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

Type Tes	t:				(	See Instruct	tions on Rev	erse Side	<del>;</del> )					
Open Flow Test Date						a•			ΔDI	No. 15				
De	liverat	oilty			TEST DATE					023-20870-0	10-00			
Company FOUNDATION ENERGY MANAGEMENT, LLC								Lease ZWEYGARDT			Well Number 33-34			
					Section 34			TWP 3S		RNG (E/W) 41W		Acres Attributed		
Field Reservoir CHERRY CREEK NIOBRA							Gas Gathering Conne SOUTHERN STAR							
Completion Date Plug Bac 2/7/2008 1447'					k Total Dept	th		Packer S	Set at					
Casing S 7", 41/2"	ize		Weigh 17#,	it 10.5#	Internal Diameter 9-7/8",61/4"		Set at 176', 1490'		Perforations 1330'		To 1370'			
Tubing S 2-3/8""	ize		Weigh <b>4.7</b> #	t	Internal Diameter 1.995"		Set at 1385'		Perforations		То			
Type Completion (Describe) SINGLE (GAS)						d Production	n			nit or Traveling	Plunger? Yes	/ No	· · · -	
					% C	% Carbon Dioxide			% Nitrogen		Gas Gra	Gas Gravity - G <sub>g</sub>		
Vertical D		<del> </del> )				Pres	sure Taps				(Meter F	Run) (Pi	rover) Size	
Pressure	Buildu	ıp:	Shut in 3/1	0 20	14 at 3	:00 PM	(AM) (PM)	Taken		20	at	(	AM) (PM)	
Well on L	.ine:		Started 3/1	1 20	14 at 3	:15 PM	(AM) (PM)	Taken		20	at	(	AM) (PM)	
						OBSERVE	D SURFACE	DATA	,		Duration of Shut-i	<sub>n</sub> _24.	25 Hours	
Static / Dynamic Property	Dynamic Size		Circle one:  Meter  Prover Pressu  psig (Pm)	Pressure Differential Inches H <sub>2</sub> 0	Flowing Well Head Temperature Temperatur		(P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia		Duration (Hours)		d Produced Barrels)	
Shut-In	Shut-In		polá (z m)	monos 11 <sub>2</sub> 0	,		psig	psia psia 86		psia	<u> </u>	-		
Flow														
	-				1	FLOW STR	EAM ATTRI	BUTES			i			
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Pro	Circle one: Meter or over Pressure psia	Press Extension ✓ P <sub>m</sub> xh	Gravity Factor F <sub>g</sub>		Temperature		viation Metered Flov actor R F <sub>pv</sub> (Mcfd)		v GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
			<b>(D.</b> )3		•	. ,	ERABILITY)					= 0.2	07	
(P <sub>c</sub> ) <sup>2</sup> =	-	<u>-</u> :	(P <sub>w</sub> )* =	Choose formula 1 or 2:	P <sub>d</sub> = :			- 14.4) +		: :	(P <sub>d</sub> )²		<del></del> _	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		1. $P_{c}^{2} - P_{c}^{2}$ 2. $P_{c}^{2} - P_{d}^{2}$ divided by: $P_{c}^{2} - P_{w}^{2}$	LOG of formula 1, or 2. and divide   p 2 p		Backpressure Curve Slope = "n" 0r Assigned Standard Stope		n x 106		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
O Fl	pen Flow Mcfd @ 14.65 psia					Deliverability		Matel @ 14 RE poio						
Open Flor				·····				•			Mcfd @ 14.65 psia			
		_	-	n behalf of the l		=				**	rt and that he has		ledge of 20 14 .	
							Receiv AS CORPORATIO	ed						
			Witness (i	any)						For C	ompany			
			For Comm	ission			SEP 15	<u> 2014</u>		Chec	kad 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 33-34
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
<u></u>
I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.
Date: 9/11/2014
Signature:   Signature:   Signature:   OPERATIONS ASSISTANT  CONSERVATION DIVISION WICHITA, KS

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.