

15-103-20345-00-00
STATE OF KANSAS - CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM O-2
8-7-58

TYPE TEST: Deliverability Open Flow **TEST DATE:** July 10, 1988

COMPANY Fairway Petroleum, Inc. **LEASE** CHAFFIN **WELL NO.** 1

COUNTY Leavenworth **LOCATION** SE NW SW **SECTION** 28 **TWP** 8S **RNG** 22E **ACRES** 185

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

COMPLETION DATE 6/18/85 **PLUG BACK TOTAL DEPTH** 1370' **PACKER SET AT**

CASING SIZE **WT.** **L.D.** 4 1/2" **SET AT** 1370' **PERF.** 1316-1328 **TO**

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

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

PRODUCING THRU 4 1/2" casing **RESERVOIR TEMPERATURE F** 73° **BAR. PRESS - P_a** 14.4 Psia

GAS GRAVITY - G_g .5857 **% CARBON DIOXIDE** .20 **% NITROGEN** 6.46 **API GRAVITY OF LIQUID** 18.6

VERTICAL DEPTH (ft) 1370 **TYPE METER CONN.** Barton **(METER RUN) (PROVER) SIZE** 2"

SHUT-IN PRESSURE: SHUT IN July 5 1988 AT ? (AM)(PM) TAKEN July 10 1988 AT 9:30 (AM)(PM)

FLOW TEST: STARTED 1988 AT 9:30 (AM)(PM) TAKEN July 10 1988 AT 10 (AM)(PM)

*test data inconclusive due to water & oil content, pressure varied from 63-277 **OBSERVED DATA** **DURATION OF SHUT-IN** 120 HR.

SHUT-IN OR FLOW	ORIFICE SIZE in.	(METER) (PROVER) PRESSURE psig	DIFF. in. (h _w)(h _d)	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASING WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P _w)(P ₁)(P ₂) psia	psig	(P _w)(P ₁)(P ₂) psia		
SHUT-IN						320.0	334.4				
FLOW	0.50	253.0	-	73	-	253.0*	267.4				

RATE OF FLOW CALCULATIONS

COEFFICIENT (P ₁)(P ₂) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m h_w}$	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _L	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	GOR	G _m
4.388	267.4	-	1.3067	0.9871	1.0102	1530 *		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ ; (P_w)² = _____ ; P_d² = _____ % (P_c - 14.4) + 14.4 = _____ ; (P₁)² = 0.207 ; (P₂)² = _____

$\frac{(P_c)^2 - (P_w)^2}{(P_c)^2 - (P_d)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}$	LOG []	"n"	n x LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
CALCULATED BY IBM COMPUTER				0.85			3639 *

OPEN FLOW 3639 **Mcf d @ 14.65 psia** **DELIVERABILITY** **Mcf d @ 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 July 21 day of _____, 1988

Witness (if any)

For Company
LARRY CULBERTSON
Checked by

September 1985

12-21-85

CHAFFIN #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-- CHAFFIN
 Location-- NW SW 28
 Township-- 8 S
 Range-- 22 E
 County-- Leavenworth
 Gas Purchaser-- LAGGS (LLJV)
 Gas BTU's-- 931.0

INITIAL OPEN FLOW CALCULATION

Flowing Pressure on Prover (psi)-- 382.0
 Orifice Size (1 inch) and Coefficient-- 406.7
 Specific Gravity-- .5857
 Temperature of Gas (+459.69F)-- 533.69
 Open Flow (MCF/D) 8,787.3
 One-Quarter of Open Flow (MCF/D)-- 2,196.8
 Adjusted State Allowable (MCF/D)-- 2,196.8
 Shut-in Press. 496.0

CURRENT OPEN FLOW CALCULATION

Flowing Pressure on Prover (psi)-- 251.0
 Orifice Size (1 inch) and Coefficient-- 406.7
 Specific Gravity-- .5857
 Temperature of Gas (+459.69F)-- 533.69
 Open Flow (MCF/D)-- 5,773.9
 One-Quarter of Open Flow (MCF/D)-- 1,443.5
 Adjusted State Allowable (MCF/D)-- 1,443.5
 Current Production Rate (MCF/D)-- 230.0
 Shut-in Press. 341.0

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

10-14-86

September 1986

CHAFFIN #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-- Chaffin
 Location-- NW SW 28
 Township-- 8S
 Range-- 22E
 County-- Leavenworth
 Gas Purchaser-- LAGGS, Inc. (LLJV)
 Gas BTU's-- 931.0

INITIAL 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 OPEN FLOW CALCULATION

Flowing Pressure on Prover (psi)-- 131.4
 Shut-In Pressure on Prover (psi)-- 302
 Orifice Size (1/2 inch) and Coefficient--101.8
 Specific Gravity-- .5857
 Temperature of Gas (+459.69F)-- 533.69
 Open Flow (MCF/D)-- 756.6
 One-Quarter of Open Flow (MCF/D)-- 189.1
 Adjusted State Allowable (MCF/D)-- 189.1
 Current Production Rate (MCF/D)-- 124

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