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

Type Test	::				(	See Instruct	tions on Rev	erse Side	∌)					
Op	en Flo	w			Test Date	<b>.</b> .			ΔĐI	No. 15				
De	liverab	oilty			rest Date	<del>;</del> :				NO. 15 3-20241-00-0	0			
Company Noble Energy, Inc.					· · · · · · · · · · · · · · · · · · ·	Lease Zweygardt					2-32	Well Number 2-32		
County Location Cheyenne SESE				Section 32				RNG (E/	W)		Acres Attributed			
Field Cherry C	Creek	Niol	orara Gas A	rea	Reservoir Niobrara				_	hering Conne				
Completion 2/26/198		te			Plug Bac 1506'	k Total Dept	h		Packer S n/a	<del></del>				
Casing S 7", 4-1/2			Weigh 17#, 9		Internal Diameter 9-7/8", 6-1/4"		Set at 321', 1516'		Perforations 1340'		To 1378'			
Tubing Si n/a	ze		Weigh	t	Internal [	Diameter	Set a	t	Perfo	rations	То			
Type Con Single (		n (De	escribe)		Type Flui Saltwa	d Production ter	1		Pump Ur yes	nit or Traveling	Plunger? Yes	/ No		
Producing	Thru	(Anı	nulus / Tubin	g)	% C	arbon Dioxi	de		% Nitrog	en	Gas Gra	avity -	G <sub>g</sub>	
Annulus														
Vertical D	epth(F	1)				Pres	sure Taps				(Meter F	łun) (F	rover) Size	
Pressure	Buildu	p:	Shut in	6/ 2	09 at 8	:40	(AM)(PM)	Taken	<b></b>	20	at		(AM) (PM)	
Well on L	ine:		Started 2/2		0 09 at 1		(AM) (PM)	Taken		20	at		(AM) (PM)	
						OBSERVE	D SURFACE	DATA			Duration of Shut-	<sub>n</sub> _29	Hours	
Static / Dynamic	Orifi Siz	e	Circle one: Meter Prover Pressu	Pressure Differential in	Flowing Temperature		Casi Wellhead F (P <sub>w</sub> ) or (P,	Pressure	Wellhe	ubing ad Pressure (P,) or (P <sub>c</sub> )	Duration (Hours)		id Produced (Barrels)	
Property	(inch	es)	psig (Pm)	Inches H <sub>2</sub> 0	t	t	psig	psia	psig	psia		ļ		
Shut-In							118							
Flow		·······				FLOW STR	EAM ATTRI	RUTES						
Plate			Circle one:	B			Flowing	T					Flowing	
Coeffiec	ient		<i>Meter</i> or	Press Extension	Grav Fact		emperature		riation actor	Metered Flow R	GOR (Cubic Fee	et/	Fluid	
(F <sub>b</sub> ) (F Mcfd		Prover Pressure psia		.√ P <sub>m</sub> xh	F	,	Factor F <sub>(i</sub>		F <sub>pv</sub> (Mcfd)		Barrel)		Gravity G <sub>m</sub>	
				ļ	<del>-  </del>									
l		,		<u> </u>	(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS		(5.)		L	
(P <sub>c</sub> ) <sup>2</sup> =		:	(P <sub>w</sub> ) <sup>2</sup> =	:	P <sub>d</sub> =			- 14.4) +		:	(P <sub>a</sub> ) <sup>2</sup>	! = 0.2 ! =	207	
				Choose formula 1 or 2			T	sure Curve			· u/		pen Flow	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> )² - (P <sub>w</sub> )²		1. P <sub>c</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup>	formula	LOG of formula 1. or 2.		Slope = "n"		_OG	Antilog	Deliverability		
(P <sub>c</sub> ) <sup>2</sup> - (F	<sup>2</sup> <sub>d</sub> ) <sup>2</sup>			2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_d^2$	and divide	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>		igned ird Slope				Equal	s R x Antilog (Mcfd)	
				······································										
Open Flor	w			Mcfd @ 14.	65 psia		Deliverabi	lity		1	Mcfd @ 14.65 psi	a		
The (	unders	igned	d authority, o	n behalf of the	Company, s	states that h	e is duly au	thorized t	_		rt and that he ha		_	
the facts s	tated t	herei	n, and that sa	aid report is true	and correc	t. Executed	this the 15	th	day of D	ecember	<b>D</b> .	11	20 <u>09</u> .	
						RF	CEIVE	}	ЦN	mper	Duni			
	,.		Witness (i	f any)			:	(	/	∦ For C	ompany			
			For Comm	ission		DE(	2 1 20	09	<b></b>	Chec	ked by		· · · · · · · · · · · · · · · · · · ·	

KCC WICHITA

	$oldsymbol{4}$
I declare und	er penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt status und	der Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc.
	going pressure information and statement's contained on this application form are true and
correct to the bes	t of my knowledge and belief based upon available production summaries and lease records
• •	allation and/or upon type of completion or upon use being made of the gas well herein named.
	est a one-year exemption from open flow testing for the Zweygardt 2-32
gas well on the gr	rounds that said well:
(Check	onel
(Since)	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.
H	is not capable of producing at a daily rate in excess of 250 mcf/D
V	is not capable of producing at a daily rate in excess of 250 mond
I further agre	e to supply to the best of my ability any and all supporting documents deemed by Commission
_	y to corroborate this claim for exemption from testing.
otan ao nooccan	y to correspond to the stand for exemption from testing.
48445488	
Date: 12/15/2009	
	Signature:
	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.