

INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 67

Form C122-A
Revised 1-1-66

POOL NAME Basin Dakota	POOL SLOPE n = .75	FORMATION Dakota	COUNTY San Juan
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COMPANY General Petroleum Corp.			WELL NAME AND NUMBER Rock Island #2		
UNIT LETTER E	SECTION 24	TOWNSHIP 29N	RANGE 9W	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 4 1/2"	CASING I.D. - INCHES	SET AT DEPTH - FEET 7290'	TUBING O.D. - INCHES 1 1/4"	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET 7088'
GAS PAY ZONE FROM 6900' TO 7170'		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .678	GRAVITY X LENGTH
DATE OF FLOW TEST FROM 12/11/67 TO 12/19/67			DATE SHUT-IN PRESSURE MEASURED 4/18/67		

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.)
						228
(h) Corrected Meter Pressure (g + e)	(i) Avg. Wellhead Press. $P_t = (h + f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{50}{100} P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
228	228	1864	1252	1864	932	---

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 5	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume $Q = \frac{5}{\sqrt{\frac{1864}{1252}}} = 5$ MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-S})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1 - e^{-S}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
					228

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{5}{\left[\frac{2,605,872}{3,422,512} \right]^n} = \frac{5}{.7614^n} = \frac{.75}{.8151^n} = 4$ MCF/D	
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REMARKS:

$P_c = P_w$ Friction Negligible

SUMMARY

Item h **228** Psia
P_c **1864** Psia
Q **5** MCF/D
P_w **228** Psia
P_d **932** Psia
D **4** MCF/D

Company **General Petroleum Corp.**

By **John Jacob**
Title **Agent**

Witnessed By _____

Company _____



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