KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	it:				(See Instruc	tions on Re	verse Side	e)				
	oen Flo eliverab				Test Date	9 :				No. 15 3-20799-00-0	00		
Company Noble E		Inc.					Lease Zweyga	rđt			۱ 12-5	Vell Number	
County Location Cheyenne SW-NW					Section TWP 5 4S				RNG (E 41W	/W)	Acres Attributed		
Field		Niobra	ra Gas Ar	ea	Reservoir Niobrara					thering Conn Morgan via	ection Cherry Creek C	ompressor	
Completion Date 10/5/2007				Plug Back Total Depth 1624'				Packer S N/A	Set at		·		
Casing Size 7", 4-1/2"			Weight 17#, 9.5#		Internal Diameter 9-7/8", 6-1/4"		Set at 245', 1610'		Perforations 1396'		то 1434'		
	Tubing Size Weight				Internal (Set a	·	Perforations		То		
Type Cor Single (n (Desc	ribe)		Type Flui Saltwa	d Production	m		Pump U	nit or Traveling	Plunger? Yes	/ No	
	g Thru	(Annul	us / Tubing))	% Carbon Dioxide				% Nitrogen		Gas Gra	Gas Gravity - G _g	
Vertical D)				Pres	sure Taps				(Meter F	Run) (Prover) Size	
Pressure	Buildu	p: Shi	ut in _2/19	<u>)/</u> 2	09 at 1	2:10	(AM) (PM)	Taken		20	at	(AM) (PM)	
Well on L	ine:	Sta	rted 2/20	2	0 09 at 2	:10	(AM) (PM)	Taken		20	at	(AM) (PM)	
·····						OBSERVE	D SURFACE	DATA			Duration of Shut-i	n_26Hours	
Static / Dynamic Property	Orific Size (inche	e	Circle one: Meter over Pressur psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	Casi Wellhead (P _w) or (P	Pressure	Wellhe	Fubing ad Pressure r (P ₁) or (P _c) psia	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In							180	рош	poig	psia			
Flow													
		Circ	ie one:			FLOW STR	EAM ATTRI	BUTES		*****			
Plate Coeffiec (F _b) (F Mcfd	eient	Me Prover	ter or Pressure	Press Extension P _m x h	Grav Fact F _g	or 1	Flowing Femperature Factor F _{ff}	Fa	iation ctor pv	Metered Flow R (Mcfd)	v GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G _m	
										· · · · · · · · · · · · · · · · · · ·			
(OPEN FLOW) (DELIVERABILITY) CALCULATIONS $(P_a)^2 = 0.207$ $(P_c)^2 = $: $(P_w)^2 = $: $(P_d)^2 = $: $(P_d$													
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		hoose formula 1 or 2. 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ vided by: $P_c^2 - P_w^2$	la 1 or 2: P 2 LOG of formula P 2 1. or 2. and divide P 2		Backpressure Curv		, ax106		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flow Mcfd @ 14.6				55 psia Deliverat			lity	Mcfd @ 14.65 psia					
		_	•	d report is true	and correct	t. Executed	this the 1s	it		ecember	rt and that he has	s knowledge of, 20	
 			For Commis)EC 0 4	2009 -		* ************************************		ked by		

I hereby request a one-year exemption from open flow testing for the Zweygardt 12-5 gas well on the grounds that said well: (Check 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 Corstaff as necessary to corroborate this claim for exemption from testing.	ue and
correct to the best of my knowledge and belief based upon available production summaries and lease resof equipment installation and/or upon type of completion or upon use being made of the gas well herein not be requested a one-year exemption from open flow testing for the	ecords
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Date: 12/1/2009	
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Signature: Win Lasepu	
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.