

15-103-20284-00-00  
**STATE OF KANSAS - CORPORATION COMMISSION**

FORM O-2  
 8-7-58

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

TYPE TEST:  Deliverability  Open Flow TEST DATE: July 6, 1988

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

COUNTY: Leavenworth LOCATION: SW SW SE SECTION: 17 TWP: 8S RNG: 22E ACRES: 75

FIELD: Burgess PIPELINE CONNECTION: LAGGS, Inc.

COMPLETION DATE: 2/10/85 PLUG BACK TOTAL DEPTH: 1281' PACKER SET AT: \_\_\_\_\_

CASING SIZE: WT. L.D. SET AT 1281' PERF. 1222-1224 TO \_\_\_\_\_  
 4 1/2" 1234-1237

TUBING SIZE: WT. L.D. SET AT \_\_\_\_\_ PERF. \_\_\_\_\_ TO \_\_\_\_\_

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

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

GAS GRAVITY - G<sub>g</sub>: .5905 % CARBON DIOXIDE: 0 % NITROGEN: 7.75 API GRAVITY OF LIQUID: \_\_\_\_\_

VERTICAL DEPTH (ft): 1281 TYPE METER CONN.: Barton (METER RUN) (PROVER) SIZE: 2"

SHUT-IN PRESSURE: SHUT IN 154 July 5 19 88 AT 4 (AM)(PM) TAKEN July 6 19 88 AT 9:00 (AM)(PM)

FLOW TEST: STARTED \_\_\_\_\_ 19 \_\_\_\_\_ AT 9 (AM)(PM) TAKEN July 6 19 88 AT 10:00 (AM)(PM)

**OBSERVED DATA** DURATION OF SHUT-IN 17 HR.

SHUT-IN OR FLOW	ORIFICE SIZE in.	(METER) (PROVER) PRESSURE psia	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.
						psia	(P <sub>w</sub> )(P <sub>t</sub> )(P <sub>c</sub> ) psia	psia	(P <sub>w</sub> )(P <sub>t</sub> )(P <sub>c</sub> ) psia		
SHUT-IN						154.0	168.4				
FLOW	0.500	81.0	-	75	-	81.0	95.4				

**RATE OF FLOW CALCULATIONS**

COEFFICIENT (F <sub>p</sub> )(F <sub>o</sub> ) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_{mh}h_w}$	GRAVITY FACTOR F <sub>g</sub>	FLOWING TEMP. F <sub>L</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW R Mcfd	GOR	G <sub>m</sub>
4.388	95.4	-	1.3013	0.9852	1.0061	542		

**(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> = \_\_\_\_\_

$\frac{(P_c)^2 - (P_w)^2}{(P_c)^2 - (P_d)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2}$	LOG [ ]	"n"	n x LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
CALCULATED BY IBM COMPUTER				0.85			749

OPEN FLOW 749 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.

*Joseph M. Heit*  
 For Company  
*LARRY W. BERTSON*  
 Checked by

Witness (if any)

For Completion