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## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				(	See Instruct	ions on Reve	rse Side	)					
	Open Flow Test Date:						API No. 15 15-023-20042 <b> 0000</b>						
Company Noble Ener	ray Inc					Lease Zweygard	41			1-32	Well Number		
County Location Cheyenne C-NW				Section 32		TWP		RNG (E/W) 41W		Acres Attributed			
Field Cherry Creek				Reservoir Niobrara		Gas		Gas Gath	Gas Gathering Connection Southern Star/Kinder Morgan				
Completion Date				Plug Bac	k Total Dept	h		Packer S					
Casing Size Weight 24#, 9.5#				Internal (	Diameter 7, 7-7/8"	Set at 308, 1621		Perforations 150		To 1473			
Tubing Size	ubing Size Weight			Internal Diameter		Set at		Perforations		То	······································		
1-1/4" Type Comple	letion (D	4.7# escribe)		1.995 Type Flui	d Production	1450		Pump Uni	it or Traveling	Plunger? Yes	/ No		
Single (ga				Saltwa		<del></del>		Yes			<del></del>		
Producing Thru (Annulus / Tubing) Tubing				% C	Carbon Dioxi	e %		% Nitrogen		Gas Gravity - G			
Vertical Dep	pth(H)				Pres	sure Taps				(Meter	Run) (Prover) Size		
Pressure Bu	uildup:	Shut in 3/7	2	0_13_at_9	:30 AM	(AM) (PM) T	aken		20	at	(AM) (PM)		
Well on Line		Started 3/8	2	0_13_at_1	1:30 AM	(AM) (PM) 1	aken		20	at	(AM) (PM)		
					OBSERVE	D SURFACE	DATA			Duration of Shut	-in_26 Hours		
Dynamic	amic Size		Circle one: Pressure  Meter Differential  Prover Pressure in		Well Head Temperature	rature (P ) or (P ) or (P )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)		
Shut-In		psig (Pm)	Inches H <sub>2</sub> 0			psig 56	psia	psig	psia				
Flow													
			· · · · · · · · · · · · · · · · · · ·		FLOW STR	EAM ATTRIE	BUTES						
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Clicle one: Pre Meter or Exter  Prover Pressure psia		Gravity Factor F <sub>p</sub>		Flowing Femperature Factor F <sub>rt</sub>	Fa	iation ctor pv	Metered Flow R (Mcfd)	v GOR (Cubic Fe Barrel)	# Gravity		
										]			
P <sub>c</sub> ) <sup>2</sup> =	<u> </u>	(P <sub>w</sub> )² =	·:	(OPEN FL		ERABILITY) % (P <sub>c</sub>	CALCUL - 14.4) +		:	(P <u>.</u> ; (P <sub>d</sub> )	) <sup>2</sup> = 0.207 ) <sup>2</sup> =		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		P <sub>c</sub> )² - (P <sub>w</sub> )²	Choose formula 1 or 2  1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_a^2$	LOG of formula 1. or 2. and divide	P.2. P.2	Slope Assi	sure Curve	n x i	og [	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
,													
Open Flow			Mcfd @ 14.	65 nsia		Deliverabili	itv			Mcfd @ 14.65 ps	l		
·	dereiana	d authority o		· · · · · · · · · · · · · · · · · · ·	ctatos that h		-	o maka the		ort and that he ha			
	_	•	aid report is true			•			-		, 20 <u>13</u> .		
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exempt status and that the for correct to the loof equipment in the latest the loof equipment in	under penalty of perjury under the laws of the state of Kansas that I am authorized to request under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Incoregoing 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 installation and/or upon type of completion or upon use being made of the gas well herein named. Equest a one-year exemption from open flow testing for the Zweygardt 1-32
	e grounds that said well:  neck 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
	agree to supply to the best of my ability any and all supporting documents deemed by Commission ssary to corroborate this claim for exemption from testing.
	Signature: Kullu milly  Title: Regulatory Analyst

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 **1S** 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

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