KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Ins	struct	ions on Rev	erse Side)						
Open Flow					Test Date: API No. 15											
De	liverabi	lty									-023-20796	-00-00				
Company Noble Energy Inc						Lease Workman				33-31				Well Number		
County Locatio Cheyenne NW-SE				on Section 31				TWP 3S		RNG (E 41W	/W)		Acres Attributed			
Field Cherry Creek				Reservoi Niobrar		***************************************				thering Con		n				
Completion Date 10/9/2007				Plug Bac 1598'	k Total	Dept	h	Packer			ker Set at					
Casing Size 7, 4-1/2"			Weigh 17#, 9	Internal Diameter 9-7/8", 6-1/4"			Set a 317'	t , 1639'	Perfo	orations In'		то 1530'				
Tubing Size 2-3/8"			Weigh	Internal Diameter 1.995			Set at 1556'			orations		То				
Type Completion (Describe)				Type Flui Saltwa		ection		Pump Unit or Trav			ling Plunger? Yes / No					
Single (gas) Producing Thru (Annulus / Tubing)				% Carbon Dioxide			de		% Nitro	gen	(Gas Gravity - G				
Tubing Vertical Depth(H)					Pressure Taps				(Meter Run) (Prover) Size							
	Buildus		2hut in 11/	14 2	 _ 13 _, 1	0:30A	М	(AM) (DM)	Takan		20			11	NA\ (DAA)	
					20 13 at 10:30AM											
						· · · · · ·		D SURFACE				Duration o		24	Hours	
Static / Orific		ιI	Circle one: Meter	Pressure Differential	Flowing Temperature	Well Head Temperature t		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Duration	on	Liquid Produced		
Property	' 1		Prover Pressu psig (Pm)	re in Inches H ₂ 0	t							(Hours)		(Barrels)		
Shut-In								110								
Flow				_l		l		<u> </u>		<u></u>		1				
			_		1	FLOW	STR	EAM ATTRI	BUTES		i					
Plate Coefficient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension Pmxh	Fac	Gravity Factor F _g		Flowing Temperature Factor F _{r:}		eviation Metered Flo Factor R F _{pv} (Mcfd)		w GOR (Cubic Fee Barrel)		,	Flowing Fluid Gravity G _m	
			(*)		•			ERABILITY)				•	(P _a) ² =)7	
P _c) ² =	T	_:_	(P _w) ² =	Choose formula 1 or 2	P _a =	_	<u> </u>	1	' _c - 14.4) +		<u> </u>	<u> </u>	(P _d) ² =	=		
$(P_c)^2 \cdot (P_a)^2$ or $(P_c)^2 \cdot (P_d)^2$		(P _c) ² - (P _w) ²		1, P _c ² -P _a ² 2, P _c ² -P _d divided by: P _c ² -P _d	LOG of formula 1. or 2. and divide	P _c ² - F	2	Backpressure Curve Slope = "n" or Assigned Standard Slope		۸ ۸	LOG	Antilo	ig l	Open Flow Deliverability Equals R x Antilog (Mcfd)		
		<u>-</u>														
Open Flo	w		• • • • • • • • • • • • • • • • • • • •	Mcfd @ 14	.65 psia			Deliverab	ility			Mcfd @ 14	.65 psia			
		•	•	n behalf of the	•			-			•	ort and that	t he has		edge of	
ie iacts s	siated th	re re il	i, and that sa	aid report is tru	e and correc	л. ⊏ХӨ(Juled	uns ine		uay of _				, 2		
			Witness (i	f eny)				-			Fo	r Company		KC(C WIC I	
			For Comm	ission				_			Ch	ecked by		NF	C 3 0 2(
															_	
														F	RECEIV	

exempt status and that the focorrect to the boot of equipment in	under Pule K.A.R. 82-3-304 on behalf of the operator Noble Energy Incoregoing pressure information and statements contained on this application form are true and sest of my knowledge and belief based upon available production summaries and lease records installation and/or upon type of completion or upon use being made of the gas well herein named. Inquest a one-year exemption from open flow testing for the Workman 33-31
gas well on the	grounds that said well:
(Chi	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
l further aç	gree to supply to the best of my ability any and all supporting documents deemed by Commission
staff as necess	sary to corroborate this claim for exemption from testing.
Date: 12/12/20	013
	Signature: Kalule Miles
	Title: Regulatory Analyst

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

DEC 30 2013