RECEIVED

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				(See Instr	ructi	ions on Rev	erse Side	e)							
	en Flo Iiverab				Test Date	: :						No. 15 23-20550 •	- 000	00			
Company Noble Energy Inc				Lease Zweygardt									Well Number				
County Cheyenne			Locati NW_S\	Section 33				TWP 3S			V)	Acres Attributed					
Field Cherry Creek						Reservoir Niobrara				Gas Gathering Cor Southern Star/Kir							
Completion Date 5/22/2004					Plug Bac 1513'	Plug Back Total Depth 1513'						et at					
Casing Size 7", 4-1/2"			Weigh 23#,			Internal Diameter 9-7/8", 6-1/4"			Set at 252', 1556'			ations		то 1410'			
Tubing Size 2-3/8"			Weigh 4.7#	Internal D 1.995	Internal Diameter 1.995			Set at 1445'			ations	****	То				
Type Completion (D Single (gas)			escribe)			Type Fluid Production Saltwater						t or Traveling	Plung	unger? Yes / No			
Producing Tubing	Thru	(Anı	nulus / Tubing	1)	% C	arbon Di	oxic	ie		%	Nitroge	n		Gas Gr	avity - (9,	
Vertical D	epth(l	1)				P	ress	sure Taps						(Meter l	Run) (Pi	rover) Size	
Pressure	Buildu	ıp:	Shut in 11/	12 2	0 13 at 3	:30		(AM) (PM)	Taken			20		at	(AM) (PM)	
Well on L	ine:		Started 11/	13 2	0 <u>13</u> at <u>7</u>	:10		(AM) (PM)	Taken			20	_	at	(AM) (PM)	
						OBSER	ΝE	D SURFACE	DATA				Durat	ion of Shut-	_{in} 27.	5 Hours	
Static / Dynamic Property	amic Size		Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t		Casing Wellhead Pressure (P _w) α (P ₁) or (P _c)		Wellhead F		ubing d Pressure (P _t) or (P _c)	ן ו	Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	Shut-In		Program					psig 91	psia		psig	psig psia				<u> </u>	
Flow																	
						FLOW S	TR	EAM ATTR	BUTES			···········					
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m x h	Fac	Gravity Factor F ₀		Flowing emperature Factor F _{II}	F	Deviation Factor F _{pv}		Metered Flow R (Mcfd)		GOR (Cubic Fee Barrel)		Flowing Fluid Gravity G _m	
					(OPEN FL	OW) (DE	LIVI	ERABILITY)	CALCUI	LATI	IONS				²= 0.2	07	
$(P_c)^2 = {(P_c)^2 - (P_a)^2}$ or $(P_c)^2 - (P_d)^2$		(P _v) ² = (P _w) ²		Choose formula 1 or 2 1. P _c ² · P _s ² 2. P _c ² · P _d ² divided by: P _c ² · P _w	LOG of formula 1, or 2, and divide	LOG of formula 1. or 2. and divide p2. p:		% (P _c - 14.4) Backpressure Curv Slope = "n" or Assigned Standard Slope			.4 = n x L	od []		(P _d) Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
Open Flor				Mcfd @ 14.	•	** 4:		Deliverab		· •••				② 14.65 ps			
		•	•	n behalf of the	, ,			•				e above repo ecember	ort and	that he ha		ledge of 20 <u>13</u> .	
	•		Witness (fany)	······································		•••	-				For	Company	KC	C V	/ICHIT/	
			For Comm	ilssion			-	-	,,,,,,,,,,,			Che	cked by	DI	EC 3	0 2013	

	clare 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
	t the foregoing pressure information and statements contained on this application form are true and
orrect	to the best of my knowledge and belief based upon available production summaries and lease records
	ment installation and/or upon type of completion or upon use being made of the gas well herein named. reby request a one-year exemption from open flow testing for the Zweygardt 13-33
	I 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
	ther agree to supply to the best of my ability any and all supporting documents deemed by Commissio necessary to corroborate this claim for exemption from testing.
)ate: <u>1</u>	2/18/2013
	Signature: Kallu mills
	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.

KCC WICHITA

DEC 3 0 2013