Initial Deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 1969

Form C122-A
Revised 1-1-68

POOL NAME	POOL SLOPE	FORMATION	COUNTY
Basin	n = .75	Dakota	San Juan

75-987

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas			Huerfano Unit No. 194		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
F	16	26	10	El Paso Natural Gas	
CASING O.D. - INCHES	CASING I.D. - INCHES	SET AT DEPTH - FEET	TUBING O.D. - INCHES	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
4.500	4.052	6815	2.375	1.995	6727
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 6650 TO 6752		CASING	TUBING xx	.711	4783
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 6-14-69 TO 6-22-69			4-30-69		

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	417

(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 $P_d = \frac{50}{845}$ %P_c	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
417	417	1689	1669	1689		

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
816	1.0000	1.0000	Q = 816 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s})(F_c Q_m)^2(1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.294	58860	17305	173889	191194	437

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 816 \left[\frac{2138696}{2661527}\right]^n = (0.8035)^n = 0.8486 = \text{[illegible]} \text{ MCF/D}$$

REMARKS: New well first delivered 5-29-69

RECEIVED
JUL 17 1969
OIL CON. COM.
DIST. 3

SUMMARY

Item h	417	Psia
P_c	1689	Psia
Q	816	MCF/D
P_w	437	Psia
P_d	845	Psia
D	692	MCF/D

Company EL PASO NATURAL GAS COMPANY
By H. L. Kendrick
Title Division Well Test Engineer
Witnessed By
Company