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

Type Tes	t:				(	See Instructi	ions on Reve	erse Side	)					
□ Op	en Flo	w												
De De	liverat	ilty			Test Date	<b>)</b> :				No. 15 023-20231-0	0-00			
Company	v			<del></del>			Lease		- 10-	020-20201-0		Vell Nur	mhar	
Noble E	•	Inc					Workmar	1			43-31 <sup>*</sup>	AGII IADI	mper	
County Location			Section				ANG (E	W)	A	Acres Attributed				
Cheyenne NE-SE				31 3S			41W							
Field Cherry (	Creek				Reservoir Niobrara					hering Conne m Star/Kinde				
Completi		е				Plug Back Total Depth				Set at	i worgan		<del></del>	
4/9/1985	5				1662'		••		T LONG! C	, o. a.				
Casing Size Weight				internal [			Set at		rations	То				
7, 4-1/2"			17#, 10.5#		9-7/8", 6-1/4"		276', 1608'		1490'		1512'			
Tubing Size 1-1/4"			Weight 4.7#		Internal D 1.995		ameter Set at		Perforations		To			
Type Con	noletio	n (De				d Production	<del>- · ·                                </del>		Pumo I li	nit or Traveling	Plunger? Yes	/ No		
Single (		, , -	,		Saltwa		•		Yes	iii or mavesing	ridinger: res	, 140		
Producing	g Thru	(Anı	nulus / Tubing	)	% C	arbon Dioxid	de		% Nitrog	en	Gas Gra	vity - C		
Tubing	<u></u>								_				•	
Vertical C	Depth(}	1)				Press	sure Taps			-	(Meter F	lun) (Pr	rover) Size	
Pressure	Buildu	p:	Shut in <u>4/12</u>	2	10 <u>11</u> at <u>1</u>		(AM) (PM) 1	Taken		20	at	(	AM) (PM)	
Well on L	.ine:		Started 4/13	32	o 11 at 1	:10	(AM) (PM)	Taken		20	at	(	AMI (DIA)	
											"	(	AWI) (FWI)	
						OBSERVE	D SURFACE	DATA			Duration of Shut-	<sub>in</sub> 26	Hours	
Static / Orifice Dynamic Size Property (inches		ice	Circle one: Meter	Pressure Differential	Flowing	Well Head	I Walihood Proceura		Tubing Wellhead Pressure (P, ) or (P, )		S			
			Prover Pressu		Temperature t	Temperature (					Ouration (Hours)	Liquid Produced (Barrels)		
ricpany			psig (Pm)	Inches H <sub>2</sub> 0	<u> </u>	<u>'</u>	psig	osia	psig	psia		<u> </u>		
Shut-In							140							
Flow	[													
·	<u></u>		<u> </u>	<del>-!</del> -	L	ELOW STD	EAM ATTRU	DUTER	<u> </u>	ļ	<del> </del>	<u>.                                    </u>		
Block	. 1		Circle one:		_	12011 311		0,53	_	-	<del></del>		i	
Plate Coefficcient (F <sub>p</sub> ) (F <sub>p</sub> ) Mcfd			Meter or	Press Extension	Grav Fac	, I 4	[emnerature		riation actor	Metered Flow	GOR (Cubic Fe	Flowing Fluid		
		Prover Pressure psia		<b>√P_x</b> h	F		Factor F <sub>re</sub>		F p+	(Mctd)	Barrel)	Gravity		
	_			<del></del>			· 11	-		<u>.                                    </u>			G <sub>a</sub>	
					(OPEN FL	OW) (DELIV	ERABILITY)	CALCU	ATIONS		(P)	² = 0.2	107	
(P <sub>e</sub> )2 =		<u></u> :	(P <sub>w</sub> ) <sup>2</sup> =		P <sub>d</sub> ≈		% (P,	14.4) +	14.4 = _	;		² =		
(P <sub>a</sub> )²- (	p )2		P <sub>e</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup>	Thoose formula 1 or 2	LOG or	$\Gamma$		sure Curve	9	٦٦١		Or	pen Flow	
(P <sub>a</sub> ) <sup>2</sup> - (		٧.	•′ '' •′	2. P. P.	formula t. or 2.			e ⇒ "n" 0r	- n x	LOG	Antilog	Def	iverability	
(P <sub>a</sub> )*- (	۲.)		، ا	fivided by: P <sub>2</sub> - P	and dhide by:	P.*.P.3		igned rd Slope					s Fix Antilog (Mcfd)	
					1	<u> —</u>	1	_				<del> </del> -		
}					<del>- </del>			·		<u></u>	<del></del>	├		
				<del></del>							<u>_</u>	<u> </u>	···	
Open Flo	w			Mcfd @ 14.	65 psia		Deliverabi	lity			Mcfd @ 14.65 ps	ia		
The	unders	igne	d authority, or	behalf of the	Company, s	states that h	e is duly aut	horized	to make t	he above reno	rt and that he ha	s knou	iladae of	
										December			•	
me racis s	naieu I		iii, and inat Sa	id report is tru	and correc	Executed	uns me	<u>~1</u>	day of _	/	1/7	1	20 <u>11</u> .	
							:N/En =	ر	Keu	W K	Kusser	_		
			Witness (ii	suA)		RECE	ב עשעו:			ForC	Company			
			For Comm	SSION	<del></del> -	JAN 1	7 2012	·		Chec	ked by			

## **KCC WICHITA**

	der penalty of perjury under the laws of the state of Kansas that I am authorized to request								
	nder Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc egoing pressure information and statements contained on this application form are true and								
correct to the be	st of my knowledge and belief based upon available production summaries and lease records								
of equipment ins	tallation and/or upon type of completion or upon use being made of the gas well herein named.								
I hereby req	uest a one-year exemption from open flow testing for the Workman 43-31								
gas well on the o	grounds that said well:								
(Chec	ek 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								
<b>✓</b>	is not capable of producing at a daily rate in excess of 250 mcf/D								
	ee to supply to the best of my ability any and all supporting documents deemed by Commission try to corroborate this claim for exemption from testing.								
Date: 12/28/201	<u>1</u>								
	Signature: <u>Leuje Johnson</u> Title: Regulatory Analyst II								

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.

RECEIVED
JAN 17 2012
KCC WICHITA