KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				. (See Instruct	ions on Reve	erse Side)				
	en Flo liverab				Test Date	: :				No. 15 0 23-20899-0	0-00		
Company Noble Energy Inc					Lease Zweygardt			12			Well Number		
County Location Cheyenne SW-NW			Section .4			TWP 4S		RNG (E/W) 41W		Acres Attributed			
Field . Cherry Creek					Reservoir Niobrara			Gas Gathering Connection Southern Star/Kinder Morgan					
				Plug Bac 1413'	Plug Back Total Depth 1413'				Packer Set at				
Casing Size Weight 7", 4-1/2" 20#, 10.5#			Internal 0 9-7/8",					Perforations 1388'		то 1425'			
Tubing Si 2-3/8"	g Size Weight		Internal Diameter 1.995		Set at 1465'		Perforations ·		То				
Type Completion (Describe) Single (gas)				Type Flui	Type Fluid Production Saltwater			Pump Unit or Traveling Plunger? Yes / No Yes					
Producing	<u> </u>	(Anr	nulus / Tubing)		Carbon Dioxi	de		% Nitrog	en	Gas G	ravity -	<u> </u>
Tubing Vertical D	epth(F	1)				Pres	sure Taps				(Meter	Run) (P	rover) Size
Pressure	Buildu	n·	Shut in 3/22	2 2	0 11 _{at} 1	:50	(AM) PM	Taken	-	20	at	<u>.</u>	(AM) (PM)
Well on L		•				11 1.50		$\overline{}$			at		
						OBSERVE	D SURFACE	DATA			Duration of Shut	-in _24	Hours
Static / Dynamic Property	Siz	Orifice Size Prover Pressure psig (Pm)		1	Flowing Well Hear Temperature t t		e (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In			psig (Fill)	Inches H ₂ 0			115	psia	psig	psia			<u> </u>
Flow													
						FLOW STR	EAM ATTRI	BUTES	·				
Plate Coeffiecient (F _b) (F _p) Mcfd			Circle one: Meter or over Pressure psia	Press Extension P _m x h	Gravity Factor F _g		Flowing Femperature Factor F ₁₁	Deviation Factor F _{pv}		Metered Flow R (Mcfd)	GOR (Cubic F Barrel	eet/	Flowing Fluid Gravity G _m
					(OPEN EL	OW) (DELIV	ERABILITY)	CALCUI	ATIONS				
(P _c) ² =		:	(P _w) ² =	:				- 14.4) +		:) ² = 0.2) ² =	207
$(P_c)^2 - (P_s)^2$ or $(P_c)^2 - (P_d)^2$		(F	P _c) ² - (P _w) ²	Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w$	2: LOG of formula 1. or 2. and divide P2. P2		Backpressure Curve Slope = "n" or Assigned Standard Slope		e n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
				·							· · · · · · · · · · · · · · · · · · ·	-	
Open Flo				Mcfd @ 14.			Deliverabi	litv			Mcfd @ 14.65 ps	sia	
			d authority or			atataa that h	·		to make th				wledge of
		-		i benair of the id report is true						lovember	rt and that he h		20 <u>11</u> .
			Witness (i					Ch	! luf	For C	Company	RE	CEIVE
			For Comm		<u></u>		_				ked by	DE	C 13 2 (

l declare under p	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
	g pressure information and statements contained on this application form are true and
_	my knowledge and belief based upon available production summaries and lease records
• •	ion and/or upon type of completion or upon use being made of the gas well herein named. a one-year exemption from open flow testing for the Zweygardt 12-4
gas well on the grour	·
is i	a coalbed methane producer cycled on plunger lift due to water a source of natural gas for injection into an oil reservoir undergoing ER on vacuum at the present time; KCC approval Docket No not capable of producing at a daily rate in excess of 250 mcf/D supply to the best of my ability any and all supporting documents deemed by Commission corroborate this claim for exemption from testing.
Date:	<u>/ </u>
	Signature: Chery Johnson Title: Regulatory Analyst 11

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.

DEC 1 3 2011