KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

	: en Flo liverab				(e		ctions on Rev	verse Side	ÁPI	No. 15 023-20975-0	00-00		
Company Noble E		Inc				<u> </u>	Lease Rueb Fa	arm		020 20070	24-16	Well Nu	ımber
County Location Cheyenne SE-SW				Section TWP 16 3S			RNG (E/		Acres Attributed				
Field Cherry Creek					Reservoir Niobrara			Gas Gathering Connection Kinder Morgan					
Completion Date 3/11/2008				Plug Back Total Depth 1588'			Packer S	Set at			,		
Casing Size Weight 7", 4-1/2" 17#, 11.6#				Internal 0 9-7/8",			Set at 321', 1726'		rations 6'	то 1554'			
	Tubing Size Weight			Internal E		Set a	<u></u>		rations	То			
Type Completion (Describe) Single (gas)				Type Flui	Type Fluid Production Saltwater				Pump Unit or Traveling Plunger? Yes / No				
	<u> </u>	(Anr	nulus / Tubing	3)		Carbon Diox	ride		% Nitrog	jen	Gas G	ravity - (Э ₉
Vertical D	epth(ł	H)				Pres	ssure Taps				(Meter	Run) (P	rover) Size
Pressure	Buildu	p: :	Shut in11/	192	0_13_at_2	:10	(AM) (PM)	Taken		20	at		(AM) (PM)
Well on L			Started 11/2		0 13 at 4						at		
						OBSERVI	ED SURFAC	E DATA			Duration of Shut	26	.25 Hours
Static / Dynamic Property	ic Size		Circle ene: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H _o 0	Flowing Well Head Temperature t t		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration Liq (Hours)		id Produced (Barrels)
Shut-In		poig (1 1 1 1 2 1 2			psig 132	psia	psig	psia			
Flow													
						FLOW ST	REAM ATTR	IBUTES			<u> </u>		
Plate Coeffiecient (F _b) (F _p) Mofd		Pro	Circle one: Meter or over Pressure psia	Press Extension P _m xh	Extension Fact		Flowing Temperature Factor F _{f1}		eviation Metered Flow Factor R F _{pv} (Mcfd)		(Cubic F	GOR (Cubic Feet/ Barrel)	
													<u> </u>
(P _c) ² =		_:	(P _w) ² =	<u> </u>	(OPEN FL	, ,	VERABILITY .% (F	•	LATIONS + 14.4 =	:) ² = 0.2) ² =	207
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		Choose formula 1 or 2 1. P _c ² - P _e ² 2. P _c ² - P _d ² divided by: P _c ² - P _w	LOG of formula 1. or 2. and divide by: Pc - Pc w		Backpressure Curv Slope = "n" or Assigned Standard Slope		n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flo	w			Mcfd @ 14.	.65 psia	•••	Deliverat	oility			Mcfd @ 14.65 p	sia	
		-	=	n behalf of the							ort and that he h		vledge of
ano rabia s			,, and mai se	are report to the	and confec		~ and are		,		K		MICHIT
			Witness (il any)			-	•		For	Company)EC 3	1 2013
		·	For Comm	vission			-			Che	cked by	RE(CEIVED

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exempt status under and that the forego- correct to the best of equipment instal I hereby reque	er penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc. Doing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records llation and/or upon type of completion or upon use being made of the gas well herein named. It is a one-year exemption from open flow testing for the Rueb Farm 24-16 bunds that said well:
_	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 supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: 12/27/2013	Signature: <u>Land Johnson</u> Title: <u>Completions Supervisor</u>

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. signed and dated on the front side as though it was a verified report of annual test results.

DEC 3 1 2013

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