KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

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Type Tes	t:		(See Instructions on Reverse Side)												
Open Flow				Test Date: API No. 15											
✓ Deliverabilty					lest Date.					15-185-23692-0000					
Company Northern Lights Oil Co., L.C.				****1		Lease Munz					2	Well No	ımber		
County Location Stafford N/2 NW SE			Section 2					RNG (E/W) 15W			Acres Attributed		Attributed		
Field Macksville				Reservoir Viola	r				Gas Gathering Conn Lumen Energy			KCC M/O			
Completion Date 8-1-11				Plug Back Total Depti			1		Packer Set at 4179'			KCC WICHIT MAR 1-0-2015 TO RECEIVED			
Casing S 4.5"	Casing Size Weight 4.5" 11.6#			Internal Diameter			Set at 4179'		Perforations 4086'			To RECE:		2015	
Tubing Si 2 3/8"	Tubing Size Weight 2.3/8" 4.7#			Internal Diameter			Set at 4160'		Perforations			То		PEIVED	
	npletion	(Describe)			Type Flui Oil/SW		ction				nit or Trave	ling Pl	unger? Yes	/ No	
Producing Thru (Annulus / Tubing) Annulus				% Carbon Dioxide					% Nitrogen 3.9977				Gas Gravity - G _g .689		
Vertical Depth(H)				Pressure Taps Flange					(Mete 2"				Run) (F	rover) Size	
Pressure	Buildup:	Shut in	B	ec 23 2	0. /4 at		_	_/	Taken	27	•	20	_ at		(AM) (PM)
Well on L	ine:	Started	De	< 28 20	0 <u>/</u> at	9:10	((AM) (PM)	Taken	ĢΖ		20 _	_ at		(AM) (PM)
					**	OBSEF	RVEC	SURFACE	E DATA			Du	ration of Shut	-in	4 Hours
Static / Dynamic Property	Orifice Size (Inches	Prover Pressure		Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well He Temperat	perature Wellhead		Pressure	Wellhe	. 17		Duration (Hours)		ld Produced (Barrels)
Shut-In		1.5						27	psia	paig .	psia				
Flow					-			6Z							
						FLOW 5	STRE	EAM ATTRI	BUTES						
Plate Coeffied (F _b) (F Mofd	ient 。)	Circle one: Meter or Prover Pressure psia		Press Grav Extension Fac ✓ P _m xh F ₁		tor Te		Flowing imperature Factor F ₁₁	Fa	iation ctor py	Metered Flow R (Mcfd)		GOR (Cubic Fe Barrel)	eet/	Flowing Fluid Gravity G _m
					(OPEN FL	OW) (DE	LIVE	RABILITY)	CALCUL	ATIONS			<u> </u>) ² = 0.2	207
(P _c) ² =		(P_) ²	=	:	P _d =		%	(P	· 14.4) +	14.4 =	:		(P _a)		
(P _o) ² - (F or (P _o) ² - (F	•	(P ₀) ² - (P _w) ²		se formula 1 or 2: Pc² - Pc² Pc² - Pc² Pc² - Pc²	LOG of formula 1. or 2. and divide	LOG of formula 1. or 2. and divide p 2. p		Backpress Slope 0 Assig Standard		n x	x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
												$oxed{\Box}$,	
Open: Flov	<u> </u>			Mcfd @ 14.0	SE pela			Deliverabi	ilitu				fd.@ 14.65 ps	da da	<u> </u>
•	7. 3							•	•	•					
		ned authority, rein, and that								o make the	ne above n	eport a	and that he ha		viedge of 20 <u>(4-</u>
		-		-						•				_,	_
		Witness	(if any)	<u> </u>	KC	S W I	C	-11TA -		9	<u> </u>	ForCom	pany NO		
		For Cor	nmission	1	JA	N 05	-20)15 -		_X	Save f	hecked	Iby V		

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exempt status under Rule K.A.R. 82-3- and that the foregoing pressure infor- correct to the best of my knowledge ar of equipment installation and/or upon t	y 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. mation and statements contained on this application form are true and had belief based upon available production summaries and lease records type of completion or upon use being made of the gas well herein named. Sption from open flow testing for the Munz #2
is on vacuum at the	er lift due to water ral gas for injection into an oil reservoir undergoing ER e present time; KCC approval Docket No roducing at a daily rate in excess of 250 mcf/D st of my ability any and all supporting documents deemed by Commission
Date: 3-9-2013 KCC WICHITA JAN 05 2015 RECEIVED	Signature: EXPLORATION MARE KCC WICHITA MAR 10 2015 RECEIVED

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.