KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:			(3	See Instructi	ions on Rev	verse Side))			
Open Flow			Test Date	ı			API	No. 15		
Deliverabilt	у							023-21209-0	0-00	
Company Noble Energy In	nc				Lease Nelson				21-17	Well Number
County Location Cheyenne W2-SE-NE-NW			Section 17	·	TWP 2S		RNG (E/W) 38W		,	Acres Attributed
Field Cherry Creek			Reservoir Niobrara				Gas Gat Southe	hering Conne rn Star	ction	
Completion Date 1/21/2009			Plug Back 1519'	Total Depti	h		Packer S	Set at		
Casing Size Weight 7", 4-1/2" 17#, 10.5#			Internal Diameter 9-7/8", 6-1/4"		Set at 292', 1563'		Perforations 1358'		то 1380'	
Tubing Size 2-3/8"	ize Weight 4.7#		Internal D 1.995	iameter	Set a 1404		Perforations		То	
Type Completion Single (gas)	(Describe)		Type Fluid Saltwat	Production	ı		Pump Ur Yes	nit or Traveling	Plunger? Yes	/ No
Producing Thru (a	Annulus / Tubing))	% C	arbon Dioxid	de		% Nitrog	en	Gas Gra	avity - G _g
Vertical Depth(H)		·		Press	sure Taps				(Meter F	Run) (Prover) Size
Pressure Buildup:		20			(PM)	Taken		20 .	at	(AM) (PM)
Well on Line:	Started 7/6	20	11 at 2:	00	(AM) (PM)	Taken		20 .	at	(AM) (PM)
				OBSERVE	D SURFACE	DATA			Duration of Shut-	
Dynamic Size	amic Size Meter Differentia		Flowing Well Head Temperature t t		Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Welfhead Pressure (P _w) or (P _t) or (P _e)		Duration (Hours)	Liquid Produced (Barrels)
Shut-in	poig (i iii)	110103 1120			psig 160	psia	psig	psia		1
Flow										
			1	FLOW STR		BUTES	i			- 1
Plate Coefficcient (F _b) (F _p) Mcfd	Coefficient Meter of Extension (F _b) (F _p) Prover Pressure P. x.b.		Gravity Factor F ₀		emperature Fac		viation Metered Flow actor R F _{pv} (Mcfd)		GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G ₄
		***			-11-11					
(P _c) ² =	: (P _w) ² =_	:	OPEN FLO	OW) (DELIVE		CALCUL - 14.4) +		:	(P _a) [;] (P _d)	! = 0.207 ! =
(P _e) ² - (P ₄) ²		1. P _c ² · P _s ²	LOG of		Backpres	sure Curve e = "n"		rog [Antilog	Open Flow Deliverability
(P _a) ² - (P _a) ²	di di	2. P _c ² - P _d ²	1, or 2, and divide by:	P. 2 . P. 2		igned ard Slope			Altiony	Equals R x Antilo (Mcfd)
			-				 			
Open Flow		Mcfd @ 14.6	5 psia		Deliverabi	lity	!	<u> </u>	1cfd @ 14.65 psi	a
	ned authority, on	· - ·		tates that he			o maka th			
the facts stated the	•						_	ecember	and that he ha	, 20 <u>11</u>
	Witness (if a	any)			_	<u>C</u>	leng) For Co	Les à	× RECEIVE
	For Commis				_			Check		v s

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	are under penalty of perjury under the laws of the state of Kansas that I am authorized to request						
	tus under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc						
and that th	ne foregoing pressure information and statements contained on this application form are true and						
correct to t	he best of my knowledge and belief based upon available production summaries and lease records						
	ent installation and/or upon type of completion or upon use being made of the gas well herein named.						
l hereb	by request a one-year exemption from open flow testing for the Nelson 21-17						
gas well or	the grounds that said well:						
	(Check one)						
	is a coalbed methane producer						
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 not supuble of processing at a daily rate in excess of 200 mens						
I furthe	er agree to supply to the best of my ability any and all supporting documents deemed by Commissic						
	cessary to corroborate this claim for exemption from testing.						
Date: 12/1	<i>4/</i> 2011						
Date:	4/2011						
	Claud Al						
	Signature:						
	Signature: 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.

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