

STATE OF KANSAS - CORPORATION COMMISSION  
MULTIPOINT BACK PRESSURE TEST

FORM CG-1

15-103-21045-0000

0  
189  
5-23-89

TYPE TEST:  Initial  Annual  Special TEST DATE: 3/12/89

COMPANY Fairway Petroleum, Inc. LEASE Stuckey WELL NO. 2-2

COUNTY Leavenworth LOCATION NW NW SW SECTION 29 TWP 9S RNG 23E ACRES 40

FIELD RESEVOIR McLouth PIPELINE CONNECTION None

COMPLETION DATE 3/4/89 PLUG BACK TOTAL DEPTH 1141 Packer set at

CASING SIZE WT. ID. SET AT 4 1/2" 1141 PERF. TO 1052

TUBING SIZE WT. ID. SET AT PERF. TO

TYPE COMPLETION (Describe) Perforation 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 1.85 API GRAVITY OF LIQUID

VERTICAL DEPTH (H) 1141 TYPE METER CONN. None (METER RUN) (PROVER) SIZE 2"

REMARKS

OBSERVED DATA DURATION OF SHUT-IN HR.

RATE No.	ORIFICE SIZE in.	(METER) (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>i</sub> )(P <sub>o</sub> ) psia	psig	(P <sub>w</sub> )(P <sub>i</sub> )(P <sub>c</sub> ) psia		
SHUT IN						395.0	409.4			96	
1	.50	314	--	72	72	314.0	328.4			1	
2	.75	261	--	72	72	261.0	275.4			1	
3	1.00	207	--	72	72	207.0	221.4			1	
4	1.25	135	--	72	72	135.0	149.4			1	
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RATE OF FLOW CALCULATIONS

RATE NO.	COEFFICIENT (F <sub>d</sub> )(F <sub>p</sub> ) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m x h_w}$	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	G <sub>m</sub>
1	4.388	328.4	--	1.299	0.9887	1.027	1900		
2	9.694	275.4	--	1.299	0.9887	1.023	3507		
3	17.53	221.4	--	1.299	0.9887	1.019	5079		
4	28.34	149.4	--	1.299	0.9887	1.015	5519		
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RECEIVED  
STATE CORPORATION COMMISSION  
MAY 22 1989  
05-23-89  
CORPORATION DIVISION  
Wichita, Kansas

PRESSURE CALCULATIONS

RATE NO.	P <sub>i</sub> psia	P <sub>o</sub> psia	P <sub>w</sub> psia	(P <sub>o</sub> ) <sup>2</sup> THOUSANDS	(P <sub>w</sub> ) <sup>2</sup> THOUSANDS	PLOTING 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		409.4	328.4	167.6	107.8	59.8	1900	
2		409.4	275.4	167.6	75.9	91.7	3507	
3		409.4	221.4	167.6	49.0	118.6	5079	
4		409.4	149.4	167.6	22.3	145.3	5519	
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INDICATED WELLHEAD OPEN FLOW 6300 Mcfd @ 14.65 psia "n" = 0.947

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 20 day of April, 1989

*J. Hunt*  
For Company

Witness (if any)