KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				(See Instru	ctions on Re	verse Side	e)				
	en Flo liverab				Test Date	e:				No. 15 023-21171-0	0-00		
Company Noble Er		Inc					Lease Dunbar				21-13	Well Nu	ımber
County Location Cheyenne NE-SE-NE-NW				Section 13		TWP 2S			RNG (E/W) 39W		Acres Attributed		
Field Cherry Creek				Reservoi Niobrara				Gas Gathering Connection Southern Star		ection			
Completion Date 12/5/08				Plug Bac 1403'	k Total De	pth		Packer Set at					
Casing Size Weight 7", 4 1/2" 17#, 11.6#				Internal Diameter 9 7/8", 6 1/4"			Set at . 188', 1443'		Perforations 1224'		то 1262'		
Tubing Size Weight 2 3/8" 4.7#								Perforations		То			
Type Completion (Describe) Single (gas)				Type Flui Saltwa	id Production			Pump Unit or Traveling yes		Plunger? Yes / No			
 	<u> </u>	(Anı	nulus / Tubing))	% C	Carbon Dio	xide		% Nitrog	en	Gas G	ravity -	G _g
Vertical Depth(H)			Pressure Taps						(Meter	Run) (P	rover) Size		
Pressure	Buildu	n:	Shut in3/20) 20	13 at 1	0:00	(PM)	Taken		20	at		(AM) (PM)
Well on Line:		•			13 10:00		_	_		20		·	
						OBSERV	ED SURFAC	E DATA			Duration of Shu	t-in_24	Hours
Static / Dynamic Property	Dynamic Siz		Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential re in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature	erature (P_w) or (P_t)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		1 '		id Produced (Barrels)
Shut-In			poig (r iii)	monos v ₂ o	<u> </u>		psig 66	psia	psig	psia			
. Flow													
						FLOW ST	REAM ATTR	IBUTES	·.a				<u>, </u>
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P _m x h	ension Fac		Flowing Temperature Factor F ₁₁	mperature Factor F		Metered Flow R (Mcfd)	y GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m
													<u>}</u>
(P _c) ² =		_:	(P _w) ² =	Choose formula 1 or 2:	•	OW) (DELI	VERABILITY _% (f	-	LATIONS + 14.4 =	 ;	•	$)^2 = 0.2$ $)^2 = \underline{}$	<u></u>
(P _e) ² - (F or (P _e) ² - (F	P _a) ²	(F	°,)²- (P,)²	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.	P.2. P.2	Slo	ssure Curve pe = "n" - or signed lard Slope	n v i	roe	Antilog	De Equal	pen Flow liverability s R x Antilog (Mcfd)
Open Flow Mcfd @ 14.65				5 psia		Deliverat	Deliverability		Mcfd @			14.65 psia	
		-	•				•			•	rt and that he h		•
the facts s	tated t	herei	n, and that sa	uid report is true	and correc	t. Execute	d this the 1	6	day of _D	ecember	K	CC V	20 <u>13</u> . VICHIT/
			Witness (i	fany)			-			ForC			1 2013
			For Comm	ission			-			Chec	ked by		FIVED

and that the fore	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 st of my knowledge and belief based upon available production summaries and lease records
of equipment ins	allation 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 Dunbar 21-13
	rounds 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 the to supply to the best of my ability any and all supporting documents deemed by Commission by to corroborate this claim for exemption from testing.
Date: <u>12/16/13</u>	Signature: <u>Cleuf Adam</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. The form must be signed and dated on the front side as though it was a verified report of annual test results.