KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test				(See Instruct	tions on Rev	rerse Side)					
Open Flow ✓ Deliverability				Test Date	Test Date: API No. 15 15-185-23692-000						_		
Company Northern Lights Oil Co., L.C.				Lease Munz			2				Well Number		
County Location Stafford N/2 NW SE			Section 2		TWP 24		RNG (E/W) 15W			Acres Attributed			
Field Macksville			Reservoii Viola	Reservoir Viola			Gas Gathering Connection Lumen Energy						
Completion Date 8-1-11			Plug Bac	Plug Back Total Depth			Packer Set at 4179'						
Casing Size Weight 4.5" 11.6#			Internal [Diameter	Set at 4179'		Perforations 4086'		То				
Tubing Size Weight 2 3/8" 4.7#			Internal I		Set at 4160'		Perforations		То				
Type Completion (Describe) Single				Type Fluid Production Oil/SW			Pump Unit or Traveling Plunger Pumping Unit			Yes /			
Producing Thru (Annulus / Tubing) Annulus			% c .4576	arbon Dioxi	de	% Nitrogen 3.9977				Gas Grav .689	ity - G _g		
Vertical Depth(H)					Pressure Taps Flange						(Meter Ru 2"	n) (Prover) Size	
Pressure	Buildup:	Shut in	Dec 23 2	10 <u>14</u> at	9:00	(AM) (PM)	Taken	27				(AM) (PM)	
Well on L	ine:	Started		0 <u>/ </u>	9:10	(AM) (PM)	Taken	G Z	20	at	••	(AM) (PM)	
				···	OBSERVE	D SURFACE	DATA			Duration	of Shut-in	Z 4 Hours	
Static / Dynamic Property	Orifice Size (inches	Meter Prover Press	Prover Pressure in		Flowing Well Head Temperature t		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		ion rs)	Liquid Produced " (Barrels)	
Shut-In	<u> </u>	psig (Pm	inches H ₂ 0			psig 27	psia	- psig psia					
Flow						62					İ		
				!	FLOW STR	EAM ATTRI	BUTES			L			
Plate Coeffiecient (F _b) (F _p) Mofd		Circle ono: Meter or Prover Pressure psia	Press Extension √ P _m x h	Extension Fact		Flowing Gemperature Factor F ₁₁	Fa	iation ctor py	tor R		GOR Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m	
· - ·				(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS			/P \ ² =	0.207	
(P _c) ² =		: (P _w) ²	=:	P _d =		% (P	· - 14.4) +	14.4 ==			(P _d) ² =		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		$ \begin{array}{c c} Chaose tormula 1 or 2: \\ (P_c)^2 - (P_w)^2 & 1. \ P_c^2 - P_a^2 \\ 2. \ P_c^2 - P_d^2 \\ divided by: \ P_c^2 - P_w^2 \end{array} $		LOG of formula 1. or 2. and divide	formula 1. of 2. and divide P_2_P_2		Backpressure Curve Slope = "n" Assigned Standard Stope		n x LOG		og E	Open Flow Deliverability Equals R x Antilog (Mcfd)	
-										_			
Open Flow Mcfd @		Mcfd @ 14.	.65 psia ,		Deliverability		,	, Mcfd,@ 14.65 psla					
			on behalf of the said report is true				ithorized t		ne above repo	ort and the	nt he has	knowledge of	
		Witness	(if any)	į	KCC W	VICH!	**	2	Save /4	Company JDD rec	9		
		For Com	mission		JAN 0	5 2015			he	cked by V	<i>,</i>		
					REC	EIVED							

exempt status under Rule K.A.R. 82-3-3 and that the foregoing pressure inform correct to the best of my knowledge an of equipment installation and/or upon ty	under the laws of the state of Kansas that I am authorized to request 304 on behalf of the operator Northern Lights Oil Co., L.C. nation and statements contained on this application form are true and d belief based upon available production summaries and lease records upon of completion or upon use being made of the gas well herein named. Stion from open flow testing for the Munz #2
is on vacuum at the	r lift due to water al gas for injection into an oil reservoir undergoing ER present time; KCC approval Docket No oducing at a daily rate in excess of 250 mcf/D at of my ability any and all supporting documents deemed by Commission
Date: 12-27-2014 KCC WICHITA JAN 05 2015 RECEIVED	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.