

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 68

Form C122-A
Revised 1-1-68

POOL NAME BLANCO	POOL SLOPE n = .75	FORMATION MV	COUNTY SJ
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70-071

COMPANY EL PASO NATURAL GAS CO			WELL NAME AND NUMBER ROELOFS A #1		
UNIT LETTER L	SECTION 10	TOWNSHIP 29	RANGE 3	PURCHASING PIPELINE EL PASO NATURAL GAS CO.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 5439	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 5240
GAS PAY ZONE FROM 4682 TO 5374		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 0.693	GRAVITY X LENGTH 3658
DATE OF FLOW TEST FROM 07/11/68 TO 07/19/68			DATE SHUT-IN PRESSURE MEASURED 05/20/68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 0	(b) Flowing Tubing Pressure (DWt) 0	(c) Flowing Meter Pressure (DWt) 0	(d) Flow Chart Static Reading 0	(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. $P_f = (h+f)$ 483	(j) Shut-in Casing Pressure (DWt) 827	(k) Shut-in Tubing Pressure (DWt) 827	(l) P_c = higher value of (j) or (k) 827	(m) Del. Pressure $P_d = 30$ % P_c 662	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1045	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 1045 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.234	$(F_c Q_m)^2 (1000)$ 96,531	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 22588	P_t^2 233289	$P_w^2 = P_t^2 + R^2$ 255877	$P_w = \sqrt{P_w^2}$ 506
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$	1045	$\left[\frac{245685}{428052} \right]^n$	0.5739	0.6594	689 MCF/D
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REMARKS: FIRST DELIVERED AFTER OWWO 6-14-68.

SUMMARY

Item h **483** Psia
 P_c **827** Psia
 Q **1045** MCF/D
 P_w **506** Psia
 P_d **662** Psia
 D **689** MCF/D

Company **EL PASO NATURAL GAS CO**

By _____

Title _____

Witnessed By _____

Company _____

