KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t: en Flo	w	· · · ·		(Test Date		ions on Rev	erse Side	•	No. 15		
De	liverab	ilty			rest bate	,,				023-20798-0	00-00	
Company Noble		y, I	nc.				Lease Raile				v 41-31	Vell Number
County Cheyer	nne		Location NE-NE	on	Section 31		TWP 3S		RNG (E 41W	/W)	Δ	cres Attributed
Field Cherry C	Creek	Niob	orara Gas Ai	ea	Reservoir Niobrara					thering Conn Creek Pipelin		
Completic 8/27/200		е			Plug Bac 1589'	k Total Dept	h		Packer S n/a	Set at		
Casing S 7", 4-1/			Weight 17#, 9		Internal [9-7/8",		Set a 302',	t , 1645'	Perfo 145	orations 4'	то 1496'	
Tubing S n/a	ize		Weight		Internal [Diameter	Set a	t	Perfo	orations	То	
Type Cor Single (•	•	escribe)		Type Flui Sa it wa	d Production ter	า		Pump U Yes	nit or Traveling	Plunger? Yes	/ No
	g Thru		nulus / Tubing)	% C	arbon Dioxi	de		% Nitrog	gen	Gas Gra	ıvity - G _g
Vertical D		1)				Pres	sure Taps				(Meter F	lun) (Prover) Size
Pressure	Buildu	p :	Shut in	1 / 2	0 10 at 1	1:55	(AM) (PM)	Taken		20	at	(AM) (PM)
Well on L	ine:	;	Started 2/25	5/2	0 <u>10</u> at <u>1</u>	2:55	(AM)(PM)	Taken		20	at	(AM) (PM)
						OBSERVE	D SURFACE	DATA			Duration of Shut-i	n_25Hours
Static / Dynamic Property	Orifi Siz (inch	е	Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	Casi Wellhead I (P _w) or (P _p	Pressure	Wellhe	Tubing ead Pressure or (P ₁) or (P _c) psia	Duration (Hours)	Liquid Produced (Barrels)
Shut-In			F-3 (· · ·)	2			120	рыа	paig	psid		
Flow												
						FLOW STR	EAM ATTRI	BUTES				
Plate Coeffied (F _b) (F Mcfd	cient p)	Pro	Circle one: Meter or over Pressure psia	Press Extension √ P _m x h	Grav Fac F	tor	Flowing Temperature Factor F _{rt}	Fa	viation actor F _{pv}	Metered Flow R (Mcfd)	v GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G _m
									·! ·····			
			47. NO.		•		ERABILITY)				_	= 0.207
$(P_c)^2 = _{_{_{_{_{_{_{c}}}}}}}$:_	(P _w) ² =	Choose formula 1 or 2	P _d =		T	ssure Curve	14.4 =		(P _d) ²	
(P _c) ² - (or (P _c) ² - ((F	P _c) ² - (P _w) ²	1. P _c ² - P _a ² 2. P _c ² - P _d ²	LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Slop	ssure Curve be = "n" or signed ard Slope	l n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
				divided by: P _c ² -P _w	2 by:		Starius	ard Stope	., .			
Open Flo	w			Mcfd @ 14	.65 psia		Deliverab	ility			Mcfd @ 14.65 psi	a
The	unders	igne	d authority, or	behalf of the	Company,	states that h	ne is duly au	thorized			ort and that he ha	
the facts s	stated t	herei	in, and that sa	id report is tru	e and correc	t. Executed		3rd	day of _	April) //	, 20 10
			Witness (i	any)	KANSAS	CORPORATI	ON COMMISSI	ION	fum	fly For	any ett	
	-		For Comm			APR 2 9	2010 _			Che	cked by	

exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc. and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named. I hereby request a one-year exemption from open flow testing for the Raile 41-31 gas well on the grounds that said well: (Check 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. vis not capable of producing at a daily rate in excess of 250 mcf/D I further agree to supply to the best of my ability any and all supporting documents deemed by Commiss staff as necessary to corroborate this claim for exemption from testing. Date: 4/23/2010		ler penalty of perjury under the laws of the state of Kansas that I am authorized to request
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Signatura Mellanda Ruana ett		
Signatura Mellina II. Run on att	Jale: <u>4/20/2010</u>	
Signatura Melling Ryana Att	Jale. <u>4720/2010</u>	
Signature: Wylyr [WV V	Jale. <u> </u>	
Title: Regulatory Analyst	Jale. <u> </u>	Signature: Jumph Barnett

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.