KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test					(See Instruc	tions on Rev	erse Side	e)			
Open Flow Deliverabilty				Test Date	Test Date:			API No. 15 15-023-20849-00-00				
Company Noble Energy Inc					Lease LAMPE					,	Well Number 21-33	
County Location CHEYENNE NE-NW				Section 33		TWP 3S		RNG (E/W) 41W		Acres Attributed		
					Reservoir Niobrara			Gas Gathering Connection Kinder Morgan via Lampe Compressor				
1/23/200		te	• •		Plug Bac 1572'	k Total Dep	th		Packer S	Set at		
Casing Size 7", 4-1/2"			Weigh 17 #, 1		Internal Diameter 9-7/8", 6-1/4"		Set at 244', 1614'		Perforations 1401'		то 1440'	
Tubing Size 2-3/8"			Weigh 4.7#	· · · · · · · · · · · · · · · · · · ·	Internal Diameter 1.995		Set at 1472'		Perforations		То	
Type Completion (Describe) Single (gas)					Type Fluid Production Saltwater			Pump Ui Yes	nit or Traveling	Plunger? Yes	/ No	
Producing Thru (Annulus / Tubing) Tubing				% C	% Carbon Dioxide				% Nitrogen		Gas Gravity - G _g	
Vertical D	Pepth(F	1)				Pres	sure Taps				(Meter F	Run) (Prover) Size
Pressure	Buildu	ıp:	Shut in2/1	4 2	0_13_at_1	2:00	(AM) (PM)	Taken_2/	15	20	13 at 1:45	(AM) (PM)
Well on L	ine:		Started	2	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)
						OBSERVE	D SURFACE				Duration of Shut-	25.75 Hours
Static / Dynamic Property	Dynamic Size		Circle one: Pressure Meter Differential Prover Pressure psig (Pm) Inches H ₂ 0		Flowing Well Head Temperature t		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Duration (Hours)	Liquid Produced (Barrels)
Shut-In		•					145	pola	psig	psia		
Flow						<u> </u>			<u> </u>			
			Circle one:	-		FLOW STE	REAM ATTRI	BUTES			<u> </u>	- 1
Plate Coefficient (F _b) (F _p) Mcfd		Pro	Meter or Extens Prover Pressure psia		Gravity Factor F _g		Temperature Fa		viation Metered Flow actor R F _{pv} (Mcfd)		v GOR Flow (Cubic Feet/ Gra Barrel) G	
									,			
(P _c) ² =		. :	(P _w) ² =	:	(OPEN FLO		'ERABILITY) % (P.	CALCUL - 14.4) +		:	(P _a) [;] (P _d)	2 = 0.207 2 =
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(F	$(P_c)^2 - (P_w)^2$ $(P_c)^2 - (P_w)^2$ $(P_c)^2 - (P_w)^2$ $(P_c)^2 - (P_w)^2$ $(P_c)^2 - (P_c)^2$		LOG of formula 1. or 2. and divide	LOG of formula 1. or 2. and divide p 2 p 2		Backpressure Curve Slope = "n" or Assigned Standard Slope		LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
				- c w						•		
			<u> </u>						<u>.</u>	·		
Open Flow Mcfd @ 14.65				65 psia	5 psia Deliverability			Mcfd @ 14.65 psia				
											rt and that he ha	
the facts s	tated t	herei -	n, and that sa	id report is true	and correc	t. Executed	this the 12	th	day of	ECEMBER		, ₂₀ <u>13</u> .
			Witness (il	any)		K(CC WIC	CHITA	1	For C	Company	·
			For Comm	ssion			FR 14		-	Che	ked by	· · · · · · · · · · · · · · · · · · ·

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc.
and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records
of equipment installation and/or upon type of completion or upon use being made of the gas well herein named. I hereby request a one-year exemption from open flow testing for the LAMPE 21-33
gas well on the grounds that said well: (Check 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. is not capable of producing at a daily rate in excess of 250 mcf/D I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.
Date: 12/12/2013 Rev 2/7/14
Signature: Completions Supervisor
HIIIe:

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.

KCC WICHITA

FEB 14 2014

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