

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

FORM G-2
(Rev. 8/98)

TYPE TEST:

- Open Flow
 Deliverability

TEST DATE: 4/6/2010

API No. 15-053-21128-0000

Company Samuel Gary Jr. & Associates		Lease Fleming		Well Number 1X-20	
County Ellsworth	Location 2000' FSL 2390'	Section NW SE 20 16s 7w	TWP 7w	RNG (E/W)	Acres Attributed 320
Field Wildcat	Reservoir Grand Haven	Gas Gathering Connection American Energies			
Completion Date 2006	Plug Back Total Depth 1912	Packer Set at none			
Casing Size 4.600	Weight 10.500	Internal Diameter 4.090	Set at 1958	Perforations 1844	To 1850
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) Single Gas	Type Fluid Production Gas	Pump Unit or Traveling Plunger? no			
Producing Thru (Annulus/Tubing) casing	% Carbon Dioxide 0.023	% Nitrogen 40.881	Gas Gravity- Gg 0.741		
Vertical Depth (ft) 1847	Pressure Taps flange	Motor Run Size 2.067			
Pressure Buildup: Shut in	3/23/2010@1200	TAKEN	3/31/2010@0945		
Well on Line: Started	4/5/2010@1200	TAKEN	4/6/2010@1200		

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 _o)		Tubing WellHead Press. (P _w) (P _c) (P _o)		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						535	549	RECEIVED MAR 11 2011		189.0	
Flow	1.000	80.0	48.00	75	80	435	449	KCC WICHITA		24.0	

FLOW STREAM ATTRIBUTES

COEFFICIENT (F _b) Mofd	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR F _g	FLOWING TEMP FACTOR F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mofd	GOR	G _m
5.067	94.4	67.31	1.1617	0.9859	1.0048	392		0.741

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P_o)² = 301.8

(P_w)² = 202.0

P_d = 14.6

(P_o - 14.4) + 14.4 =

(P_a)² = 0.207

(P_d)² = 6.40

$(P_o)^2 - (P_a)^2$ or $(P_o)^2 - (P_d)^2$	$(P_o)^2 - (P_w)^2$	$\frac{(P_o)^2 - (P_a)^2}{(P_o)^2 - (P_d)^2}$ or $\frac{(P_o)^2 - (P_a)^2}{(P_o)^2 - (P_w)^2}$	LOG	Backpressure Curve Slope "n" --- or --- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mofd
301.63	89.84	3.021	0.4802	0.874	0.4197	2.628	1031
295.44	89.84	2.959	0.4712	0.874	0.4118	2.581	1013

OPEN FLOW

1031

Mofd @ 14.65 psia

DELIVERABILITY

1013

Mofd @ 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 12 day of April, 2010

Witness (if any)

For Commission

For Company

Checked by



SAMUEL GARY JR.
& ASSOCIATES, INC.
an integrated energy company

Kansas Corporation Commission
Finney State Office Building
130 S. Market, Room 2078
Wichita, KS 67202-3802
ATTN: Jim Hemmen

March 9, 2011

RE: Fleming 1X-20 4 Point Test

RECEIVED
MAR 11 2011
KCC WICHITA

Dear Mr. Hemmen,

Per your request, this letter is intended to clarify the completeness of the 4 Point Test conducted on the Fleming 1X-20 well in Ellsworth County on June 5, 2006. Our wells were not hooked up to pipelines until February 2010. Therefore, this 4 point test was taken with a turbine meter; thus the reason for no differential, orifice size or coefficients on the Form G-1. This testing method was approved by the commission in 2006.

The meter used has a range of 0-300 psig. The reason that the duration of the tests were not at least 30 minutes in length was due to the well stabilizing with an even flow rate in the time period tested.

Along with this letter, please find a copy of the 4 Point Test conducted on June 5, 2006 as well as the 1 Point Test conducted on April 6, 2010.

As always, please do not hesitate to contact me with any further questions.

Best Regards,

Gabriel J. D'Arthenay
Operations Engineer