

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

FORM O-2  
 8-7-58

*OIL WELL*  
*STATE*  
*DEFINITION*

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

COMPANY: Fairway Petroleum, Inc. LEASE: Wright WELL NO.: 1

COUNTY: Leavenworth LOCATION: SE NW NE SECTION: 13 TWP: 8S RNG: 21E ACRES: 95.36

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

COMPLETION DATE: 11/6/85 PLUG BACK TOTAL DEPTH: 1355' PACKER SET AT: \_\_\_\_\_

CASINO SIZE: WT. LD. SET AT PERF. TO  
 4 1/2" 1355' 1286-1298

TUBING SIZE: WT. LD. SET AT PERF. TO  
 2 3/8" 1326

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

PRODUCING THRU: 2 3/8" tubing RESEVOIR TEMPERATURE F: 76° BAR. PRESS - P<sub>a</sub>: 14.4 Psia

GAS GRAVITY - G<sub>g</sub>: .5801 % CARBON DIOXIDE: \_\_\_\_\_ % NITROGEN: 4.23 API GRAVITY OF LIQUID: 24.1

VERTICAL DEPTH (H): 1355 TYPE METER CONN.: Barton (METER RUN) (PROVER) SIZE: 2"

SHUT-IN PRESSURE: SHUT IN July 10 19 88 AT 5 (AM)(PM) TAKEN July 11 19 88 AT 10 (AM)(PM)

FLOW TEST: STARTED \_\_\_\_\_ 19 \_\_\_\_\_ AT 10 (AM)(PM) TAKEN July 11 19 88 AT 10:10 (AM)(PM)

RECEIVED  
 SEP 12 1988  
 CORPORATION COMMISSION  
 CONSERVATION DIVISION  
 Wichita, 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	CASINO WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P <sub>w</sub> )(P <sub>i</sub> )(X P <sub>c</sub> ) psia	psig	(P <sub>w</sub> )(P <sub>i</sub> )(X P <sub>c</sub> ) psia		
SHUT-IN						138.0	152.4				
FLOW	0.75	50.0	-	75.7	-	50.0	64.4				

RATE OF FLOW CALCULATIONS

CORFFICIENT (F <sub>p</sub> )(F <sub>d</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>L</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW R Mcfd	GOR	G <sub>m</sub>
9.694	64.4	-	1.2899	0.9852	1.002	799		

(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>w</sub>)<sup>2</sup> = 0.207 (P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>w</sub> ) <sup>2</sup> - (P <sub>d</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
				0.85			938

CALCULATED BY IBM COMPUTER

OPEN FLOW 938 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 Culbertson*  
 For Company  
 LARRY CULBERTSON  
 Checked by

Witness (if any)

For Completion

8/9  
12-2-85

September 1985

WRIGHT #1

Operator-- Fairway Petroleum, Inc.  
 Operator License Number-- 6871  
 Operator Address-- 12603 Southwest Freeway, #370, Stafford, TX 77477  
 Operator Phone Number-- (713) 240-1555  
 Lease-- WRIGHT  
 Location-- N 1/2 13  
 Township-- 8 S  
 Range-- 21 E  
 County-- Leavenworth  
 Gas Purchaser-- LAGGS (LLJV)  
 Gas BTU's-- N.A.

INITIAL OPEN FLOW CALCULATION

Flowing Pressure on Prover (psi)-- 397.0  
 Orifice Size ( 1 inch) and Coefficient-- 406.7  
 Specific Gravity-- .6010  
 Temperature of Gas (+459.69F)-- 535.69  
 Open Flow (MCF/D) 8,998.5  
 One-Quarter of Open Flow (MCF/D)-- 2,249.6  
 Adjusted State Allowable (MCF/D)-- 2,249.6

Shut-in Press.

462.0

CURRENT OPEN FLOW CALCULATION

Flowing 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)--

N E W

W E L L

TESTER--Larry Culbertson--LAGGS, INC.--913-773-8514  
 COMMENTS--