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

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Type Tes	t:				(	(See Instruct	tions on Re	verse Side	9)			•		
	en Flo	-	1		Test Date	∌:			API	No. 15				
✓ Deliverability 15-185-12,143-0001														
Company Northerr	y 1 Light	s Qi	l Co., L.C.		j *··t	. •		Lease HARDTEN			Well Number 1			
County Location Stafford SESESE					Section 11		TWP 24S			RNG (E/W) 15W		Acres Attributed		
Field Macksvi	lle Eas	st `			Reservoi Viola	r				nering Conne ENERGY	ction	on KCC: M/IC  MA 1 1 20		
Completi- 8-23-198		9			Plug Bac	k Total Dept	'n		Packer S 4188'	et at		MA	10 20	
Casing Size Weight 4 1/2" 9.5#				Internal Diameter		Set at 4187'		Perforations 4018'		To				
Tubing Size Weight 2 3/8" 4.7#					Internal [	Internal Diameter		Set at Perfor 4056'		ations	То			
Type Completion (Describe)  Type Fluid Production  Pump Unit or Traveling Plunger? Yes / No Single (Gas)														
Producing Thru (Annulus / Tubing)											avity - G	9		
Vertical Depth(H) Pressure Taps (Meter Run) (Prover) Size														
Pressure	Buildup	o: 5	Shut in	ec 23 2	0 14 at_	9; <u>Z</u> d	(AM) (PM)	Taken		20 .	r at	(/	AM) (PM)	
Well on Line: Started												AM) (PM)		
						OBSERVE	D SURFACE	DATA		- <del></del> .	Duration of Shut-	In_2	<b>⊮</b> Hours	
Static / Dynamic Property	amic Size		Circle one: Meter Prover Pressui	Pressure Differential e in	Flowing Well Head Temperature Temperature		Casing Wellhead Pressure (P <sub>m</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration Liqu		l Produced Jarrels)	
Shut-In	<b>\</b>	psig (Pm)		Inches H <sub>2</sub> 0			psig (86)		psig psia					
Flow	-	1					(/8		112			<del>                                     </del>		
				- L		FLOW STR	EAM ATTRI	BUTES				<del>'.</del>	<del></del>	
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mefd		Circle one: Meter or Prove: Pressure psia		Press Extension √P <sub>m</sub> xh	Faci	Gravity Factor F <sub>g</sub>		ring Deviation Factor F <sub>pv</sub>		Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
								<u> </u>					-	
(P <sub>c</sub> ) <sup>2</sup> =	,	_:	(P <sub>*</sub> )² ≃_	:	(OPEN FLO	OW) (DELIVI 	•	CALCUL   <sub>c</sub> - 14.4) +		<u>:</u>	(P <sub>a</sub> )	² ≈ 0.20 ² =	)7	
$(P_c)^2 - (P_a)^2$ or $(P_o)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		hoose formula 1 or 2:  1. $P_c^2 - P_s^2$ 2. $P_c^2 - P_d^2$ vided by: $P_c^2 - P_s^2$	LOG of formula 1, or 2, and divide	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Backpressure Cur Slope = "n" or Assigned Standard Slope		nxL	og [ ]	Antilog /	Open Flow Deliverability Equals R x Antilog (Mcfd)		
Open Flow Mcfd @ 14.65 psia  The undersigned authority, on behalf of the Company							Deliverability				Acfd @ 14.65 psi			
				behalf of the d report is true				11	o make the	above repor	t and that he ha		edge of eo <u>(</u> 4	
					a.	<u>(CC 1</u> 8	II CLUTE	'A			· 			
			Witness (if			<del>(CC W</del>		<b>~</b>	$\mathcal{A}$	Plive /	1900 Dreeg			
_	_		For Commis	sion		JAN 0	5 2015			Check	¥d by		· <del></del>	

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exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Northern Lights Oil Co., L.C.
and that the foregoing pressure information and statements contained on this application form are true and
correct to the best of my knowledge and belief based upon available production summaries and lease records
of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.  I hereby request a one-year exemption from open flow testing for the HARDTEN 1
gas well 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  I further 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.
Date: 3-9-2015  KCC W!CHITA  MAR 10 2010  RECEIVED  JAN 05 2015  Title:   RECEIVED

Instructions:

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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.