KANSAS CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST

Farhart

FORM G-1
8-7-58

TYPE TEST: ☒ Initial ☐ Annual ☐ Special				TEST DATE: 1-25-2001	
COMPANY			LEASE		WELL NO.
American Warrior			Wells		1-13
COUNTY	LOCATION		SECTION	TWP RNG	ACRES
Ness	C SW		13	18S 21W	160
FIELD	RESERVOIR		PIPELINE CONNECTION		
	Chase				
COMPLETION DATE		PLUG BACK DEPTH			PACKER SET AT
9/27/99		TOTAL DEPTH	2414		
CASING SIZE	WT.	ID	SET AT	PERF.	TO
4.500	9.500	4.090	2450	2217	2253
TUBING SIZE	WT.	ID	SET AT	PERF.	TO
2.375	4.700	1.995	2350		
TYPE COMPLETION (Describe)			TYPE FLUID PRODUCTION		
Perforated			water		
PRODUCING THRU (Annulus/Tubing)			RESERVOIR TEMPERATURE F		BAR PRESS - Pa
annulus					14.4 psia
GAS GRAVITY - Gg	% CARBON DIOXIDE		% NITROGEN		API GRAVITY OF LIQUID
.787	.807		52.049		
VERTICAL DEPTH (H)			TYPE METER CONN.		PROVER SIZE
2235					2"
REMARKS					

OBSERVED SURFACE DATA

RATE NO.	ORIFICE SIZE in.	(PROVER) PRESSURE psig	DIFF. (h_w) (h_t)	FLOWING TEMP. t.	WELLHEAD TEMP. t.	CASING WELLHEAD PRESS. psig	CASING WELLHEAD PRESS. (P_w) (P_t) (P_c) psia	TUBING WELLHEAD PRESS. psig	TUBING WELLHEAD PRESS. (P_w) (P_t) (P_c) psia	DURATION HOURS	LIQUID PROD. Bbls.
SHUT-IN						598	612				
1.	.250	17.00		40		566	580			.50	
2.	.250	21.00		38		534	548			.50	
3.											
4.											

FLOW STREAM ATTRIBUTES

RATE NO.	COEFFICIENT (F_p) Mcfd	(PROVER) 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.	1.120	31.4	31.40	1.1272	1.0198	1.0013	40		.787
2.	1.120	35.4	35.40	1.1272	1.0218	1.0016	45		.787
3.									
4.									

PRESSURE CALCULATION

RATE NO.	Pt psia	Pc psia	Pw psia	$(Pc)^2$ Thousands	$(Pw)^2$ Thousands	PLOTTING POINTS $(P_c)^2 - (P_w)^2$ Thousands	PLOTTING POINTS Q Mcfd	% SHUT-IN $100 \left[\frac{Pw - Pa}{Pc - Pa}\right]$
1.	580.4	612.4	580.4	375.0	336.9	38.2	40.5	94.6
2.	548.4	612.4	548.4	375.0	300.7	74.3	45.7	89.3
3.	532.4	612.4	532.4	375.0	283.5	91.6	110.3	86.6
4.		612.4		375.0		375.0		

INDICATED WELLHEAD OPEN FLOW 61 Mcfd @ 14.65 psia "n" =

The undersigned authority, on behaf 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

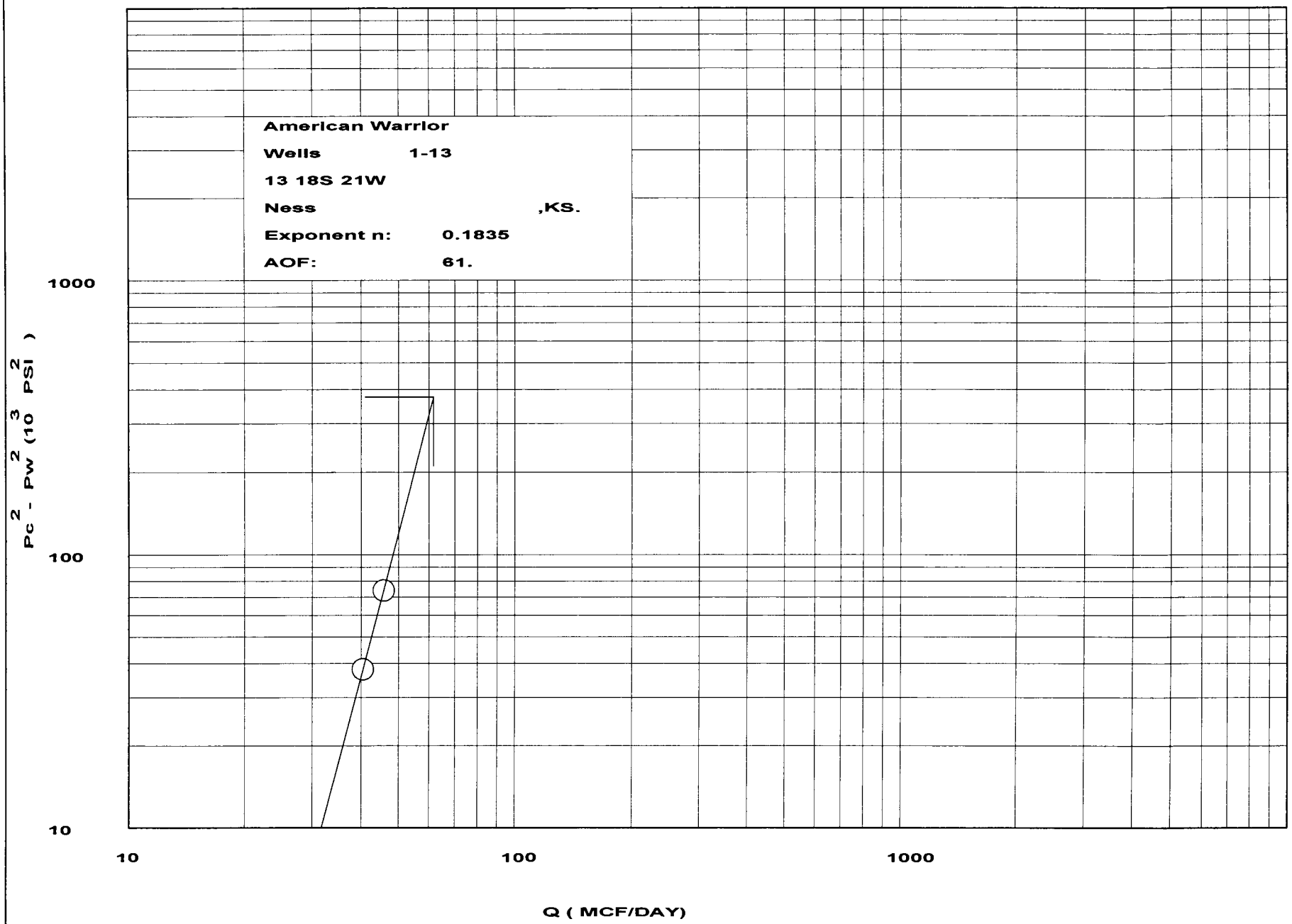
For Commission

Checked by

WELL TESTER: 1-25-01 @ 11:30

GAS WELL BACK PRESSURE CURVE

TEST DATE: 1-25-2001



325-7161

Company: AMERICAN WARRIOR

Address:

Wellname: Wells 1-13

Legal: Sec: Twp: Rge:

Formation: Field/Pool: County: St:

Casing size: 4 1/2	Feet of:	Wt:	Meter run size:	SI: 598
Tubing Size: 2 3/8	Feet of:	Wt:	Orif (in):	95% 568
TD:	Pluged back depth:	Packer depth:		90% 538
Type Test:	Tap Type:	Gravity:		85% 508
Type Completion:	Producing through:			80% 778

Date	Clk Tim	Tbg Pres	Csg Pres	Diff	Temp	Static/Prover	Wat Vol1	Oil Vol	Comment
mm/dd	clock	psi	psi	in of H20	F	PSI	inch	inch	
1/25	11:30		~~598~~ 598	1/4"					Shut in
	11:40		575		40	29			
	11:50		571		40	17			
	12:00		566		40	17			1st pt
	12:10		557		40	21			
	12:20		546		38	21			
	12:30		534		38	20			2nd pt
	12:40		511		40	26			
	12:50		487		40	28			
	1:00		468		42	27			3rd pt.
	1:10								
	1:20								
	1:30								
							Sales		

Date	Miles	Name	Date	Miles	Name	Date	Miles	Name

STATE OF KANSAS - CORPORATION COMMISSION **FORM CG-2 Rev.**

MULTIPOINT BACK PRESSURE TEST

TYPE TEST: Initial Annual Special TEST DATE:

COMPANY: American Warrior, Inc.		LEASE: Wells		WELL NO: 1-13
COUNTY: Ness	LOCATION: C SW	SECTION: 13	TWP: 18 S	RNG (E/W): 21 W
ACRES: 160				
API WELL NUMBER: 15-135-24070		RESERVOIR: Chase		PIPELINE CONNECTION:
COMPLETION DATE: September 27, 1999		PLUG BACK TOTAL DEPTH: 2414		PACKER SET AT:
CASING SIZE: 4 1/2	WT: 9.5	ID: 4.090	SET AT: 2436	PERF: 2217-2221, 2247-2253 TO:
TUBING SIZE: 2 3/8	WT: 4.7	ID: 1.995	SET AT: 2350	PERF: TO:
TYPE COMPLETION (Describe): Perforated		TYPE FLUID PRODUCTION:		
PRODUCING THRU:		RESERVOIR TEMPERATURE °F:		BAR PRESS P_a 14.4 Psia
GAS GRAVITY - G_g:		% CARBON DIOXIDE:	% NITROGEN:	API GRAVITY OF LIQUID:
VERTICAL DEPTH OF:		TYPE METER CONNECTION:		METER RUN DIAMETER:

REMARKS:

OBSERVED DATA — DURATION OF SHUT-IN: HR

RATE NO.	ORIFICE SIZE in	CASING (PROVER) PRESSURE Psig	DIFF. (h_w) (h_d)	FLOWING TEMP t	WELL-HEAD TEMP. t	CSG WELLHEAD PRESS. Psig	CSG WELLHEAD PRESS. $(P_c)(P)(P_a)$ Psia	TBG WELLHEAD PRESS. Psig	TBG WELLHEAD PRESS. $(P_t)(P)(P_a)$ Psia	FLOW DURATION (HOURS)	LIQUID PROD. Bbls.
SHUT-IN											
1											
2											
3											
4											
5											

RATE OF FLOW CALCULATIONS

RATE NO.	COEFFICIENT $(F_b)(F_p)$ Mcfd	(METER) (PROVER) PRESSURE Psia	PRESS 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 (CF/BBL)	G_m
1									
2									
3									
4									
5									

PRESSURE CALCULATION

RATE NO.	P_c Psia	P_t Psia	P_a Psia	$(P_c)^2$ THOUSANDS	$(P_t)^2$ THOUSANDS	FLOWING POINTS $(P_c)^2 - (P_t)^2$ THOUSANDS	FLOWING POINTS Q Mcfd	% SHUT-IN LOG $\frac{(P_c)^2 - (P_t)^2}{(P_c)^2 - (P_a)^2}$
1								
2								
3								
4								
5								

INDICATED WELLHEAD OPEN FLOW: 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 (Rev. 10/98)