KANSAS CORPORATION COMMISSION
ONE POINT STABLIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2
(Rev.8/98)

TYPE TEST:
☒ Open Flow
☒ Deliverability

TEST DATE: 4/23/2013 API No. 15-025-21376-00-00

Company	Lease	Well Number
John O. Farmer	Giles A	1

County	Location	Section	TWP	RNG(E/W)	Acres Attributed
Clark	W/2 NW SE	10	31S	22W	160

Field	Reservoir	Gas Gathering Connection
	Mississippian	KGS

Completion Date	Plug Back Total Depth	Packer Set at
9/27/2006	6427	N/A

Casing Size	Weight	Internal Diameter	Set at	Perforations	To
5.500	15.500	4.950	6497	5129	5136

Tubing Size	Weight	Internal Diameter	Set at	Perforations	To
2.375	4.700	1.995	5110		

Type Completion (Describe)	Type Fluid Production	Pump Unit or Traveling Plunger?
Single	N/A	No

Producing Thru (Annulus/Tubing)	% Carbon Dioxide	% Nitrogen	Gas Gravity- Gg
tubing	0.099	5.398	0.645

Vertical Depth (H)	Pressure Taps	Meter Run Size
5133	flange	2.067

Pressure Buildup: Shut in	4/19/2013@0900	TAKEN	4/22/2013@0915
Well on Line: Started	4/19/2013@0915	TAKEN	4/23/2013@0945

OBSERVED SURFACE DATA

Static/ Dynamic Property	Orifice Size in.	Meter Pressure psig	Pressure Diff. In. H_2O	Flowing Temp. t.	WellHead Temp. t.	Casing WellHead Press. (P_w) (P_t) (P_c) psig	Casing psia	Tubing WellHead Press. (P_w) (P_t) (P_c) psig	Tubing psia	Duration (Hours)	Liquid Prod. Barrels
Shut-in						226	241	182	196	72.2	
Flow	1.125	118.0	19.40	46		192	206	139	153	24.5	

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
6.557	132.4	50.68	1.2451	1.0137	1.0122	424		0.645

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

$(Pc)^2$ = 58.2 $(Pw)^2$ = 42.6 Pd = 50.2 % (Pc - 14.4) + 14.4 = $(Pa)^2$ = 0.207 $(Pd)^2$ = 14.67

$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	$\frac{(P_c)^2 - (P_a)^2 \text{ or } (P_c)^2 - (P_d)^2}{(P_c)^2 - (P_w)^2}$	LOG [ ]	Backpressure Curve Slope "n" ---- or ---- Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability = R x Antilog Mcfd
58.02	15.58	3.723	0.5709	0.517	0.2952	1.973	837
43.56	15.58	2.795	0.4464	0.517	0.2308	1.701	722

OPEN FLOW 837 Mcfd @ 14.65 psia DELIVERABILITY 722 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 23 day of April, 20 13

RECEIVED
KANSAS CORPORATION COMMISSION

APR 25 2013

CONSERVATION DIVISION
WICHITA, KS

Witness (if any)

For Commission

For Company

Checked by

Form G-2
Rev.8/98

I declare under penelty or perjury under the laws of the state of kansas that I am authorized to request exempt status under rule K.A.R. 82-3-304 on behalf of the operator John O. Farmer and that the foregoing information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon gas production records and records of equipment installation and/or of type completion or upon use of the gas well herein named.

I hereby request a permanent exemption from open flow testing for the Giles A gas well on the grounds that said well:

(check one)

- ☐ is a coalbed methane producer
- ☐ is cycled on plunger lift due to water
- ☐ is a source of natural gas for injection into an oil reservoir undergoing ER
- ☐ is on vacum at the present time; KCC approval Docket No. _____
- ☐ is incapable of producing at a daily rate in exess of 250 mcf/D

Date: _____

Signature: _____

Title: _____

Instructions:

All active gas wells must have at least an original G-2 form on file with the conservation division. If a gas well meets the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to obtain a testing exemption.

At some point during the succeeding calendar year, wellhead shut-in pressure shall be measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under "observed surface data." Shut-in pressure shall thereafter be reported yearly in the same manner.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than thirty (30) days after the taking of the pressure reading. The form must be signed and dated on the front side as though it was a verified report of test results.