KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruc	ctions on Re	everse Side	e)					
	en Flo liverab				Test Date	9 :			AP1 N		20.00			
Company	y						Lease		15-0.	23-20228-0			umber	
Noble El	nergy	inc	Locat	ion	Section		Raile TWP		RNG (E/M	/)	1-11	·	Attributed	
Cheyenr	ne		SW-NE	Ī	11		3S		42W					
Field Cherry C	Creek				Reservoir Niobrara				Kinder M	ering Conn lorgan	ection			
Completion 4/26/198		te			Plug Bac 1680	k Total Dep	oth		Packer Se	t at				
Casing S 7", 4-1/2			Weig! 17#,		· Internal (9-7/8",			Set at 353, 1690		Perforations 1558		то 1580		
Tubing S			Weight		Internal Diameter		Set at		Perforations		To			
2-3/8 Type Con	npletio	n (D	4.7# escribe)		1.995 Type Flui	d Production	152 on	20'	Pump Unit	or Traveling	Plunger? 🚾	À / No		
Single ((gas)		-	-1	Saltwa		المام		Rod	1 Pum	ы	<u> </u>		
Tubing	g inru	(An	nulus / Tubin	9)	% C	Carbon Diox	KIGÐ		% Nitroge	n	J Gas	Gravity -	Gg	
Vertical D	Depth(l	1)				Pre	ssure Taps				(Met	er Run) (F	Prover) Size	
Pressure	Buildu	in:	Shut in 3/2	20 2	0 13 _{at} 1	1:00	(AM) (PM)	Taken		20	at		(AM) (PM)	
Well on L			Started 3/2		0 13 at 2		_ (AM) (PM)				at			
												27		
Static /	Orif	ica	Circle one:	Pressure	Flowing	Well Head	ED SURFAC	sing	Tu	bing	Duration of Sh	ut-in	Hours	
Dynamic Property	mic Size		Meter Prover Press		~ 1	1	e Weilhead	Wellhead Pressure (P _w) or (P _t) or (P _c)		Wellhead Pressure (P _w) or (P ₁) or (P _c)			Liquid Produced (Barrels)	
Shut-In	(psig (Pm)	Inches H₂0	· · ·	<u> </u>	psig 106	psia	psig	psia				
Flow							100					_		
11011	<u> </u>	· · - · · · - · ·				FLOW ST	REAM ATT	RIBUTES	J	<u>.</u>				
Plate			Circle one:	Press	Gra	vity	Flowing	Dev	/iation	Metered Flov	w GC	DR	Flowing	
(F _b) (F	7. P. 7. D.		Meter or over Pressure	Extension √ P _m x h	Fac F		Temperature Factor		actor F _{pv}	R (Mcfd)	(Cubic Bar		Gravity	
Mefd	1		psia	in			F _{tt}		-		,		G ^w	
				1	(OPEN FL	OW) (DELI	VERABILIT	Y) CALCUI	-ATIONS				007	
(P _c) ² =		_:	(P _w) ² :	<u> </u>	P _d =	. ,		P _c - 14.4) -		:		$(P_a)^2 = 0.$ $(P_d)^2 = $		
(P _e)²- (I	P _a) ²	(F	P _c)² - (P _w)²	1. P _c ² - P _a ²	LOG of formula		, .	essure Curve ppe = "n"	n x LG				Open Flow eliverability	
or (P _c)²- (I	P _d) ²			2. $P_c^2 - P_d^2$	1. or 2. and divida	P _c ² - P _w ²		or ssigned dard Slope	- " ~ -		Antilog		ls R x Antilog (Mcfd)	
				urross by. 1 c 1 w	 	<u> </u>						+		
					-									
Open Flo	w		L	Mcfd @ 14	65 psia		Delivera	bility			Mcfd @ 14.65	psia		
The	unders	igne	d authority, o	on behalf of the	Company,	states that	he is duly a	uthorized	to make the	above repo	ort and that he	has kno	wledge of	
the facts s	stated t	here	in, and that s	aid report is tru	e and correc	t. Execute	d this the	27	day of De	cember			, ₂₀ <u>13</u> .	
				· 								(CC	WICHIT/	
			Witness	(if any)						For	Company	DEC	3 1 2013	
			For Com	nission						Che	cked by		CEIVED	
													CIVED	

	der penalty of perjury under the laws of the state of Kansas that I am authorized to request							
exempt status ur	der Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc							
and that the fore	going 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 requ	uest a one-year exemption from open flow testing for the Raile 1-11							
gas well on the g	rounds that said well:							
(Chec	k 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							
<u> </u>	is not capable of producing at a daily rate in excess of 250 mcf/D							
I further agre	ee to supply to the best of my ability any and all supporting documents deemed by Commission							
staff as necessa	ry to corroborate this claim for exemption from testing.							
Date: 12/27/201	3							
Date: 12/27/201	3							
Date: 12/27/201	<u>3</u> .							
Date: 12/27/201	3							
Date: <u>12/27/201</u>								
Date: 12/27/201	Signature: Chayl Johnson							
Date: 12/27/201	01.060							

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. Signed and dated on the front side as though it was a verified report of annual test results.

DEC 3 1 2013

RECEIVED