

KANSAS CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST

FORM G-1
8-7-58

TYPE TEST: <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		TEST DATE: 11/12/2001			
COMPANY Grady Bolding Corp		LEASE Leroy		WELL NO. 1	
COUNTY Barton	LOCATION C e/2 SE	SECTION 20 19s 1	TWP 1	RNG ACRES 160	
FIELD Heizer SW	RESERVOIR Conglomerate	PIPELINE CONNECTION Lumen Energy			
COMPLETION DATE	PLUG BACK DEPTH 3580	PACKER SET AT n/a			
	TOTAL DEPTH 3580				
CASING SIZE 4.500	WT. 10.500	ID 4.052	SET AT 3574	PERF. 3497	TO 3503
TUBING SIZE 2.375	WT. 4.700	ID 1.995	SET AT 3506	PERF.	TO
TYPE COMPLETION (Describe) Perforated		TYPE FLUID PRODUCTION water			
PRODUCING THRU (Annulus/Tubing) tubing		RESERVOIR TEMPERATURE F 120		BAR PRESS - Pa 14.4 psia	
GAS GRAVITY - G _g .727		% CARBON DIOXIDE .152		% NITROGEN 24.444	
API GRAVITY OF LIQUID					
VERTICAL DEPTH (H) 3500		TYPE METER CONN. flange		METER RUN SIZE 2	
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						600	614	372	386		
1.	.750	31.00	6.00	49		470	484	344	358	1.00	1.0
2.	.750	31.00	9.00	51		449	463	339	353	1.00	
3.	.750	31.00	11.00	50		406	420	284	298	1.00	
4.	.750	32.00	15.00	50		332	346	262	276	1.00	

FLOW STREAM ATTRIBUTES

RATE NO.	COEFFICIENT (F _b) Mcfd	(METER) 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 Mcfd	GOR	G _m
1.	2.779	45.4	16.50	1.1728	1.0107	1.0034	54	2273.2	1.941
2.	2.779	45.4	20.21	1.1728	1.0088	1.0034	66		.727
3.	2.779	45.4	22.35	1.1728	1.0098	1.0034	73		.727
4.	2.790	46.4	26.38	1.1728	1.0098	1.0035	87		.727

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.	358.4	614.4	484.4	377.5	234.6	142.8	54.6	78.3
2.	353.4	614.4	463.4	377.5	214.7	162.7	66.7	74.8
3.	298.4	614.4	420.4	377.5	176.7	200.8	73.8	67.7
4.	276.4	614.4	346.4	377.5	120.0	257.5	87.5	55.3

INDICATED WELLHEAD OPEN FLOW 120 Mcfd @ 14.65 psia "n" = .810

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 29 day of Nov, 20 01

Witness (if any)

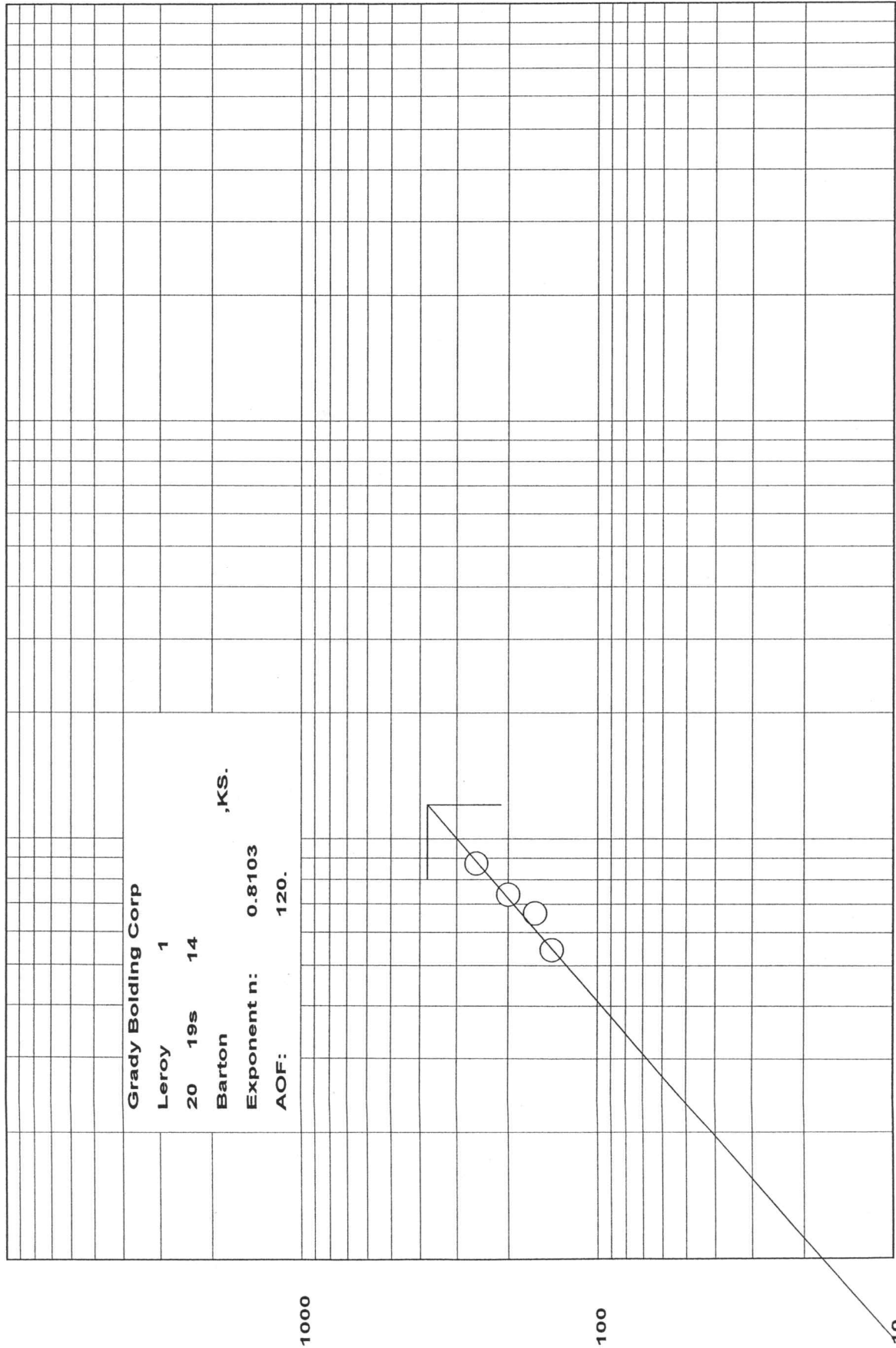
For Company

For Commission

Checked by

WELL TESTER: Trilobite Testing
 TEST DATE: 11/12/2001

GAS WELL BACK PRESSURE CURVE



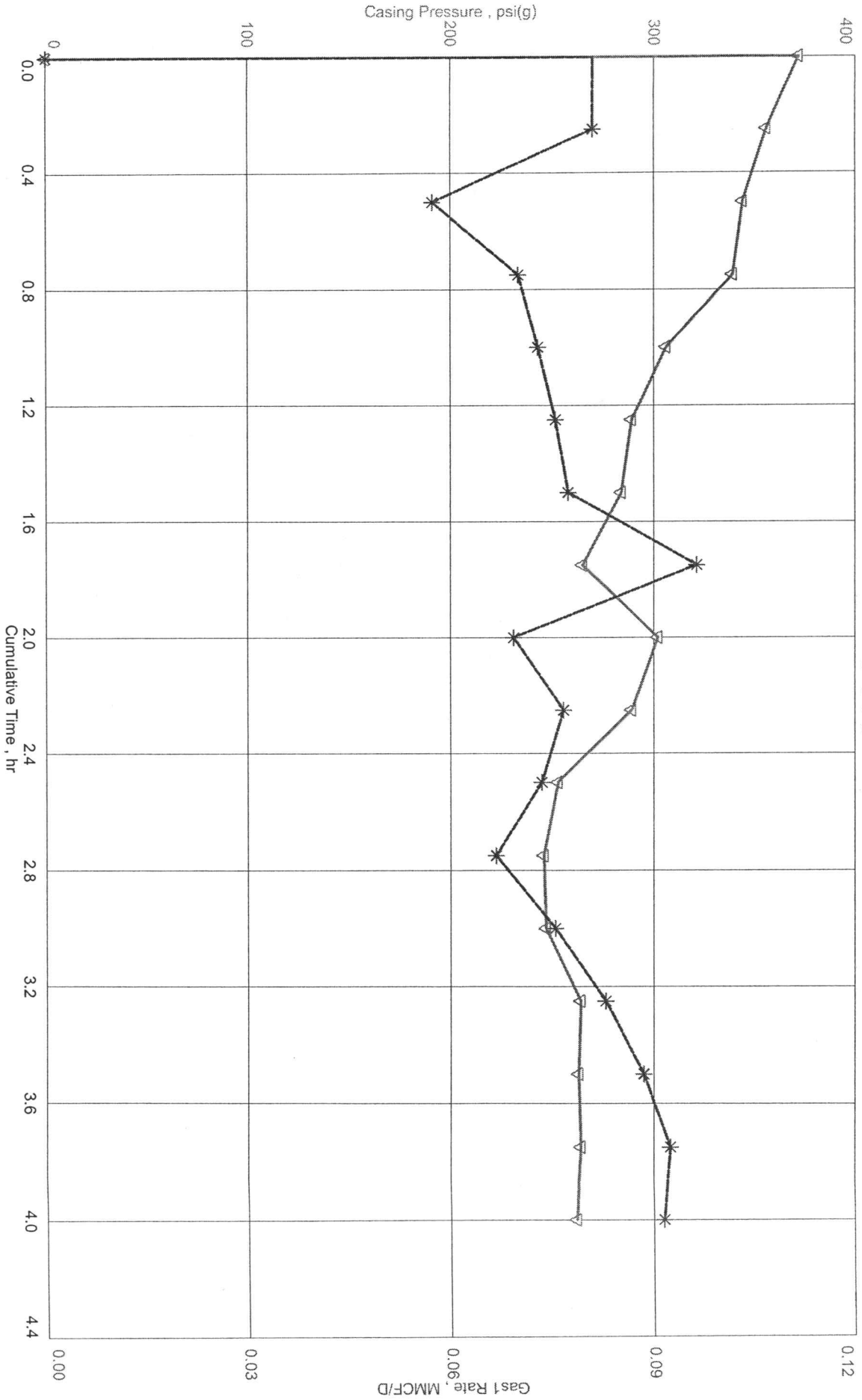
Grady Bolding Corp
 Leroy 1
 20 19s 14
 Barton ,KS.
 Exponent n: 0.8103
 AOF: 120.

Pc - Pw (10 PSI)
 2
 2
 3
 2

Q (MCF/DAY)

Grady Bolding Corp
 c e/2 SE 20 19s 14w Barton KS
 Start Test Date: 2001/11/12
 Final Test Date: 2001/11/13

Plot



Leroy #1

FieldNotes

Grady Bolding Corp
 c e/2 SE 20 19s 14w Barton KS
 Start Test Date: 2001/1/1/12
 Final Test Date: 2001/1/1/13

Leroy #1

Field Measurements

Date	Clock Time	Comments	Casing		Tubing		Static1		Diff1		Meter1	Gas1	Measured	Water1					
			Pres	psi(g)	Pres	psi(g)	Pres	psi(g)	Pres	psi(g)	in of H2O	°F	Rate	MMCF/D	in	Rate	bb/d		
1	2001/1/1/12	10:00:00																	
2		10:00:00																	
3		10:15:00																	
4		10:30:00																	
5		10:45:00																	
6		11:00:00																	
7		11:00:00																	
8		11:15:00																	
9		11:30:00																	
10		11:45:00																	
11		12:00:00																	
12		12:00:00																	
13		12:15:00																	
14		12:30:00																	
15		12:45:00																	
16		13:00:00																	
17		13:00:00																	
18		13:15:00																	
19		13:30:00																	
20		13:45:00																	
21		14:00:00																	
22		14:00:00																	
23	2001/1/1/13	17:15:00																	
24		17:15:00																	

2001/1/1/12 10:00:00 To 2001/1/1/13 17:15:00
 Gas 0.013 Cum. 0.013 MMCF
 Water 1.670 Cum. 1.670 bbl

