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

Type Test	:				(	See Instruct	ions on Re	everse Side	<del>)</del> )				
<b>✓</b> Op	en Flow				Test Date	٠.			ΔPI	No. 15			
De	liverabilty	<i>'</i>			10/31/20					007-00189	-0000	)	
Company Atlas ope		LLC				·	Lease COOK	(			1	Well Nu	ımber
County Location BARBER SW-NE-NE			Section 20		TWP 34			W)		Acres Attributed 160			
Field HARDTNER				Reservoir MISSIS				hering Conn	ection				
12/06/55				Plug Bac 4796	k Total Dept	h		Packer S					
Casing Size Weight 5 1/2 14			Internal D 5.012	Diameter	Set at 4829		Perforations 4712		то 4752				
Tubing Size Weight 2 3/8 4.7			Internal D 1.995	Diameter	Set 476	et at Perforations 760			То				
Type Completion (Describe) CASING					d Production WATER	1	•				Yes / No		
Producing Thru (Annulus / Tubing) ANNULUS				.003	% Carbon Dioxide .003			% Nitrogen 7.114			Gas Gravity - G <sub>9</sub> .625		
Vertical Depth(H) 4752					Press PIPE	sure Taps				(Meter Run) (Prover) Size 4			
Pressure	Buildup:	Shut in	)/31	2	0_10 at	10 at (AM) (PM)			1/01	20	10 at (AM) (PN		(AM) (PM)
Well on L	ine:	Started		2	0 at		(AM) (PM)	Taken		20	at	·	(AM) (PM)
						OBSERVE	D SURFAC	E DATA			Duration of Shut	-in 24	Hours
Static / Dynamic Property	Orifice Size (inches	Meter Prover Press	Differ sure in	ential 1	remperature remperature		Wellhead	sing Pressure P,) or (P <sub>c</sub> )	ressure Wellhead Press or $(P_c)$ $(P_w)$ or $(P_t)$ or $(P_t)$		Duration Liquid Produced (Hours) (Barrels)		I
Shut-In		psig (Pm	) Inche	5 Π <sub>2</sub> U			psig 50	psia	psig	psia	· r	-	
Flow	ř												
	•.		1			FLOW STR	EAM ATTÁ	RIBUTES	l		<u> </u>		
Plate Coeffiect (F <sub>b</sub> ) (F Mcfd	ient ,) /	Circle one:  Meter or  Prover Pressure  psia	Exter	Press Grav Extension Fact  ✓ P <sub>m</sub> x h F <sub>g</sub>		tor Temperature		Fa	iation ctor :	Metered Flov R (Mcfd)	v GOR (Cubic Fe Barrel)	eet/	Flowing Fluid Gravity G <sub>m</sub>
		······································			44								
P <sub>c</sub> ) <sup>2</sup> =		: (P <sub>w</sub> ) <sup>2</sup>	=	:	(OPEN FLO	OW) (DELIVI %		')		:		$)^2 = 0.2$ $)^2 =$	207
(P <sub>c</sub> ) <sup>2</sup> - (F or (P <sub>c</sub> ) <sup>2</sup> - (F		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose forms  1. P <sub>c</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup>	Dose formula 1 or 2:  1. P <sub>a</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> ded by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> LOG of formula  1. or 2.  and divide  by:		P <sub>2</sub> - P <sub>2</sub>	Backpressure Curve Slope = "n" or Assigned Standard Slope		n x i	og [	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
											•	-	
Open Flo	w		Mcfd	@ 14.	65 psia		Deliverat	oility			Mcfd @ 14.65 ps	ia.	
The t	ındersigr	ned authority,	on behalf	of the	Company, s	tates that he	e is duly a	uthorized to	o make th	e above repo	rt and that he ha	as know	ledge of
e facts s	tated the	rein, and that	said report	is true	and correct	t. Executed	this the 8	th	day of _N	ovember	· · · · · · · · · · · · · · · · · · ·	,	20 10
		Witness	(if any)			<del></del>				For C	Company		RECEIVE
		For Corr	nmission				-	···		Chec	cked by		
. 1	•	. 0. 0011	•			ŧ				3.160	,	!	NOV 1 2 2
•	•								٠			K	CC WICH

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I declare und	der penalty of perjury under the laws of the state of Kansas that I am authorized to request							
exempt status un	der Rule K.A.R. 82-3-304 on behalf of the operator Atlas Operating LLC							
and that the fore	going pressure information and statements contained on this application form are true and							
correct to the bes	st of my knowledge and belief based upon available production summaries and lease records							
of equipment inst	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 COOK #1							
gas well on the g	rounds that said well:							
(Checi								
	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							
I further agre	e to supply to the best of my ability any and all supporting documents deemed by Commission							
-	ry to corroborate this claim for exemption from testing.							
	y to convenient the chain for exemption from testing.							
- 44/00/004	2							
Date: 11/08/201	<u>J.                                    </u>							
	Signature: 54) (1) Provide							
	Signature:							
	Title: PRODUCTION COORDINATOR							
	•							

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.