KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:					(See Instruc	tions on Re	verse Side)				
Open Flow Deliverability			Test Date:					API No. 15 15-023-21130-00-00						
Company Noble Energy Inc						Lease Ham				32-10	Well Number 32-10			
County			Locat SW-N\	ion V-SW-N	JE	Section 10		TWP 2S	TWP 2S		E/W)		Acres Attributed	
Field Cherry Creek						Reservoir Niobrara		<u> </u>	Ga		Gas Gathering Connection Southern Star		RECEIVED	
Completic 11/17/20		e				Plug Bac 1302'	k Total Dep	th		Packer	Set at		DEC	0 5 2012
Casing Size 7", 4 1/2"			Weig! 17#,			Internal [9 7/8",		Set at 155', 1330'		Perforations 1125'		то 1160'	το 1160' KCC WI	
Tubing Size			Weight			Internal Diameter		Set at		Perforations		То		
2 3/8" Type Con	nletio	n (De	4.7#			1.995	d Productio	118	90'	Pump L	Init or Traveling	Plunger? Yes	/ No	
Single (gas)					Saltwa				yes	The state of the s			
Producing Thru (Ann			nulus / Tubin	g)		% C	Carbon Diox	ide	e %		% Nitrogen		Gas Gravity - G _g	
Tubing Vertical D	epth(H		,				Pres	ssure Taps				(Meter I	Run) (Prover) Si	ze
			0.17			40 0	.20						······································	
Pressure Buildup:		p:						(AM) (PM) Taken					•	
Well on L	ine:		Started 8/8	·	2	0 12 at 1	1:30	(PM)	Taken		20	at	(AM) (PM	1)
							OBSERVE	ED SURFAC	E DATA			Duration of Shut-	in_26Ho	ours
Static / Orifice Dynamic Size Property (inches)		:е	Circle one: Meter Prover Press	Diffe	ssure rential in	Flowing Well Head Temperature Temperatu		Molhood Droceuro		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produce (Barrels)	d
Property Shut-In			psig (Pm)	Inch	es H ₂ 0	<u> </u>		psig 226	psia	psig psia				
Flow														
				<u> </u>		L	FLOW STI	REAM ATT	RIBUTES			•		
Plate Coeffiecient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m xh		vity tor	Flowing Temperature Factor F _{ft}	Fa	eviation Metered Flow Factor R F _{pv} (Mcfd)		(Cubic Fe	GOR Flowing (Cubic Feet/ Gravity Barrel) Gi	
				1										
(D)2 _			(D.)2.	_		•	, ,	/ERABILIT\ % (•				² = 0.207 ² =	
$(P_c)^2 = \frac{(P_c)^2 - (P_a)^2}{\text{or} (P_c)^2 - (P_a)^2}$		$\frac{(P_w)^2 - (P_w)^2}{(P_c)^2 - (P_w)^2}$		Choose form 1. P _c 2. P _c	nula 1 or 2 2 - P _g 2	E LOG of formula 1. or 2. and divide		Backpressure Curve Slope = "n"		e n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog	
	-			divided by:	P _c ² -P _w	2 by:		Stand	dard Slope		<u>لـ</u> ــا		(Mcfd)	
								_						
Open Flow				Mefr	1 @ 14	 .65 psia	5 nsia		Deliverability			Icfd @ 14.65 psia		
The	unders		d authority, o	on behalf	of the	Company,		he is duly a	uthorized	_		ort and that he ha		 : <i>·</i>
			Witness	(if any)							For	Company		
	 		For Com	mission							Che	cked by		

	nder penalty of perjury under the laws of the state of Kansas that I am authorized to request nder Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
* *	egoing pressure information and statements contained on this application form are true and est of my knowledge and belief based upon available production summaries and lease records
of equipment in	stallation and/or upon type of completion or upon use being made of the gas well herein named. Juest a one-year exemption from open flow testing for the Ham 32-10
	grounds that said well:
I further ag	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 ree to supply to the best of my ability any and all supporting documents deemed by Commissionary to corroborate this claim for exemption from testing.
Date: <u>11/30/20</u>	Signature: Regulatory Aralyst

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.