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

Type Test	:				(	See Instruc	ctions on Reve	erse Side	<del>)</del> )				
= :	en Flov liverabi				Test Date	e:				No. 15 023-21209 <b>-</b> 0	0-00		
Company NOBLE		GY, II	NC.				Lease NELSON				21-17	Well Number	
County CHEYENNE			Location W2/SE/		Section 17		TWP 2S		RNG (E/W) 38W		Acres Attributed		
Field BIG TIMBER				Reservoir NIOBRA				hering Conne	etion				
Completic 1/21/200		ə			Plug Bac 1519'	k Total Der	oth		Packer S	Set at			
Casing Si 7", 4-1/2			Weight 17#, 1		Internal Diameter 9-7/8", 6-1/4"		Set at 292', 1563'		Perforations 1358'		To 1380'	то 1380'	
Tubing Si 2-3/8"	···		Weight	Internal Diameter 1,995		Set at 1404'		Perforations		То			
Type Con Single (		(Des			Type Fluid Production Saltwater				Pump Unit or Traveling Plung Yes		Plunger? Yes	nger? Yes / No	
		(Annul	lus / Tubing	)	% C	arbon Diox	kide		% Nitrog	en	Gas Gr	avity - G <sub>0</sub>	
Vertical D	epth(H	1)				Pre	ssure Taps	*			(Meter F	Run) (Prover) Size	
Pressure	Buildur	n: Sh	nut in11/3	7 2	13 <sub>at</sub> 9	:15	(AM) (PM)			20	at	(AM) (PM)	
Well on L		St	arted 10/2	25 2	0 13 at 1	0:15	(AM) (PM) <sup>-</sup>	Taken		20	at	(AM) (PM)	
							ED SURFACE				Duration of Shut-	25	
Static / Dynamic Property	Dynamic Size		Circle one: Meter rover Pressu psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	e Wellhead P	d Pressure W P <sub>1</sub> ) or (P <sub>c</sub> ) (P		fubing ad Pressure (P <sub>1</sub> ) or (P <sub>c</sub> )	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In			porg (r m)	1101100 1120			psig 18	psia	psig	psia			
Flow													
r						FLOW ST	REAM ATTRI	BUTES					
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		M Prove	rde one: leter or er Pressure psia	Press Extension	Grav Fac	tor	Flowing Temperature Factor F <sub>f1</sub>	emperature Fact		Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G <sub>m</sub>	
								ļ					
(P <sub>c</sub> ) <sup>2</sup> =		:	(P <sub>w</sub> ) <sup>2</sup> =	:	(OPEN FL		VERABILITY) % (P,	CALCUL - 14.4) +		:	(P <sub>a</sub> ) (P <sub>d</sub> )	<sup>2</sup> = 0.207 <sup>2</sup> =	
(P <sub>c</sub> ) <sup>2</sup> - (I or (P <sub>c</sub> ) <sup>2</sup> - (I	P_)2		²- (P <sub>w</sub> )²	Choose formula 1 or 2  1. P <sub>c</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> -P <sub>w</sub>	LOG of formula 1, or 2.		Backpres Slope Assi	sure Curve		LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
			-		<u> </u>	<u></u>				····			
Open Flo				Mcfd @ 14	.65 psia	<del></del>	Deliverabil	itv			Mcfd @ 14.65 psi	a	
		igned a	authority, or			states that			to make th		rt and that he ha		
the facts s	tated th	herein,	and that sa	aid report is tru	e and correc	t. Execute	d this the 18	th	day of _D	ECEMBER		, 20 <u>13</u>	
			Witness (i	l any)			_			For C	ompany <b>KCC</b>	WICHITA	
			For Comm	ission		-	_			Chec			
											DEC	3 0 2013	

	under penalty of perjury under the laws of the state of Kansas that I am authorized to request under Rule K.A.R. 82-3-304 on behalf of the operator NOBLE ENERGY, INC.
and that the fo correct to the b of equipment in	regoing pressure information and statements contained on this application form are true and sest of my knowledge and belief based upon available production summaries and lease records installation and/or upon type of completion or upon use being made of the gas well herein named.  I would be a summaried and belief based upon available production summaries and lease records installation and/or upon type of completion or upon use being made of the gas well herein named.  I would be a summaried and belief based upon available production summaries and lease records installation and/or upon type of completion or upon use being made of the gas well herein named.  I would be a summaried and belief based upon available production summaries and lease records installation and/or upon type of completion or upon use being made of the gas well herein named.  I would be a summaried and belief based upon available production summaries and lease records installation and/or upon type of completion or upon use being made of the gas well herein named.  I would be a summaried and belief based upon available production summaries and lease records installation and summaries and lease records installation and summaries and lease records installation and summaries are upon the summaries and lease records installation and summaries and lease records in the summaries and lease records
-	e grounds that said well:  eck 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
	gree to supply to the best of my ability any and all supporting documents deemed by Commission sary to corroborate this claim for exemption from testing.
Date: 12/18/20	013
	Signature: Muse-Reynolds  Title: REGULATORY ANALYST III

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.

KCC WICHITA

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