KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

= '	: eл Flow liverabilt	у			Test Date		ctions on Re	verse Side	AP	I No. 15 -023-20842-0	00-00			
Company FOUNDATION ENERGY MANAGEMENT, L			LLC	Leas LC ZWi						Well Number 14-31				
County Location CHEYENNE SWSW			Section 31		TWP 3S			E/W)		Acres Attributed				
Field CHERR	Y CREI	ΞΚ		 	Reservoir NIOBRA					thering Conn HERN STAR		ion INDER MORGAN		
Completic 6/18/200					Plug Bac 1700'	k Total De	pth	Packer Set at						
Casing S 7", 4½"	ize	Wei 17#		.6#	Internal [6.538",			Set at 322', 1743'		orations 10'	то 1548'			
Tubing Si 2-3/8""	ubing Size Weight -3/8"" 4.7#			Internal [1.995"	Diameter		Set at 1566'		orations	То				
Type Completion (Describe) SINGLE (GAS)				d Producti VATER	on	Pump Unit or Traveling YES-PUMPING U								
Producing Thru (Annulus / Tubing) ANNULUS			% C	% Carbon Dioxide			% Nitro	gen	Gas Gi	Gas Gravity - G _g				
Vertical D						Pre	ssure Taps				(Meter	Run) (F	rover) Size	
Pressure	Buildup:	Shut in 2	11	2	0.15 at 1	1:00 AM	_ (AM) (PM)	Taken		20	at		(AM) (PM)	
Well on L	ine:	Started 2/		2	o <u>15</u> at <u>1</u>	1:15 AM	(AM) (PM)	Taken		20	at		(AM) (PM)	
							ED SURFAC				Duration of Shut	24	.25 Hours	
Static / Dynamic Property	Orifice Size (inches	Meter Prover Pres	sure	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperatur t	e Wellhead (P _w) or (F	Casing Wellhead Pressure (P _w) or (P _s) or (P _c) psig psia		Tubing ead Pressure or (P _t) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)		
Shut-In	<u> </u>	1131	<u>, </u>	2		<u> </u>	psig	109	psig	psia				
Flow														
						FLOW ST	REAM ATTR	IBUTES			-		 	
Plate Coeffiect (F _b) (F Mcfd	ient ,	Circle one: Meter or Prover Pressure psia		Press Extension √ P _m x h	Faci	Gravity Factor F _g		Flowing Devia emperature Fact Factor F _p		Metered Flov R (Mcfd)	GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m	
(P _c)² =		: (P _w) ²	=		(OPEN FLO	OW) (DELI	VERABILITY % (f	') CALCUL]្ច - 14.4) +		:	(P _a)	$0^2 = 0.3$	207	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_g)^2$		(P _c) ² - (P _w) ²		ose formula 1 or 2. 1. P _c ² - P _c ² 2. P _c ² - P _c ² ded by: P _c ² - P _c ²	LOG of formula 1, or 2, and divide by:		Backpre Slo As	Backpressure Curve Slope = "n" or Assigned Standard Slope		LOG	Antilog	O De	Open Flow Deliverability Equals R x Antilog (Mcfd)	
					, ,									
Open Flor	<u> </u>			Mcfd @ 14.	65 osia		Deliverab	nilîtv			Mcfd @ 14.65 ps	ila	ļ	
<u> </u>		ned authority,	on b		,	tates that	-		o make t		rt and that he ha		vledge of	
he facts s	tated the	rein, and that	said	report is true	e and correc	t. Execute	d this the 6		day of _	MARCH			20 15 .	
			. 4:4				_					Re S CORPO	Ceived ORATION COMMI	
		Witnes					-					MAR	1 6 2015	
		For Co	nmissi	on						Ched	cked by CO	NSERV	ATION DIVISIO	

	status under Rule K.A.R. 82-3-	under the laws of the state of Kansas that I am authorized to request 304 on behalf of the operator Foundation Energy Management, LLC
		mation and statements contained on this application form are true and
	-	nd belief based upon available production summaries and lease records
	•	type of completion or upon use being made of the gas well herein named. ption from open flow testing for the ZWEYGARDT 14-31
	on the grounds that said well:	
gas well	on the grounds that said well.	•
	(Check one)	
	is a coalbed metha	ne producer
	is cycled on plunge	er lift due to water
	is a source of natur	ral gas for injection into an oil reservoir undergoing ER
	is on vacuum at the	present time; KCC approval Docket No
	is not capable of pr	roducing at a daily rate in excess of 250 mcf/D
		st of my ability any and all supporting documents deemed by Commission claim for exemption from testing.
	/6/2015	Received KANSAS CORPORATION COM
D-4 3:	0/2013	MAR 1 6 201
Date: <u>3/</u>		10 201
Date: <u>3</u> ,		CONSERVATION DIVISION WICHITA KS
Date: <u>3</u> ,		CONSERVATION DIVISION WICHITA KS Signature: Matheway American Signature: Signature: CONSERVATION DIVISION DI VISION DIVISION DIVISION DIVISION DIVISION DIVISION DIVISION DI VISION DIVISION DI VISION DI VISIONI DI VISI

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.