

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

FORM G-2  
8-7-58

15-005-20033-0000

**TYPE TEST:**  Deliverability  Open Flow      **TEST DATE:** April 3, 1990

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

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**COUNTY:** Atchison      **LOCATION:** SE $\frac{1}{4}$       **SECTION:** 23      **TWP:** 7S      **RNG:** 21E      **ACRES:** 40

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

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**COMPLETION DATE:** 9/30/83      **PLUG BACK TOTAL DEPTH:** 1490      **PACKER SET AT:**

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**CASING SIZE:** WT. 9.5      I.D. 4 $\frac{1}{2}$ "      SET AT 1490      PERF. 1407-1410, 1416-1423 & 1430-1434      TO

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**TUBING SIZE:** WT. 2 3/8"      I.D. 2 3/8"      SET AT 1401      PERF.      TO

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

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**PRODUCING THRU:** 2 3/8" Tubing      **RESERVOIR TEMPERATURE F:** 75°      **BAR. PRESS - P<sub>a</sub>:** 14.4 Psia

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**GAS GRAVITY - G<sub>g</sub>:** 0.5720      **% CARBON DIOXIDE:** .44      **% NITROGEN:** 1.63      **API GRAVITY OF LIQUID:** 20.8

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**VERTICAL DEPTH (H):** 1490      **TYPE METER CONN.:** None      **(METER RUN)(PROVER) SIZE:** 2"

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**SHUT-IN PRESSURE:** SHUT IN March 28, 1990 19 AT (AM)(PM) TAKEN 19 AT (AM)(PM)

**FLOW TEST:** STARTED April 1, 1990 19 AT (AM)(PM) TAKEN 19 AT (AM)(PM)

**OBSERVED DATA**

DURATION OF SHUT-IN Years

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 WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P <sub>w</sub> )(P <sub>i</sub> )(P <sub>c</sub> ) psia	psig	(P <sub>w</sub> )(P <sub>i</sub> )(P <sub>c</sub> ) psia		
SHUT-IN						302	316.4			Years	
FLOW	.50	67	----	75	75	67	81.4			1	

**RATE OF FLOW CALCULATIONS**

COEFFICIENT (F <sub>b</sub> )(F <sub>w</sub> ) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_{wh} h_w}$	GRAVITY FACTOR F <sub>g</sub>	FLOWING TEMP. FACTOR F <sub>L</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW R Mcfd	GOR	Q <sub>m</sub>
4.388	81.4	----	1.3222	0.9852	1.0055	467.8		

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

(P<sub>c</sub>)<sup>2</sup> = 100.1      (P<sub>w</sub>)<sup>2</sup> = 6.6      P<sub>d</sub> = \_\_\_\_\_ %      (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_      (P<sub>w</sub>)<sup>2</sup> = 0.207

$\frac{(P_c)^2 - (P_w)^2}{(P_c)^2 - (P_d)^2}$	$(P_c)^2 - (P_w)^2$	$\left[ \frac{P_c^2 - P_w^2}{P_c^2 - P_d^2} \right]$	LOG [ ]	"n"	n x LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
	93.5			0.085			490.8

**OPEN FLOW:** 490.8 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 this report is true and correct.

Executed this the 12 day of May, 1990

Witness (if any)

29 1990  
CORPORATION DIVISION  
Topeka, Kansas

*[Signature]*  
Company

Checked by