

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 1976

Form C122-A
Revised 1-1-68

POOL NAME Bloomfield	POOL SLOPE n = .75	FORMATION Chacra	COUNTY San Juan
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89-080

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Hubbell #4		
UNIF LETTER L	SECTION 7	TOWNSHIP 29	RANGE 10	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 3266'	TUBING O.D. - INCHES 0.000	TUBING I.D. - INCHES 0.000	TOP TUBING PERF. - FEET 0
GAS PAY ZONE FROM 3200 TO 3216		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY 0.654	GRAVITY X LENGTH 2093
DATE OF FLOW TEST FROM 3-28-76 TO 4-5-76			DATE SHUT-IN PRESSURE MEASURED 4-12-76		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 121	(b) Flowing Tubing Pressure (DWt) 0	(c) Flowing Meter Pressure (DWt) 120	(d) Flow Chart Static Reading 123	(e) Meter Error (Item c - Item d) 3-	(f) Friction Loss (a-c) or (b-c) 1	(g) Average Meter Pressure (Integr.) 127
(h) Corrected Meter Pressure (g+e) 124	(i) Avg. Wellhead Press. P _f = (h+f) 125	(j) Shut-in Casing Pressure (DWt) 381	(k) Shut-in Tubing Pressure (DWt) 0	(l) P _c = higher value of (i) or (k) 381	(m) Del. Pressure P _d = <u>80</u> % P _c 305	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 71	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 0.9756	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 0.9877	Corrected Volume Q = 70 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.141	$(F_c Q_m)^2 (1000)$ 151	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 21	P _t ² 15625	P _w ² = P _t ² + R ² Use Pt2	P _w = $\sqrt{P_w^2}$ 125
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DELIVERABILITY CALCULATION

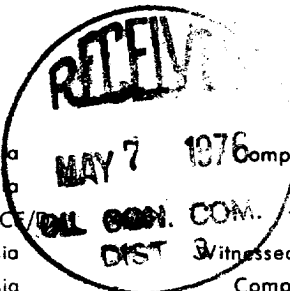
$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 70	$\left(\frac{52136}{129536} \right)^n =$ 0.4025	$= \left(\frac{0.4025}{0.4025} \right)^n =$ 0.5054	$=$ 35 MCF/D
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REMARKS:

Corrected Copy

SUMMARY

Item h 124 Psia
P_c 381 Psia
Q 70 MCF/D
P_w 125 Psia
P_d 305 Psia
D 35 MCF/D



Company El Paso Natural Gas Company
By H. E. McQuibben
Title Well Test Engineer
Witnessed By _____
Company _____
