

KANSAS CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST

FORM G-1
8-7-58

TYPE TEST: ☒ Initial ☐ Annual ☐ Special		TEST DATE: 11/16/99	
COMPANY Horseshoe Operating Inc		LEASE Floyd	
COUNTY Greeley		WELL NO. 3	
LOCATION C SE SW SW	SECTION 24 19s 40w	TWP RNG	ACRES 640
FIELD Bradshaw	RESERVOIR Winfield	PIPELINE CONNECTION	
COMPLETION DATE	PLUG BACK DEPTH 2869	PACKER SET AT	
CASING SIZE 4.500	WT. 10.500	ID 4.052	SET AT 2568
TUBING SIZE 2.375	WT. 4.700	ID 1.995	SET AT 2846
TYPE COMPLETION (Describe) Single-Gas		TYPE FLUID PRODUCTION Water	
PRODUCING THRU (Annulus/Tubing) casing		RESERVOIR TEMPERATURE F 95	BAR PRESS - Pa 14.4 psia
GAS GRAVITY - Gg .770	% CARBON DIOXIDE .047	% NITROGEN 31.109	API GRAVITY OF LIQUID
VERTICAL DEPTH (ft) 2841	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						75	88			.50	
1.	1.000	39.00	4.00	74		71	84			.50	
2.	1.000	39.00	10.00	74		68	81			.50	
3.	1.000	41.00	12.00	70		65	78			.50	
4.	1.000	41.00	24.00	66		61	74			.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.	5.073	52.4	14.48	1.1396	.9868	1.0034	82		.770
2.	5.073	52.4	22.89	1.1396	.9868	1.0034	131		.770
3.	5.073	54.4	25.55	1.1396	.9905	1.0036	146		.770
4.	5.073	54.4	36.13	1.1396	.9943	1.0037	208		.770

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.	84.4	88.4	84.5	7.8	7.1	.7	82.9	94.8
2.	81.4	88.4	81.7	7.8	6.7	1.1	131.0	91.1
3.	78.4	88.4	78.8	7.8	6.2	1.6	146.8	87.2
4.	74.4	88.4	75.2	7.8	5.6	2.2	208.5	82.3

INDICATED WELLHEAD OPEN FLOW

567

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 24 day of Nov, 19 99

Witness (if any)

For Commission

Original - Wichita
Copy - Dodge
Copy - Horseshoe Operating Co

Checked by

GAS WELL BACK PRESSURE CURVE

WELL TESTER:

TEST DATE: 11/16/99

Horsehoe Operating Inc

Floyd 3

24 19s 40w

Greeley ,KS.

Exponent n: 0.7868

AOF: 567.

$P_c^2 - P_w^2$ (10 PSI)²

10

1

0.10

10

100

1000

Q (MCF/DAY)

