

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 69Form C122-A
Revised 1-1-68

POOL NAME BASIN	POOL SLOPE $n = .75$	FORMATION DAKOTA	COUNTY RA
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75-652

COMPANY EL PASO NATURAL GAS CO			WELL NAME AND NUMBER SJ 27-5 UNIT #107		
UNIT LETTER L	SECTION 13	TOWNSHIP 27	RANGE 5	PURCHASING PIPELINE EL PASO NATURAL GAS CO.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7876	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7629
GAS PAY ZONE FROM 7630 TO 7824		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 0.667	GRAVITY X LENGTH 5089
DATE OF FLOW TEST FROM 05/30/69 TO 06/07/69			DATE SHUT-IN PRESSURE MEASURED 08/14/68		

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.) 443
(h) Corrected Meter Pressure (g+e) 443	(i) Avg. Wellhead Press. $P_t = (h+f)$ 443	(j) Shut-in Casing Pressure (DWt) 1606	(k) Shut-in Tubing Pressure (DWt) 1596	(l) P_c = higher value of (j) or (k) 1606	(m) Del. Pressure $P_d = 50\% P_c$ 803	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 316	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q =$ 316 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.309	$(F_c Q_m)^2 (1000)$ 8,827	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 2728	P_t^2 196249	$P_w^2 = P_t^2 + R^2$ 198977	$P_w = \sqrt{P_w^2}$ 446
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	316	$\left[\frac{1934427}{2380259} \right]^n =$	0.8126	$=$	0.8559	$=$	270 MCF/D
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REMARKS:

Installed stopcock 5-19-69

SUMMARY

Item h	443	Psia
P _c	1606	Psia
Q	316	MCF/D
P _w	446	Psia
P _d	803	Psia
D	270	MCF/D

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

JUL 3 1969

OIL CON. COM.
DIST. 3