KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:				((See Instruc	tions on Rev	verse Side	e)			
Op	en Flo	w			Test Date	a.			ΔDI	No. 15		
☐ De	eliverat	ilty			rest Date	G.				-21060-00-	00	
Company Noble E		, Inc					Lease Zweyga	rdt			43-33	Well Number
County Location Cheyenne NW-NW-NE-SE				Section 33		TWP 3S		RNG (E/W) 41W		Acres Attributed		
Field Cherry (Creek	Niol	orara Gas /	Area	Reservoi Niobrar	•				hering Conn Morgan via	ection Lampe Compre	ssor
Completion Date 7/30/2008			Plug Bac 1563'	k Total Dep	th		Packer S N/A	et at				
Casing Size 7", 4-1/2"			Weight 17#, 11.6#		Internal Diameter 9-7/8", 6-1/4"		Set at 255', 1605'		Perforations 1371'		то 1408'	
Tubing Size Weight N/A				Internal (Diameter	Set a	t	Perfo	rations	То		
Type Completion (Describe) Single (Gas)				Type Fluid Production Saltwater				Pump Un No	it or Traveling	Plunger? Yes	/ No	
Producing		(Anr	nulus / Tubir	ıg)	% C	Carbon Dioxi	ide		% Nitrog	en	Gas Gra	ıvity - G _g
Vertical D	epth(H	i)				Pres	sure Taps				(Meter F	Run) (Prover) Size
Pressure	Buildu	•	Shut in _3/8		09 at 1		(AM) (AM)	Taken		20	at	(AM) (PM)
Well on L	ine:	,	Started 3/9	2	0 <u>09</u> at <u>2</u>	:10	(AM) (PM)	Taken		20	at	(AM) (PM)
						OBSERVE	D SURFACE	DATA			Duration of Shut-i	Hours
Static / Dynamic Property	Orifi Sizi (inche	е	Circle one: Meter Prover Press psig (Pm)		essure erential in the properties of the propert			Liquid Produced (Barrels)				
Shut-In			, , ,	2			170	psia	psig	psia		
Flow												
						FLOW STR	EAM ATTRI	BUTES				
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension √ P _m x h	Gravity Factor F _g		Flowing Temperature Factor F ₁₁		iation ctor pv	Metered Flov R (Mcfd)	v GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G _m
·····												
(P _c) ² =		_:_	(P _w) ² =	·:	(OPEN FLO		ERABILITY) % (P _a	CALCUL - 14.4) +		:	$(P_a)^2 (P_d)^2$	= 0.207 =
(P _c) ² - (F or (P _c) ² - (F	P _a) ²	(P	c)2 - (P _w)2	Choose formula 1 or 2. 1. $P_c^2 - P_g^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2.	P _c ² - P _w ²	Slope Assi	sure Curve e = "n" or gned rd Slope	nxL	og [Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
												
Open Flow	L			Mcfd @ 14.	65 psia		Deliverabil	ity			Mcfd @ 14.65 psia	
										aboye repo	rt and that he has	knowledge of
he facts st	ated th	ereir	n, and that sa	aid report is true	and correct	RECEIVEL	this the 1st		day of De	ecerhber	1	, ₂₀ <u></u> .
			Witness (f any)		EC 0 4 2			un	For C	ompany Company	
		•••	For Comm	ission	וטו		_			Chan	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.										
	foregoing pressure information and statements contained on this application form are true and									
	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 Zweygardt 43-33										
	ne grounds that said well:									
(C	heck 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 nece	ssary to corroborate this claim for exemption from testing.									
Date: <u>12/1/2</u>	009									
	Signature: Mun 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.