STATE OF KANSAS — CORPORATION COMMISSION

FORM C-3
8-7-58

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

15-091-21668-00-00

TYPE TEST: ☐ Deliverability ☒ Open Flow TEST DATE: 3/16/88

COMPANY: Olathe Joint Ventures	LEASE: Baudendistel	WELL NO.: #4	
COUNTY: Johnson	LOCATION: 2454'fsl 990'fel	SECTION: NW,NE,SE 8	TWP: 14 S. RNG: 23 E. ACRES:
FIELD: Olathe	RESERVOIR: Bartlesville Sd.	PIPELINE CONNECTION: Cottonwood Joint Ventures	
COMPLETION DATE: 3/7/86	PLUG BACK TOTAL DEPTH:	PACKER SET AT: 800 ft	
CASING SIZE: 2 7/8" WT:	I.D.: 2.5"	SET AT: 800 ft	PERF.: open hole to 830 ft TO:
TUBING SIZE: none WT:	I.D.:	SET AT:	PERF.: TO:
TYPE COMPLETION (Describe): single gas	TYPE FLUID PRODUCTION: dry - traces of saltwater		
PRODUCING THRU: casing	RESERVOIR TEMPERATURE F:	BAR. PRESS — P_a: 14.4 Psia	
GAS GRAVITY — G_g: .5763	% CARBON DIOXIDE: .77%	%NITROGEN: 3.56%	API GRAVITY OF LIQUID:
VERTICAL DEPTH (H): 815 ft	TYPE METER CONN.: flange	(METER RUN)(PROVER) SIZE: 2"	

SHUT-IN PRESSURE: SHUT IN before 3/14 19 88 AT 8 (AM)(PM) TAKEN 3/16 19 88 AT 2:43 (AM)(PM)

FLOW TEST: STARTED 3/16 19 88 AT 2:43 (AM)(PM) TAKEN 3/16 19 88 AT 3:43 (AM)(PM)

OBSERVED DATA

DURATION OF SHUT-IN 72+ 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. psig	CASING WELLHEAD PRESS. $(P_w)(P_t)(P_c)$ psia	TUBING WELLHEAD PRESS. psig	TUBING WELLHEAD PRESS. $(P_w)(P_t)(P_c)$ psia	DURATION HOURS	LIQUID PROD. Bbls.
SHUT-IN	.5	146.0		50°F			160.4			72.0+	none
FLOW	.5	122.0	14"	41°F	ditto		136.4				none

RATE OF FLOW CALCULATIONS

COEFFICIENT $(F_b)(F_p)$ Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m x h_w}$	GRAVITY FACTOR F_g	FLOWING TEMP. FACTOR F_t	DEVIATION FACTOR F_{pv}	RATE OF FLOW R Mcfd	GOR	G_m
1.219	136.4	43.70	1.318	1.019	1.010	72.26		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2$ = 25,728 ; $(P_w)^2$ = 18,605 ; P_d = ____ % ; $(P_c - 14.4) + 14.4$ = ____ ; $(P_d)^2$ = $(P_a)^2$ = 0.207

$(P_c)^2-(P_a)^2$ or $(P_c)^2-(P_d)^2$	$(P_c)^2-(P_w)^2$	$\frac{P_c^2-P_a^2}{P_c^2-P_d^2}$ / $\frac{P_c^2-P_w^2}{P_c^2-P_w^2}$	LOG [ ]	"n"	n x LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
25,521	7123	3.583	.5542	1.0	.5542	3.5826	259

OPEN FLOW 259 Mcfd @ 14.65 psia DELIVERABILITY Mcfd @ 14.65 psia

RECEIVED
STATE CORPORATION COMMISSION
MAR 21 1988

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 18th day of MARCH, 1988.

03-21-88
CONSERVATION DIVISION
Wichita, Kansas

James F. Stegeman
For Company

Witness (if any)

For Commission

Checked by