

STATE OF KANSAS - CORPORATION COMMISSION

FORM CG-1

MULTIPOINT BACK PRESSURE TEST

15-103-20986-0000

TYPE TEST:  Initial  Annual  Special TEST DATE: April 12, 1988

COMPANY: Fairway Petroleum, Inc. LEASE: STUCKEY WELL NO.: 2-1

COUNTY: Leavenworth LOCATION: SW SW SW SECTION: 29 TWP: 9S RNG: 23E ACRES: 318

FIELD: McLouth PIPELINE CONNECTION: None

COMPLETION DATE: 3/30/88 PLUG BACK TOTAL DEPTH: 1210 PACKER SET AT:

CASING SIZE: WT. ID. SET AT PERF. TO  
4 1/2" 1210 1132 1133

TUBING SIZE: WT. ID. SET AT PERF. TO

TYPE COMPLETION (Describe): Perforated TYPE FLUID PRODUCTION: none

PRODUCING THRU: 4 1/2" casing RESERVOIR TEMPERATURE F: 72 BAR PRESS - P<sub>a</sub>: 14.4 Psia

GAS GRAVITY - G<sub>g</sub>: 0.593 % CARBON DIOXIDE: 0 % NITROGEN: 1.9% API GRAVITY OF LIQUID:

VERTICAL DEPTH (H): 1210 TYPE METER CONN.: None (PROVER) SIZE: 2"

REMARKS: RECEIVED 9-12-88 SEP 12 1988 STATE CORPORATION COMMISSION

OBSERVED DATA

DURATION OF SHUT-IN: 72 HR.

RATE No.	ORIFICE SIZE in.	(PROVER) PRESSURE psig	DIFF. (h <sub>w</sub> ) (h <sub>d</sub> )	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASING WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P <sub>w</sub> ) (P <sub>c</sub> ) psia	psia	(P <sub>w</sub> X P <sub>c</sub> ) psia		
SHUT IN						397.0	411.4			72	
1	0.50	335.0	-	72	72	335.0	349.4			1	
2	0.75	274.0	-	72	72	274.0	288.4			1	
3	1.00	220.0	-	72	72	220.0	234.4			1	
4	1.25	148.4	-	72	72	148.0	162.4			1	
5											

RATE OF FLOW CALCULATIONS

RATE NO.	CORFFICIENT (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd	(PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m \times h_w}$	GRAVITY FACTOR F <sub>g</sub>	FLOWING TEMP FACTOR F <sub>t</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW Q Mcfd	GOR	Q <sub>m</sub>
1	4.388	349.4	-	1.299	0.9887	1.027	2021		
2	9.694	288.4	-	1.299	0.9887	1.023	3672		
3	17.53	234.4	-	1.299	0.9887	1.019	5376		
4	28.34	162.4	-	1.299	0.9887	1.015	5997		
5									

PRESSURE CALCULATIONS

RATE NO.	P <sub>i</sub> psia	P <sub>c</sub> psia	P <sub>w</sub> psia	(P <sub>c</sub> ) <sup>2</sup> THOUSANDS	(P <sub>w</sub> ) <sup>2</sup> THOUSANDS	PLOTTING POINTS		100 $\left[ \frac{P_w - P_a}{P_c - P_a} \right]$
						(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> THOUSANDS	Q Mcfd	
1		411.4	349.4	169.2	122.1	47.2	2021	
2		411.4	288.4	169.2	83.2	86.1	3672	
3		411.4	234.4	169.2	54.9	114.3	5376	
4		411.4	162.4	169.2	26.4	142.9	5997	
5								

INDICATED WELLHEAD OPEN FLOW 7070 Mcfd @ 14.65 psia "a" = 0.981

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

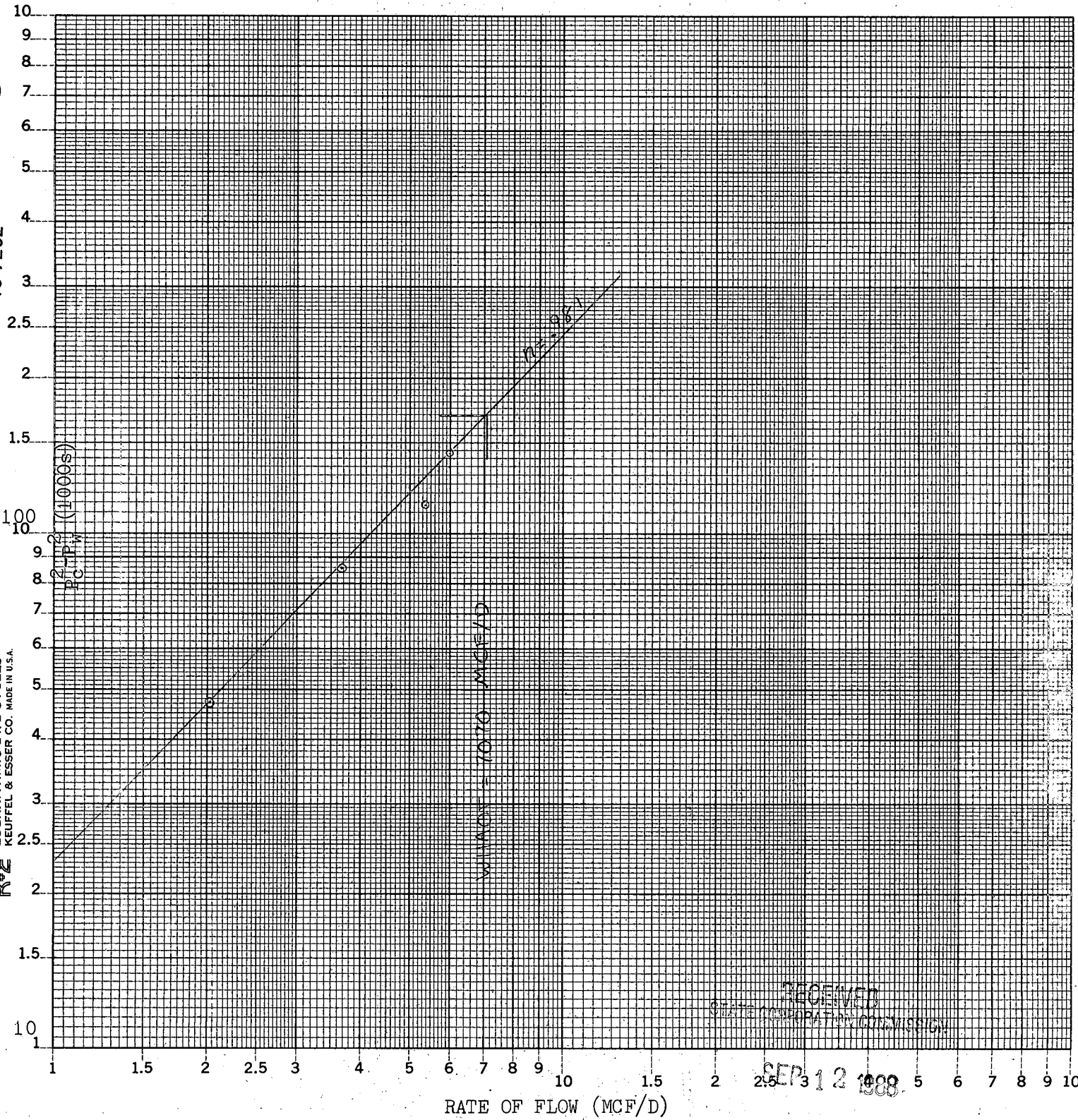
Executed this the 21 day of June, 1988.

Witness (if any)

*Joseph W. Heitz*  
For Company

46 7202

LOGARITHMIC 2 X 2 CYCLES  
KEUFFEL & ESSER CO. MADE IN U.S.A.



RECEIVED  
STATE CORPORATION COMMISSION

SEP 12 1988

CONSERVATION DIVISION  
Wichita, Kansas