## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:					6	See Instruc	tions on Re	verse Side	)				
= '	oen Flo eliverat					Test Date	<b>)</b> :				No. 15 023-20968 -	- <b>೧೧೮</b> ೦		
Company		lne	<u></u>					Lease	ırdt		220 20000		Well Number	
Noble Energy Inc  County Location  Cheyenne SW-SW-NE-NW						Section 4		TWP 4S			(W)		21-4 Acres Attributed	
Field						Reservoir			Gas Ga		Cathering Connection			
Cherry Creek  Completion Date						Niobrara Plug Bac	k Total Dep	th	Southern Star/Kinder Packer Set at			er Morgan		
5/28/2008 Casing Size Weight						1594'	Diamotor		Set at		Perforations			
7", 4-1/2" 17#, 10.				10.5#	0.5# 9-7/8"		6-1/4"		246', 1636'		2'	т <sub>о</sub> 1400'	1400'	
lubing S 2-3/8"	ize		Weight 4.7#			Internal Diameter 1.995		Set at 1413'		Perforations		То	То	
Type Completion (Describe)						Type Fluid Production Saltwater			Pump Unit or Trave Yes			ling Plunger? Yes / No		
Single (gas) Producing Thru (Annulus / Tubing)							Carbon Diox	ide	e		jen	Gas Gr	Gas Gravity - G	
Cubing Vertical C		H)			<del></del>		Pres	ssure Taps	<del></del> .			(Meter	Run) (Prover) Size	
Pressure	Builde		Shut in2/5	5	20	13 , 2	:00	/AM) (DAA)	Takon		20	at	(ANA) (DNA)	
Well on Line:						42 2.45		(AM) (PM) Taken						
													24.75 Have	
Ctatia /	Orie		Circle one:	Pressur	e	Claudae	1	D SURFAC		1	Tubing	Duration of Shut-	in Hou	
Static / Dynamic Property	Orifice Size (inches)		Meter Prover Press psig (Pm)		- [1	Flowing Femperature t	Well Head Temperature t	Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> ) psig psia		Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> ) psig psis		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In								111		pg	paid			
Flow														
				1			FLOW STE	REAM ATTR	IBUTES	·				
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Pro	Circle one: Pro Meter or Exter Prover Pressure psia		Fac		tor	Tomporature		Deviation Mete Factor F <sub>pv</sub> (N		w GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G <sub>m</sub>	
		Ĺ	,											
P <sub>c</sub> ) <sup>2</sup> =		_ :	(P <sub>n</sub> ) <sup>2</sup>	= ;		OPEN FLO P <sub>d</sub> =		/ERABILITY % (F	) CALCUL <sub>c</sub> - 14.4) +		:	(P <sub>a</sub> ) (P <sub>d</sub> )	2 = 0.207 2 =	
(P <sub>c</sub> ) <sup>2</sup> · ( or (P <sub>c</sub> ) <sup>2</sup> · (		(1	P <sub>c</sub> )² • (P <sub>w</sub> )²	1. P <sub>c</sub> <sup>2</sup> -P <sub>a</sub> 2. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> divided by: P <sub>c</sub> <sup>2</sup> -	2	LOG of formula 1. or 2. and divide by:		Backpre Sio	ssure Curve pe = "n" - or signed ard Slope	пх	roe	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flo	w			Mcfd @	14.6	5 psia	*****	Deliverat	ility			Mcfd @ 14.65 psi	a	
												ort and that he ha	_	
e facts s	stated t	there	in, and that	said report is	true	and correc	t. Executed	this the 1	В	day of	ecember		, 20 <u>13</u>	
		_	Witness	(if any)			<del></del>	_			For	Company	KCC W	
		_						_						
			For Corn	HESSION							Chec	cked by	DEC 3 (	

I di	eclare under penalty of perjury under the laws of the state of Kansas that I am authorized to request
exemp	t status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
and tha	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 equi	pment installation and/or upon type of completion or upon use being made of the gas well herein named.
The	ereby request a one-year exemption from open flow testing for the Zweygardt 21-4
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
	15 Hot deputie of producing at a daily fate in excess of 250 mens
l fu	rther agree to supply to the best of my ability any and all supporting documents deemed by Commissi
staff as	necessary to corroborate this claim for exemption from testing.
Date:	12/18/2013
	4/./.0
	Signature: Kalpla mülb

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

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