Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	:					6	See Ins	structi	ons on Rev	verse Side	∌)					
Open Flow				Test Date			ΑР	l No.	15							
Del	liverat	ilty				1001 5410								-0000		
Company Noble Er		Inc							Lease wIESE					23-5	Well N	umber
County Location CHEYENNE SE-NE-NE-SW				Section 5			TWP 4S		RNG (E/W) 41W				Acres	Attributed		
Field Cherry Creek					Reservoir Niobrara				Gas Gathering Connection Southern Star/Kinder Morgan							
Completion Date 9/20/2010				Plug Back Total Depth 1467"					Packer Set at				-	·		
Casing Size Weight			Internal Diameter 9-7/8", 6-1/4"			Set at 221', 1510'		Perforations 1324'			To		4			
7", 4-1/2" 23#, 11.6# Tubing Size Weight			.0#	9-776 , Internal (Set a	Perforations			1384' To		· · · · · · · · · · · · · · · · · · ·			
Type Completion (Describe)				Type Fluid Production Saltwater				Pump Unit or Traveling Plunger? Yes / No Yes								
Single (gas) Producing Thru (Annulus / Tubing)					% Carbon Dioxide					% Nitrogen Gas Gravity - G						
Tubing		_														
Vertical D	epth(l	⊣)						Press	ure Taps					(Meter	Run) (F	Prover) Size
Pressure	Buildu	-	Shut in			13 at 1			(AM) (PM)	Taken			20	at		(AM) (PM)
Well on L	ine:	•	Started 1/2	29	20	13 at 1	:00		(AM) (PM)	Taken			20	at		(AM) (PM)
							OBSE	RVE	D SURFACI	E DATA				Duration of Shut-	in_24	Hours
Static / Dynamic	c Size		Circle one: Meter Prover Pressur		Pressure Differential in	Flowing Temperature	Well H Temper		Casing Wellhead Pressure (P_w) or (P_1) or (P_2)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)		Liquid Produced (Barrels)	
Property			psig (Pm)		Inches H ₂ 0	t	t		psig			psig psia		(100/8)	,	
Shut-In							:		59							
Flow																
							FLOW	STR	EAM ATTR	IBUTES						
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia			Press Extension Pmxh	Gravity Factor F ₀		Flowing Temperature Factor F _{ft}		F:	viation actor F _p ,	Metered Flow R (Mcfd)		y GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m
(P _c) ² =		:	(P _w) ²	=		(OPEN FL		ELIVE	ERABILITY) CALCUI			:	(P _a) (P _d)	$r^2 = 0.5$ $r^2 = 0.5$	207
		Ē			ose formula 1 or 2:			7	T	ssure Curv			 	<u> </u>	Τ	Open Flow
(P _c) ² - (P _a) ² or		(F	(P _c) ² - (P _w) ²		ose formula 1 or 2: 1. P _c ² - P _s ² 2. P _s ² - P _s ²	LOG of formula 1. or 2.		Slope = "n"		- or	n x LOG		Antilog	De	Deliverability Equals R x Antilog	
(P _c)²- (F	P _d) ²				ded by: P_{u}^{2} - P_{u}^{2}	and divide	P _c ² - P	2 W		signed lard Slope			L J		Equal	(Mcfd)
Open Flor	w	_			Mcfd @ 14.	65 psia			Deliverab	oility				Mcfd @ 14.65 ps	ia	
		~	•						-				•	rt and that he ha		_
the facts s	tated t	herei	in, and that s	said	report is true	and correc	t. Exec	cuted	this the 12	2	day of _	Jecer	mber 		 ,	. 20 13 .
			Witness	(if an	y)				-				For (Company		<u> </u>
									_							KCC WI
			For Corn	missk	on								Chec	cked by		חבר או

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exempt status und and that the foreg correct to the best of equipment insta I hereby reque	er penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Incoming pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records lation and/or upon type of completion or upon use being made of the gas well herein named. The statements are statements on the Noble Energy Incoming pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records lation and/or upon type of completion or upon use being made of the gas well herein named. Set a one-year exemption from open flow testing for the Wiese 23-5 bounds 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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: 12/12/2013	Signature: <u>Kulvulu</u> <u>mull</u> Title: <u>Regulatory Analyst</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.

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