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

Type Test	: en Flov	w			(	See Instru	ctions on Re	verse Side	,			
Deliverability			Test Date: 710/24/2011			API No. 15 18510481 ~ 🔿🔾						
Company		 Or	perating, In	ıc.	7 10/2-4/	2011	Lease Nagel	В	100	710401	1	Well Number
County Location Stafford SE SE SW				Section 3		TWP 24S	TWP		W)		Acres Attributed	
Field				Reservoir Mississ			<del></del>	Gas Gati SemGa	nering Conne	ection		
Completion Date 2/16/61				Plug Bac 4011	k Total Dej	oth		Packer S	et at			
5.5	Casing Size Weight 5.5 14				Internal Diameter 5.012			Set at 4124		ations 1'	To 3990'	
Tubing Si 2 3/8	Tubing Size Wei 2 3/8 4.7				Internal Diam 1.995		Set at 3987		Perforations		То	
Type Completion (Describe) Single Gas				Type Flui	Type Fluid Production			Pump Unit or Traveling Plunger? Yes / Pump Unit				
Producing Annulus	•	(Anı	nulus / Tubing	)	% C	arbon Dio	kide		% Nitrog	en	Gas G	ravity - G <sub>g</sub>
Vertical D 4124'	epth(H	l)				Pre	ssure Taps				(Meter	Run) (Prover) Size
Pressure	Buildu	<b>p</b> :	Shut in10/2	24 20	11 at 8		_ (AM) (PM)	Taken_10	0/25	20	11 at 8	(AM) (PM)
Well on L	ine:		Started	20	at		_ (AM) (PM)	Taken		20	at	(AM) (PM)
				7		OBSERV	ED SURFAC	E DATA			Duration of Shut	1-in 24 Hours
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Pressui psig (Pm)	Pressure Differential re in Inches H <sub>2</sub> 0	Flowing Well Head Temperature t		Wellhead	(P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		ubing ad Pressure (P <sub>1</sub> ) or (P <sub>c</sub> ) psia	Ouration (Hours)	Liquid Produced (Barrels)
Shut-In							60	74.4	psig 10	24.4	24	
Flow												
					<del></del>	FLOW ST	REAM ATTE	RIBUTES				<u> </u>
Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mctd		Pro	Circle one: Meter or ever Pressure psia	Press Extension P <sub>m</sub> xh	Grav Fac F	tor	Flowing Temperature Factor F <sub>11</sub>	F	viation actor F <sub>pv</sub>	Metered Flow R (Mcfd)	v GOR (Cubic F Barre	eet/ Fluid
							<del></del>					
(P <sub>c</sub> ) <sup>2</sup> =		_ :	(P <sub>w</sub> ) <sup>2</sup> =	<u>.</u> :	(OPEN FL		VERABILITY _% (	/) CALCUI P <sub>c</sub> - 14.4) +		:		) <sup>2</sup> = 0.207 ,) <sup>2</sup> =
(P <sub>a</sub> ) <sup>2</sup> - (I or (P <sub>a</sub> ) <sup>2</sup> - (F		(F	P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_d^2$	LOG of formula 1, or 2, and divide by:	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Slo As	essure Curve pe = "n" - or ssigned dard Slope	l n x i	.og	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
Open Flo	l			Mcfd @ 14.	55 psia		Deliveral	bility			Mcfd @ 14.65 p	sia
		_	•	behalf of the			•		to make the	•	ort and that he h	RECEIVED
			Witness (il	апу)			,		y	For	Company	NOV 1 4 2011
			For Commi	enion		<u></u>				Cha	cked by	KCC WICHIT

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt status und	der Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating, Inc
and that the foreg	going pressure information and statements contained on this application form are true and
correct to the bes	t of my knowledge and belief based upon available production summaries and lease records
of equipment insta	allation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby requ	est a one-year exemption from open flow testing for the Nagel B 1
gas well on the gr	rounds that said well:
-	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 e to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
Date: 11/9/2011	
Date.	
	Signature:  Title: Erin Carson, Regulatory Compliance Analyst

## 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 formula test results.

NOV 1 4 2011