KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:			(See Instruct	ions on Re	verse Side))					
_	en Flow liverabil			Test Date	∌:				No. 15 02320842 -	0000			
Company Noble Energy Inc				,	•	Lease Zweyga	Lease Zweygardt				Well Number 14-31		
County		Loca	Location SWSW		Section 31		TWP 3S		W)	Acres Attributed			
Field Cherry (• ••		Reservoir Niobrara		Gas Gathering Co Southern Star/K						
Completion Date 6/18/2008					k Total Dept	h	Packer Set at			<u></u>			
Casing S 7", 4-1/2	ize	Weig	nht 11.6#	Internal I	Internal Diameter 9-7/8", 6-1/4"		Set at 322', 1743'		rations	То 1548'			
Tubing Size 2-3/8"		Weight 4.7#		Internal Diameter		Set at 1566'		1510' Perforations		То			
	•	(Describe)		Type Flui	d Production			Pump Ui Yes	nit or Traveling	Plunger? Yes	/ No		
Producing		(Annulus / Tubir	nnulus / Tubing)		Saltwater % Carbon Dioxid		ө		jen	Gas Gravity - G			
Tubing Vertical D	Depth(H)		Press			sure Taps	ле Тарз			(Meter	(Meter Run) (Prover) Size		
Pressure	Buildup	: Shut in	28	20 13 at 1	1:30 AM	(AM) (PM)	Taken		20	at		(AM) (PM)	
Well on Line:		Started 1/2	29	20 13 at 2:15 PM		(AM) (PM)	AM) (PM) Taken		20	at	at (AM) (l		
					OBSERVE	D SURFAC	E DATA			Duration of Shut	.in_26	.75 Hours	
Static / Orifice Dynamic Size Property (inches)		Meter Prover Press	Differential in	Temperature Temperature		Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration Liquid Pr		d Produced Barrels)	
Shut-In		1 31				psig 158	psia	psig	psia		\dagger		
Flow													
		 			FLOW STR	EAM ATTE	RIBUTES					T	
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia	Press Extension Pmxh	Grav Fac F	tor T	Temperature		eviation Metered Flor Factor R F _{pv} (Mcfd)		w GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G	
						 							
(P _c) ² =		: (P _n) ² :	= :	(OPEN FL P _d =	OW) (DELIV 9		/) CALCUL P _e - 14.4) +		:)² = 0.2)² ==	07	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²	Choose formula 1 or 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_d^2$	2: LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Backpressure Curve Slope = "n"		e n x l og []		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
			······································										
Open Flo			Mcfd @ 14	L 65 neia	. <u></u>	Deliverat	nility			Mcfd @ 14.65 ps			
-		ned authority	· · · · · · · · · · · · · · · · · · ·		states that h		·	o make th		rt and that he ha		ledge of	
			said report is tru						ecember			20 13	
										KC	C W	/ICHIT	
		Witness	(if any)			-			For C	Company		0 2013	
		For Com	mission			·			Chec				
										•	こだし	EIVED	

	e under penalty of perjury under the laws of the state of Kansas that I am authorized to request									
	us under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc									
	e foregoing pressure information and statements contained on this application form are true and									
correct to th	e 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 14-31									
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 furthe	r agree to supply to the best of my ability any and all supporting documents deemed by Commissio									
staff as nec	essary to corroborate this claim for exemption from testing.									
	, , , , , , , , , , , , , , , , , , ,									
Date: 12/18	3/2013									
Jate: <u>12/10</u>	×2013									
	Signature: Kalhlu- Milb									
	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.

DEC 3 0 2013 RECEIVED