

Int.
deliverability

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY Rio Arriba
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87-171

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 28-6 Unit No. 151		
UNIT LETTER G	SECTION 34	TOWNSHIP 28	RANGE 6	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7861	TUBING O.D. - INCHES 1.900	TUBING I.D. - INCHES 1.610	TOP - TUBING PERF. - FEET 7775
GAS PAY ZONE FROM 7609 TO 7808		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .678	GRAVITY X LENGTH 5271
DATE OF FLOW TEST FROM 9-15-70 TO 9-23-70			DATE SHUT-IN PRESSURE MEASURED 5-20-70		

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) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 428
(h) Corrected Meter Pressure (g+e) 428	(i) Avg. Wellhead Press. $P_i = (h+f)$ 428	(j) Shut-in Casing Pressure (DWt) 2626	(k) Shut-in Tubing Pressure (DWt) 2377	(l) P_e = higher value of (i) or (k) 2626	(m) Del. Pressure $P_d = 50$ 1313	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 806	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 806 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ 0.318	$(F_c Q_m)^2 (1000)$ 176007	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 55970	P_i^2 183184	$P_w^2 = P_i^2 + R^2$ 239154	$P_w = \sqrt{P_w^2}$ 489
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 806 \left[\frac{5171907}{6656722} \right]^n = (.7769)^n = 0.8275 = 667 \text{ MCF/D}$$

REMARKS: First delivered after OWWO on August 18, 1970.

SUMMARY

Item h 428 Psia
P_c 2626 Psia
Q 806 MCF/D
P_w 489 Psia
P_d 1313 Psia
D 667 MCF/D

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



