NEW MEXICO OIL CONSERVATION COMMISSION

INITIAL WELL DELIVERABILITY TEST REPORT FOR 1966

Form C122-A
Revised 1-1-66

POOL NAME	POOL SLOPE	FORMATION	COUNTY
Undesignated	n= 85	Pictured Cliff	San Juan

75427

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas Company			Hughes No. 16		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
G	21	29	8	El Paso Natural Gas Company	
CASING O.D. – INCHES	CASING I.D. – INCHES	SET AT DEPTH – FEET	TUBING O.D – INCHES	TUBING I.D. – INCHES	TOP – TUBING PERF. – FEET
2.875	2441	3173	NONE		
GAS PAY ZONE FROM / TO		WELL PRODUCING THRU CASING / TUBING		GAS GRAVITY	GRAVITY X LENGTH
3101 / 3117		X		.637	
DATE OF FLOW TEST FROM / TO			DATE SHUT-IN PRESSURE MEASURED		
10-9-66 / 10-17-66			7-22-66		

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.)
						476
(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 = 80/800 %P_c**	**(n) Separator or Dehydrator Pr. (DWt) for critical flow only**
476	476	1000		1000		

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
170	1.0000	1.0000	Q = 170 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$	$(F_c\ Q_m)^2\ (1000)$	$R^2 = \frac{}{(1-e^{-s})\ (F_c\ Q_m)^2(1000)}$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
		FRICTION NEGLIGIBLE			USE P_t

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 170\left[\left(\frac{360000}{773424}\right)^n = .4654 = .5221\right] = 89 \text{ MCF/D}$$

REMARKS:

New Well First Delivered 9-23-66

SUMMARY

Item h	476	Psia
P_c	1000	Psia
Q	170	MCF/D
P_w	476	Psia
P_d	800	Psia
D	89	MCF/D

Company EL PASO NATURAL GAS COMPANY

By R. L. Kendrick

Title Regional Well Test Engineer

Witnessed By

Company

RECEIVED
NOV 3 1966
OIL CON. COM.
DIST. 3