KCC WICHITA

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:	: en Flov	,			(\$	See Instruct	ions on Reve	rse Side)					
Deliverabilty			Test Date: 09/21/2011					No. 15 ·21764-0000	1				
Company Atlas Op		 a LL	.c		00/2 1/20		Lease MORRIS	S-WOL	F			Well Nur 2	nber
County KINGMAN			Location C-W/2,SW,NE		Section 35		TWP 30		RNG (E/W) 9W			Acres Attributed 160	
Field SPIVEY	/ GR	ABS	3		Reservoir MISSISSIPPI					Bas Gathering Connection ONEOK			
Completic 03/28/20)			Plug Back 4462	Total Dept	th		Packer S	et at			
Casing Size 5 1/2			Weight 15.5		Internal D	iameter	Set at 4509		Perforations 4388		то 4430		
Tubing Size 2 3/8			Weight 4.7		Internal D	iameter	Set at 4460		Perforations .		То		
Type Con	•	(De			Type Flui	d Production			Pump Un	it or Traveling UNIT	Plunger? Yes	/ No	
		(Anr	nulus / Tubing)		arbon Dioxi	ide		% Nitroge		Gas G	ravity - C	
ANNULUS					0.647				0.49		0.831		<u> </u>
Vertical Depth(H) 4406						Pres PIPE	sure Taps				(Meter	Run) (Pr	over) Size
Pressure	Buildu	p: :	Shut in 09/2	21 2	0 11 at 9	:00am	(AM) (PM) T	aken_09	/22	20	11 _{at} 9:00ai	<u>m</u> (AM) (PM)
Well on L	ine:	į	Started	2	0 at		(AM) (PM) T	aken		20	at	(AM) (PM)
						OBSERVE	D SURFACE	DATA			Duration of Shut	-in 24	Hours
Static / Dynamic Property	Orifi Size (inche	8	Circle one: Meter Prover Pressu: psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Hand Casing Tubing		Duration	Liquid Produced (Barrels)				
Shut-In							5						
Flow													
						FLOW ST	REAM ATTRIE	UTES	-				 1
Plate Coefflecient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or over Pressure psia	Press Extension	Gra Fac F	tor	Flowing Temperature Factor F _{ft}	Deviation Factor F _{pv}		Metered Flow R (Mcfd)	GOR (Cubic F Barrel	eet/	Flowing Fluid Gravity G _m
													!
/D \2			(P _w) ² =	,	(OPEN FL	• •	/ERABILITY) % (P.	CALCUL - 14.4) +		-) ² = 0.2) ² =	:07
$\frac{(P_c)^2 = \underline{\qquad }}{(P_c)^2 - (P_c)^2 - (P_c)$	· l	· (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 _w	LOG of formula 1. or 2. and divide		Backpress Slope 	sure Curve = "n" or gned rd Slope	n x	LOG	Antilog	O _I Del Equals	pen Flow iverability 3 R x Antilog (Mcfd)
										,			
									j				
Open Flow Mcfd @ 14.65 psia				Deliverabil	Deliverability Mcfd @ 14.65 psia								
		_		n behalf of the					o make th day of <u>J</u>		rt and that he h		riedge of 2012.
			Witness (i				_	<u>' </u>		For C	OMPARKEUE!	VED	
			For Comm	ission						Che	cked FEB 2 7	2012	

	der penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Atlas Operating, LLC
	going pressure information and statements contained on this application form are true and
correct to the bes	et 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. sest a one-year exemption from open flow testing for the MORRIS-WOLF #2
	rounds that said well:
(Check	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 se to supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessa	ry to corroborate this claim for exemption from testing.
Date: 01/31/201	2
	Signature: Regulatory Coordinator

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.