

Deliver

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

Form C122-A
Revised 1-1-68

POOL NAME Blanco	POOL SLOPE n = .75	FORMATION Mesa Verde	COUNTY Rio Arriba
---------------------	-----------------------	-------------------------	----------------------

86-418

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 29-6 Unit No. 31		
UNIT LETTER M	SECTION 10	TOWNSHIP 29	RANGE 6	PURCHASING PIPELINE El Paso Natural Gas	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 5808	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 5753
GAS PAY ZONE FROM 5292 TO 5742		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .681	GRAVITY X LENGTH 3918
DATE OF FLOW TEST FROM 1-2-69 TO 1-10-69			DATE SHUT-IN PRESSURE MEASURED 9-27-68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 436	(b) Flowing Tubing Pressure (DWt) 436	(c) Flowing Meter Pressure (DWt) 772	(d) Flow Chart Static Reading -	(e) Meter Error (Item c - Item d) 772	(f) Friction Loss (a-c) or (b-c) Pd = $\frac{80}{618} \times P_c$	(g) Average Meter Pressure (Integr.) 436
(h) Corrected Meter Pressure (g+e) 436	(i) Avg. Wellhead Press. $P_f = (h+f)$ 436	(j) Shut-in Casing Pressure (DWt) 772	(k) Shut-in Tubing Pressure (DWt) -	(l) P_c = higher value of (i) or (k) 772	(m) Del. Pressure Pd = $\frac{80}{618} \times P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 432	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 432 MCF/D
--------------------------------------	---	--	-----------------------------------

WORKING PRESSURE CALCULATION

$(1-e^{-s})$.248	$(F_c Q_m)^2 (1000)$ 113124	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 28055	P_t^2 190096	$P_w^2 = P_t^2 + R^2$ 218151	$P_w = \sqrt{P_w^2}$ 467
----------------------	--------------------------------	--	-------------------	---------------------------------	-----------------------------

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 432	$\left(\frac{214060}{377833} \right)^n =$.5665	$\left(\frac{214060}{377833} \right)^n =$.6528	282 MCF/D
---	---	---	-----------

REMARKS:

Installed 1 1/4" tubing 12-20-68

SUMMARY

Item h	436	Psia
Pc	772	Psia
Q	432	MCF/D
Pw	467	Psia
Pd	618	Psia
D	282	MCF/D

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

CORRECTED COPY

