

Initial
Deliverability Test

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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70-107

COMPANY EL PASO NATURAL GAS CO		WELL NAME AND NUMBER PIPER A 40			
UNIT LETTER N	SECTION 13	TOWNSHIP 30	RANGE 10	PURCHASING PIPELINE EL PASO NATURAL GAS CO.	
CASING O.D. - INCHES 4.512	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 5613	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.915	TOP - TUBING PERF. - FEET 201
GAS PAY ZONE FROM 4614 TO 5468		WELL PRODUCING THRU CASING X TUBING X		GAS GRAVITY 0.87	GRAVITY X LENGTH 1.76
DATE OF FLOW TEST FROM 10/14/68 TO 10/22/68			DATE SHUT-IN PRESSURE MEASURED 10/14/68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 2	(b) Flowing Tubing Pressure (DWt) 1	(c) Flowing Meter Pressure (DWt) 2	(d) Flow Chart Static Reading 1	(e) Meter Error (Item c - Item d) 1	(f) Friction Loss (a-c) or (b-c) 1	(g) Average Meter Pressure (Integr.) 449
(h) Corrected Meter Pressure (g+e) 449	(i) Avg. Wellhead Press. $P_t = (h+f)$ 449	(j) Shut-in Casing Pressure (DWt) 777	(k) Shut-in Tubing Pressure (DWt) 777	(l) $P_c =$ higher value of (j) or (k) 777	(m) Del. Pressure $P_d =$ 622 % P_c	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 635	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 635 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.225	$(F_c Q_m)^2 (1000)$ 61,656	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 13867	P_t^2 201211	$P_w^2 = P_t^2 + R^2$ 16511	$P_w = \sqrt{P_w^2}$ 4064
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DELIVERABILITY CALCULATION

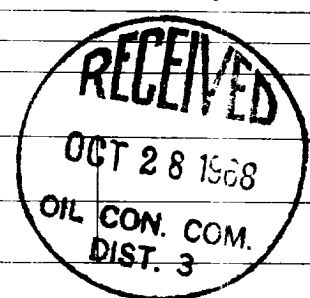
$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 835	$\left[\frac{21,685}{38,117} \right]^n =$ (.5585)	$=$.741	$=$ 635 MCF/D
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REMARKS: ~~USE WELL FIRST DELIVERABILITY~~ 8-30-68.

SUMMARY

Item h **449** Psia
 P_c **777** Psia
 Q **835** MCF/D
 P_w **4064** Psia
 P_d **622** Psia
 D **539** MCF/D

Company **EL PASO NATURAL GAS CO.**
By **[Signature]**
Title
Witnessed By
Company



POSTSCORE DATA - ALL PRESSURES IN P.S.I.

DATE RATE CORRECTION METEOROLOGICAL

WORKING PRESSURE CALCULATION

DELIVERABILITY CALCULATED

REMARKS: 8-30-68.

D. _____
 P. _____
 W. _____
 P. _____
 Q. _____
 F. _____
 Item # _____

