

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

FORM O-2  
8-7-58

15-005-20033-0000

**TYPE TEST:**  Deliverability  Open Flow **TEST DATE:** June 16, 1988

**COMPANY** Fairway Petroleum, Inc. **LEASE** POHL **WELL NO.** 2

**COUNTY** Atchison **LOCATION** SE 1/4 **SECTION** 23 **TWP** 7 **RNG** 21E **ACRES** 806

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

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

**CASINO SIZE** WT. 9.5 LD. 4 1/2" SET AT 1490' **PERF.** 1407-1410 TO 1416-1423

**TUBING SIZE** WT. LD. SET AT **PERF.** TO

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

**PRODUCING THRU** 4 1/2" casing **RESERVOIR TEMPERATURE F** 75° **BAR. PRESS - P<sub>a</sub>** 14.4 Psia

**GAS GRAVITY - G<sub>g</sub>** .5720 **% CARBON DIOXIDE** **% NITROGEN** 1.63 **API GRAVITY OF LIQUID** 20.9

**VERTICAL DEPTH (ft)** 1490 **TYPE METER CONN.** Barton **(METER RUN) (PROVER) SIZE** 2"

**SHUT-IN PRESSURE: SHUT IN** August 1986 AT (AM)(PM) TAKEN June 16 1988 AT 2 (AM)(PM)

**FLOW TEST: STARTED** 19 AT 2 (AM)(PM) TAKEN June 16 1988 AT 3 (AM)(PM)

**OBSERVED DATA** DURATION OF SHUT-IN 2 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	CASINO 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						320.0	334.4				
FLOW	1.00	83.0	-	75	-	83.0	97.4				

**RATE OF FLOW CALCULATIONS**

COEFFICIENT (P <sub>w</sub> )(P <sub>i</sub> )(P <sub>c</sub> ) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_{mshw}}$	GRAVITY FACTOR P <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>
17.53	97.4	-	1.3222	0.9852	1.0055	2243		

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

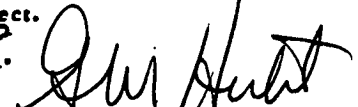
(P<sub>c</sub>)<sup>2</sup> = \_\_\_\_\_ (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ P<sub>d</sub><sup>2</sup> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ (P<sub>d</sub>)<sup>2</sup> = 0.207

$\frac{(P_c)^2 - (P_w)^2}{(P_c)^2 - (P_d)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}$	LOG [ ]	"n"	n x LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
CALCULATED BY IBM COMPUTER				0.85			2416

**OPEN FLOW** 2416 **Mcf @ 14.65 psia** **DELIVERABILITY** **Mcf @ 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.

  
 \_\_\_\_\_  
 L. Culbertson  
 Checked by

Witness (if any) \_\_\_\_\_