KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruc	tions on Re	verse Side	?)					
	en Flov liverabi				Test Date	9 :				No. 15 023-20844-(00-00			
Company Noble E		y, Inc.					Lease Zweyga	ardt			24-31	Well N	umber	
County Location Cheyenne SE-SW			n	Section TWP 31 3S				RNG (E/	,	Acres Attributed				
					Reservoir Niobrara				Gas Gathering Connection Kinder Morgan via Lampe Compressor					
Completic 6/17/200		e			Plug Bac 1646'	k Total Dep	th		Packer S	et at				
Casing S 7", 4-1/2			Weight 17#, 11.6#			Diameter 6-1/4"		Set at 318', 1681'		rations 6'	To 1504'			
Tubing Si 2-3/8"			Weight 4.7#			Diameter		1525'		rations	То	То		
Type Con Single ((Descri	oe)		• •	Type Fluid Production Saltwater				Pump Unit or Traveling Pl Yes		Plunger? Yes / No		
Producing Tubing	g Thru	(Annulus	/ Tubing)		% C	Carbon Diox	ide		% Nitrog	en	Gas Gra	avity -	G _g	
Vertical D	epth(H)				Pres	sure Taps				(Meter F	Run) (F	Prover) Size	
Pressure	Buildup				0_10_at_1		(PM)	Taken		20	at		(AM) (PM)	
Well on L	ine:	Start	ed 1/6/	2	0 10 at 3	:20	(AM)(PM)	Taken		20	at		(AM) (PM)	
						OBSERVE	D SURFAC	E DATA			Duration of Shut-	_{in} 27	Hours	
Static / Dynamic Property	Orific Size (inche	Prov	Circle one: Meter er Pressure sig (Pm)	Pressure Differential in Inches H ₂ 0	Pressure Differential in Temperature t Well Head Temperature (Pw)		(P _w) or (F	Pressure	Tubing Wellhead Pressure $(P_w) \text{ or } (P_1) \text{ or } (P_c)$		Duration (Hours)	Liquid Produced (Barrels)		
Shut-In		,	<u> </u>	2			psig 212	psia	psig	psia				
Flow														
						FLOW STF	REAM ATTR	IBUTES						
	Coefficient (F _b) (F _p)		one: r or ressure a	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)	et/	Flowing Fluid Gravity G _m	
(P _c) ² =		:	(P _w) ² =_	:	(OPEN FLO	• •	ERABILITY) CALCUL P _c - 14.4) +		:	$(P_a)^2$!= 0.2 !=	207	
(P _c) ² - (F	- 1	(P _c) ² - (P _w) ²	hoose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ wided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide	P _c ² -P _w ²	Backpre Sloj As	ssure Curve oe = "n" - or signed ard Slope	n x l	.og []	Antilog	O Dei Equals	pen Flow liverability s R x Antilog (Mcfd)	
			:		<u> </u>									
Open Flor	<u> </u>			Mcfd @ 14.	 65 psia		Deliverab	ility			Mcfd @ 14.65 psi	a		
				d report is true	and correc	t. Executed RE NSAS CORPO	CEVED 30 CRATION COM	Oth IMISSION	o make th	ine Jer J	rt and that he ha		rledge of 20 10 .	
			For Commiss		·	JUL	0 6 201				Company			

Laterate we wondow							
	penalty of perjury under the laws of the state of Kansas that I am authorized to request Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc.						
	ing pressure information and statements contained on this application form are true and						
correct to the best o	f my knowledge and belief based upon available production summaries and lease records						
	ation and/or upon type of completion or upon use being made of the gas well herein named. t a one-year exemption from open flow testing for the Zweygardt 24-31						
gas well on the grou							
(Check o	ne)						
i	s a coalbed methane producer						
i	is cycled on plunger lift due to water						
i	s a source of natural gas for injection into an oil reservoir undergoing ER						
i	s on vacuum at the present time; KCC approval Docket No						
√ i	s not capable of producing at a daily rate in excess of 250 mcf/D						
I further agree t	to supply to the best of my ability any and all supporting documents deemed by Commission						
staff as necessary t	to corroborate this claim for exemption from testing.						
Date: 6/30/2010							

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.