

KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2
(Rev 8/98)

TYPE TEST:

- Open Flow
 Deliverability

TEST DATE: 11/18/14 API No. 15-175-22216-00-00

Company American Warrior		Lease Handy		Well Number 5-29	
County Seward	Location SE NW NW NE	Section 29-34S-31W	TWP RNG (E/W)	Acres Attributed	
Field Chester	Reservoir Chester	Gas Gathering Connection DCP Midstream			
Completion Date 6/12/14	Plug Back Total Depth 6464	Packer Set at NA			
Casing Size 5.500	Weight 15.500	Internal Diameter 4.950	Set at 6496	Perforations 5940	To 5945
Tubing Size 2.375	Weight 4.700	Internal Diameter 1.995	Set at	Perforations	To
Type Completion (Describe) New Well Gas	Type Fluid Production	Pump Unit or Traveling Plunger? PU			
Producing Thru (Annulus/Tubing) Casing	% Carbon Dioxide .175	% Nitrogen 1.301		Gas Gravity- Gg .631	
Vertical Depth (ft) 5943	Pressure Taps Flange	Meter Run Size 2.901			
Pressure Buildup: Shut in Well on Line: Started	11/15/14 @9:15A.M. 11/18/14 @11:15A.M	TAKEN	11/18/14 @9:15A.M.		
		TAKEN	11/19/14 @11:15A.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 _t) (P _c)		Tubing WellHead Press. (P _w) (P _t) (P _c)		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						973	987			72.0	
Flow	.750	14.0	7.00	"		732	747			24.0	

FLOW STREAM ATTRIBUTES

COEFFICIENT (F _D) Mcf/d	(METER) ⁴ PRESSURE psia	EXTENSION $\sqrt{P_m \times P_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW R Mcf/d	GOR	G _m
2.744	28.4	14.10	1.2589	1.0632	1.0034	51		.631

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P_c)² = 975.0 (P_w)² = 558.2 Pd = (Pc - 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 $\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$	LOG	Backpressure Curve "Slope" "n" or Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mcf/d
974.75	416.80	2.339	.3690	.751	.2771	1.893	98

OPEN FLOW 98 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 19th day of November, 2014

Witness (If any)

For Commission

Received
KANSAS CORPORATION COMMISSION

MAY 06 2015

CONSERVATION DIVISION
WICHITA, KS

American Warrior
For Company
[Signature]
Checked by