

Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C122-A
Revised 1-1-68

POOL NAME Blanco	POOL SLOPE n = .75	FORMATION MV	COUNTY
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86417

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 29-5 Unit No. 49		
UNIT LETTER M	SECTION 9	TOWNSHIP 29	RANGE 5	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 6058	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 5923
GAS PAY ZONE FROM 5827 TO 5906		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .626	GRAVITY X LENGTH 3708
DATE OF FLOW TEST FROM 10-2-70 TO 10-10-70			DATE SHUT-IN PRESSURE MEASURED 5-26-70		

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.) 483
(h) Corrected Meter Pressure (g+e) 483	(i) Avg. Wellhead Press. $P_t = (h+f)$ 483	(j) Shut-in Casing Pressure (DWt) 800	(k) Shut-in Tubing Pressure (DWt) -	(l) P_c = higher value of (j) or (k) 800	(m) Del. Pressure $P_d = \frac{80}{640} \% P_c$ 640	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 580	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 580 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-5})$.236	$(F_c Q_m)^2 (1000)$ 203907	$R^2 = (1-e^{-5}) (F_c Q_m)^2 (1000)$ 48122	P_t^2 233289	$P_w^2 = P_t^2 + R^2$ 281411	$P_w = \sqrt{P_w^2}$ 530
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 580	$\left(\frac{230400}{358589} \right)^n =$.6425	$\left(\frac{230400}{358589} \right)^n =$.7177	$=$ 416 MCF/D
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REMARKS:

Ran tubing 9-2-70

SUMMARY

Item h **483** Psia
 P_c **800** Psia
 Q **580** MCF/D
 P_w **530** Psia
 P_d **640** Psia
 D **416** MCF/D

Company **EL PASO NATURAL GAS COMPANY**

By **H. E. McNally**

Title

Witnessed By

