

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

FORM O-3  
8-7-58

15-091-21600-0000

TYPE TEST:  Deliverability  Open Flow TEST DATE: 3/17/88

COMPANY Olathe Joint Ventures LEASE Baudendistel WELL NO. #2

COUNTY Johnson LOCATION 4060' fsl 2310' fel SECTION W2W2NE1/4 8 TWP - 14 S. - 23 E. ACRES

FIELD Olathe RESERVOIR Bartlesville Sd. PIPELINE CONNECTION Cottonwood Joint Ventures

COMPLETION DATE 9/17/85 PLUG BACK TOTAL DEPTH PACKER SET AT

CASING SIZE 2 7/8 WT. I.D. 2.5" SET AT @870 ft PERF. 778 TO 808

TUBING SIZE none WT. I.D. SET AT PERF. TO

TYPE COMPLETION (Describe) single gas TYPE FLUID PRODUCTION dry

PRODUCING THRU casing RESERVOIR TEMPERATURE F BAR. PRESS - P<sub>a</sub> 14.4 Psia

GAS GRAVITY - G<sub>e</sub> .5763 % CARBON DIOXIDE .77 % NITROGEN 3.56 API GRAVITY OF LIQUID

VERTICAL DEPTH (H) 793 ft TYPE METER CONN. flange (METER RUN)(PROVER) SIZE 2"

SHUT-IN PRESSURE: SHUT IN 3/14 19.88 AT 8 (AM)(PM) TAKEN 3/17 19.88 AT 10:01 (AM)(PM)  
 FLOW TEST: STARTED 3/17 19.88 AT 10:01 (AM)(PM) TAKEN 3/17 19.88 AT 10:33 (AM)(PM)

**OBSERVED DATA** DURATION OF SHUT-IN 72+ 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>i</sub> )(P <sub>c</sub> ) psia	psig	(P <sub>w</sub> )(P <sub>i</sub> )(P <sub>c</sub> ) psia		
SHUT-IN	.5	141.0					155.4			72+	
FLOW	.5	114.0	23"		42° F		128.4			.5	

**RATE OF FLOW CALCULATIONS**

COEFFICIENT (F <sub>h</sub> )(F <sub>d</sub> ) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m h_w}$	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>
1.219	128.4	54.34	1.318	1.018	1.010	89.76		

**(OPEN FLOW) (DELIVERABILITY) CALCULATIONS**

(P<sub>c</sub>)<sup>2</sup> = 24,149 ; (P<sub>w</sub>)<sup>2</sup> = 16,487 ; P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ ; (P<sub>c</sub>)<sup>2</sup> = 0.207 ; (P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

$\frac{(P_c)^2 - (P_d)^2}{(P_c)^2 - (P_w)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}$	LOG [ ]	"n"	n x LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
23,942	7662.6	3.1245	.4948	1.0	.4948	3.124	280.46

OPEN FLOW 280 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 18<sup>TH</sup> day of MARCH, 1988.

James K. Stegeman  
For Company

Witness (if any)

For Commission

Checked by

RECEIVED  
STATE CORPORATION COMMISSION

MAR 22 1988  
03-21-88  
CONSERVATION DIVISION  
Wichita, Kansas