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

Type Test:				(	See Instruction	ons on Rev	erse Side	9)				
Open Flow Deliverability				Test Date:				API No. 15 15-023-20968-00-00				
Company FOUNDATION ENERGY MANAGEMENT,				LLC		Lease ZWEYGARDT				21-4	/ell Number	
County Location CHEYENNE SW-SW-NE-NW			Section 4		TWP 4S		RNG (E/W) 41W		Α	cres Attributed		
Field CHERRY CREEK				Reservoir NIOBRA				Gas Gathering Conne SOUTHERN STAR				
Completion Date 5/28/2008				Plug Back Total Depth 1594'		1		Packer Set at				
Casing Size Weight 7", 41/2" 17#, 10.5#			Internal Diameter 6.538", 4.052"		Set at 246', 1636'		Perforations 1362'		то 1400'			
Tubing Size Weight : 2-3/8"" 4.7#			Internal Diameter 1.995"		Set at 1413'		Perforations		То	1		
Type Completion (Describe) SINGLE (GAS)				d Production VATER				nit or Traveling		No No		
Producing Thru (Annulus / Tubing) ANNULUS				% C	arbon Dioxid	e	% Nitrogen			Gas Gravity - G		
Vertical Dep		•			Press	ure Taps				(Meter R	un) (Prover) Size	
Pressure Bu	ildup:	Shut in	14 2	0_15 at_1	2:30 PM	(AM) (PM)	Taken		20	at	(AM) (PM)	
Well on Line	<b>:</b>	Started <u>12/1</u>	15	o_15_at:_1	2:30 PM	(AM) (PM)	Taken		20	at	(AM) (PM)	
		, <del>-</del> -	· · · · · · · · · · · · · · · · · · ·	<u>-</u>	OBSERVE	SURFACE	DATA	_		Duration of Shut-i	24 Hours	
Static / Orifice Dynamic Size Property (inches)		Circle ane: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$ psig psia		Tubing  Wellhead Pressure  (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )  psig psia		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In		F-3 (1-11)				psiğ	50	Paig	рыа	_		
Flow									_	_		
Plate	T	Circle one:	Press	<u>'</u>	FLOW STRE	EAM ATTRI					Flowing	
Coefficcien (F <sub>b</sub> ) (F <sub>c</sub> ) Mcfd		Meter or over Pressure psia	Extension  P <sub>m</sub> x h	Grav Fac	tor Te	emperature Fa		viation Metered Flor factor R F <sub>pv</sub> (Mcfd)		w GOR (Cubic Feet Barrel)	Eluid.	
				1				_	_			
					OW) (DELIVE	·					<b>≈ 0.207</b>	
(P <sub>c</sub> ) <sup>2</sup> =			Choose formula 1 or 2	' P <sub>a</sub> =				+ 14.4 = <u> </u>	; ;	(P <sub>d</sub> ) <sup>2</sup>	-	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	<ol> <li>P<sub>c</sub><sup>2</sup> - P<sub>a</sub><sup>2</sup></li> <li>P<sub>c</sub><sup>2</sup> - P<sub>d</sub><sup>2</sup></li> <li>divided by: P<sub>c</sub><sup>2</sup> - P<sub>d</sub><sup>2</sup></li> </ol>	LOG of formula 1. or 2. and divide by:	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Backpressure Curve Slope = "n" or Assigned Standard Slope		n x 106		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
											·	
				<u> </u>								
Open Flow Mcfd @ 14				.65 psia	•	Deliverability		Mcfd @ 14.65 psia				
	_		n behalf of the			•				rt and that he has	s knowledge of	
				1	Receiv	hav				,		
	_	Witness (it	f any)	KANS	AS CORPORATION	ON COMMISSI	ON		For C	<b>С</b> отра <b>пу</b>		
		ForComm	ission		DEC 21	2015			Chec	cked by		

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request	
exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Foundation Energy Management, LLC	
and that the foregoing pressure information and statements contained on this application form are true and	
correct to the best of my knowledge and belief based upon available production summaries and lease records	
of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.	
I hereby request a one-year exemption from open flow testing for the ZWEYGARDT 21-4	
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 Commissistaff as necessary to corroborate this claim for exemption from testing.	on
Date: 12/17/2015	
Signature: Little O'lbo	
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.