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

Type Test	t: en Flo	ow			Test Date	(See Instruct e:	tions on Re	verse Side	•	No. 15				
De	liveral	bilty								23-21065-0	00-00			
Company Noble E		' Inc					Lease Keller F	arms			13-17	Well Nu	ımber	
County Location Cheyenne SW-NW-SW				Section 17		TWP 2S		RNG (E/W) 38W			Acres /	Attributed		
Field Cherry Creek				Reservoir Niobrara				Gas Gatt Souther	ection					
Completion Date 12/1/2008				Plug Back Total Depth			Packer S	et at						
Casing Size Weight 7", 4-1/2" 17#, 10.5#				Internal   9-7/8",		Set at 248', 1489'		Perforations 1294'		то 1320'				
Tubing Size Weight 2-3/8" 4.7#				Internal I 1.995		Set at 1384'		Perforations		То		······································		
Type Completion (Describe)				Type Fluid Production Saltwater			Pump Unit or Traveling Plunger? Yes / No yes							
Single (gas) Producing Thru (Annulus / Tubing)				% Carbon Dioxide							as Gravity - G <sub>e</sub>			
Tubing Vertical E	epth(	H)				Pres	sure Taps	_ <del></del>			(Meter	Run) (P	rover) Size	
			2/2	3	11 0	·30			<del> </del>					
Pressure			Shut in <u>2/2</u> Started <u>2/2</u>		0 11 at 3 0 11 at 1		$\leq$				at			
Well on L	ine:		Started	2	0 at		(PM)	Taken		20	at		(AM) (PM)	
			Circle one:	Pressure		OBSERVE	D SURFAC		<del>-</del>		Duration of Shut	-in _26	Hours	
Static / Dynamic Property	nic Size		Meter Prover Pressu psig (Pm)	Differential	Flowing Well He Temperature Tempera t t		Wallhand Proceura		Tubing Wellhead Pressure $(P_u)$ or $(P_t)$ or $(P_c)$		Duration Li (Hours)		d Produced Barrels)	
Shut-In							110							
Flow														
						FLOW STR	EAM ATTR	IBUTES			· · · · · · · · · · · · · · · · · · ·			
Plate Coeffiecient (F <sub>p</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension Pmxh	Gra Fac F	or Temperature		Fa	riation actor F <sub>p</sub> ,	Metered Flow R (Mcfd)	W GOR (Cubic Fe Barret		Flowing Fluid Gravity G <sub>m</sub>	
···					(ODEN EL	OWO (DEL 19)		\	ATIONS	<del></del>				
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P_)² =	:	OPEN FL	OW) (DELIV		) CALCUL 2 <sub>e</sub> - 14.4) +		:	(P <sub>a</sub> (P <sub>d</sub>	1 <sup>2</sup> = 0.2 1 <sup>2</sup> =	07	
$(P_a)^2 - (P_u)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		Choose formula 1 or 2  1. P <sub>a</sub> <sup>2</sup> · P <sub>a</sub> <sup>2</sup> 2. P <sub>a</sub> <sup>2</sup> · P <sub>a</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup>	1. P <sub>2</sub> -P <sub>2</sub> 2. P <sub>2</sub> -P <sub>2</sub> 3. P <sub>3</sub> -P <sub>2</sub> 4. LOG of formula 1. or 2. and divide		Slo	Backpressure Curve Slope = "n" or Assigned Standard Slope		.oc [ ]	Antilog	Del Equals	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flor	w			Mcfd @ 14.	65 psia		Deliverat	ility		<u></u>	Mcfd @ 14.65 ps	ia		
				n behalf of the				_		e above repo	ort and that he ha		ledge of	
			Witness (	any)		· · · · · · · · · · · · · · · · · · ·	-		-eu	J For C	Company	RE	CEIVED	
			For Comm	ission		<del></del>	-			Chec	cked by			
													: 13 20	

exempt status und and that the foreg correct to the best of equipment insta	er penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc.  going pressure information and statements contained on this application form are true and tof my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named. est a one-year exemption from open flow testing for the Keller Farms 13-17 younds that said well:
(Check	
Date: 11/18/2011	Signature:

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
DEC 1 3 2011