Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test:				(See Instructions on Reverse Side)									1/6		
Open Flow Deliverabilty			Test Date	Test Date: API No. 15 15-023-20784-00-00								//			
Company Noble E		y In	C.					Lease Zweyga	ardt			41-32	Well Nu	mber	
County Location Cheyenne NE-NE			Section 32			TWP 3S		RNG (E/W) 41W		······································	Acres Attributed				
Field Cherry Creek			Reservoir Niobrara					Gas Gathering Connection Southern Star/Kinder Morgan			RECEIVED DEC 2 0 2017				
Completion Date 9/19/2007			Plug Back Total Depth 1610'					Packer Set at			D	EC 2 0 20			
Casing Size 7", 4-1/2"			Weight 17#, 9.	Internal Diameter 9-7/8", 6-1/4"			Set at 305', 1655'		Perforations 1434'		1470' KCC WiC		WiCHI		
Tubing Size 2-3/8"			Weight 4.7#		Internal Diameter 1.995		•	Set at 1501'		Perforations		То			
Type Completion (Describe) Single (gas)					Type Fluid Production saltwater					Pump U yes	Plunger? Yes	/ No			
Producing Thru (Annulus / Tubing) tubing				% Carbon Dioxide					% Nitro	gen	Gas Gr	Gas Gravity - G			
Vertical D	epth(H))				F	ress	ure Taps				(Meter	Run) (Pr	over) Size	
Pressure Well on L	,): S	Shut in 10/10 Started 10/11) 20	12 at 2:		`					atat			
well on L	ine:		started	20	aı						20		24		
	0.15		Circle one:	Pressure	FI	l		SURFAC Ca	E DATA sing	T	Tubing	Duration of Shut-	in <u>24.</u>	Hours	
Static / Dynamic Property	ynamic Size		Meter Differential Prover Pressure in Inches H ₂ 0		Flowing Well Head Temperature t		- 1	Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In								91							
Flow						EL OW	CTD		DIFFE	<u> </u>					
Plate			Circle one:	Press		ŀ		EAM ATTE						Flowing	
Coeffiecient			Meter or ver Pressure psia	Extension P _m x h	Grav Fact	tor		emperature Factor F _{II}	perature Factor		Metered Flor R (Mcfd)	w GOR (Cubic Fe Barrel)		Fluid Gravity G _m	
D /5 =			/P \2 -		(OPEN FL	, ,	LIVE %		<mark>/) CALCUI</mark> P _c - 14.4) +				$t^2 = 0.2$	07	
$ P_c ^2 = $	P _a) ²	(P _c) ² - (P _w) ²		oose formula 1 or 2: 1. P _c ² · P _p ² 2. P _c ² - P _d ² ided by: P _c ² · P _p ²	LOG of formula 1. or 2. and divide by:	G of mula or 2. divide p 2 p 2		Backpressure Curve Slope = "n" 		, v 10e		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
					<u> </u>										
Open Flow Mcfd @ 14.65				 65 psia	5 psia			Deliverability		Mcfd @ 14.65 p			sia		
The t	undersi	•	authority, on l	behalf of the	Company, s			is duly a	uthorized		·	ort and that he ha	as know	ledge of	
			Wilness (if a	ny)			_				For	Company			
			For Commiss									cked by			

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized 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 a correct to the best of my knowledge and belief based upon available production summaries and lead of equipment installation and/or upon type of completion or upon use being made of the gas well here I hereby request a one-year exemption from open flow testing for the Zweygardt 41-32	re true and
gas well 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	
I further agree to supply to the best of my ability any and all supporting documents deemed by staff as necessary to corroborate this claim for exemption from testing.	y Commission
Date: 12/17/2012	
Signature: Analyst 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.