

STATE OF KANSAS - CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST

FORM CG-1

15-103-21006-0000

TYPE TEST: Initial Annual Special TEST DATE: 5/13/88

COMPANY Kaw Corp. LEASE D. Fox WELL NO. 1

COUNTY Leavenworth LOCATION NW NW NW SECTION 12 TWP 9 RNG 21E ACRES

FIELD RESERVOIR McLouth PIPELINE CONNECTION Caporale

COMPLETION DATE 5/13/88 PLUG BACK TOTAL DEPTH 1450' PACKER SET AT

CASING SIZE 4 1/2" WT. 11.6 ID. SET AT 1455' PERF. 1419 TO 22

TUBING SIZE Nil WT. ID. SET AT PERF. TO

TYPE COMPLETION (Describe) Single Gas TYPE FLUID PRODUCTION Nil

PRODUCING THRU Casing RESERVOIR TEMPERATURE F BAR PRESS - P_a 14.4 Psia

GAS GRAVITY - G_g 0.596 % CARBON DIOXIDE .29 % NITROGEN 6.8 API GRAVITY OF LIQUID

VERTICAL DEPTH (H) 1420.5' GL TYPE METER CONN. (METER RUN (PROVER) SIZE 2"

REMARKS

SEP 27 1988
DQ-27-88
DIVISION

OBSERVED DATA

DURATION OF SHUT-IN HR.

RATE NO.	ORIFICE SIZE In.	(METER) (PROVER) PRESSURE psig	DIF. (h _w) (hd)	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASING WELL-HEAD PRESS.		TUBING WELL-HEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P _w)(P _i)(P _c) psia	psig	(P _w)(P _i)(P _c) psia		
SHUT IN						260.0	274.4				
1	1/8	242.4			68	242.4	256.8			83	-
2	3/16	214.8			67	214.8	229.2			17	-
3	7/32	198.2			66	198.2	212.6			83	-
4	1/4	180.0			66	180.0	194.4			83	-
5											

RATE OF FLOW CALCULATIONS

RATE NO.	COEFFICIENT (F _v)(F _p) Mc/d	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m \times h_w}$	GRAVITY FACTOR F _g	FLOWING TEMP FACTOR F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW Q Mc/d	GOR	Q _m
1	.2716	256.8		1.295	.9924	1.017	91		
2	.6237	229.2		1.295	.9933	1.015	187		
3	.8608	212.6		1.295	.9943	1.015	239		
4	1.115	194.4		1.295	.9943	1.013	283		
5									

PRESSURE CALCULATIONS

RATE NO.	P _i psia	P _c psia	P _w psia	(P _c) ² THOUSANDS	(P _w) ² THOUSANDS	PLOTING POINTS		% SHUT-IN $100 \left[\frac{P_w - P_a}{P_c - P_a} \right]$
						(P _c) ² - (P _w) ² THOUSANDS	Q Mc/d	
1			256.8	75.295	65.946	9.349	91	93.2
2			229.2	75.295	52.533	22.763	187	82.6
3			212.6	75.295	45.199	30.097	239	76.2
4			194.4	75.295	37.791	37.504	283	69.2
5								

INDICATED WELLHEAD OPEN FLOW 503 Mc/d @ 14.65 psia "n" = .8282

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 25th day of September, 1988.

ODYSSEY PETROLEUM SERVICES
P. O. Box 1172

MS Nathanael Consultant
For Company

Witness (if any)

Lee's Summit, MO 64063

Checked by

Kaw Corp
Fox #1
Multipoint Flow Test
May 13, 1988

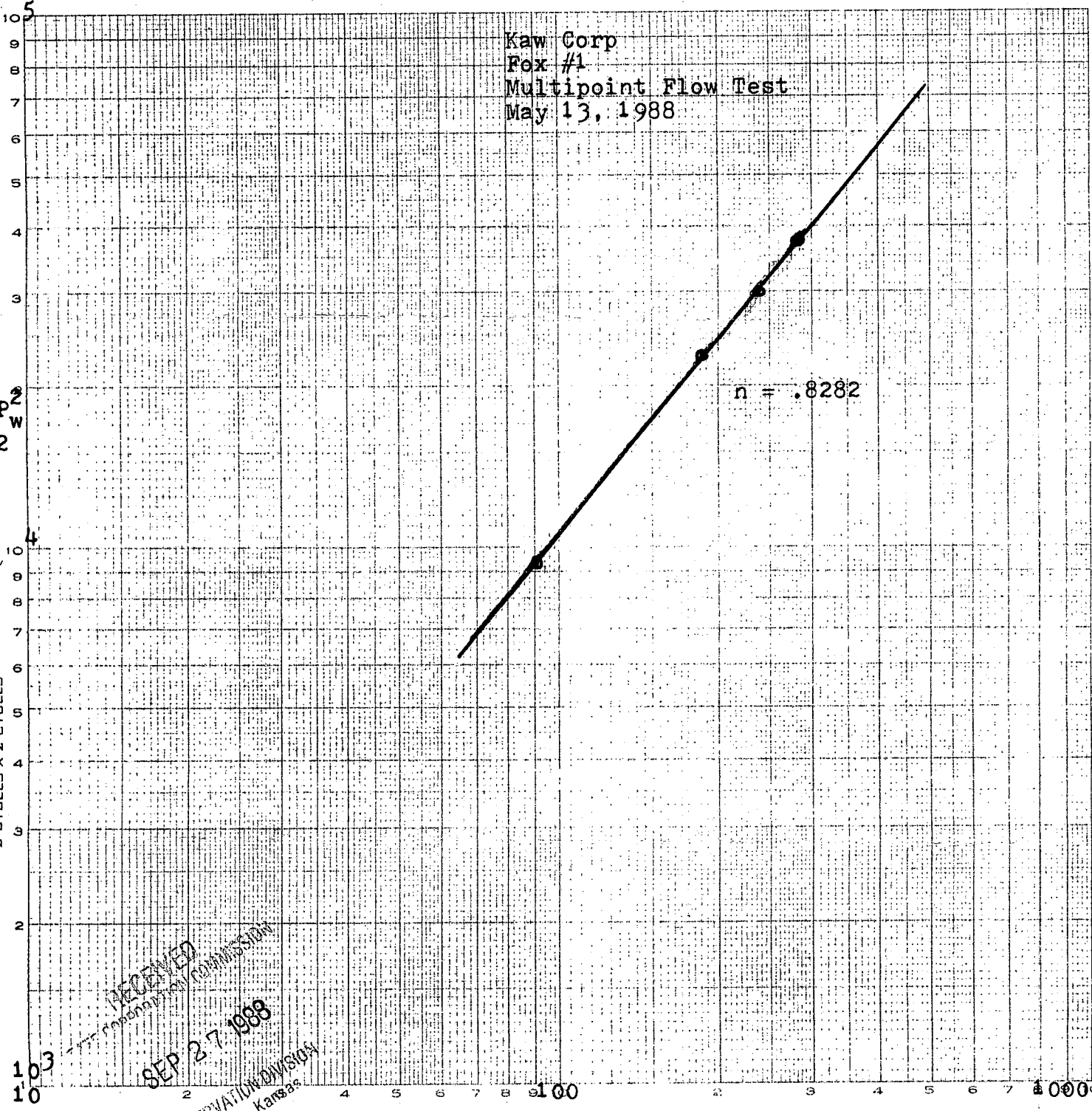
$n = .8282$

DIETZGEN CORPORATION
MADE IN U.S.A.

NO. 340-L22 DIETZGEN GRAPH PAPER
LOGARITHMIC
2 CYCLES X 2 CYCLES

RECEIVED
RESERVATION DIVISION
Wichita, Kansas
SEP 27 1988

Q GAS FLOW RATE (MCFD)



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STRATA LABS

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401 E. DOUGLAS, SUITE 515 WICHITA KS 67202
(316) 262-0002

EXTENDED NATURAL GAS ANALYSIS

COMPANY NAME: KAW CORPORATION LAB# 8802187
SAMPLE ID: D. FOX
SETT #: D. FOX
COUNTY: LEAVENWORTH LEGAL LOCATION: 12-9S-21E
DATE SAMPLED: JUNE 22 1988 SAMPLER: MB NATTRASS
SAMPLE PRESSURE: 250 TEMPERATURE (F): N/A
DATE ANALYZED: JULY 7 1988
QUALITY CONTROL DATE: JULY 7 1988

*****ANALYSIS*****CALCULATED AT 14.65 PSIA, AT 60 F**NORMALIZED*****

HYDROCARBONS	MOLAL%	LIQUID VOLUME%	BTU AMOUNT	GPM
METHANE	91.69	93.31	923.17	0
ETHANE	.12	.19	2.12	0
PROPANE	.24	.4	6.02	.07
ISO-BUTANE	.11	.22	3.57	.04
NORMAL-BUTANE	.14	.27	4.55	.04
ISO-PENTANE	.06	.13	2.39	.02
NORMAL-PENTANE	.07	.15	2.8	.03
3-METHYLPENTANE	*			
2,3-DIMETHYLBUTANE	*			
2-METHYLPENTANE	*			
CYCLOPENTANE	*			
NORMAL HEXANE	*			
HEXANES+	.14	.35	7.07	.06
NITROGEN	6.8	4.5	0	0
OXYGEN	0	0	0	0
CARBON DIOXIDE	.29	.29	0	0
HELIUM	.32	.19	0	0
HYDROGEN	.02		.06	
TOTALS*****	100	100	951.75	.26

BTU/FT³ DRY (IDEAL GROSS): 951.75
BTU/FT³ SATURATED (IDEAL GROSS): 935.97
IDEAL SPECIFIC GRAVITY: .596
COMPRESSIBILITY: .9983
GPM: .26

*=COMBINED WITH HEXANES+

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REGULATION COMMISSION

SEP 27 1988

REGULATION DIVISION
Wichita, Kansas

RESPECTFULLY SUBMITTED

Bruce A. Reed
STRATA LABS