

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:	1/22/2001						
COMPANY	Horsehoe Operating Inc			LEASE	Parsens	WELL NO.	2				
COUNTY	HAMILTON	LOCATION	NE NE	SECTION	27 23S 41W	TWP	RNG	ACRES	160		
FIELD	Bradshaw	RESERVOIR	Winfield	PIPELINE CONNECTION	Oneok						
COMPLETION DATE	10/22/00	PLUG BACK DEPTH	2505			PACKER SET AT					
		TOTAL DEPTH									
CASING SIZE	4.500	WT.	10.500	ID	4.000	SET AT	2507	PERF.	2466	TO	2475
TUBING SIZE	2.375	WT.	4.700	ID	1.995	SET AT		PERF.		TO	
TYPE COMPLETION (Describe)	Gas					TYPE FLUID PRODUCTION	water				
PRODUCING THRU (Annulus/Tubing)	annulus					RESERVOIR TEMPERATURE F	BAR PRESS - Pa				
							14.4 psia				
GAS GRAVITY - Gg	.792		% CARBON DIOXIDE	.016		% NITROGEN	35.060		API GRAVITY OF LIQUID		
VERTICAL DEPTH (H)	2471					TYPE METER CONN.	flange			METER RUN SIZE	2.067
REMARKS											

OBSERVED SURFACE DATA

RATE NO.	ORIFICE SIZE in.	(METER) PRESSURE psig	DIFF. (h <sub>w</sub> ) (h <sub>t</sub> )	FLOWING TEMP. t.	WELLHEAD TEMP. t.	CASING WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>c</sub> ) psia	psig	(P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>c</sub> ) psia		
SHUT-IN						111	125				
1.	.750	40.20	8.20	37		106	120			.50	
2.	.750	41.30	21.90	41		102	116			.50	
3.	.750	42.00	37.53	44		96	110			.50	
4.	.750	43.77	65.45	46		86	100			.50	

FLOW STREAM ATTRIBUTES

RATE NO.	COEFFICIENT (F <sub>b</sub> ) 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 <sub>m</sub>
2.	2.780	55.7	34.93	1.1237	1.0188	1.0047	111		.792
3.	2.779	56.4	46.01	1.1237	1.0148	1.0047	146		.792
4.	2.779	58.2	61.70	1.1237	1.0131	1.0048	196		.792

PRESSURE CALCULATION

RATE NO.	Pt psia	Pc psia	Pw psia	(Pc) <sup>2</sup> Thousands	(Pw) <sup>2</sup> Thousands	PLOTING POINTS		% SHUT-IN 100 $\left[ \frac{P_w - P_a}{P_c - P_a} \right]$
						(Pc) <sup>2</sup> - (Pw) <sup>2</sup> Thousands	Q Mcfd	
1.	120.4	125.4	120.5	15.7	14.5	1.2	67.9	95.5
2.	116.4	125.4	116.5	15.7	13.6	2.1	111.7	92.0
3.	110.4	125.4	110.7	15.7	12.2	3.5	146.5	86.7
4.	100.4	125.4	100.9	15.7	10.2	5.5	196.1	77.9

INDICATED WELLHEAD OPEN FLOW

411

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 9 day of Feb, 2001

Witness (if any)

For Company

For Commission

Checked by

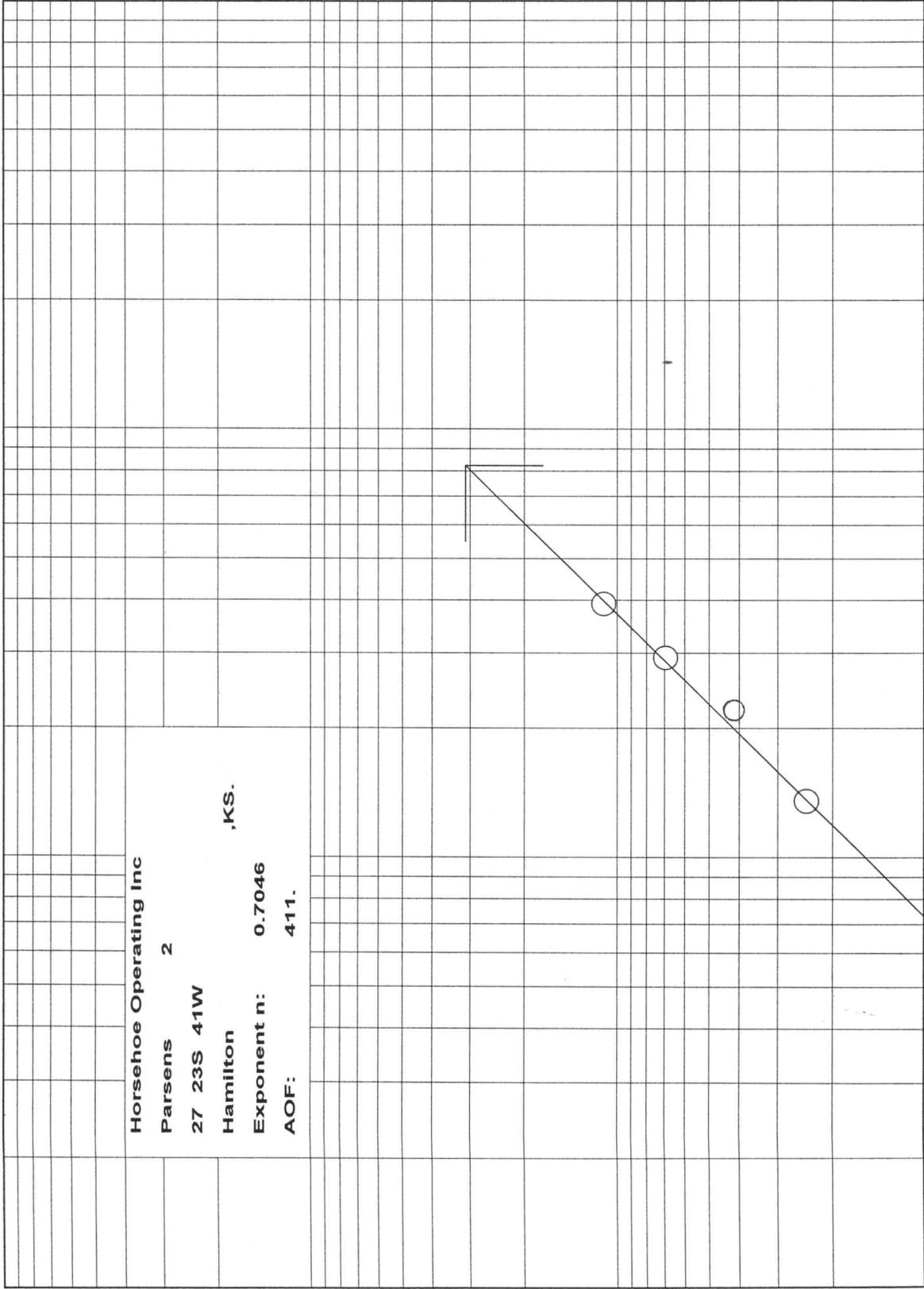
WELL TESTER: 1/22/2001  
TEST DATE:

GAS WELL BACK PRESSURE CURVE

Horsehoe Operating Inc  
Parsens 2  
27 23S 41W  
Hamilton, KS.  
Exponent n: 0.7046  
AOF: 411.

50  
5  
0.50  
 $P_c - P_w$  (10 PSI)

500  
50  
Q ( MCF/DAY)



# FieldNotes

## Field Measurements

Date	Time	Comments	Casing Pres	Static1 Pres	Diff1 Pres	Meter1 Temp	Gas1 Rate
yyyy/mm/dd	hh:mm:ss		psi(g)	psi(g)	in of H2O	°F	MMCF/D
1	2001/01/22	12:55:00					
2		12:55:00	110.09	-0.91	0.00	0.00	0.000
3		13:05:00	109.09	38.29	4.05	28.20	0.047
4		13:15:00	107.09	39.43	8.40	34.60	0.068
5		13:25:00					
6		13:25:00	106.00	40.23	8.17	36.88	0.068
7		13:35:00	105.00	40.65	16.75	38.60	0.097
8		13:45:00	104.00	41.50	22.40	39.83	0.113
9		13:55:00					
10		13:55:00	102.00	41.30	21.87	41.30	0.111
11		14:05:00	99.00	42.52	40.58	41.70	0.153
12		14:15:00	98.00	42.25	39.42	43.38	0.150
13		14:25:00					
14		14:25:00	96.00	41.96	37.53	44.90	0.146
15		14:35:00	92.00	43.66	61.13	46.74	0.189
16		14:45:00	89.00	43.71	77.01	47.34	0.213
17		14:55:00					
18		14:55:00	86.00	43.77	65.45	46.63	0.196
19	2001/01/23	17:35:00					
20		17:35:00	85.00	42.88	16.57	47.34	0.098

2001/01/22 12:55:00 To 2001/01/23 17:35:00  
 Gas 0.010 Cum. 0.010 MMCF



