

15-103-20648-00-00  
**STATE OF KANSAS - CORPORATION COMMISSION**

FORM O-3  
 8-7-58

**ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST**

**TYPE TEST:**  Deliverability  Open Flow **TEST DATE:** July 11, 1988

**COMPANY:** Fairway Petroleum, Inc. **LEASE:** Trujillo **WELL NO.:** 3

**COUNTY:** Leavenworth **LOCATION:** NW SE SW **SECTION:** 12 **TWP:** 8S **RNG:** 21E **ACRES:** 70.13

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

**COMPLETION DATE:** 12/10/86 **PLUG BACK TOTAL DEPTH:** 1325' **PACKER SET AT:**

**CASING SIZE:** WT. 4 1/2" I.D. 1325' SET AT 1272-1284' PERF. TO

**TUBING SIZE:** WT. 2 3/8" I.D. 1310' SET AT PERF. TO

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

**PRODUCING THRU:** 2 3/8" tubing **RESERVOIR TEMPERATURE P:** 77° **BAR. PRESS - P<sub>a</sub>:** 14.4 Psia

**GAS GRAVITY - G<sub>g</sub>:** .5914 **% CARBON DIOXIDE:** 0 **% NITROGEN:** 7.31 **API GRAVITY OF LIQUID:** 23.5

**VERTICAL DEPTH (H):** 1325' **TYPE METER CONN.:** Barton **(METER RUN) (PROVER) SIZE:** 2"

**SHUT-IN PRESSURE: SHUT IN:** July 10 19 88 AT 6 (AM)(PM) TAKEN July 11 19 88 AT 11 (AM)(PM)

**FLOW TEST: STARTED:** 10 19 88 AT 11 (AM)(PM) TAKEN July 11 19 88 AT 11:30 (AM)(PM)

RECEIVED  
 STATE CORPORATION COMMISSION  
 SEP 12 1988  
 REGISTRATION DIVISION  
 Topeka, Kansas

**OBSERVED DATA** **DURATION OF SHUT-IN:** 17 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 WELLHEAD PRESS.		TUBING WELLHEAD 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						143.0	157.4				
FLOW	1.00	80.0	-	76.7		80.0*	94.4				

\*Fluid varied end results from 48-87

**RATE OF FLOW CALCULATIONS**

COEFFICIENT (F <sub>p</sub> )(F <sub>d</sub> ) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION √F <sub>m</sub> h <sub>w</sub>	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>
17.53	94.4	-	1.3054	.9843	1.0061	2146*		

**(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

$\frac{(P_c)^2 - (P_w)^2}{(P_c)^2 - (P_d)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}$	LOG [ ]	"n"	n x LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
CALCULATED BY IBM COMPUTER				0.85			3115*

**OPEN FLOW:** 3115 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 21 day of July, 1988.

*Larry C. Peterson*  
 For Company  
 LARRY C. PETERSON  
 Checked by

Witness (if any)

For Completion

10  
10-17-86

September 1986

TRUJILLO #3

Operator-- Fairway Petroleum, Inc.  
 Operator License Number--6871  
 Operator Address-- 12603 Southwest Freeway, #370; Stafford, TX 77477  
 Operator Phone Number-- (713) 240-1555  
 Lease-- Trujillo  
 Location-- SE SW 12  
 Township-- 8S  
 Range-- 21E  
 County-- Leavenworth  
 Gas Purchaser-- LAGGS, Inc. (LLJV)  
 Gas BTU's-- 937 (Est.)

INITIAL OPEN FLOW CALCULATION

Flowing Pressure on Prover (psi)--	347
Shut-In Pressure on Prover (psi)--	454
Orifice Size ( 1 inch) and Coefficient--	406.7
Specific Gravity--	.5868
Temperature of Gas (+459.69F)--	536.69
Open Flow (MCF/D)--	7,950.7
One-Quarter of Open Flow (MCF/D)--	1,987.7
Adjusted State Allowable (MCF/D)--	1,987.7

CURRENT OPEN FLOW CALCULATION

Flowing Pressure on Prover (psi)--	
Shut-In Pressure on Prover (psi)--	
Orifice Size ( inch) and Coefficient--	
Specific Gravity--	
Temperature of Gas (+459.69F)--	
Open Flow (MCF/D)--	
One-Quarter of Open Flow (MCF/D)--	
Adjusted State Allowable (MCF/D)--	
Current Production Rate (MCF/D)--	215

TESTER--Larry Culbertson--LAGGS, INC.--913-773-8514  
 COMMENTS--Currently being hooked to pipeline.