KCC WICHITA

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

Type Test					(	See Instruc	tions on Reve	erse Side	<del>?</del> )				
Open Flow Deliverabilty					Test Date	Test Date: API No. 15							
······		ity							15-0	023-20501-00			
Company Noble Energy, Inc.					Lease Zweygardt			Well Number 24-32					
County Location Cheyenne SE-SW				Section 32		TWP 3S			RNG (E/W) 41W		Acres Attributed		
Field Cherry Creek Niobrara Gas Area					Reservoir Niobrara			Gas Gathering C Cherry Creek			tion		
Completion Date 9/9/2003					Plug Bac 1524'	Total Dep	th		Packer S	et at			
Casing Size Weight 7", 4-1/2" 17#, 10.5#				Internal D 9-7/8",		Set at 307',	Set at 307', 1566'		Perforations 1400'				
Tubing Size Weight n/a				Internal D	Internal Diameter Set at				rations	То			
Type Completion (Describe) Single (Gas)				Type Flui	d Productio ter	n	Pump Unit or Trave Yes						
Producing	Producing Thru (Annulus / Tubing)				% C	arbon Diox	de	% Nitrogen		en	Gas Gravity - G <sub>g</sub>		
Annulus Vertical D		١				Pros	sure Taps				(Meter I	Run) (Prover) Size	
vertical D	ерицп	,				1100	sure rups				<b>,</b>	, ,	
Pressure	Builduc	): S	Shut in 4/1	3/ 2	0_10_at_9	:30	(AM) (PM) 1	Taken		20 _	at	(AM) (PM)	
Well on Li		5	Started 4/1	4/2	10 at 2		(AM) (PM) 1	Taken		20 _	at	(AM) (PM)	
								D.474			Ouration of Shut-	. 29 Hours	
П			Circle one: Pressure				T	Casing		Tubing		IIIFlours	
Static / Dynamic	ynamic Size		Meter Differential Prover Pressure in		Flowing Well Head Temperature		Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)	
Property	operty (inches)		psig (Pm)	Inches H <sub>2</sub> 0	t	t	psig	psia	psig	psia			
Shut-In							120					<u> </u>	
Flow							<u> </u>						
				1	1	FLOW STI	REAM ATTRIE	BUTES					
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd			Circle one: Meter or ver Pressure psia	Press Extension √ P <sub>m</sub> x h	Grav Fac F	tor	Temperature F.		riation actor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	Gravity	
								<u> </u>					
(P \2			(P <sub>w</sub> ) <sup>2</sup> =		(OPEN FL	• •	<b>/ERABILITY)</b> % (P_	CALCUI - 14.4) +		;	(P <sub>a</sub> ) (P <sub>d</sub> )	<sup>2</sup> = 0.207 <sup>2</sup> =	
(P <sub>c</sub> ) <sup>2</sup> =:		Choose formula 1 or 2:		:			sure Curve			· ' d'	Open Flow		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> 1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>		LOG of formula 1. or 2. and divide by:		Slope = "n" or Assigned Standard Slope		_ nx	rog	Antilog	Deliverability Equals R x Antilog (McId)	
	+	-											
Open Flo	w			Mcfd @ 14	65 psia		Deliverabil	lity		<u> </u>	1cfd @ 14.65 ps	ia	
									0	he above repor September	t and that he ha	as knowledge of	
the facts s	tated th	nerei	n, and that s	aid report is tru	e and correc	t. Execute	this the _/ti	• (	day of	10 1	21000	, 20 10	
			Witness	(if any)			-	$\longrightarrow$	MVVVIV	ForCo	impany	RECEIV	
			For Comr	nission						Check	ed by	SEP 0 9	

exempt status und	er penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc.  oing 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
	llation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby reque	st a one-year exemption from open flow testing for the Zweygardt 24-32
gas well on the gr	ounds that said well:
	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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: <u>9/7/10</u>	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.