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

Type Test	t:				(See Instructions on Reverse Side)									
Open Flow				Test Date	Test Date: API No. 15 -023						3-20518-00-00			
De	eliverat	oilty												
Company Found	•	Ene	ergy Mana	gement, LL(	2	Lease ZWEYGARDT						Well Number 11-5		
County Location Cheyenne NWNW			Section	5	TWP 4S		RNG (E/W) 41W		Acres Attributed					
Field	<u>c</u>		144414		Reservoi			<u> </u>		thering Conn	ection			
CHERF			K		NIOBR						nder Morgan			
Completic 10/25/2		te			Plug Bac 1552'	k Total Dep	th		Packer :	Set at				
Casing Size			Weigh		Internal [		Set at		Perforations		то 1460'			
7", 4 ½" Tubing Size			T / Weigh	7# 10.5#		9 7/8, 61/4" Internal Diameter		312', 1597' Set at		1422'	To			
2 3/8" 4.7#			-	.995	1494		, onoradono							
Type Completion (Describe) SINGLE				• •	d Productio	n	Pump Unit or Trave			ing Plunger? Yes / No YES				
		(Anı	nulus / Tubin	g)		% Carbon Dioxide				% Nitrogen Gas Gravi				
TUBING							<b>T</b>		-		/5.4 - 4	D \ /D	) O:	
Vertical D	Jeptn()	1)				Pres	sure Taps				(Meter	Hun) (Pi	rover) Size	
Pressure	Buildu	ıp:	Shut in	6/3 2	0_14_at_9	9:00 AM	(AM) (PM)	Taken		20	at	(	AM) (PM)	
Well on Line: Started			o <u>14</u> at <u>9</u>	9:00 AM	(AM) (PM) Taken		20 _		at (AM) (PM)		AM) (PM)			
							D SURFAC				Duration of Shut-		4. Hours	
Static / Orific		ico I I		Pressure	Flowing	Well Head	Casing		Tubing				-	
		e	Meter Prover Pressi	Differential ure in	Temperature	Temperature	Wellhead Pressure (P <sub>w</sub> ) or (P <sub>s</sub> ) or (P <sub>s</sub> )		Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)		Liquid Produced (Barrels)	
Property	(inch	esj	psig (Pm)	Inches H <sub>2</sub> 0	,	t	psig	psia	psig	psia		╀		
Shut-in			<u> </u>			<u> </u>	80		ļ			<u> </u>		
Flow	<u> </u>		<u> </u>				<u> </u>					<u> </u>		
				•		FLOW ST	REAM ATTR	IBUTES	<u>.</u>				·	
Plate		Circle one: Meter or		Press	Grav		Flowing	Dev	iation Metered Flow		v GOR	,	Flowing Fluid	
Coeffied (F <sub>b</sub> ) (F	,)	Prover Pressure		Extension  P <sub>m</sub> x h	Faci F <sub>s</sub>	tor	Factor		Factor R F <sub>pv</sub> (Mcfd)		(Cubic Feet/ Barrel)		Gravity	
Mefd			psia	- m		'	F <sub>n</sub>			,,,,,			G <sub>m</sub>	
	[			[	(ODEN EL	OND (DEL IV	IEDADII ITV		ATIONS					
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> =	::	P <sub>d</sub> =	, ,	'ERABILITY % (F	) CALCUL 2 - 14.4) +		:	(P <sub>a</sub> ) (P <sub>d</sub> )	2 = 0.2 2 =	07 	
$(P_a)^2 - (P_a)^2$ or $(P_a)^2 - (P_a)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		Choose formula 1 or 2.	LOG of	$\overline{\Gamma}$	Backpressure Curve		[ [			Open Flow		
		ζ,	درس) - ا	2. P <sub>2</sub> - P <sub>3</sub>	formula 1. or 2.	1	Slope = "n"		. n x LOG		Antilog	Deliverability Equals R x Antilog		
				divided by: P.2 - P.	and divide by:	P <sub>c</sub> <sup>2</sup> -P <sub>g</sub> <sup>2</sup>		ard Slope				(Mcfd)		
							<u> </u>			··				
<u></u>						_	_			,		<u> </u>		
Open Flow Mcfd @ 14.6					65 psia	5 psia Deliverability				Mcfd @ 14.65 psia				
The u	unders	igned	d authority, o	n behalf of the	Company, s	states that h	ne is duly au		o make ti	•	rt and that he ha	s know	ledge of	
the facts st	tated t	herei	n, and that sa	aid report is true	and correc		Receive		day of	SEP	TEMBER	,	20	
			1-2			Kansas 	CORPORATIO	N COMMISSI	ON					
			Witness (i	rany)			EP 15	2014		Ford	Сотралу			
_			For Comm	nission		CON	SERVATION D WICHITA, K	DIVISION		Chec	cked by			

exempt status under Rule K.A.R. 82 and that the foregoing pressure in correct to the best of my knowledge of equipment installation and/or upon	ury under the laws of the state of Kansas that I am authorized to request 3-3-304 on behalf of the operator Foundation Energy Management, LLC formation and statements contained on this application form are true and belief based upon available production summaries and lease record on type of completion or upon use being made of the gas well herein named emption from open flow testing for the ZWEYGARDT 11-5 reli:	_ d is
is a source of noise on vacuum at is not capable of the light of the l	thane producer  nger lift due to water  atural gas for injection into an oil reservoir undergoing ER  the present time; KCC approval Docket No  f producing at a daily rate in excess of 250 mcf/D  best of my ability any and all supporting documents deemed by Commiss his claim for exemption from testing.	sion
Date:		
Received KANSAS CORPORATION COMMISSION SEP 1 5 2014 CONSERVATION DIVISION WICHITA, KS	Signature:	·

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.