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

Type Test	t:				(	See Instructi	ons on Re	verse Side,	)					
Ор	en Flo	W			Total Date:									
Deliverabilty				Test Date: 10/12/2015				API No. 15 <b>15-007-22053 ~ 0000</b>						
Company Norstar Petroleum Inc.					Lease Vanderwork			1-7			Well Number			
County Location Barber C NE NW				Section 7		TWP RNG (E/W) 32S 12W			•		Acres Attributed 160			
Field Medicine River				Reservoi Mississ		Gas Gathering Connec West, Wichit			ection t.a. Gas	Gat	herina			
Completion Date 7/15/85					Plug Back Total Depth 4605		Pack Nor		Packer Sone	et at		KC	<del>ک</del> ۲.	
Casing Size 4.5			Weight 10.5		Internal Diameter 3.995		Set at 4648		Perforations 4252		то 4268	To ACCIVED		
Tubing S 2.375	Tubing Size 2.375		Weight 4.7		Internal Diameter 1.995		Set at 4275		Perforations		To	REC	2015	
Type Cor Casing	npletio	n (De	escribe)		Type Fluid Production Oil and Water		P F		Pump Unit or Traveling Plung Pumping		Plunger? Yes	/ No	EIVED	
Producing Thru (Annulus / Tubing)				% C	Carbon Dioxid	de	·		······································	Gas Gravity - G <sub>g</sub>				
Casing Vertical D	Depth(H	i)	appending on the State of Stat	······································	ottue estatut promise de la composition della co	Press	sure Taps			TO THE PROPERTY OF THE PROPERT	(Meter	Run) (P	rover) Size	
Pressure	Duilde		Chut in Octo	ober 11 2	, 15 <sub>at</sub> 10	0:00	(ALD)(DLA)	Takan Od	tober 12	2 00	15 <sub>at</sub> 10:00	· <b>-</b>	AM) (PM)	
Well on L						_					at	_		
	•					OBSERVE	D SURFAC	F DATA			Duration of Shut	t-in 2	Hours	
Static / Dynamic	namic Size		Circle one: Meter Prover Pressu	Pressure Differential re in	Flowing Temperature	Well Head Temperature	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)		
Property Shut-In	-		psig (Pm)	Inches H <sub>2</sub> 0	t t		psig	psia	psig 4	psia 18.7		-		
Flow										1,017				
				l .	1	FLOW STR	EAM ATTR	IBUTES	<u></u>			1		
Plate Coeffictient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Pro	Circle one: Meter or over Pressure psia	Press Extension ✓ P <sub>m</sub> xh	Gravity Factor F <sub>g</sub>		Flowing Device Factor F <sub>n</sub>		tor R		v GOR (Cubic F Barrel	eat/	Flowing Fluid Gravity G <sub>m</sub>	
<u> </u>					(ODEN EL	OW) (DELIVI	ED A DILITY	) CALCUI	ATIONE					
(P <sub>c</sub> ) <sup>2</sup> =		;	(P <sub>w</sub> ) <sup>2</sup> =	;		OW) (DELIVI 		) CALCUL 2 - 14.4) +		:		$()^2 = 0.2$ $()^2 =$	207	
$(P_c)^2 - (P_g)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		Choose tarmula 1 or 2  1. $P_c^2 - P_b^2$ 2. $P_c^2 - P_d^2$ tlivided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2.	MAIN.	Backpressure Curve Stope = "n" or Assigned Standard Slope		n x LOG		Antilog	O <sub>i</sub> Del Equals	Open Flow Deliverability Equals R x Antilog (Mcfd)	
				· · · · · · · · · · · · · · · · · ·										
Open Flo	Open Flow		Mcfd @ 14.65 psia				Deliverat	sility		Mcfd @ 14.65 p			esia	
<u> </u>		:						-			<u></u>			
		_	*	id report is true	, ,			_		e above repo	rt and that he h		ledge of 20 <u>15</u> .	
			Witness (ii				-	B	rady	PE	Afer			
			For Comm	ssion						Che	ked by		_	

I declare under penalty of perjury under the laws of the state of Kansas that I am author exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Norstar Petroleum Inc.	orized to request
and that the foregoing pressure information and statements contained on this application for correct to the best of my knowledge and belief based upon available production summaries at 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 Vanderwork 1-7 gas well on the grounds that said well:	nd lease records
(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  I further agree to supply to the best of my ability any and all supporting documents deer staff as necessary to corroborate this claim for exemption from testing.	
Date: October 22, 2015	KCC WICHITA NOV 09 2015 RECEIVED
Signature:  Title: Engineer	

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.