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

Type Tes	t:				(	(See Instruc	tions on Re	verse Side	e)					
Op	en Flo	w			Test Date	0.			ΛD	No. 15				
De	liverab	ilty			lest Dati	<b>c</b> .				3-20518-00-(	00			
Company Noble E		Inc					Lease Zweyga	ardt			11-5	Well N	umber	
County Cheyenr	ne		Locatio NWNW	on .	Section 5		TWP 4S		RNG (E 41W	/W)		Acres	Attributed	
Field Cherry C	Creek	Niol	orara Gas Ai	ea	Reservoi Niobrar	-				thering Conn	ection			
Completion 10/25/20		е			Plug Bac 1552'	k Total Dep	th		Packer S		<u> </u>			
Casing Size 7", 4-1/2"			Weight 17#, 1	Internal Diameter 9-7/8", 6-1/4"		Set at 312', 1597'		Perforations 1422'		то 1460'				
Tubing Si n/a	ize		Weight	**************************************	Internal Diameter Set at Perforations To									
Type Con Single (		ı (De	escribe)		Type Flui Saltwa	id Productio	n		Pump Ui yes	nit or Traveling	Plunger? Yes	/ No		
Producing	Thru	(Anr	nulus / Tubing	)	% (	Carbon Dioxi	ide		% Nitrog	jen	Gas Gr	avity -	G <sub>g</sub>	
Annulus							····							
Vertical D	epth(H	•				Pres	sure Taps				(Meter F	Run) (F	rover) Size	
Pressure	Buildu	o: ;	Shut in2/19	<u>/</u> 2	09 at 1		(AM) (PM)	Taken		20	at		(AM) (PM)	
Well on L	ine:		Started 2/20	2	0 09 at 2	:00	(AM) PM	Taken		20	at		(AM) (PM)	
					,	OBSERVE	D SURFAC	E DATA	·		Duration of Shut-	<sub>in</sub> _26	Hours	
Static / Dynamic Property	Orific Size (inche	•	Circle one: Meter Prover Pressur psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	Cas Wellhead (P <sub>w</sub> ) or (F	Pressure	Wellhe	rubing ad Pressure r (P <sub>1</sub> ) or (P <sub>c</sub> )	Duration (Hours)		id Produced Barrels)	
Shut-In				2			psig 230	psia	psig	psia	.511.6.1			
Flow														
	-			<del>```</del>	<del></del>	FLOW STR	EAM ATTR	IBUTES					<del></del>	
Plate Coeffieci (F <sub>b</sub> ) (F <sub>l</sub> Mcfd	ient ,)		Circle one: Meter or ver Pressure psia	Press Extension P <sub>m</sub> x h	Grav Fact F <sub>c</sub>	tor	Flowing Femperature Factor F <sub>(1</sub>	Fa	iation ctor : pv	Metered Flow R (Mcfd)	GOR (Cubic Fer Barrel)	et/	Flowing Fluid Gravity G <sub>m</sub>	
(D.)2			(D.)2		-	OW) (DELIV		•				= 0.2	207	
(P <sub>c</sub> ) <sup>2</sup> =	T	<u>- : </u>	(P <sub>w</sub> ) <sup>2</sup> =_	hoose formula 1 or 2	P <sub>d</sub> =		T	P <sub>c</sub> - 14.4) +		<del>:</del>	(P <sub>d</sub> ) <sup>2</sup>	=	<del></del>	
(P <sub>c</sub> ) <sup>2</sup> - (F or (P <sub>c</sub> ) <sup>2</sup> - (F		(P	<sub>c</sub> )² - (P <sub>w</sub> )²	<ol> <li>P<sub>c</sub><sup>2</sup> - P<sub>a</sub><sup>2</sup></li> <li>P<sub>c</sub><sup>2</sup> - P<sub>d</sub><sup>2</sup></li> <li>vided by: P<sub>c</sub><sup>2</sup> - P<sub>a</sub><sup>2</sup></li> </ol>	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Slop As	ssure Curve pe = "n" - or signed ard Slope	nxl	oc [	Antilog	Del Equals	pen Flow liverability s R x Antilog (Mcfd)	
Open Flow	L v			Mcfd @ 14.	65 psia		Deliverab	ilitv	<u> </u>		Mcfd @ 14.65 psi	a		
<del> </del>		nn c c'	authority an	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	statos that !			- m-1 *				dedec -f	
			authority, on n, and that sai						_	ecember	rt and that he ha		20 <u>09</u> .	
						RF	CEIVE	`	lun	men!	Rarud			
			Witness (if	iny)			,		1	Fore	empany			
			For Commis	sion	·····	DEC	2 1 20	09		Chec	ked by			

KCC WICHITA

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc.
and that the foregorect to the best of equipment insta	going pressure information and statements contained on this application form are true and 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
gas well on the gr	rounds 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 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.
Date: 12/15/2009	9
	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.