KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

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	en Flo				(Test Date		tions on Re	verse Side	•	No. 15			
Deliverabilty					08/22/2014					077-21482-0	000		
Company Atlas Operating LLC					Lease DARNES "A"							Well Number 4	
County Location HARPER SW-NW-NE				Section TWP 31				RNG (E/W) 8W			Acres Attributed		
Field SPIVEY GRABS				Reservoir MISSISSIPPI				Gas Gathering Connection ONEOK					
Completion Date 05/15/04				Plug Back Total Depth 4458				Packer S	Set at				
Casing Size 4 1/2			Weight 10.5		Internal Diameter		Set at 4604		Perforations 4403		то 4423		
Tubing Size 2 3/8			Weigh	!	Internal Diameter 2		Set at 4426.07		Perforations		То		
Type Completion (Describe) CASING				Type Fluid Production OIL & WATER			Pump Unit or Traveling Plu PUMP UNIT			Plunger? Yes	/ No		
Producing Thru (Annulus / Tubing) ANNULUS				% Carbon Dioxide .19			% Nitrogen 1.52		Gas G .708	Gas Gravity - G _g .708			
Vertical Depth(H) 4605				Pressure Taps PIPE						(Meter 4	Run) (Prover) Size		
Pressure	Buildu	p:	Shut in _08/2	22 20	14 at 9	:00	. (AM) (PM)	Taken 08	3/23	20	14 _{at} 9:00	(AM) (PM)	
Well on Li	ine:		Started	20) at		(AM) (PM)	Taken		20	at	(AM) (PM)	
	<u>-</u>					OBSERVE	D SURFAC	E DATA			Duration of Shut	in 24 Hours	
Static / Dynamic Property	namic Size		Circle and: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature t t		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In							325	psia	125	para			
Flow	ı										· <u>-</u>		
			i			FLOW ST	REAM ATTR	IBUTES					
Plate Coefficient (F _b) (F _p) Mcfd		Pro	Circle onc: Meter or over Pressure psia Press Extensio		Gravity Factor F _g		Flowing Temperature Factor	Fa	Deviation Metered Flow Factor R F _{pv} (Mcfd)		GOR (Cubic Fo Barrel	et/ Fluid	
										<u>.</u>	<u> </u>		
P _c) ² =		_:	(P _w) ² =	:	(OPEN FL		/ERABILITY % (F) CALCUL ² a - 14.4) +		:		$0^2 = 0.207$ $0^2 = 0.207$	
(P _c) ² - (F or (P _c) ² - (F		(F	P _c)² - (P _w)²	Choose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_d^2$	LOG of formula 1. or 2. and divide	P _c ² -P _w ²	Slop As	ssure Curve pe = "n" - or signed ard Slope	l n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
			-										
Орел Flo	w			Mcfd @ 14.0	55 psia		Deliverab	olity			Wcfd @ 14.65 ps	ia	
·		igne	d authority, or		-	states that I	-		o make ti			as knowledge of	
				id report is true						eptember		, 20	
		_	Witness (if	any)			-		·•	For C	ompany KANS/	Received	
			For Comm	ssion	 		.			Chec	ked by	OCT 0 2 201	

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator Atlas Operating LLC
and that the foregone correct to the best of equipment insta	oing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named. est a one-year exemption from open flow testing for the
gas well on the gr	ounds that said well:
_	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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: 09/29/2014	
	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 must be signed and dated on the front side as though it was a verified report of annual test results.

Received KANSAS CORPORATION COMMISSION

OCT 0 2 2014