

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 71

Form C122-A
Revised 1-1-68

WELL NAME Blanco		PODE SLOPE n = .75		FORMATION MV		COUNTY SJ	
COMPANY El Paso Natural Gas Company				WELL NAME AND NUMBER Hardie No. 4			
UNIT LETTER H	SECTION 23	TOWNSHIP 29	RANGE 8	PURCHASING PIPELINE EPNG			
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 5626	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 5533		
GAS PAY ZONE FROM 4806 TO 5526		WELL PRODUCING THRU CASING TUBING XXX		GAS GRAVITY .683		GRAVITY X LENGTH 3779	
DATE OF FLOW TEST FROM 7-20-71 TO 7-28-71				DATE SHUT-IN PRESSURE MEASURED 5-21-71			

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	405
(h) Corrected Meter Pressure (g-e)	(i) Avg. Wellhead Press. $P_f = (n+1)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (i) or (k)	(m) Del. Pressure $P_d = \frac{80}{\%P_c}$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
405	405	676	699	699	559	

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
1053	1.0000	1.0000	Q = 1053 MCF/D

WORKING PRESSURE CALCULATION

$(1-n^{-5})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1-n^{-5}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.240	98016	23524	164025	187549	433

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 1053 \left[\frac{176120}{301052} \right]^n = \left(\frac{.5850}{.6689} \right)^n = 704 \text{ MCF/D}$$

REMARKS:

Well first delivered June 21, 1971 - after wo

SUMMARY

Item h 405 Psia
P_c 699 Psia
Q 1053 MCF/D
P_w 433 Psia
P_d 559 Psia
D 704 MCF/D

Company EL PASO NATURAL GAS COMPANY
By H. E. McAnally
Title _____
Witnessed By _____
Company _____

