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

Type Test	:			•	(	See Instruct	nons on Reve	erse Side	<del>?</del> )				
_ '	en Flov liverab				Test Date	<b>)</b> :				No. 15 3-21125-00-0	0		
Company Noble Er		Inc.					Lease Keller Fa	rms				Well Numb	oer
County Cheyenr	ne		Locat S2-N2-	ion NE-SW	Section 12		TWP 2S		RNG (E.	W)		Acres Attr	ributed
Field Cherry C	Creek I	Niobr	ara Gas A	ırea	Reservoir Niobrara					hering Conne rn Star via R	ction ecord Compres	ssor	
Completic 10/8/200		e			Plug Bac 1455'	k Total Dept	h		Packer S n/a	Set at			
Casing Si 7", 4-1/2			Weigh 17#,		Internal D 9-7/8",		Set at 198',	1489'	Perfo 124	rations 8'	то 1280'		
Tubing Si 2-3/8"	ze		Weigh 4.7#		Internal E 1.995"	Diameter	Set at 1,311		Perfo	rations	То		
Type Con Single (	•	n (Des	scribe)	***************************************	Type Flui	d Production	1		Pump Ur <b>No</b>	nit or Traveling	Plunger? Yes	/ No	
Producing Tubing	Thru	(Annu	ulus / Tubin	g)	% C	arbon Dioxi	de		% Nitrog	en	Gas Gr	avity - G <sub>g</sub>	
Vertical D	epth(H	l)				Pres	sure Taps				(Meter f	Run) (Prov	/er) Size
Pressure	Buildu	p: SI	hut in11/	18/ 2	08 at		(AM) (PM) 1	aken		20	at	(AN	 И) (PM)
Well on Li	ine:	Si	tarted 1/1	9/2	20 <u>09</u> at <u>3:30</u>					20	at	at(AM) (PM	
						OBSERVE	D SURFACE	DATA			Duration of Shut-	<sub>in</sub> _1,488	BHour
Static / Dynamic Property	Orific Size (inche	9	Circle one: Meter Prover Pressi psig (Pm)	ter Differential Flowing Pressure in Temperature T		Well Head Temperature t  Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>o</sub> )		Tubing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$ psig psia		Duration (Hours)	, , , , , , , , , , , , , , , , , , ,		
Shut-In			,				240	psia	psig	psia			
Flow													
				· · · · · · · · · · · · · · · · · · ·		FLOW STR	EAM ATTRIE	BUTES					
Coeffieci (F <sub>b</sub> ) (F	Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		ircle one: Meter or er Pressure psia	Press Extension P <sub>m</sub> x h	Extension Fact		Temperature Fa		viation Metered Flow Rector R (Mcfd)		GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G <sub>m</sub>
<del></del>					(OPEN EL	OW) (DELIV	ERABILITY)	CALCUI	ATIONS				
(P <sub>c</sub> ) <sup>2</sup> =		_::	(P <sub>w</sub> ) <sup>2</sup> =	:	P <sub>d</sub> =		,	- 14.4) +		<u> </u>		2 = 0.207 2 =	
(P <sub>c</sub> ) <sup>2</sup> - (F or (P <sub>c</sub> ) <sup>2</sup> - (F	P <sub>d</sub> ) <sup>2</sup>	(P <sub>c</sub> )	:	Choose formula 1 or 2  1. $P_o^2 - P_a^2$ 2. $P_o^2 - P_a^2$ divided by: $P_o^2 - P_w^2$	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Backpress Slope C Assi Standar	= "n" :r gned	l n x i	og [	Antilog	Open Deliver Equals R (Mo	rability
Open Flow	N			Mcfd @ 14.	65 psia		Deliverabili	ty			/lcfd @ 14.65 psi	a	
	•	•	•	n behalf of the			·		/ 1	, ,	t and that he ha		•
the facts st	tated th	nerein,	and that sa	aid report is true	RECE	<b>VED</b> uted	this the 9th	<u> Li</u>	day of O	ctoper	101	, 20	
	<del></del>	0.0	Witness (i	f any)	OCT 1	6 2009	_	(N	MX	For Co	Impany		
	·····		For Comm	nission	CC WI	CHITA	<del></del>			Check	ed by		

I dec	clare under penalty of perjury under the laws of the state of Kansas that I am authorized to request
	status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc.
	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 equipr	nent installation and/or upon type of completion or upon use being made of the gas well herein named.
l her	eby request a one-year exemption from open flow testing for the Keller Farms 23-12
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.
	is not capable of producing at a daily rate in excess of 250 mcf/D
I furt	ner agree to supply to the best of my ability any and all supporting documents deemed by Commission
	ner agree to supply to the best of my ability any and all supporting documents deemed by Commission necessary to corroborate this claim for exemption from testing.
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## 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.