KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:			(See Instructions on Reverse Side)										
Open Flow Deliverabilty					Test Date:					API No. 15 15-023-20787-00-00			
									15	-023-2078		14/-11 bl	
Noble Energy, Inc.					Lease Zwe ygardt				Well Number 14-33				
County Cheyer	nne		Locat SW-S		Section 33		TWP 3S		RNG (E 41W	/W)		Acres Attributed	
Field Cherry Creek Niobrara gas area					Reservoir Niobrara			Gas Gathering Connection Kinder Morgan via Cherry Creek Compressor					
Completi 10/4/20		te			Plug Bac 1508'	k Total Dep	th	Packer Set at n/a					
Casing Size 7", 4-1/2"			Weig 17#,		Internal Diameter 9-7/8", 6-1/4"		Set at 253', 1554'		Perfo	orations 13	то 3 12 '	1352'	
Tubing Size Weight n/a				ht	Internal [Diameter	Set a	t	Perfo	orations	То		
Type Completion (Describe) Single (Gas)					Type Fluid Production Saltwater				Pump Unit or Traveling Plunger? Yes / No No - Flowing				
			nulus / Tubin	g)	% C	Carbon Dioxi	ide		% Nitrog	jen	Gas Gr	avity - G	
Annulus	S											•	
Vertical D	Depth(H)				Pres	sure Taps				(Meter I	Run) (Prover) Size	
Pressure	Buildu	ıp:	Shut in 12	10 2	0 08 at _	8:00	(AM) (PM)	Taken		20	at	(AM) (PM)	
Well on L	ine:				_	<u>8;00 </u>		Taken			at		
						OBSERVE	D SURFACE	DATA			Duration of Shut-	in 60 Hours	
Static / Orifice		ice	Circle one: Meter	Pressure Differential	Flowing	Well Head	Casing		Tubing		Duration	Liquid Produced	
Dynamic Size Property (inche			Prover Press	ure in	Temperature Temperatu		e Wellhead Pressure (P _w) or (P ₁) or (P _c)		Wellhead Pressure (P _w) or (P _t) or (P _c)		(Hours)	(Barrels)	
Shut-In			psig (Pm)	Inches H ₂ 0			132	psia	psig	psla			
Flow							102						
	***		ŀ		<u> </u>	FLOW STR	EAM ATTRI	BUTES					
Plate			Circle one:	Press	C		Flowing					Flowing	
Coeffiecient		Dre	Meter or ver Pressure	Extension	Grav Fact	· 1 7	r Temperature		iation ctor	Metered Flov R	V GOR (Cubic Fe	et/ Fluid	
(F _b) (F _p) Mcfd		Più	psia	✓ P _m xh	F _a	,	Factor F ₁₁		F _{pv} (Mcfe		Barrel)	Gravity G _m	
			 	<u> </u>	(ODEN 5)	DW0 (DEL IV	EDADU ATV	044.011	ATIONS				
(D)2 -			/D \2	·	•		ERABILITY)					= 0.207	
(P _c)² =	1	- -	(P _w) ² =	Choose formula 1 or 2:	P _a = .		i ·	14.4) +			(P _d) ²	· =	
(P _c)² - (F	⊃ູ)2	(F	(P _w) ² - (P _w) ²	1. P _c ² -P _s ²	LOG of formula			sure Curve e = "n"	n x	IOG		Open Flow Deliverability	
or (P_)²- (F) Js			2. P _c ² -P _d ²	1. or 2. and divide		1	or igned	· " ^ '		Antilog	Equals R x Antilog	
` 6' \	ď,			divided by: Pc - Pw	by:	P _c ² -P _w ²		rd Slope				(Mcfd)	
Open Flow			Mcfd @ 14.65 psia				Deliverabi	litv	Mcfd @ 14.65 psia				
·			l andharian a			A-A 4b-A b							
							2	Nd		ie above repor	rt and that he ha		
the facts st	tated t	herei	n, and that s	aid report is true	and correct	t. Executed	this the 🔼		day of	March		, 20 <u>09</u> .	
					n./i	R Ansascor	ECEIVEL]) Alunnire	a In	unte.	Darnet	7	
			Witness (if any)		areksele	aruwanun u	HECHVAND		For C	ompany		
			For Comm	nission		MA	R C 6 201	19 (/	Chec	ked by		

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 records									
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 Zweygardt 14-33									
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 Commission									
staff as necessary to corroborate this claim for exemption from testing.									
Date: 3/2/09									
Signature:									

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.