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

	: en Flo liverab					Test Date 08/20/20	»:	structio	ons on Re	verse Side	´. API	No. 15	5 1272-0	000		
Company Atlas Op		na I I	C			00/20/21	714		Lease Kernoha	an	10-	-011-2	1212-0		Well Nu	mber
County Harper	County Location				Section 7			TWP 31S		RNG (E/W) 8W		Acres Attribute		ttributed		
Field SPIVEY GRABS				Reservoir MISSIS		) 1			thering Connection							
Completion Date 12/29/1993				Plug Bac 4421'	k Total	Depth	<u> </u>		Packer \$	Set at				<del></del> -		
Casing Size Weig 5 1/2 14				ıht Internal			Diameter		Set at 4519		Perforations 4386		5	To 4458		
Tubing Size Weight 2 7/8				ht	Internal Diameter				Set 6 448	Perfo	Perforations			То		
Type Completion (Describe) CASING				Type Flui				Pump Unit or Trave PUMP UNIT				ling Plunger? Yes / No				
Producing ANNUL		(Anr	nulus / Tubli	ng)	<del></del>	% C	arbon I	Dioxid	θ	1 4	% Nitrog	gen	-	Gas Gra	avity - G	, 0
Vertical D 4520	epih()	H)						Pressi	ure Taps			<del>, ,</del>		(Meter F	Run) (Pr	over) Size
Pressure Buildup:			Shut in			0_14_at_1	14 at 12:00			Taken_0	8/21		20	14 <sub>at</sub> 12:00	(	AM(PM)
Well on Li	ine:		Started		20	D at		(	(AM) (PM)	Taken			20	at	(	AM) (PM)
							OBSE	RVED	SURFAC					Duration of Shut-i	n_24	Hours
Static / Dynamic Property			Circle one:  Meter Prover Pressure psig (Pm)		Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> psig psia		Tubin Wellhead P $(P_w)$ or $(P_1)$ psig		(P <sub>c</sub> )	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In							_		125	psia	70	$\top$	psia	. <del>.</del>		
Flow																
	1			1			FLOW		ATTA MA	IBUTES			•	<del> </del>		<del></del>
Plate Coeffieci (F <sub>b</sub> ) (F <sub>i</sub> Mcfd	ent ,)	Circle one:  Meter or  Prover Pressure  psia			Press Grav Extension Fact  ✓ P <sub>m</sub> x h F <sub>q</sub>		tor Te		Flowing imperature Factor F <sub>II</sub>	nperature Facto				GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravity G <sub>m</sub>
				_								<u> </u>		<u> </u>		
(P <sub>o</sub> )² ≂		_:	(P <sub>w</sub> ) <sup>2</sup> :	<b>=</b>		(OPEN FL		ELIVE %		') CALCUI <sup>-</sup> 。- 14.4) -			:	(P <sub>a</sub> ) <sup>;</sup> (P <sub>d</sub> ) <sup>;</sup>	2 = 0.20 2 =	D7 
$(P_c)^2 - (P_d)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>n</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		Choose formula 1 or 2:  1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>c</sub> <sup>2</sup>		LOG of formula 1. or 2.	P <sub>a</sub> <sup>2</sup> - P	2	Backpressure Curve Slope ≅ "n" or Assigned Standard Slope		, ,	roe		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
	-					-										
Open Flov	 w				Mcfd @ 14.	65 psia			Deliverat	oility				Mcfd @ 14.65 psi	L a	
		_	d authority, on, and that s			• =			•				-	rt and that he ha		edge of
		_	Witness	(if any)	)			_	-		_		For C	ompany	F	Received
<del>-</del>			For Corr	misslor	<del></del>			_	-				Chec	KANS ked by		2 9 201

	clare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator Atlas Operating LLC
	the foregoing pressure information and statements contained on this application form are true and
orrect t	o the best of my knowledge and belief based upon available production summaries and lease records
	ment installation and/or upon type of completion or upon use being made of the gas well herein named. reby request a one-year exemption from open flow testing for the Kernohan #4-7
	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
	ther agree to supply to the best of my ability any and all supporting documents deemed by Commissio necessary to corroborate this claim for exemption from testing.
ate: <u>1</u>	0/13/2014
	Signature: Ris Wande

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 interest well Kansas corporation commission signed and dated on the front side as though it was a verified report of annual test results.

OCT 29 2014