

Int.
deliverability

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

Form C-22-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY San Juan
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75-938

COMPANY El Paso Natural Gas			WELL NAME AND NUMBER Filan No. 6		
UNIT LETTER G	SECTION 5	TOWNSHIP 27	RANGE 8	PURCHASING PIPELINE El Paso Natural Gas	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6820	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6598
GAS PAY ZONE FROM 6628 TO 6790		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .678	GRAVITY X LENGTH 4473
DATE OF FLOW TEST FROM 2-08-69 TO 2-16-69			DATE SHUT-IN PRESSURE MEASURED 12-02-68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(g) Flowing Casing Pressure (DWt) 456	(b) Flowing Tubing Pressure (DWt) 456	(c) Flowing Meter Pressure (DWt) 1847	(d) Flow Chart Static Reading 1917	(e) Meter Error (Item c - Item d) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 456
(h) Corrected Meter Pressure (g+e) 456	(i) Avg. Wellhead Press. $P_i = (h+f)$ 456	(j) Shut-in Casing Pressure (DWt) 1847	(k) Shut-in Tubing Pressure (DWt) 1917	(l) P_s = higher value of (i) or (k) 1917	(m) Del. Pressure $P_d = 50$ % P_c 959	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 281	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 281 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.278	$(F_c Q_m)^2 (1000)$ 6980	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 1940	P_i^2 207936	$P_w^2 = P_i^2 + R^2$ 209876	$P_w = \sqrt{P_w^2}$ 458
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 281 \left[\frac{2755208}{3465013} \right]^n = (0.7951)^n = 0.8419 = 237 \text{ MCF/D}$$

REMARKS:

New well first delivered 1-10-69

SUMMARY

Item h 456 Psia
P_c 1917 Psia
Q 281 MCF/D
P_w 458 Psia
P_d 959 Psia
D 237 MCF/D

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

