

POOL NAME	POOL SLOPE	FORMATION	COUNTY
BASIN	$n = .75$	DAKOTA	SL

75-833

COMPANY		WELL NAME AND NUMBER			
EL PASO NATURAL GAS CO		HUERFANO UNIT #178			
UNIT-LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
F	22	26	10	EL PASO NATURAL GAS CO.	
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	6803	2.375	1.995	6516
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 6542	TO 6736	CASING	TUBING X	0.702	4574
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 09/15/68 TO 09/23/68			06/18/68		

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	449
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_i = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) $P =$ higher value of (i) or (k)	(m) Del. Pressure $P_d = \frac{50}{892} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
449	449	1784	1777	1784	892	

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
441	1.0000	1.0000	Q = 441 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	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.283	17.189	4864	201601	206465	454

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{441}{2976191} \left[\frac{2386992}{2976191} \right]^n \left[0.8020 \right]^n = \frac{0.8475}{1} = 374 \text{ MCF/D}$$

REMARKS: New Well First Delivered 8-16-68.

SUMMARY

Item h	449	Psia
P _c	1784	Psia
Q	441	MCF/D
P _w	454	Psia
P _d	892	Psia
D	374	MCF/D

Company EL PASO NATURAL GAS CO
By [Signature]
Title _____
nessed By _____
Company _____

					OIL CON. COM.
					Pf. 3

3373 75-83

