

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

FORM G-2
(Rev. 8/88)

TYPE TEST:

- Open Flow
 Deliverability

TEST DATE: 01-23-15 API No. 15-087-21476-0000 081

Company American Warrior		Lease Laird			Well Number #3-30	
County Haskell	Location C-SW-SW-NW	Section 30 28S 33W	TWP	RNG (E/W)	Acres Attributed	
Field Eubanks Northwe		Reservoir Mississippian		Gas Gathering Connection Regency		
Completion Date 01/23/15		Plug Back Total Depth 5479'		Packer Set at na		
Casing Size 5.000	Weight 17.000	Internal Diameter 4.829	Set at 5499	Perforations 5258	To 5348	
Tubing Size 2.000	Weight 4.700	Internal Diameter 1.995	Set at 5476	Perforations	To	
Type Completion (Describe) Gas		Type Fluid Production Formation Water&Oi		Pump Unit or Traveling Plunger? Yes		
Producing Thru (Annulus/Tubing) Casing		% Carbon Dioxide .399		% Nitrogen 15.042		Gas Gravity- Gg .754
Vertical Depth (ft) 5303		Pressure Taps Flange			Meter Run Size 2.078	
Pressure Buildup: Shut in		1-20-15 @ 11:00 AM		TAKEN	1-23-15 @ 11:00 AM	
Well on Line: Started		1-23-15 @ 11:00 AM		TAKEN	1-24-15 @ 11:00 AM	

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 _t) (P _c)		Tubing Wellhead Press. (P _w) (P _t) (P _c)		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						54	68			72.0	
Flow	.625	4.2	1.20	60		49	63			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
1.914	18.6	4.72	1.1516	1.0000	1.0016	10		.754

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P_c)² = 4.7 (P_w)² = 4.0 Pd = % (P_c - 14.4) + 14.4 = (Pa)² = 0.207
(Pd)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
4.47	.66	6.787	.8316	1.000	.8316	6.787	70

OPEN FLOW 70 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
Hosco T&M Inc.
Checked by _____