NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C122-A
Revised 1-1-68

POOL NAME	POOL SLOPE	FORMATION	COUNTY
Basin	n = .75	DK	SJ

87-169

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas Co.			Huerfano Unit No. 205		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
J	28	26	9	EPNG	
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	6764	2.375	1.995	6669
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 6432	TO 6666	CASING	TUBING XX	.727	4848
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 8-19-70	TO 8-27-70		7-7-70		

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	366
(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= 50 %P_c	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
366	366	1952	1971	1971	986	

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
458	1.0000	1.0000	Q = 458 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	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.297	18543	5507	133956	139463	373

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 458 \left[\left(\frac{2912645}{3745378}\right)^n = \left(.7776\right)^n = .8281\right] = 379 \text{ MCF/D}$$

REMARKS:

New well, 1st del. July 24, 1970

SUMMARY

Item h	366	Psia
P_c	1971	Psia
Q	458	MCF/D
P_w	373	Psia
P_d	986	Psia
D	379	MCF/D

Company: EL PASO NATURAL GAS COMPANY
By: H. E. McCarthy
Title:
Witnessed By:
Company:

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SEP 16 1970
OIL CON. COM.
DIST. 3