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

Type Tes	t: pen:Flo	w	OHL	r Ojivi O		'See Instruct	tions on Reve		•	N- 45	1 1231		
De	liverat	oilty			Test Date	9:				No. 15 023-20778-0	00-00		
Company		N EN	NERGY MA	NAGEMENT,	LLC		Lease ZWEYG/	ARDT			14-32	Well Number	
County CHEYE	NNE		Locat SWSW		Section 32		TWP 3S		RNG (E/ 41W	W)	,	Acres Attributed	
Field CHERR	Y CR	EEK			Reservoi NIOBR/	ARA				hering Conne {ERN STAR	ection KINDER MOR	GAN	
10/2/200	)7	te			1518'	k Total Dept			Packer S				
Casing Size 7", 41/2"			Weight 17#, 9.5#		Internal Diameter 9-7/8",61/4"		Set at 279', 1561' Set at		Perforations 1420'		то 1460'		
Tubing Size 2-3/8""			Weigh 4.7#	Weight 4.7#		Internal Diameter 1.995"		•	Perfo	rations	To		
Type Completion (Describe) SINGLE (GAS)					d Production VATER	າ	YES		nit or Traveling	Plunger? Yes / No			
Producing Thru (Annulus / Tubing) TUBING				% Carbon Dioxide				% Nitrog	en	Gas Gra	Gas Gravity - G <sub>g</sub>		
Vertical D	Pepth(l	<del>1</del> )	<del></del>			Pres	sure Taps				(Meter F	Run) (Prover) Size	
Pressure	Buildu	ıp:	Shut in 1/1	5 2	0_14_at_2	:00 PM	(AM) (PM)	Taken		20	at	(AM) (PM)	
Well on L	.ine:		Started, 1/1	62	0 14 at 2	•OO DN/I					at		
						OBSERVE	D SURFACE	DATA			Duration of Shut-i	n_24 Hours	
Static / Orifice Dynamic Size Property (inches)		e	Circle one: Meter Prover Presst psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	.Well Head Temperature t	Wellhead P (P <sub>w</sub> ) or (P <sub>1</sub> )	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>I</sub> ) or (P <sub>c</sub> )		Tubing ad Pressure (P <sub>1</sub> ) or (P <sub>0</sub> )	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In			pog (i iii)	menes rigo			psig	psia 86	psig	psia			
Flow													
				<del></del>	<del></del>	FLOW STR	EAM ATTRI	BUTES	· I				
Plate Coeffiectent (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Pro	Circle one: Meter or over Pressure psia	Press Extension	Gravity Factor F <sub>g</sub>		Temperature Fa		viation Metered Flow actor R F <sub>pv</sub> (Mofd)		(Cubic Fer Barrel)	Flowing Fluid Gravity G	
		!	<del> </del>					<u> </u>		<del></del>			
(P <sub>c</sub> ) <sup>2</sup> =			(P )2=	:	-		ERABILITY) % (P		ATIONS 14.4 =		(P <sub>a</sub> )² (P <sub>d</sub> )²	= 0.207	
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>g</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		Choose formula 1 or 2.  1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	e formula 1 or 2:  P2-P2 I LOG of formula P2-P2 I 1. or 2. and divide		Backpressure Curve Slope = "n" or Assigned Standard Slope		, ux log		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
		İ											
Open Flow Mcfd @ 14.6						Deliverabil			 Mc!d €				
The i	unders	igned	i authority, or	n behalf of the	Company, s	states that h	e is duly aut	norized to	make th	e above repo	rt and that he ha	s knowledge of	
		-		ald report is true		t. Executed	this the 11			•		, 20 <u>14</u>	
					KAN		eived Ation Comm <u>iss</u>	ION					
			Witness (i			SEP 1	5 2014_			-	ompany		
			For Comm	ission			<del></del>			Chec	ked 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 14-32 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 Commissi staff as necessary to corroborate this claim for exemption from testing.	ρη
Date: 9/11/2014  Received KANSAS CORPORATION COMMISSION SEP 15 2014 CONSERVATION DIVISION WICHITA, KS  Signature: OPERATIONS ASSISTANT  Title: OPERATIONS ASSISTANT	

## 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.