

15-103-20284-00-00
STATE OF KANSAS - CORPORATION COMMISSION
 ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM O-2
 8-7-88

18
 P.9
 5-23-89

TYPE TEST: Deliverability Open Flow **TEST DATE:** April 20, 1989

COMPANY: Fairway Petroleum, Inc. **LEASE:** Beursken **WELL NO.:** 1

COUNTY: Leavenworth **LOCATION:** SW SW SE **SECTION:** 17 **TWP:** 8S **RNG:** 22E **ACRES:** 37

FIELD: Burgess **PIPELINE CONNECTION:** LAGGS INC.

COMPLETION DATE: 2/10/85 **PLUG BACK TOTAL DEPTH:** 1281 **PACKER SET AT:**

CASINO SIZE: WT. 4 1/2" I.D. SET AT 1281 **PERF. TO:** 1222-1224 & 1234-1237

TUBING SIZE: WT. I.D. SET AT **PERF. TO**

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

PRODUCING THRU: 4 1/2" casing **RESERVOIR TEMPERATURE F:** 75 **BAR. PRESS - P_a:** 14.4 Psia

GAS GRAVITY - G_g: 0.5905 **% CARBON DIOXIDE:** 0 **% NITROGEN:** 7.75 **API GRAVITY OF LIQUID:**

VERTICAL DEPTH (H): 1281 **TYPE METER CONN.:** Flange **(METER RUN)(PROVER) SIZE:** 2"

SHUT-IN PRESSURE: SHUT IN April 12, 1989 19 AT (AM)(PM) TAKEN 19 AT (AM)(PM)
 FLOW TEST: STARTED April 20, 1989 19 AT (AM)(PM) TAKEN 19 AT (AM)(PM)

DURATION OF SHUT-IN 2 months

SHUT-IN OR FLOW	ORIFICE SIZE In.	(METER) (PROVER) PRESSURE psig	DIFF. In. (h _w)(h _d)	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASED WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P _w)(P _i)(P _c) psia	psig	(P _w)(P _i)(P _c) psia		
SHUT-IN						300	314.4			2 months	
FLOW	.500	36	*19	75	75	*200	214.4			24	

* Rate fluctuated dramatically; fluid varied end results 0-244

RATE OF FLOW CALCULATIONS

COEFFICIENT (F _p)(F _g) Mcd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_{mthw}}$	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _L	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcd	RECEIVED STATE CORPORATION COMMISSION MAY 22 1989
1.219	50.4	31.0	1.3013	0.9852	1.0061	49	

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 98.8 ; (P_w)² = 46.0 ; P_d = _____ % (P_c - 14.4) + 14.4 = _____ ; (P_c)² = 0.207 ; (P_d)² = _____

$\frac{(P_c)^2 - (P_w)^2}{(P_c)^2 - (P_d)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2}$	LOG []	"n"	n x LOG []	ANTILOG x	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcd
	52.8			0.85			90

OPEN FLOW 90 Mcd @ 14.65 psia DELIVERABILITY Mcd @ 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 20 day of April, 1989.

[Signature]
 For Company

Witness (if any)

Checked by

September 1985

99
12-2-85

BEURSKEN #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-- BEURSKEN
 Location-- SW SE 17
 Township-- 8 S
 Range-- 22 E
 County-- Leavenworth
 Gas Purchaser-- LAGGS (LLJV)
 Gas BTU's-- 938.0

INITIAL OPEN FLOW CALCULATION

Flowing Pressure on Prover (psi)-- 186.0
 Orifice Size (1 inch) and Coefficient-- 406.7
 Specific Gravity-- .5905
 Temperature of Gas (+459.69F)-- 535.69
 Open Flow (MCF/D) 4,252.0
 One-Quarter of Open Flow (MCF/D)-- 1,063.0
 Adjusted State Allowable (MCF/D)-- 892.9

Shut-in Press. 491.0

CURRENT OPEN FLOW CALCULATION

Flowing Pressure on Prover (psi)-- 169.0
 Orifice Size (1 inch) and Coefficient-- 406.7
 Specific Gravity-- .5905
 Temperature of Gas (+459.69F)-- 535.69
 Open Flow (MCF/D)-- 3,863.5
 One-Quarter of Open Flow (MCF/D)-- 965.9
 Adjusted State Allowable (MCF/D)-- 811.3
 Current Production Rate (MCF/D)-- 280.0

Shut-in Press. 268.0

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

COMMENTS-- Unit is 33.6 acres. Under KCC order the spacing is 40 acres. All production units less than 40 acres must be proportionately reduced. 33.6 DIVIDED BY 40 is 84% (84% of 1,063 is 892.9) & (84% of 965.9 is 811.3).