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

Type Test	:				(	See Inst	ructi	ons on Re	verse Side	)						
Ор	en Flow				Test Date						ADLA	No. 15				
De	liverabilty	•			lest Date	1;					1511	1910119 <b>~</b> (	20 ·Q	Ġ		
Company Pan Gas		e Company	LLC					Lease Nichols	<b>3</b>				,	۱ ۹1 <i>-</i> 2	Vell Nu	mber
County Location Meade C NW SW			Section 2						RNG (E/W) 8W			Acres Attributed				
Field Borchers North				Reservoir Mississippian				Gas Gathering Conr DCP Midstream			ection RECE			RECEIV		
Completion Date 8/15/62			Plug Back Total Depth 5784			Packer 5678				r Set at			RECEIVE AUG 3 1 20 KCC WICHI			
asing Size Weight .5 9.5				Internal Diameter 4.090			Set at <b>5784</b>			Perforations 5717			го 5 <b>784</b>	KC	C WICH	
Tubing Size Weight 2.375 4.7				Internal Diameter 1.995			Set at 5678			Perforations			Го			
Гуре Соп		Describe)			Type Flui			1		Pur	np Uni	t or Traveling	Plunger?	Yes	/ <b>(N)</b>	
	<u> Zingl</u>	e (Gas) Innulus / Tubi			Sal	twat	er	1-		9/	r	lowing	<del></del>	200.00		
	inro-(A	เกทนในร / ในซิเ	ng)		% C	arbon D	NOXIC	10		%	Nitroge	en –	,	Jas Gra	avity - (	j <sub>0</sub>
/ertical C						F	ress	ure Taps					(	Meter F	Run) (P	rover) Size
Pressure	Buildup:	Shut in	11	21	12 at 9	:30 AM	1	(AM) (PM)	Taken 6/	/14		20	12 at 9	:30 A	M	(AM) (PM)
Vell on L	•	Started 6/										20			A B #	(AM) (PM)
						OBSE	RVE	D SURFAC	E DATA				Duration o	of Shut-	in	Hours
Static / Dynamic Property	Orifice Size (inches	Meter Dif		Pressure Differential in	Flowing Temperature t	Well Head Temperature		Wellhead	sing d Pressure P <sub>t</sub> ) or (P <sub>c</sub> )	Tubing Wellhead Pre (P, ) or (P, ) or		d Pressure	Duration (Hours)		Liquid Produced (Barrels)	
Shut-In		psig (Pn	1)	Inches H <sub>2</sub> 0				psig 267	psia 281.4		psig	psia	over 24 hrs			
Flow								202	216.4				24			
				······································		FLOW	STR	EAM ATTI	RIBUTES							
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mctd		Circle one: Meter or Prover Pressure psia		Press Grav Extension Fact  ✓ P <sub>m</sub> x h F <sub>g</sub>		tor Te		Flowing Deviation Factor F <sub>pv</sub>		actor	or R		w GOR (Cubic Feet Barrel)		et/	Flowing Fluid Gravity G <sub>m</sub>
					1							100				
					(OPEN FL	OW) (DE	LIVI	ERABILIT	Y) CALCUL	LATI	ONS			(P <sub>a</sub> )	² = 0.2	207
<sub>c</sub> ) <sup>2</sup> =		; (P <sub>w</sub> ) <sup>2</sup>	,	:	P <sub>d</sub> =		9	6 (	(P <sub>c</sub> - 14.4) +	+ 14,	4 =	<del></del> :		(P <sub>a</sub> )	² = 	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		1. $P_c^2 - P_d^2$ 2. $P_c^2 - P_d^2$	LOG of formula 1, or 2, and divide	formula 1, or 2.		Backpressure Curve Slope = "n" or Assigned			n x LOG		Antilog		Open Flow Deliverability Equals R x Antilog	
-			divid	ded by: $P_e^2 - P_w^2$			<u>"</u>	Stan	dard Slope			<u>اب</u> با				(Mcfd)
													•••			
Open Flow Mcfd @ 14.65 psia						Delivera	Deliverability				Mcfd @ 14.65 psia					
	_	ned authority, rein, and that						•		to m day	۸.	e above repo	ort and tha	t he ha	s know	viedge of 20 12 .
		Witnes	s (if an	y)					00	<b>レ</b> し	J	J J For	Company	· ·	<i>,</i>	<u> </u>
		For Co	mmissi		•						<u> </u>	Che	cked by			

## AUG 3 1 2012

## KCC WICHITA

	are under penalty of perjury under the laws of the state of Kansas that I am authorized to request
	atus under Rule K.A.R. 82-3-304 on behalf of the operator Pan Gas Storage Company LLC
	he foregoing pressure information and statements contained on this application form are true and
correct to	the best of my knowledge and belief based upon available production summaries and lease records
	ent installation and/or upon type of completion or upon use being made of the gas well herein named. by request a one-year exemption from open flow testing for the Nichols A1-2
	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 vacuum at the present time; KCC approval Docket No
	is not capable of producing at a daily rate in excess of 250 mcf/D
	ner agree to supply to the best of my ability any and all supporting documents deemed by Commiss ecessary to corroborate this claim for exemption from testing.
Date: Au	gust 20, 2012
	Signature: Larry J. Jorkins, PE
	Title: Principal Petroleum Engineer

## Instructions:

If a gas well meets one of 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 claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been 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 for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption **IS** denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.

PAN GAS STORAGE COMPANY LLC 5051 Westheimer Rd Houston, Texas 77056 Room 1540

August 20, 2012

Jim Hemmen KCC Production Department Kansas Corporation Commission Finney State Office Building 130 S. Market, Room 2078 Wichita, KS 67202-3802 RECEIVED

AUG 3 1 2012

KCC WICHITA

RE: G-2 Forms for the Nichols "A"1-2 and the Friesen 2-3 Gas Wells

Dear Mr. Hemmen:

Please find enclosed G-2 forms for the following wells:

Nichols "A" 1-2 gas well, Sec 2-33S-28W, Meade County, API No. 15119-10119 Friesen 2-3 gas well, Sec 3-33S-28W, Meade County, API No. 15119-20498

We are requesting a one year exemption from flow testing on both wells as neither well is capable of producing at a daily rate in excess of 250 Mcf/d.

If there are any questions or additional information is required, please contact me at the numbers listed below or by e-mail.

Respectfully,

Larry Johkins, PE

Principal Petroleum Engineer

713-989-7484

713-989-1135 fax

Larry.jenkins@sug.com

Word/KCC G-2 Cover letter 2012.doc

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