

**KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST**

FORM G-2
(Rev. 8/98)

TYPE TEST:

- Open Flow
 Deliverability

TEST DATE: 1-23-15 API No. 15-187-20392

Company American Warrior		Lease Williams			Well Number 3	
County Stanton	Location C-SW-NE	Section 27-30S-41W	TWP	RNG(E/W)	Acres Attributed	
Field Beauchamp	Reservoir Morrow		Gas Gathering Connection Redwing			
Completion Date 3-1-1987	Plug Back Total Depth 5462		Packer Set at			
Casing Size 4.500	Weight 10.500	Internal Diameter 4.052	Set at 5208	Perforations 5144	To 4156	
Tubing Size 2.375	Weight 4.700	Internal Diameter 1.995	Set at	Perforations	To	
Type Completion (Describe) Gas	Type Fluid Production		Pump Unit or Traveling Plunger? Pumping Unit			
Producing Thru (Annulus/Tubing) Casing	% Carbon Dioxide .230		% Nitrogen 15.514		Gas Gravity- Gg .788	
Vertical Depth (H) 5150	Pressure Taps Flange		Meter Run Size 2.068			
Pressure Buildup: Shut in	1-19-15@ 2:30 P.M.		TAKEN	1-22-15@ 2:30 P.M.		
Well on Line: Started	1-22-15@ 2:30 P.M.		TAKEN	1-23-15@ 2:30 P.M.		

OBSERVED SURFACE DATA

Static/ Dynamic Property	Orifice Size in.	Meter Pressure psig	Pressure Diff. In. H ₂ O	Flowing Temp. t.	Wellhead Temp. t.	Casing Wellhead Press. (P _w) (P _c) (P _a)		Tubing Wellhead Press. (P _w) (P _t) (P _c)		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						93	107			72.0	
Flow	.750	7.0	.10			65	79			24.0	

FLOW STREAM ATTRIBUTES

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 R Mcfd	GOR	G _m
2.779	21.4	1.46	1.1265	1.0632	1.0029	4		.788

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P_c)² = 11.5 (P_w)² = 6.4 P_d = (P_c - 14.4) + 14.4 = (P_a)² = 0.207
(P_d)² =

$(P_c)^2 - (P_a)^2$	$(P_c)^2 - (P_w)^2$	$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$ or $\frac{(P_c)^2 - (P_d)^2}{(P_c)^2 - (P_w)^2}$	LOG	Backpressure Curve Slope "n" or Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mcfd
11.33	5.15	2.199	.3423	1.000	.3423	2.199	10

OPEN FLOW 10 Mcfd @ 14.65 psia DELIVERABILITY Mcfd @ 14.65 psia

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 27th day of January, 2015

Witness (if any)

For Commission

KCC WICHITA

FEB 02 2015

RECEIVED

American Warrior

For Company

[Signature]
Hosco T&M Inc.

Checked by