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

9-

Type Test	:					(See Instruc	tions on Re			LUMPILI				
	en Flow				Test Date	e:			ΔΙ	PI No. 15				
De	1 Deliverability				10/19/2			15-191-10242-0002						
Company Atlas Operating LLC					Lease Hudsor	Lease Hudson		•	4-3	Well N	umber			
County Location Sumner SW-NW-NW				Section 10		TWP 35S			E/W)		Acres	Attributed		
Field Fall Creek					Reservoi MISSI	r SSIPPI		Gas Gathering Con Atlas Pipeline Mid						
Completic 11/27/00					Plug Bac 4600	ck Total Dep	th	Packer Set at 4280						
Casing Size Weight 7 20 & 23			}	Internal I 6.33	Diameter	Set at 4806		Peri <b>43</b>	forations 25	то <b>435</b> 0	ı			
Tubing Size Weight 2 3/8 4.7			· · · · · · ·	Internal I 1.995	Diameter		Set at <b>4280</b>		forations	То				
Type Completion (Describe) Single Gas				id Productio WATER	n	Pump Unit or Traveling F PUMP UNIT			Plunger? Yes	/ No				
	Thru (/	Annulus / Tut	oing)			Carbon Diox	ide		% Nitro	_		ravity -	G <sub>g</sub>	
Tubing	Innih / I				.3220				11.5	03	.73	<b>D</b> 2 4		
Vertical D 4807	epm(H)					Pres	sure Taps				(Meter	Hun) (F	Prover) Size	
Pressure	Buildup:	Shut in	0/19	20	14 at 2	:00	(AM)(PM)	Taken_10	)/20	20	14 at 2:00		(AM)(PM)	
Well on Li	ine:				) at	·····	(AM) (PM)	Taken		20	at		(AM) (PM)	
			-			OBSERVE	D SURFAC	E DATA			Duration of Shu	<sub>t-in</sub> _24	Hours	
Static / Dynamic Property	Orifice Size (inches	ze Meter Different Prover Pressure in		Pressure Differential in Inches H <sub>2</sub> 0	Flowing Well Head Temperature		Casing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$		1	Tubing nead Pressure or (P <sub>t</sub> ) or (P <sub>c</sub> ) psia	Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	•						psig 60	psia	75	pola				
Flow														
						FLOW STE	REAM ATT	RIBUTES				•		
Plate Coeffieci (F <sub>b</sub> ) (F <sub>i</sub> Mcfd	ent ,)	Circle one:  Meter or  Prover Pressure  psia		Extension F		vity	Flowing Temperature Factor F <sub>11</sub>	mperature Factor		Metered Flow R (Mcfd)	v GOF (Cubic F Barre	eet/	Flowing Fluid Gravity G <sub>m</sub>	
<del></del> -				<u>.</u>	(OPEN FL	OW) (DELIV	ERABILITY	) N CALCUL	ATIONS	<u> </u>			<u> </u>	
(P <sub>c</sub> ) <sup>2</sup> =	. (P <sub>w</sub> ) <sup>2</sup> =:		:				-				$(x)^2 = 0.3$ $(x)^2 = 0.3$	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>		ose farmula 1 or 2: 1. P <sub>c</sub> <sup>2</sup> - P <sub>s</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> 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:		Backpressure Curve Slope = "n"		l <sub>n x</sub>	r roe	Antilog	De	Open Flow Deliverability Equals R x Antilog (Mcfd)	
-											-			
Open Flov		-		Mcfd @ 14.6	S5 pela	·	Deliveral	hility.			Mafd @ 14 CE -	sia.		
<u> </u>						4.4 412 4		· ·			Mcfd @ 14.65 p			
	-	•		ehalf of the (			-			the above repo	rt and that he h		vledge of	
		Witnes	s (if an	v)			-		· · · · · · · · · · · · · · · · · · ·	For	Сотрапу	Kansas	Receive	
<del></del>							_					N	OV 03	
		For Co	mmissid	on						Chec	cked by	13		

my knowledge and belief based upon available production summaries and lease records tion and/or upon type of completion or upon use being made of the gas well herein named. a one-year exemption from open flow testing for the Hudson 4-3 ands that said well:  e) a coalbed methane producer cycled on plunger lift due to water a source of natural gas for injection into an oil reservoir undergoing ER on vacuum at the present time; KCC approval Docket No	exempt status u	nder penalty of perjury under the laws of the state of Kansas that I am authorized to request nder Rule K.A.R. 82-3-304 on behalf of the operator Atlas Operating LLC
tion and/or upon type of completion or upon use being made of the gas well herein named.  a one-year exemption from open flow testing for the Hudson 4-3  a coalbed well:  e)  a coalbed methane producer  cycled on plunger lift due to water  a source of natural gas for injection into an oil reservoir undergoing ER  on vacuum at the present time; KCC approval Docket No  not capable of producing at a daily rate in excess of 250 mcf/D  supply to the best of my ability any and all supporting documents deemed by Commission	and that the for	regoing pressure information and statements contained on this application form are true and
a one-year exemption from open flow testing for the Hudson 4-3  nds that said well:  e) a coalbed methane producer cycled on plunger lift due to water a source of natural gas for injection into an oil reservoir undergoing ER on vacuum at the present time; KCC approval Docket No.  not capable of producing at a daily rate in excess of 250 mcf/D  supply to the best of my ability any and all supporting documents deemed by Commission	correct to the be	est of my knowledge and belief based upon available production summaries and lease records
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a coalbed methane producer cycled on plunger lift due to water a source of natural gas for injection into an oil reservoir undergoing ER on vacuum at the present time; KCC approval Docket No. not capable of producing at a daily rate in excess of 250 mcf/D	I hereby red	ruest a one-year exemption from open flow testing for the Hudson 4-3
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supply to the best of my ability any and all supporting documents deemed by Commission	Ţ	<u>-</u>
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corroborate this claim for exemption from testing.	I further agi	ree to supply to the best of my ability any and all supporting documents deemed by Commission
<del></del>	staff as necess:	ary to corroborate this claim for exemption from testing.
<del></del>		
	Date: 10/23/20	14
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Signature: Luis Warlel		
Signature.		Signatura: Quis Wave le
Signature:		,

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 reust be signed and dated on the front side as though it was a verified report of annual test results.

KANSAS CORPORATION COMMISSION