KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:				(See Instruc	tions on Re	verse Side	=				
Open Flow Deliverabilty				Test Date:				API No. 15 023-20779-00-00					
Compan Noble E		, Inc					Lease Zweyga	rdt			21-32	Vell Nu	mber
County Location Cheyenne NE-NW			Section 32		TWP			:/W)	Acres Attributed				
Field		Niol	orara Gas A		Reservoi Niobrar			7		thering Conn	ection Cherry Creek C	omore	ssor
Completi 9/20/200	on Da					k Total Dep	th		Packer :		Chiefly Crook C		
Casing Size Weight 7", 4-1/2" 20#, 10.5#				Internal I 9-7/8",			Set at Po		orations	To 1458'	то 1458'		
Tubing Size Weight N/A				Internal I		Set a			То				
Type Cor Single			escribe)	 	Type Flui Saltwa	d Production	n		Pump U Yes	nit or Traveling	Plunger? Yes	/ No	
	g Thru		nulus / Tubing)		Carbon Dioxi	de		% Nitro	gen	Gas Gra	vity - G	g
Vertical C		1)				Pres	sure Taps				(Meter F	Run) (Pr	over) Size
Pressure	Buildu	ın.	Shut in 2/2	5/ 2	09 at 8	:20	(AM) (PM)	Taken		20	at		AM) (PM)
Well on L		•	Started 2/26		0 09 at 9		\succ				at		
	·	· · · · · · · · · · · · · · · · · · ·				OBSERVE	D SURFACE	E DATA			Duration of Shut-i	n_25	Hours
Static / Orific Dynamic Size Property (inches		e	Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	al Temperature Tempe		Head wellhead Pressur (P _w) or (P _t) or (P _t)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		1 '		Produced arrels)
Shut-In			, , ,				psig 175	psia	psig	psia			
Flow													
<u></u>						FLOW STR	EAM ATTRI	BUTES					
Plate Coeffiecient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or over Pressure psia	Press Extension P _m x h	Grav Fac F	tor	Flowing Temperature Factor F _{tt}		iation ctor pv	Metered Flow R (Mcfd)	v GOR (Cubic Fee Barrel)	et/	Flowing Fluid Gravity G _m
					(OPEN EL	OW) (DELIV	ERABILITY)	CALCIII	ATIONS				
(P _c) ² =		:	(P _w) ² =		P _d =	, ,	-	calcul - 14.4) +		:	(P _a) ² (P _d) ²	= 0.20)7
(P _c) ² - (or (P _c) ² - (l		(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	P _c ² - P _w ²	Slop	ssure Curve ne = "n" or signed ard Slope	n x	LOG	Antilog	Deliv Equals	en Flow verability R x Antilog Mcfd)
												·	
Open Flo	w			Mcfd @ 14.	65 psia		Deliverabi	lity	······································		Mcfd @ 14.65 psia	a	
				behalf of the					/\ _	ne above reco	st and that he has		edge of 09 .
			Witness (if								Company	TC 1	EIVED
			For Commi	SSIUN						Chec	ked by	FC II	a znna

KCC WICHITA

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exempt status under and that the forego correct to the best of of equipment installa	penalty of perjury under the laws of the state of Kansas that I am authorized to request r 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 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. It a one-year exemption from open flow testing for the Zweygardt 21-32
(Check o	į.
i i i i i i i i i i i i i i i i i i i	s a coalbed methane producer s cycled on plunger lift due to water s a source of natural gas for injection into an oil reservoir undergoing ER s on vacuum at the present time; KCC approval Docket No s not capable of producing at a daily rate in excess of 250 mcf/D o supply to the best of my ability any and all supporting documents deemed by Commission o corroborate this claim for exemption from testing.
Date: 12/1/2009	
	Signature:

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.