## Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	:				(	See Instructi	ions on Re	verse Side	)					
<b>✓</b> Op	en Flow	,			Tool Data				A D1	No. 45				
Deliverability				Test Date: 4/10/2015			API No. 15 095-21718-0000							
Company Atlas Operating LLC				Lease MOR			RRIS-WOLF-KEIMIG			5	Well Number 5			
County Location KINGMAN CW/2-NW-SE					Section 35		TWP 30	• • •		W)		Acres Attributed 40		
Field SPIVEY GRABS				Reservoir MISSIS				Gas Gat	hering Conne	ction	K			
Completion Date 04/17/97				Plug Back 4498	CTotal Dept	h		Packer S	iet at		ne	20 Mil		
Casing Si 5 1/2	Casing Size Weight 5 1/2 15.5				Internal Diameter 5		Set at 4521		Perforations 4409		To 4450		CEIVED	
Tubing Si 2 3/8	Tubing Size		Weight		internal D	iameter	Set a		Perforations		То		CEIVED	
Type Completion (Describe) CASING					d Production	<u> </u>	Pump Unit or Traveling Pli PUMP UNIT			Plunger? Yes	/ No			
Producing Thru (Annulus / Tubing) ANNULUS				)	% C	de	% Nitrogen			Gas Gr .675	Gas Gravity - G <sub>g</sub> .675			
Vertical Depth(H) 4401					Pressure Taps PIPE						(Meter f	(Meter Run) (Prover) Size		
Pressure	Buildup	- ); ;	Shut in	)2	0_15_at_1	0:15 am	(AM) (PM)	Taken_4/	11	20	15 <sub>at</sub> 10:15	am (/	M) (PM)	
Well on L	.ine:	;	Started	20	0 at		(AM) (PM)	Taken		20	at	(/	AM) (PM)	
						OBSERVE	D SURFAC	E DATA	· -		Duration of Shut-	in 24	Hours	
Static / Dynamic Property	lynamic Size		Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential re in Inches H <sub>2</sub> 0	Temperature Temperatur		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia		Tubing  Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$ psig. psia		Duration (Hours)	, .	Liquid Produced (Barrels)	
Shut-In		_		•			5	, p.v.=	,,,,,	, ps				
Flow		_				TI OW CTD	EALS ATT	L L						
Plate			Circle one:		<del></del>	FLOW STR	Flowing	IBU I ES					Elevina	
Coefficient $(F_b)(F_p)$ Mcfd		Meter or Prover Pressure psia		Press Extension	Grav Fac	tor	Flowing Temperature Factor	Deviation Factor F <sub>pv</sub>		Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	I	Flowing Fluid Gravity G <sub>m</sub>	
/D \2			/D \2		=	OW) (DELIV		•				² = 0.20	)7	
$\frac{(P_c)^2 = \underline{\qquad \qquad }}{(P_c)^2 - (P_a)^2}$ or $\frac{(P_c)^2 - (P_d)^2}{(P_c)^2 - (P_d)^2}$		<u>·</u> (F	$(P_w)^2 = \frac{(P_w)^2 - (P_w)^2}{(P_w)^2 - (P_w)^2}$	Choose formula 1 or 2  1. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup>			% (P <sub>c</sub> - 14.4) + **  Backpressure Curve Slope = *n"or		n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog		
(P <sub>c</sub> ) <sup>2</sup> - (	P <sub>d</sub> ) <sup>2</sup>			divided by: $P_c^2 - P_w$	and divide	P <sub>c</sub> <sup>2</sup> - P <sub>*</sub> <sup>2</sup>		ssigned lard Slope					Mcfd)	
												-		
Open Flow Mcfd @ 14.65 psia				 65 psia		Deliverability Mcf			Vlcfd @ 14.65 ps	d @ 14.65 psia				
				n behalf of the						ne above repor	t and that he ha		edge of 15 .	
		_	Witness (i	l any)						For C	ompany			
			For Comm	ission	· · · · · · · · · · · · · · · · · · ·					Chec	ked by			

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I declare under penalty of perjury under the laws of the state of Kansas that I am authorized exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Atlas Operating LLC and that the foregoing pressure information and statements contained on this application form correct to the best of my knowledge and belief based upon available production summaries and led of equipment installation and/or upon type of completion or upon use being made of the gas well hereby request a one-year exemption from open flow testing for the MORRIS-WOLF-KEIM gas well on the grounds that said well:	are true and ease records erein named. IIG #5
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 agree to supply to the best of my ability any and all supporting documents deemed staff as necessary to corroborate this claim for exemption from testing.	KCC WICH!  DEC 3 1 2015  RECEIVED  by Commission
Date: 12/29/2015  Signature:	
Title,	_

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.