KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:			(See Instruct	ions on Rev	rerse Side)					
	en Flow liverabilt	<i>(</i>		Test Date	e:				No. 15 123-21202-00	0-00			
Company Noble Er		ic		-		Lease Keller F	arms			31-18	Well Nu	mber	
County Location Cheyenne SE-SE-NW-NE			Section 18		TWP 2S		RNG (E/W) 38W		Acres Attributed		ttributed ,		
Field Cherry Creek			Reservoir Niobrara				Gas Gath Souther	ction					
Completion Date 1/9/2009		Plug Bac 1479'	ħ		Packer S	et at							
Casing Size 7", 4-1/2"		Weight 17#, 1	1.6#	Internal Diameter 9-7/8", 6-1/4"		Set at 229', 1518'		Perforations 1268'		то 1310'			
Tubing Size 2-3/8"		Weight 4.7#		Internal Diameter 1.995		Set at 1332'		Perforations		То			
Type Con Single (-	(Describe)		Type Flui Saltwa	id Production	ו		Pump Uni		Plunger? Yes	/ No		
Producing Tubing	g Thru (/	Annulus / Tubing)		% (Carbon Dioxi	de		% Nitroge	en	Gas Gr	avity - (à _s	
Vertical D	epth(H)				Pres	sure Taps				(Meter	Run) (P	rover) Size	
Pressure	Buildup:	Shut in	2	0 13 at 1	:30	(AM) (PM)	Taken		20 _	at	(AM) (PM)	
Well on Line:		Started 9/28	2	20 <u></u>		(AM) PM Taken				at	at (AM) (PM)		
		<u> </u>			OBSERVE	D SURFACI	DATA			Duration of Shut	in_24.	.5 Hours	
Static / Dynamic Property	Orifice Size (inches	Meter Prover Pressur		Temperature Temperatu		Wellhead Pressure (P_w) or (P_1) or (P_c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In		, paig (riii)	Inches H₂0			psig 101	. psia	psig	psia		-		
Flow						-							
					FLOW STR	EAM ATTR	BUTES			-		, 	
Plate Coeffied (F _b) (F Mofe	ient ,)	Circle one: Mater or Prover Pressure psia	Press Extension P _m xh	Gra Fac F	or Temperature		F	viation actor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m	
(P _c) ² =		: (P _w) ² =_	:	-	.OW) (DELIV			_ATIONS + 14.4 =	· :	(P _a) (P _d)	$r^2 = 0.2$	07	
(P _c) ² - (l	P_)2	$\frac{\text{Choose formula 1 or 2:}}{1. P_c^2 - P_a^2}$ $2. P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$		LOG of formula 1. or 2.		Backpressure Curve Slope = "n" or Assigned Standard Slope		e o x LOG		Antilog D		pen Flow iverability BR x Antilog (Mcfd)	
Open Flow Mcfd @ 14.65 psia			Deliverability Mctd @ 14.65 psia										
	•	ned authority, on				•			•			-	
		Witness (if	апу)	-		-			For Co	ompany K (CC V	VICHIT	
		For Commis	sion			-			Check	red by	EC 3	1 2012	

Property con-

	der 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
and that the fore correct to the be of equipment ins	going pressure information and statements contained on this application form are true and st of my knowledge and belief based upon available production summaries and lease records tallation and/or upon type of completion or upon use being made of the gas well herein named. Lest a one-year exemption from open flow testing for the Keller Farms 31-18
	rounds that said well: 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.
staff as necessa	is not capable of producing at a daily rate in excess of 250 mcf/D see to supply to the best of my ability any and all supporting documents deemed by Commissic ry to corroborate this claim for exemption from testing.
Date: <u>12/27/13</u>	Signature: Clay Johnson Title: Completions Supervisor

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 **1S** 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.