

**KANSAS CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST**

FORM G-1
8-7-58

TYPE TEST: ☒ Initial ☐ Annual ☐ Special		TEST DATE: 8-23-1999	
COMPANY Castelli Exploration		LEASE Seibert (miss)	
		WELL NO. 2-31	
COUNTY Stafford	LOCATION S/2 SW SW	SECTION 31	TWP 24s 15
		RNG	ACRES 80
FIELD Farmington	RESERVOIR Mississippian	PIPELINE CONNECTION Lumen	
COMPLETION DATE 9-16-98	PLUG BACK DEPTH TOTAL DEPTH	PACKER SET AT 4129	
CASING SIZE 5.500	WT. 14.000	ID 5.012	SET AT 4288
		PERF. 4178	TO 4218
TUBING SIZE 2.375	WT. 4.700	ID 1.995	SET AT 4129
		PERF.	TO
TYPE COMPLETION (Describe) Perf-acid-frac		TYPE FLUID PRODUCTION	
PRODUCING THRU (Annulus/Tubing) tubing		RESERVOIR TEMPERATURE F 118	BAR PRESS - Pa 14.4 psia
GAS GRAVITY - Gg .618	% CARBON DIOXIDE .122	% NITROGEN 3.217	API GRAVITY OF LIQUID
VERTICAL DEPTH (H) 4198	TYPE METER CONN. flange		METER RUN SIZE 2.067
REMARKS			

OBSERVED SURFACE DATA

RATE NO.	ORIFICE SIZE in.	(METER) PRESSURE psig	DIFF. (h _w) (h _t)	FLOWING TEMP. t.	WELLHEAD TEMP. t.	CASING WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P _w) (P _t) (P _c) psia	psig	(P _w) (P _t) (P _c) psia		
SHUT-IN								455	469		
1.	.500	60.00	18.00	76				436	450	1.00	
2.	.500	62.00	33.00	78				420	434	1.00	
3.	.500	60.00	77.00	82				394	408	1.00	
4.	.500	60.00	98.00	83				370	384	1.00	

FLOW STREAM ATTRIBUTES

RATE NO.	COEFFICIENT (F _b) Mcfd	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW Q Mcfd	GOR	G _m
1.	1.220	74.4	36.60	1.2717	.9850	1.0054	56		.618
2.	1.221	76.4	50.21	1.2717	.9831	1.0055	77		.618
3.	1.221	74.4	75.69	1.2717	.9795	1.0052	115		.618
4.	1.220	74.4	85.39	1.2717	.9786	1.0052	130		.618

PRESSURE CALCULATION

RATE NO.	P _t 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 Mcfd	
1.	450.4	469.4	450.5	220.3	202.9	17.4	56.2	95.8
2.	434.4	469.4	434.6	220.3	188.8	31.5	77.1	92.3
3.	408.4	469.4	408.7	220.3	167.1	53.3	115.7	86.7
4.	384.4	469.4	384.9	220.3	148.1	72.2	130.3	81.4

INDICATED WELLHEAD OPEN FLOW

266

Mcfd @ 14.65 psia

"n" =

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 herein and that said report is true and correct. Executed this the _____ day of _____, 19 _____

Witness (if any)

For Company

For Commission

Checked by

GAS WELL BACK PRESSURE CURVE

WELL TESTER:

TEST DATE: 8-23-1999

Castelli Exploration

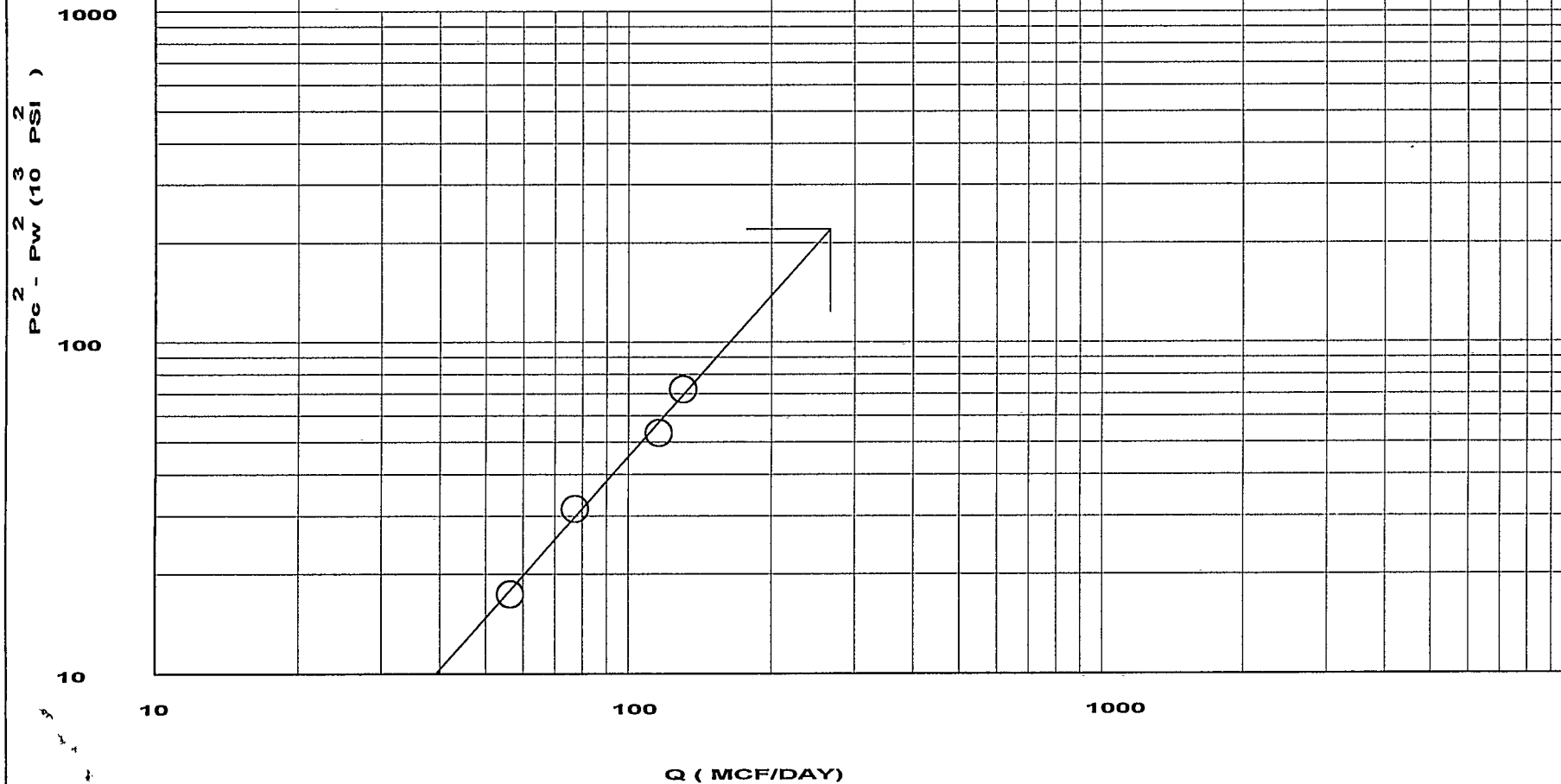
Selbert (miss) 2-31

31 24s 15

Stafford ,KS.

Exponent n: 0.6195

AOF: 266.



KANSAS CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST

FORM G-1
8-7-58

TYPE TEST: ☒ Initial ☐ Annual ☐ Special		TEST DATE: 8-23-1999	
COMPANY Castelli Exploration		LEASE Seibert(Lansing)	
COUNTY Stafford		WELL NO. 2-31	
LOCATION S/2 SW SW	SECTION 31	TWP 24s	RNG 15w
ACRES 160			
FIELD Farmington		PIPELINE CONNECTION Lumon	
RESERVOIR Lansing			
COMPLETION DATE 9-16-98	PLUG BACK DEPTH 4192	PACKER SET AT 4129	
TOTAL DEPTH 3922			
CASING SIZE 5.500	WT. 14.000	ID 5.012	SET AT 4288
PERF. 3919		TO 3924	
TUBING SIZE 2.375	WT. 4.700	ID 1.995	SET AT 4129
PERF. 3919		TO 3924	
TYPE COMPLETION (Describe) perf & acid		TYPE FLUID PRODUCTION	
PRODUCING THRU (Annulus/Tubing) tubing		RESERVOIR TEMPERATURE F BAR PRESS - Pa 14.4 psia	
GAS GRAVITY - Gg .631	% CARBON DIOXIDE .049	% NITROGEN 4.875	API GRAVITY OF LIQUID
VERTICAL DEPTH (H) 3922		TYPE METER CONN. flange	
		METER RUN SIZE 2.067	
REMARKS			

OBSERVED SURFACE DATA

RATE NO.	ORIFICE SIZE in.	(METER) PRESSURE psig	DIFF. (h _w) (h _t)	FLOWING TEMP. t.	WELLHEAD TEMP. t.	CASING WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P _w) (P _t) (P _c) psia	psig	(P _w) (P _t) (P _c) psia		
SHUT-IN						534	548	534	548		
1.	1.000	60.00	4.00	76		499	513	499	513	1.00	
2.	1.000	62.00	10.00	78		481	495	481	495	1.00	
3.	1.000	60.00	28.00	82		449	463	449	463	1.00	
4.	1.000	60.00	37.00	83		431	445	431	445	1.00	

FLOW STREAM ATTRIBUTES

RATE NO.	COEFFICIENT (F _D) Mcfd	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW Q Mcfd	GOR	G _m
1.	5.130	74.4	17.25	1.2589	.9850	1.0054	110		.631
2.	5.130	76.4	27.64	1.2589	.9831	1.0055	176		.631
3.	5.130	74.4	45.64	1.2589	.9795	1.0053	290		.631
4.	5.130	74.4	52.47	1.2589	.9786	1.0052	333		.631

PRESSURE CALCULATION

RATE NO.	Pt psia	Pc psia	Pw psia	(Pc) ² Thousands	(Pw) 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 Mcfd	
1.	513.4	548.4	513.4	300.7	263.6	37.2	110.3	93.4
2.	495.4	548.4	495.4	300.7	245.4	55.3	176.5	90.1
3.	463.4	548.4	463.4	300.7	214.7	86.0	290.2	84.1
4.	445.4	548.4	445.4	300.7	198.4	102.4	333.3	80.7

INDICATED WELLHEAD OPEN FLOW

1061

Mcfd @ 14.65 psia

"n" =

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 herein and that said report is true and correct. Executed this the _____ day of _____, 19 _____

Witness (if any)

For Company

For Commission

Checked by

GAS WELL BACK PRESSURE CURVE

WELL TESTER:

TEST DATE: 8-23-1999

Castelli Exploration
Selbert(Lansing) 2-31
31 24s 15w
Stafford ,KS.
Exponent n: 1.0570
AOF: 1061.

$P_c^2 - P_w^2$ (10 PSI)
1000
100

10

10

100

1000

Q (MCF/DAY)

