

**STATE OF KANSAS - CORPORATION COMMISSION**  
**ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST**

FORM O-2  
8-7-58

15-103-20224-0000

**TYPE TEST:**  Deliverability  Open Flow      **TEST DATE:** June 17, 1988

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**COMPANY:** Fairway Petroleum, Inc.      **LEASE:** WILKES      **WELL NO.:** 2

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**COUNTY:** Leavenworth      **LOCATION:** NW N SW      **SECTION:** 25      **TWP:** 7S      **RNG:** 21E      **ACRES:** 240

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**FIELD:** McLouth      **PIPELINE CONNECTION:** LAGGS, Inc.

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**COMPLETION DATE:** 9/13/83      **PLUG DACK TOTAL DEPTH:** 1511'      **PACKER SET AT:**

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**CASING SIZE:** 9.5      **WT.:**      **L.D.:** 4 1/2"      **SET AT:** 1511'      **PERF.:** 1404-1411      **TO:**

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**TUBING SIZE:**      **WT.:**      **L.D.:**      **SET AT:**      **PERF.:**      **TO:**

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**TYPE COMPLETION (Describe):** Perforation      **TYPE FLUID PRODUCTION:** Oil & Water

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**PRODUCING THRU:** 4 1/2" casing      **RESERVOIR TEMPERATURE F:** 78°      **BAR. PRESS - P<sub>a</sub>:** 14.4 Psia

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**GAS GRAVITY - G<sub>g</sub>:** .5810      **% CARBON DIOXIDE:** .02      **% NITROGEN:** 5.10      **API GRAVITY OF LIQUID:** 19.9

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**VERTICAL DEPTH (H):** 1511      **TYPE METER CONN.:** Barton      **(METER RUN) (PROVER) SIZE:** 2"

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**SHUT-IN PRESSURE:** SHUT IN August 19 86 AT (AM)(PM) TAKEN June 17 19 88 AT 9 (AM)(PM)

**FLOW TEST: STARTED:** 19 AT 9 (AM)(PM) TAKEN June 17 19 88 AT 10 (AM)(PM)

**OBSERVED DATA**      **DURATION OF SHUT-IN:** 2 years HR.

SHUT-IN OR FLOW	ORIFICE SIZE in.	(METER) (PROVER) PRESSURE psig	DIFF. in. (h <sub>w</sub> )(h <sub>d</sub> )	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASING WELL-HEAD PRESS.		TUBING WELL-HEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P <sub>w</sub> )(P <sub>t</sub> )(P <sub>c</sub> ) psia	psig	(P <sub>w</sub> )(P <sub>t</sub> )(P <sub>c</sub> ) psia		
SHUT-IN						130.0	144.4				
FLOW	0.50	109.0	-	78	-	109.0	123.4				

**RATE OF FLOW CALCULATIONS**

COEFFICIENT (F <sub>1</sub> )(F <sub>2</sub> ) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION √P <sub>m</sub> h <sub>w</sub>	GRAVITY FACTOR F <sub>g</sub>	FLOWING TEMP. FACTOR F <sub>t</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW R Mcfd	GOR	Q <sub>m</sub>
4.388	123.4	-	1.3119	0.9825	1.0066	704		

**(OPEN FLOW) (DELIVERABILITY) CALCULATIONS**

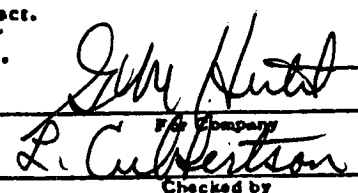
(P<sub>c</sub>)<sup>2</sup> = \_\_\_\_\_ ; (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ ; P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ ; (P<sub>d</sub>)<sup>2</sup> = 0.207

(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	$\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}$	LOG [ ]	"n"	n x LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
CALCULATED BY IBM COMPUTER				0.85			2130

**OPEN FLOW** 2130      **Mcfd @ 14.65 psia**      **DELIVERABILITY**      **Mcfd @ 14.65 psia**

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 24 day of June, 1988.

  
 P. Culbertson  
 Checked by

Witness (if any) \_\_\_\_\_  
 For Completion \_\_\_\_\_