

KANSAS CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST

FORM G-1
8-7-58

TYPE TEST: ☒ Initial ☐ Annual ☐ Special		TEST DATE: 3-26-01	
COMPANY Horsehoe Operating Inc		LEASE Buck	
COUNTY Hamilton		WELL NO. 1-3	
LOCATION 1980 FNL 1250 F	SECTION 3 23s 40w	TWP RNG	ACRES 640
FIELD Bradshaw	RESERVOIR Winfield	PIPELINE CONNECTION Duke	
COMPLETION DATE 2-25-01	PLUG BACK DEPTH TOTAL DEPTH	PACKER SET AT	
CASING SIZE 4.500	WT. 10.500	ID 4.090	SET AT 2676
TUBING SIZE 2.380	WT. 4.700	ID 1.995	SET AT
TYPE COMPLETION (Describe) Gas well		TYPE FLUID PRODUCTION	
PRODUCING THRU (Annulus/Tubing) Tubing		RESERVOIR TEMPERATURE F 90	
GAS GRAVITY - Gg .755		% CARBON DIOXIDE .026	
VERTICAL DEPTH (H) 2681		TYPE METER CONN. Flange	
REMARKS		METER RUN SIZE 2.067	

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						227	241				
1.	.625	52.80	10.80	34		205	219			.50	
2.	.625	55.10	20.80	36		191	205			.50	
3.	.625	56.30	22.50	38		178	192			.50	
4.	.625	57.20	27.90	41		167	181			.50	

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.	1.910	67.2	26.94	1.1508	1.0260	1.0065	61		.755
2.	1.914	69.5	38.02	1.1508	1.0239	1.0066	86		.755
3.	1.914	70.7	39.88	1.1508	1.0218	1.0066	90		.755
4.	1.914	71.6	44.69	1.1508	1.0188	1.0066	100		.755

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.	14.4	241.4	219.4	58.3	48.1	10.1	61.1	90.3
2.	14.4	241.4	205.4	58.3	42.2	16.1	86.3	84.1
3.	14.4	241.4	192.4	58.3	37.0	21.3	90.4	78.4
4.	14.4	241.4	181.4	58.3	32.9	25.4	101.0	73.6

INDICATED WELLHEAD OPEN FLOW

157

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 30 day of March, 2001

Witness (if any)

For Commission

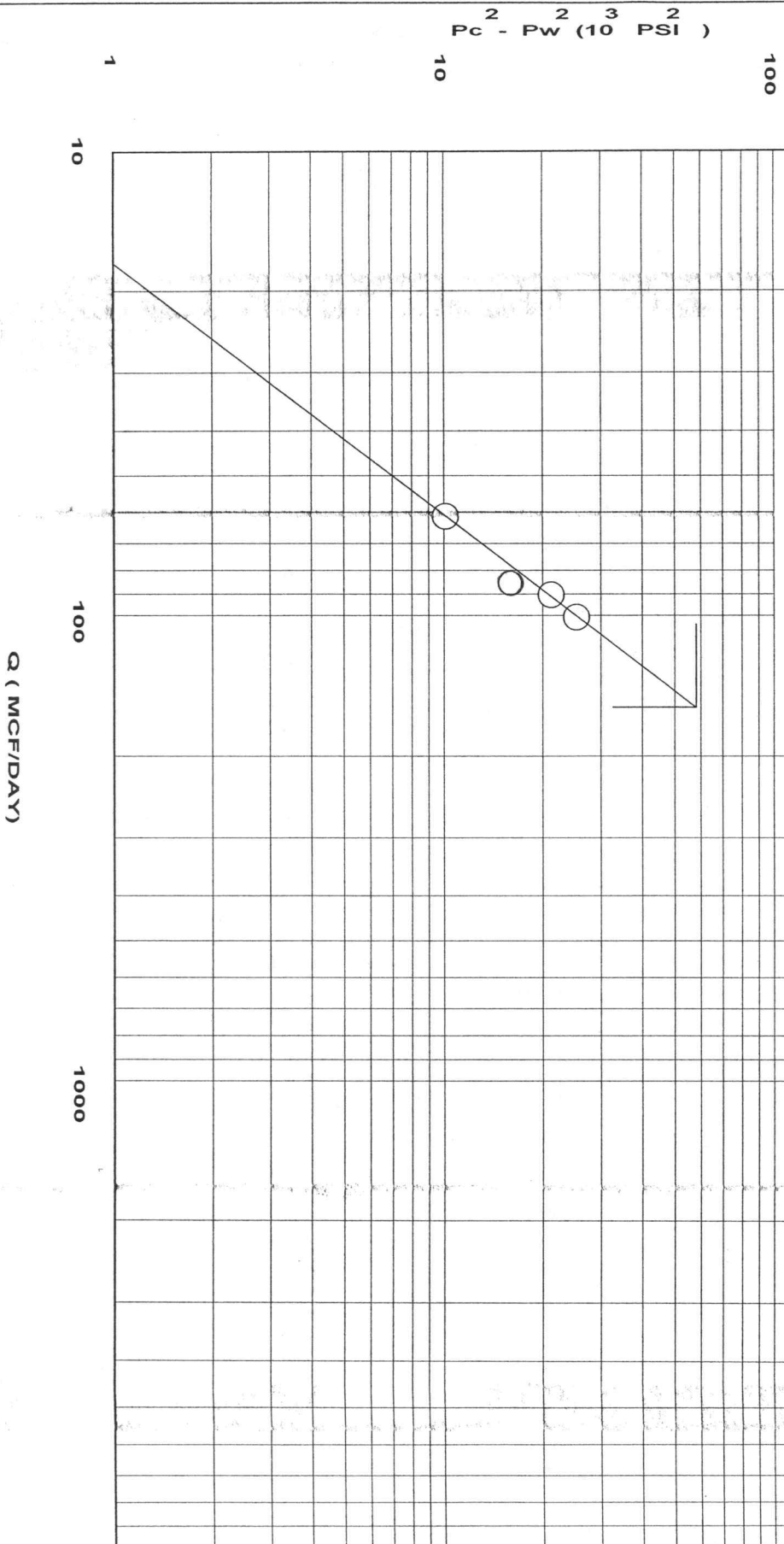
For Company

Checked by

GAS WELL BACK PRESSURE CURVE

WELL TESTER: 3-26-01 @ 13:45
 TEST DATE: 3-26-01

Horsehoe Operating Inc
 Buck 1-3
 3 23s 40w
 Hamilton
 Exponent n: 0.5415
 AOF: 157.
 ,KS.



Company: Horseshoe Operating
 Address: 500 W Texas Ste 1190 Midland TX 79701
 Wellname: Buck

Legal: Sec: 3 Twp: 23^S Rge: 40^W

Formation: Winfield Field/Pool: Bradshaw County: Hamilton St: KS.

Casing size: 4.5 Feet of: Wt: Meter run size: 2" SI: 227

Tubing Size: 2 7/8 Feet of: Wt: Orif (in): .625 95% 215.6

TD: Plugged back depth: Packer depth: 90% 204.3

Type Test: Tap Type: Gravity: 85% 192.9

Type Completion: Producing through: 80% 181.6

Date	Clk Tim	Tbg Pres	Csg Pres	Diff	Temp	Static/Prover	Wat Vol1	Oil Vol	Comment
mm/dd	clock	psi	psi	in of H2O	F	PSI	inch	inch	
3-23	9:30	Shut in	F/ Test						
3-26	1315		227	13.5	34	51.6			
1 pt	1345		205	10.8	34	52.8			2" Wtr Line
2 pt	1415		191	20.8	36	55.1			to Pit
3 pt	1445		178	22.5	38	56.3			
4 pt	15:15		167	21.9	41	57.2			
									@1500 Well started
									to make water
3-27	13:30		141	10.6	42.7	53.7			
									4PT 295
									1PT 115
									Gas 60
									miles 89.25 ³ / ₂₇
									559.25

Date	Miles	Name	Date	Miles	Name	Date	Miles	Name
3-26		Rod						
3-27		Rod						