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

Type Tes	t:				(	See Instruci	tions on Rev	erse Side	·)				
<b>✓</b> Op	en Flo	w			Test Date	··			ΔĐ	No. 15			
De	eliverab	ilty			10/01/20					077-10140 <i>-</i>	0000		
Company Atlas Op		ng l	LC				Lease KERNO	DHAN				Well Number 2	
County Location HARPER NE-NW-NE				Section 7				RNG (E/W) 8W			Acres Attributed 40		
SPIVEY GRABS					Reservoir MISSISSIPPI			Gas Gathering Connection ONEOK					
Completi 01/24/6		te			Plug Bac 4496	k Total Dept	th		Packer 8	Set at			
Casing S 5 1/2	iize		Weigh 15 1/2		Internal [	Diameter			Perfo 438	rations 0	To 4450	· •	
Tubing S 2 3/8	ize		Weigh 4.7	t	Internal [	Diameter	Set a	t	Perfo	rations	То	-1- <b>-</b> -10	
Type Cor		n (De			Type Flui	d Production	n	· · · · · ·	Pump U		Plunger? Yes	/ No	
Producing	-	(Anı	nulus / Tubing	))	% C	Carbon Dioxi	de		% Nitrog		Gas Gr .676	avity - G <sub>g</sub>	
Vertical C		<del>1</del> )			<del></del>	Pres	sure Taps					Run) (Prover) Size	
Pressure	Buildu	<b>p</b> :	Shut in 10/	)1 2	13 at 1			Taken_10	)/02	20	13 11:20	(AM) (PM)	
Well on L	.ine:		Started	2	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)	
						OBSERVE	D SURFACE	DATA			Duration of Shut-	in 24 Hour	
Static / Dynamic Property	Orifi Siz (inch	е	Circle ane:  Meter  Prover Pressu  psig (Pm)	Pressure Differential re in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	Casi Wellhead F (P <sub>w</sub> ) or (P <sub>t</sub>	Pressure ) or (P <sub>c</sub> )	Wellhe	Tubing pad Pressure r (P <sub>t</sub> ) or (P <sub>c</sub> )	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In			poig (i iii)	monos 11 <sub>2</sub> 0			psig 90	psia	psig 65	psia			
Flow									ļ				
	•••••				<del></del>	FLOW STR	EAM ATTRI	BUTES				<del></del>	
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Pro	Circle one: Meter or over Pressure psia	Press Extension P <sub>m</sub> xh	Grav Faci F	tor	Tomesoratura I		iation ctor : pv	Metered Flow R (Mcfd)	y GOR (Cubic Fe Barrel)	Crowity	
L					/								
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> =	<u> </u>	(OPEN FL		<b>ERABILITY)</b> % (P	CALCUL - 14.4) +		:		<sup>2</sup> = 0.207 <sup>2</sup> =	
(P <sub>c</sub> ) <sup>2</sup> - (I	- 1	(F	P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	1. P <sub>c</sub> <sup>2</sup> - P <sub>e</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>e</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Slop	sure Curve e = "n" origned	l n x	roe	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
				divided by: Pc2 - Pw	2 by:	ابت *ـا	Standa	rd Slope			·	(IMCIO)	
Open Flo	w			Mcfd @ 14.	.65 psia		Deliverabi	lity			Mcfd @ 14.65 ps	ia	
The	undersi	igned	d authority, or	behalf of the	Company, s	itates that h	e is duly au	horized to	o make ti	ne above repo	rt and that he ha	s knowledge of	
the facts s	tated t	herei	n, and that sa	id report is true	e and correc	c Wid	CHITA 31	st	day of _C	ecember	1100	, 20 13	
	<del></del>		Witness (i	eny)	J	AN 02	2014		1 CR	For C	Company		
····•			For Comm	ission		RECE	IVED -			Chec	ked by		

	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 on the best of my knowledge and belief based upon available production summaries and lease records
of equip	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 theKERNOHAN #2
	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
l fu	ther agree to supply to the best of my ability any and all supporting documents deemed by Commission
staff as	necessary to corroborate this claim for exemption from testing.
	2/31/2013
Date: 1	
Date: <u>1</u>	
Date: 1	
Date: <u>1</u>	Signature: Rise Waruck
Date: <u>1</u>	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 KCC WICHT becember 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.

RECEIVED