KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

`	: en Flo liverab					Test Date		uctio	ons on Reve	rse Side	•	No. 15 -023	-20518-00-00		
Company	!								Lease				V	Vell Nu	
	ation	Ene	rgy Mana		ent, LLC			ZΝ	/EYGARE)T				11-	
County Cheyen:	ne		Locati NWN\			Section	5		TWP 4S		RNG (E/ 41	w) IW	Α	cres A	ttributed
Field				•		Reservoir						nering Conne	ection		
CHERR			K			NIOBRA							nder Morgan		
Completic 10/25/29		е				Plug Bac 1552'	k Total De	epth	l		Packer S	et at			
Casing Si	ze		Weigh			Internal C			Set at		Perfo	rations	To		
7", 4 ½"			17 Weigh		0.5#		6.53, 4.052" 312', 1597' 1422' 1460' Internal Diameter Set at Perforations To								
Tubing Si 2 3/8"	ze		weigr	ւ 4.7₃	#		995		Set at	494	Perio	auons	То		
Type Con		n (De	escribe)		··	Type Flui			•		Pump Ur	it or Traveling	Plunger? Yes /		ımn
		(Anr	nulus / Tubin	a)			arbon Did		e		% Nitrog	en	Gas Gra		
ANNUL		•									_			-	ч
Vertical D	epth(F	l)					Pr	essi	ure Taps				(Meter R	un) (Pr	rover) Size
Pressure	Buildu	n:	Shut in	12/2	22 20	15 _{at} 2	2:00 PM	1 ,	'ΔΝΑ\ /ΡΝΑ\ ·Τ	akan		20	at		AM\ /PM\
Well on L		•	Started	12/2	23 20	15 at 2	2:00 PM	_ , _ (at		AM) (PM)
							ORSER	VEC	SURFACE	DATA			Duration of Chut is	2	4. Haura
D4-41- (0.4		Circle one:		Pressure	Claudes			Casin		1	ubing	Duration of Shut-i	i	Hours
Static / Dynamic Property	Orifi Siz (inch	е	Meter Prover Presso psig (Pm)	ire	oifferential in nches H ₂ 0	Flowing Temperature t	Well Hea Temperatu t		Wellhead Pi	or (P _c)	(P _w) or	ad Pressure (P _t) or (P _c)	Duration (Hours)		d Produced Barrels)
Shut-In			paig (Fill)	- "	nches H ₂ U				psig 50	psia	psig	psia			
Flow															
							FLOW S	TRE	AM ATTRIE	UTES					
Plate Coeffied (F _b) (F Mofd	ient _p)	Pro	Circle one: Meter or over Pressure psia		Press Extension	Grav Fac F	tor	Té	Flowing imperature Factor F _{tt}	Fa	iation Ictor = PV	Metered Flow R (Mcfd)	y GOR (Cubic Fee Barrel)	±t/	Flowing Fluid Gravity G _m
						Day, 1	- 437 6	· w. (85 .						
		1	13 3 7 7	40	Tariff Garage	(QPEN FL	OW) (DEL	NVE	RÅBILITY)	CALCUL	.ATIONS		(D.)		07
(P _c) ² =		_:	(P _w) ² =		:	P _d =		_%			14.4 =	:	(P _a) ² (P _d) ²	= 0.2 =	
(P _c) ² - (I	٦ _a)2		P _c) ² - (P _w) ²	1.	formula 1 or 2: P _c - P _e	LOG of formula			Backpress Slope	ure Curve	, n v	Log		Or	en Flow
or (P _c) ² - (F	² d) ²				P _c ² -P _d ² iby: P _c ² -P _w ²	1. or 2. and divide	P. 2 - P. 2		Assi	r gned d Slope	-		Antilog	Equals	R x Antilog (Mcfd)
Open Flo	W			N	1cfd @ 14.6	65 psia			Deliverabil	ity		_	Mcfd @ 14.65 psi	a	
The	unders	igne	d authority, o	n bel	half of the	Company,	states tha	t he		norized t 28	o make th		rt and that he ha CEMBER		
the facts s	tated t	herei	n, and that s	aid re	port is true			Re	this the		day of			<u> </u>	20
			Witness (if any)		F	ANSAS CO	RPOi	RATION COMM	SSION		For	Company		
			For Comr.	nission			JA	N	0 4 2018			Che	cked by		
							CONICE						•		

exempt statu and that the	e under penalty of perjury under the laws of the state of Kansas that I am authorized to request us under Rule K.A.R. 82-3-304 on behalf of the operator Foundation Energy Management, LLC foregoing pressure information and statements contained on this application form are true and
of equipmen I hereby	e best of my knowledge and belief based upon available production summaries and lease records at installation and/or upon type of completion or upon use being made of the gas well herein named. Trequest a one-year exemption from open flow testing for theZWEYGARDT 11-5
((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 agree to supply to the best of my ability any and all supporting documents deemed by Commission
Date:	essary to corroborate this claim for exemption from testing. 12/18/2015
	Signature: <u>Luttin O'hat</u> Title: HSE/Regulatory Tech

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.