

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 DAROTA	COUNTY KA
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67-072

COMPANY EL PASO NATURAL GAS CO.			WELL NAME AND NUMBER 33 27-2 UNIT #114		
UNIT LETTER A	SECTION 17	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 7783	TUBING O.D. - INCHES 1.900	TUBING I.D. - INCHES 1.610	TOP - TUBING PERF. - FEET 7691
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 7490	TO 7713	CASING		TUBING A	5214
DATE OF FLOW TEST FROM 09/19/69 TO 09/27/69			DATE SHUT-IN PRESSURE MEASURED 08/06/69		

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)	(f) Friction Loss (a-c) or (b-c)	(g) Average Meter Pressure (Integr.)
0	0	0	0	0	0	451
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_t = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{P_c}{P_c} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
451	451	2636	1446	2636	1318	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
2109	1.0000	1.0000	Q = 2109 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-5})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-5}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.916	1,203,201	588344	203401	584245	764

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{2109}{\left[\frac{5211372}{5884251} \right]^n} = \frac{0.8156}{0.8000} = \frac{1015}{\text{MCF/D}}$$

REMARKS:

New Well 1st Delivery Sept. 17, 1969.

SUMMARY

Item h	451	Psia
P_c	2636	Psia
Q	2109	MCF/D
P_w	764	Psia
P_d	1318	Psia
D	1015	MCF/D

Company **EL PASO NATURAL GAS CO.**
By **R.E. Stanglin**
Title
Witnessed By
Company

NOV 10 1969

OIL CON. COM.
DIST. 3