAVITY X LENGTH 3984 ✓
DATE OF FLOW TEST FROM 10-12-70 TO 10-20-70			DATE SHUT-IN PRESSURE MEASURED 9-2-70		

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	483
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_f = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (i) or (k)	(m) Del. Pressure $P_d = \frac{80}{100} P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
483 ✓	483 ✓	708	708	708 ✓	566 ✓	

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
1147	1.0000	1.0000	Q = 1147 ✓ 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	$P_w^2 = P_i^2 + R^2$	$P_w = \sqrt{P_w^2}$
.251 ✓	116297 ✓	29190 ✓	233289 ✓	262479 ✓	512 ✓

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{1147}{\left(\frac{180908}{238785} \right)^n} = \frac{1147}{(.7576)^n} = \frac{1147}{.8121} = 931 \text{ MCF/D}$$

REMARKS:

OWWO, 1st del. Sept. 18, 1970.

SUMMARY

Item h 483 Psia
 P_c 708 Psia
 Q 1147 MCF/D
 P_w 512 Psia
 P_d 566 Psia
 D 931 MCF/D

Company EL PASO NATURAL GAS COMPANY
 By D. E. M. Analyst
 Title _____
 Witnessed By _____
 Company _____

