

Deliverability

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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75-942

COMPANY El Paso Natural Gas			WELL NAME AND NUMBER Day "B" No. 4		
UNIT LETTER K	SECTION 7	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 7460	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7408
GAS PAY ZONE FROM 7262 TO 7431		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .678	GRAVITY X LENGTH 5023
DATE OF FLOW TEST FROM 2-07-69 TO 2-15-69			DATE SHUT-IN PRESSURE MEASURED 12-04-68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(e) 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	456
(h) Corrected Meter Pressure (g+a)	(i) Avg. Wellhead Press. $P_i = (h+i)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_m = higher value of (i) or (k)	(m) Del. Pressure $P_d = 50$ % P_i	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
456	456	2075	2035	2075	1038	

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
420	1.0000	1.0000	Q = 420 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$.306	$(F_c Q_m)^2 (1000)$ 15593	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 4771	P_i^2 207936	$P_w^2 = P_i^2 + R^2$ 212707	$P_w = \sqrt{P_w^2}$ 461
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	420	$\left[\frac{3228181}{4092918} \right]^n =$	0.7887	$= \frac{0.8368^{10}}{1} =$	351 MCF/D
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REMARKS:

New well first delivered 1-10-69

SUMMARY

Item h	456	Psia
P_c	2075	Psia
Q	420	MCF/D
P_w	461	Psia
P_d	1038	Psia
D	351	MCF/D

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

