

Deliverable

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

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY San Juan
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75-925

COMPANY El Paso Natural Gas		WELL NAME AND NUMBER Riddle "B" No. 5			
UNIT LETTER 0	SECTION 23	TOWNSHIP 30	RANGE 10	PURCHASING PIPELINE El Paso Natural Gas	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.012	SET AT DEPTH - FEET 7400	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7145
GAS PAY ZONE FROM 7162 TO 7368		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .678	GRAVITY X LENGTH 4844
DATE OF FLOW TEST FROM 1-14-69 TO 1-22-69			DATE SHUT-IN PRESSURE MEASURED 11-12-68		

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	442
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_f = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_m higher value of (j) or (k)	(m) Del. Pressure $P_d = 50$ P_c 1067	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
442	442	2132	2134	2134		

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 741	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 741 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.297	$(F_c Q_m)^2 (1000)$ 48536	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 14415	P_i^2 195364	$P_w^2 = P_i^2 + R^2$ 209779	$P_w = \sqrt{P_w^2}$ 458
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{741}{\left[\frac{3415467}{4344177} \right]^n} = \frac{741}{.7862^n} = \frac{741}{.8349} = 619 \text{ MCF/D}$$

REMARKS:

New well first delivered 12-20-68

SUMMARY

Item h 442 Psia
P_c 2134 Psia
Q 741 MCF/D
P_w 458 Psia
P_d 1067 Psia
D 619 MCF/D

Company El Paso Natural Gas Company
By H. L. Kendrick
Title Regional Well Test Engineer
Witnessed By
Company



