

Initial
Deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 68

Form C122-A
Revised 1-1-68

POOL NAME UNDESIGNAT	POOL SLOPE n = .85	FORMATION PC	COUNTY SJ
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75-844

COMPANY EL PASO NATURAL GAS CO.			WELL NAME AND NUMBER ROELOFS #4		
UNIT LETTER P	SECTION 22	TOWNSHIP 29	RANGE 8	PURCHASING PIPELINE EL PASO NATURAL GAS CO.	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 3381	TUBING O.D. - INCHES 0.000	TUBING I.D. - INCHES 0.000	TOP - TUBING PERF. - FEET 0
GAS PAY ZONE FROM 3298 TO 3320		WELL PRODUCING THRU CASING X TUBING		GAS GRAVITY 0.672	GRAVITY X LENGTH 2216
DATE OF FLOW TEST FROM 09/29/68 TO 10/07/68			DATE SHUT-IN PRESSURE MEASURED 07/22/68		

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.) 477
(h) Corrected Meter Pressure (g + e) 477	(i) Avg. Wellhead Press. $P_i = (h + f)$ 477	(j) Shut-in Casing Pressure (DWt) 1058	(k) Shut-in Tubing Pressure (DWt) 0	(l) P_c = higher value of (j) or (k) 1058	(m) Del. Pressure $P_d = 80\% P_c$ 846	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 283	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 283 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.149	$(F_c Q_m)^2 (1000)$ 2,468	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 368	P_t^2 227529	$P_w^2 = P_t^2 + R^2$ USE PT2	$P_w = \sqrt{P_w^2}$ 477
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 283	$\left[\frac{403648}{891835} \right]^n =$ 0.4526	$\frac{0.5098}{144} =$ 144 MCF/D
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REMARKS: **New Well - First Delivered 9-5-68**

SUMMARY

Item h **477** Psia
 P_c **1058** Psia
 Q **283** MCF/D
 P_w **477** Psia
 P_d **846** Psia
 D **144** MCF/D

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

