KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

type test	•					ı	Occ mar	, aca	uns un ne	V6130 DIU	٠,				
	en Flo liverab					Test Date	э:					No. 15	0000		
Company									Lease BRENS	ING	10	-185-20,767-	1-21	Well N	umber
Northern Lights Oil Co., L.C. County Location				Section			TWP		RNG (E/W)		1-21	Acres Attributed			
Stafford C SE SW Field			21			248		15W Gas Gathering Conne							
Farmington				Reservoir Kinderhook					LUMEN ENERGY		ECHOIT				
Completion Date 9/24/1977				Plug Back Total Depth 4300'			I		Packer Set at None				Mar		
Casing Si 4 1/2"	asing Size Weight 1/2" 10.5#				Internal Diameter			Set at 4299'		Perforations 4208'-4212'		То		·// (
Tubing Size Welgl			ht Internal			Diameter		Set at 4201'		Perforations		То		NOV O	
2 3/8" Type Con					····	Type Fluid Production			420	1	Pump Unit or Travelin		Plunger? Yes	/ No	
Single (ıulus / Tubin	iu)		SW %.c	Carbon D	iovid		Pum % Nitr		ing Unit	Gás G	Gás Gravity - G	
Freducing Tubing	, illiu	(Atii	iulus / Iubii:	19)		76 (aloul D	IUXIU	ie.		76 MILIO	you	Gas C	navity -	u _g
Vertical D	epth(H	1)							ure Taps				(Meter	Run) (F	rover) Size
				(0)	. 27	15		ang					_		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Pressure Buildup: Shut in		10	10.28 14		at 7:70 ((AM) (PM) Taken		20		at	(AM) (PM)			
Well on L	ine:	,	Started		20) • • at	/·•		(AM) (PM)	Taken		20	at		(AM) (PM)
				1			OBSEF	₹VEC	SURFAC	E DATA			Duration of Shu	t-in <u> </u>	4Hours
		ifice Circle one:		İ	Pressure Differential	Flowing Temperature	Well Head Temperature		Casing Wellhead Pressure		Tubing Wellhead Pressure		Duration	Liquid Produced	
Property		inches) Prover Pres				t t	t	uie	(P_w) or (P_t) or (P_c) psig psia		(P _w) o	or (P _t) or (P _c)	(Hours)	(Barrels)	
Shut-In									33	Pula	poig	μοια			
Flow									43						
							FLOW S	STRE	EAM ATTR	IBUTES			,		
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia			Press Extension	Grav Fac	tor	Flowin Tempera Facto		perature F		Metered Flow	GOF (Cubic F Barre	eet/	Flowing Ffuid Gravity
					✓ P _m xh	F _g		F,,			F _{pv}	(McId)	bare	''	G _m
					·	(OPEN EL	OW) (DE		RABILITY	CALCUI	ATIONS				
P _c)² ≕		_:	(P _w) ² =	=	:	•					+ 14.4 =	;		$()^2 = 0.5$ $()^2 =$	207
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		Choose formula 1 or 2: 1. P _c ² - P _d ² 2. P _c ² - P _d ²		LOG of formula		Backpressure Curv Slope = "n" or Assigned		n v 106		Antilog	Open Flow Deliverability Equals R x Antilog		
(P _e)2- (F	^{'a)²}				ed by: P _c ² - P _w ²	and divide by:	P _c ² -P _w	2 		ard Slope					(Mcfd)
ara.											 				
Open Flow Mcfd @ 14				 I.65 psia			Deliverability		Mcf		Mcfd @ 14.65 p	ifd @ 14.65 psia			
The u	undersi	~		on be	ehalf of the	Company, s			-			he above repo	rt and that he h		vledge of 20 <u>/ 5</u> .
			Witness	(if any)				-		3 .0	For	Company		
			For Com	missio	<u> </u>				-		286	Tave (jo	ked by		

	re under penalty of perjury under the laws of the state of Kansas that I am authorized to request tus under Rule K.A.R. 82-3-304 on behalf of the operator Northern Lights Oil Co., L.C.	
	e foregoing pressure information and statements contained on this application form are true and	
correct to th	ne best of my knowledge and belief based upon available production summaries and lease records	
of equipme	nt installation and/or upon type of completion or upon use being made of the gas well herein named.	
I hereb	y request a one-year exemption from open flow testing for the BRENSING 1-21	
	KC	C I
1	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	V 0.
	is a coalbed methane producer	' <i>U</i> 5
	is cycled on plunger lift due to water	CEI
	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 furthe	r agree to supply to the best of my ability any and all supporting documents deemed by Commissi	on
staff as ned	cessary to corroborate this claim for exemption from testing.	
	_	
Date:	11-2-2015	
Date.	<u>*************************************</u>	
	$\mathcal{O}\mathcal{D}$	
	Signature:	
	a manufacture of	
	Title:	

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.