KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:					(See Instru	uctions on He	verse Side	9)			
= :	en Flo liverat					Test Date) ;				No. 15 023-20798-	∞- <u></u>	
Company Noble Er		, Inc	<u>.</u>					Lease Raile		15-	023-20796-		Well Number
County Cheyenr	unty Location				Section 31		TWP 3S			W)		Acres Attributed	
Field Cherry Creek						Reservoir Niobrara					thering Conn ern Star/Kind		RECEIVE DEC 0 5 2 KCC WICH
Completion 127/200		te				Plug Bac 1589'	k Total De	epth		Packer S	Set at		DEC 0 5 2
Casing S 7", 4+1/2	•		Internal Diameter 9+7/8", 6+1/4"			Set at 302', 1645'		rations 4'	To 1496'	KCC WICH			
Tubing Si 2+3/8"	Size Weight			Internal Diameter 1.995		Set at		Perforations		То			
ype Con	Completion (Describe) gle (gas)				Type Flui	d Product ter	ion		Pump Unit or Traveli yes		Plunger? Yes / No		
-	Thru	(Anı	nulus / Tubii	ng)		% C	arbon Dic	oxide		% Nitrog	j en	Gas Gr	avity - G _g
ubing /ertical D	Ding rtical Depth(H)					Pressure Taps					(Meter I	Run) (Prover) Size	
ressure	Buildu	ıp:	Shut in	19	2	12 at 1	2:00	(AM)(PM)	Taken		20	at	(AM) (PM)
Well on L	ine:		Started 1/2	20	20	12 at 3	:10	_ (AM)(PM)	Taken		20	at	(AM) (PM)
				•			OBSER	VED SURFAC	E DATA			Duration of Shut-	in 27 Hours
Static / Dynamic Property	Orif Siz (inch	Prover Pres		1 1		Flowing Well Here Temperature t		Wallhaad Praceure		Tubing Wellhead Pressure (P _w) or (P _r) or (P _c) psig psia		Duration (Hours)	Liquid Produced (Barrels)
Shut-in								82					
Flow													
							FLOW S	TREAM ATTR	IBUTES	•			
Plate Coeffiec (F _b) (F Mcfd	ient ,)	Circle one: Meter or Prover Pressure psia			Press Extension	Gravity Factor F _g		Flowing Temperature Factor F _{II}	Fa	viation actor F _{pv}	Metered Flo R (Mcfd)	w GOR (Cubic Fe Barrel)	1 Gravity
				ŀ									
P _c) ² =		_:_	(P _w) ²		:	•	OW) (DEL	.IVERABILITY %(F) CALCUI ⁻ 。 - 14.4) +		· · · · · · · · · · · · · · · · · · ·	. 4.	² = 0.207 ² =
(P _c) ² - (I or (P _c) ² - (I	P _a) ²	(F	P _c) ² - (P _w) ²	1. 2	se formula 1 or 2: $P_{c}^{2} - P_{a}^{2}$ $P_{c}^{2} - P_{d}^{2}$ of by: $P_{c}^{2} - P_{w}^{2}$	LOG of formula 1. or 2. and divide by:	P _c ² - P _g ²	Slo	ssure Curve pe = "n" - or signed lard Slope	n v	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
Open Flo	w				Mcfd @ 14.	55 psia		Deliverab	pility			Mcfd @ 14.65 ps	ia
												ort and that he ha	-
e tacts s	tated t	inere	in, and that	said re	eport is true	and correc	t. Execut	ed this the 3		day of	.5.0/11001		, 20 12
			Witness	(if any)						······································	For	Company	
			For Corr	mission	1						Che	ecked by	<u> </u>

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc. and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease record of equipment installation and/or upon type of completion or upon use being made of the gas well herein named I hereby request a one-year exemption from open flow testing for the Raile 41-31	- d s
gas well on the grounds that said well:	
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 I further agree to supply to the best of my ability any and all supporting documents deemed by Commission.	sion
staff as necessary to corroborate this claim for exemption from testing.	
Date:	
Signature: 3	
Title: Regulatory Analyst	

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.