

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-68

POOL NAME BASIN	POOL SLOPE n = .75	FORMATION DAKOTA	COUNTY SJ
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COMPANY EL PASO NATURAL GAS CO.			WELL NAME AND NUMBER HUEFANG UNIT #183		
UNIT LETTER C	SECTION 7	TOWNSHIP 26	RANGE 9	PURCHASING PIPELINE EL PASO NATURAL GAS CO.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.032	SET AT DEPTH - FEET 6831	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6825
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 6832	TO 6807	CASING	TUBING A	0.680	4524
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 10/04/69	TO 10/12/69	07/25/69			

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 434	(b) Flowing Tubing Pressure (DWt) 434	(c) Flowing Meter Pressure (DWt) 1837	(d) Flow Chart Static Reading 1899	(e) Meter Error (Item c - Item d) 1654	(f) Friction Loss (a-c) or (b-c) 500	(g) Average Meter Pressure (Integr.) 434
(h) Corrected Meter Pressure (g+e) 434	(i) Avg. Wellhead Press. $P_i = (h+f)$ 434	(j) Shut-in Casing Pressure (DWt) 1837	(k) Shut-in Tubing Pressure (DWt) 1899	(l) P_c = higher value of (j) or (k) 1899	(m) Del. Pressure $P_d = \frac{500}{100} \% P_i$ 500	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 850	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume 850 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.286	$(F_c Q_m)^2 (1000)$ 64,770	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 18524	P_i^2 188500	$P_w^2 = P_i^2 + R^2$ 206820	$P_w = \sqrt{P_w^2}$ 455
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 850	$\left[\frac{2703761}{2599521} \right]^n =$ 0.7958	$=$ 0.6432	$=$ 721 MCF/D
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REMARKS: **New Well Sept. 10, 1969.**

SUMMARY

Item h **434** Psia
 P_c **1899** Psia
 Q **850** MCF/D
 P_w **455** Psia
 P_d **500** Psia
 D **721** MCF/D

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

NOV 10 1969
OIL CON. COM.
DIST. 3

New York, Sept. 10, 1966.

SECRET