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Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

= '	: en Flo liverab				(e	See Instruct	ions on Re	verse Side	API	No. 15)23-21195-0	n-00		
Company Noble Et		Inc	<u> </u>		_		Lease Keller F	arms	10 (20 21130-0		Well Nu	mber
County Location Cheyenne SE-NW-SW-SE			Section 18		TWP 2S		RNG (E/W) 38W		*	Acres Attributed			
Field Cherry C					Reservoir Niobrara	•				nering Conne	ection		
Completic 1/8/2009		te			Plug Bac 1446'	k Total Dept	ih		Packer S	et at			
Casing S 7", 4-1/2			Weight 17#, 1		Internal E 9-7/8",		Set 255	at ',1486'	Perfor	rations)'	то 1240'	** -	
Tubing Si 2-3/8"	ing Size		Weight 4.7#		Internal Diameter 1.995		Set at 1277'		Perforations		То		
Type Con Single (-		escribe)		Type Flui Saltwa	d Production ter	ו		Pump Un	it or Traveling	Plunger? Yes	/ No	
			nulus / Tubing)	1		arbon Dioxi	de		% Nitrog	en	Gas Gr	avity - (Àg
Vertical D	epth(F	1)				Pres	sure Taps				(Meter I	Run) (P	rover) Size
Pressure	Buildu	ıp:	Shut in	2	0_13_at_1	0:00	(AM) (PM)	Taken			at		 AM) (PM)
Well on L	ine:		Started 9/6		0 <u>13</u> at <u>1</u>		$\stackrel{\smile}{=}$				at		
			· · · · · · · · · · · · · · · · · · ·			OBSERVE	D SURFAC	E DATA			Duration of Shut-	_{in_} 25	Hours
Static / Dynamic Property	Orif: Siz (inch	ze.	Circle one: Meter Prover Pressur psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t Casing Wellhead Pro (P _w) or (P _t) or psig		Pressure	Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia		Duration (Hours)	l '	
Shut-In					_		82	paid	pus	700			
Flow									<u> </u>				
Plate	. 1		Circle one:	Press	Т.	FLOW STR	Flowing						Flowing
Coeffiec (F _b) (F Mcfd	ient ,)	Pro	Meter or over Pressure psia	Extension P _m xh	Grav Fac	tor	Factor	perature Factor R (Cubic actor F (Mode) Barr		V GOR (Cubic Fe Barrel)		Fluid Gravity G _m	
l					(OPEN FL	OW) (DELIV	ERABILITY	CALCUI	_ATIONS		(5.)	3 00	
(P _c) ² =	<u> </u>	<u> </u>		:	P _d =	, ,		P _c - 14.4) -		:		2 = 0.2 2 =	
(P _c) ² - (I or (P _c) ² - (I		(F)²- (P _w)²	thoose formula 1 or 2 1. $P_c^2 \cdot P_a^2$ 2. $P_c^2 \cdot P_d^2$ included by: $P_c^2 \cdot P_w^2$	LOG of formula 1, or 2, and divida	P _c ² - P _w ²	Sio	essure Curve pe = "n" - or ssigned dard Slope	l n x i	.og []	Antilog	Del Equals	pen Flow iverability s R x Antilog (Mcfd)
Open Flo				Mcfd @ 14.	65 neia		Deliverat	nility			Mcfd @ 14.65 ps	 ia	
		igne	d authority, on			states that h		<u>.</u>	to make th		rt and that he ha		ledge of
the facts s	tated t	herei	in, and that sai	d report is true	e and correc	t. Executed	this the 2	7	day of D	ecember	V0		₂₀ <u>13</u> .
			Witness (if	eny)	 	· · · · · · · · · · · · · · · · · · ·	-			For C	Company		ICHITA
-			For Commis	ssion						Chec	ked by		2013
									-		ſ	RECI	EIVED

exempt status und	er penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
correct to the bes of equipment insta I hereby requ	of my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named. est a one-year exemption from open flow testing for the Keller Farms 34-18 ounds that said well:
ū	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 e to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
	Signature: <u>Léuf houron</u> Title: <u>Completions Supervisor</u>

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**