KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				,	(See Instruc	tions on Re	everse Side	е)			
	en Flov liverab				Test Date	e:				I No. 15 -023-20549	-00-00	
Company Noble		 у, I	nc.				Lease Zweyg	gardt			13-32	Well Number
			Locati NWSV		Section 32			TWP 3S		/W)		Acres Attributed
Field Cherry	Cree	k N	iobrara ga	is area	Reservoi Niobra					thering Connection Basin / E		ipeline
Completion 5/23/20		•			Plug Bac 1,595'	k Total Dep	th		Packer : n/a	Set at		
Casing S 7", 4-1/			Weigh 20#,			Internal Diameter 9-7/8", 6-1/4"		Set at 290', 1638 '		orations 145	To 1486'	
Tubing Si	ize		Weigh	t	Internal I	Diameter	Set	at	Perfo	orations	То	
Type Con Single ((De	escribe)		Type Flui Saltw a	id Production	n		Pump U	nit or Traveling R	Plunger? Yes	/ No
Producing		(Anr	ıulus / Tubinç	1)	% (Carbon Dioxi	de		% Nitrog	jen	Plunger? Yes Pwing Gas Gr	avity - G _e
Vertical D)				Pres	sure Taps			· · · · · · · · · · · · · · · · · · ·		Run) (Prover) Size
Pressure Well on L	•		Shut in 4	'ı	20 08 at		(AM) (PM)	Taken		20 _		
	,					OBSERVE	D SURFAC	E DATA		.0	uration of Shut-	in 56 Hours
Static / Dynamic Property	Orific Size (inche	.	Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H _a 0	Flowing Temperature t	Well Head Temperature t	Cas Wellhead (P _w) or (F		Wellhe	Tubing ead Pressure or (P ₁) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)
Shut-In	•						203	psia	parg	psia		
Flow		,										
						FLOW STR	EAM ATTR	IBUTES			1	
Plate Coeffieci (F _b) (F Mcfd	ent		Circle one: Meter or ver Pressure psia	Press Extension P _m xh	Grav Fac F	tor	Flowing Femperature Factor F ₁ ,	Fa	iation ctor	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G _m
					(OPEN FL	OW) (DELIV	ERABILITY) CALCUL	ATIONS		(5.33	0.007
(P ₀) ² =		:	(P _w) ² =	:	P _d =			· ⁻ 。- 14.4) +		:	(P _a) ² (P _a) ²	= 0.207 =
(P _c) ² - (F	P _a) ²	(P	_c) ² - (P _w) ²	Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ Ilivided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide	P.2- P.2	Backpre Slo 	ssure Curve pe = "n" - or signed ard Slope	n x	roe	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
Open Flov	v			Mcfd @ 14	.65 psia		Deliverab	ility			ofd @ 14.65 psi	a
				behalf of the			~) NL	o make th	ne above report	· · · · · · · · · · · · · · · · · · ·	s knowledge of
			Witness (if	any)			KECEIVE IRPORATION	ED ICONINISS	- JUZVV	For Con	INV UVU	U
		•••••	For Commi	ssion			- 		<i></i>	Checke	d by	

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	eclare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc.
	at 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 records
of equip	oment installation and/or upon type of completion or upon use being made of the gas well herein named.
l he	ereby request a one-year exemption from open flow testing for the Zweygardt 13-32
gas we	ll on the grounds that said well:
	(Check 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
	is not capable of producing at a daily fate in excess of 250 months
l fu	rther agree to supply to the best of my ability any and all supporting documents deemed by Commissio
staff as	necessary to corroborate this claim for exemption from testing.
Date:	3/2/109
Jaie	2/0/0
	Signature:
	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.