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

Type Tes	t:				(See Instru	ctions on R	everse Sid	le)					
= '	en Flow Hiverabilty			Test Dat	te:				PI No. 15	OC. 66			
Company Pan Gas Storage Company LLC					Lease Nichols			1511910119 - 00 - 00 Well Number A1-2					
County Location Meade C NWSW			Section 2		TWP 33S		RNG (E/W) 28W		Acres Attributed				
Field Borchers North				Reservo Mississ			Gas Gathering C DCP Midst		athering Conr	nection RECEIV			
Completion Date 8/15/62			Plug Bac 5784	ck Total Dep	th	h Packer Set a 5678			SEP 18		SEP 18		
Casing Size Weight 9.5			Internal Diameter 4.090		Set at 5784		Perforations 5717		To KCC WI				
Tubing Size Weight 2.375 4.7			Internal 1.995	Internal Diameter 1.995		Set at Pe		orations	Ťo		ETIC!		
Type Completion (Describe) Single (Gas) Producing Trifu (Annulus / Tubing)					<sup>id Productio</sup> twater	n	Pump Unit or Traveling Flowing  Nitrogen			Plunger? Yes	(QD)		
ubi	n <sub>e</sub> v	nnulus / Tubing)			Carbon Diox	ide	1000	% Nitro	gen 6	Gas Gi	avity - (	G <sub>g</sub>	
tical D	epth(H)		, <u>-</u> -		Pres	sure Taps		<u> </u>		(Meter	Run) (P	rover) Size	
ssure	Buildup:	Shut in _2/22	2	11 at 9	:55 AM	(AM) (PM)	Taken_2/	28	20	11 at 8:00 A	M	(AM) (PM)	
il on Li	ne:	Started 2/28	2	0 11 at 9	:00 AM	(AM) (PM)	Taken 3/	1	20	11 at 1:30 P	M	(AM) (PM)	
					OBSERVE	D SURFAC	E DATA		<u> </u>	Duration of Shut-		Hours	
atic / namic perty	Orilice Size (inches)	Circle one:  Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	Midlibaad December		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>0</sub> )		Duration (Hours)	Liquid Produced (Barrels)		
ut-In						271	285.4	psig	psia	over 24 hrs	<del> </del>		
low						208	222.4			24			
	<del> </del>	<del></del>			FLOW STR	EAM ATTR	IBUTES						
Plate oeffiecie (F <sub>b</sub> ) (F <sub>p</sub> Mcfd	- 1 -	Circle one: Meter or over Pressure psia	Press Extension ✓ P <sub>m</sub> x h	Grav Fact	tor T	Flowing Temperature Factor F <sub>ft</sub>	Fa	ation ctor	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravity G	
···			<del></del>						120				
'=	:	(P <sub>w</sub> ) <sup>2</sup> =	:	(OPEN FLO	OW) (DELIVI		) CALCUL <sup>2</sup> c - 14.4) +		•	(P <sub>a</sub> )² (P <sub>d</sub> )²	= 0.20	07	
or P <sub>c</sub> ) <sup>2</sup> - (P <sub>c</sub>		P <sub>c</sub> )* - (P <sub>u</sub> )*	1. $P_c^2 + P_a^2$ 2. $P_c^2 - P_d^2$ ded by: $P_c^2 - P_a^2$	LOG of formula 1. or 2. and divide by:	P. 2 - P. 2	Backpressure Curve Slope = "n" or Assigned Standard Slope		n x l	og	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
pen Flow Mcfd @ 14.65 psia					<u> </u>	Deliverability				Mcfd @ 14.65 psia			
		d authority, on b							e above repor	t and that he has		edge of 0 2012	
		Witness (if an	у)		<del></del>	-	LOU	ny (	Force	Impany			
	,	For Commission	on			_			Check	ed by	<del></del>		

## SEP 1 8 2012

## KCC WICHITA

	der penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Pan Gas Storage Company LLC								
and that the fore correct to the bes of equipment inst I hereby requ	going pressure information and statements contained on this application form are true and it of my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named. est a one-year exemption from open flow testing for the Nichols A1-2								
as well on the g	rounds that said well:								
(Check	cone)								
	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.								
<b>✓</b>	is not capable of producing at a daily rate in excess of 250 mcf/D								
	e to supply to the best of my ability any and all supporting documents deemed by Commissic y to corroborate this claim for exemption from testing.								
ate: September	7, 2012								
	Signature: Larry Jorhan 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

September 7, 2012

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

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 for 2011.

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.

j

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

Respectfully,

Larry Jerkins, PE

Principal Petroleum Engineer

713-989-7484

713-989-1135 fax

Larry.jenkins@sug.com

RECEIVED

SEP 1 8 2012

**KCC WICHITA** 

Word/KCC G-2 Cover letter 2011.doc