KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	it:					(See Instruc	tions on Rev	rerse Side	∍)					
o	pen Flo	ow												
De	eliveral	bilty			Test Date	e:				'l No. 15 -023-20850-(00-00			
Company Noble Energy, Inc.						Lease Lampe				Well Number 22-33				
County Location Cheyenne SE-NW				Section 33				RNG (E	E/W)		Acres Attributed			
Field Cherry (Creek	Nio	brara Gas A	rea	Reservoi Niobrar					thering Conn	ection Lampe Compre	esor		
Completi	on Da				Plug Bac	k Total Dep	th		Packer		campo compre			
6/20/2008 Casing Size Weight						Internal Diameter Set at			n/a Perfe	orations	То	То		
7", 4-1/2 Tubing S			17#, Weigh		9-7/8",		254' Set a	, 1598'	137	74' orations	1412' To			
2-3/8"		- /5	4.7#	-	1.995"	-	1445							
	Type Completion (Describe) Single (Gas)					Type Fluid Production Saltwater				Pump Unit or Traveling Plunger? Yes / No Yes				
Producing Tubing	g Thru	(An	nulus / Tubing	3)	% (Carbon Dioxi	de		% Nitro	gen	Gas Gi	avity - (3 _g	
Vertical D	Depth(l	1)	<u> </u>			Pres	sure Taps				(Meter	Run) (P	rover) Size	
Pressure	Buildu	ın:	Shut in	B/2	09 _{at} 1	:00	(AM) (PM)	Takan		20	at		'AAA\ /DAA\	
Well on L			Started 2/19		09 at 2		\sim				at			
						OBSERVE	D SURFACE	DATA			Duration of Shut-	_{in} 25	Hours	
Static /	Orif		Circle one: Meter	Pressure Differential	Flowing	Well Head	Casi Wellhead F	ng	1	Tubing ead Pressure	Duration		d Produced	
Dynamic Property	Siz (inch		Prover Pressu psig (Pm)		Temperature t	Temperature t	(P _w) or (P _t			or (P _t) or (P _c)	(Hours)		Barrels)	
Shut-In							200	P-1-	Poly	pola	***************************************		•	
Flow														
						FLOW STR	EAM ATTRI	BUTES						
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension	Fact	Gravity Factor F _g		Flowing Devi Temperature Factor F		Metered Flow R (Mcfd)	w GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m	
					•	• •	ERABILITY)	CALCUL	ATIONS		(P _a)	2 = 0.20	07	
(P _c) ² =		<u> </u>	(P _w) ² =	Choose formula 1 or 2:	P _d =	9	6 (P _c	- 14.4) +	14.4 =	:	(P _d)	· =		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		1. P _c ² - P _a ² 2. P _c ² - P _d ² ivided by: P _c ² - P _w ²	LOG of formula 1. or 2.	formula 1. or 2. and divide p2. p2		Backpressure Curve Slope = "n" or Assigned Standard Slope		LOG	Antilog	Deli Equals	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flow				Mcfd @ 14.0	65 psia	osia Deliverabilit		ity			Mcfd @ 14.65 psia			
The u	ındersi	gned	authority, on	behalf of the	Company, s	tates that he	e is dulv aut	horized to	make th		t and that he ha		edge of	
				d report is true	and correct		this the 6th	ı		october	Rash		09	
			Witness (if	any)	nn	T 13 2				For Co	ompany			
			For Commi	ssion					··· <u>·</u>	Check	ked by			

KCC WICHITA

	clare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc.
	t the foregoing pressure information and statements contained on this application form are true and
orrect	to the best of my knowledge and belief based upon available production summaries and lease records
	ment installation and/or upon type of completion or upon use being made of the gas well herein named. reby request a one-year exemption from open flow testing for the Lampe 22-33
	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
l fu	rther 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: <u>1</u>	0/6/09
	₹ 1000.
	Signature: (Min) Joseph
	Title: Regulatory Specialist

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.