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

_	t: en Flo liverab					Test Date		structi	ions on Rev	verse Side	•	<sub>No. 15</sub> 023-	21133-	00-00		
		літу													141 14 84	<del></del>
Company Foundation Energy Management, LLC						Lease ZWEYGARDT								Well Nu 43-3		
County Location				Section			TWP		RNG (E/				Acres A	Attributed		
CHEYENNE NESE				32			38		41							
Field CHERRY CREEK					Reservoir NIOBRARA					Gas Gathering Connection Kinder Morgan/South			star			
Completic 11/7/20		te				Plug Bac 1482'	k Total	Depti	ī. —		Packer S	et at				
Casing Size Weight 7", 4 1/2" 17.6#			44.04	Internal Diameter			Set at		Perfo		то 1396'					
7", 4 ½" 1 Tubing Size Weig				11.6#	6.538, 4.000 Internal Diameter			250', 1562' Set at		1356' Perforations			To		<del></del>	
2 3/8"	· ·			.7#	1.995			1414'		1 6110		10				
Туре Соп	npletio	n (D	escribe)	_		Type Flui	d Produ				Pump Un	it or Traveling	Plunger?		/ No	
SINGLE				SALTWATER					ROD PUMP					iP		
7	-	(Anı	nulus / Tubin	g)		% C	arbon [	Dioxic	de		% Nitrog	en		Gas G	avity - 0	à <sub>g</sub>
ANNUL		•										_				
Vertical D	epth(F	1)					ı	Press	ure Taps					(Meter	Run) (Pi	rover) Size
Pressure	Buildu	ıp:	Shut in	1	0/8 2	0_14_at_9	9:00 A	M	(AM) (PM)	Taken		20	at_	<b>-</b> -	(	————— AM) (PM)
Well on Li	ine:		Started	1	0/92	14 at 9	9:00 A	<u>M</u>	(AM) (PM)	Taken		20	at _		(	AM) (PM)
							OBSE	RVE	SURFACE	E DATA		_	Duration	of Shut-	in2	24 Hours
Static / Orifice Dynamic Size Property (inches			Circle one: Meter		Pressure Differential	Flowing	Well He		Casing Wellhead Pressure		Tubing Wellhead Pressure		Dura	Duration (Hours)		d Produced
			Prover Press	ure	in	Temperature   t	Temperature t		(P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )			(P <sub>L</sub> ) or (P <sub>E</sub> )				Barrels)
	<b>,</b>		psig (Pm)		Inches H <sub>2</sub> 0		<u> </u>		psig	psla	psig	psia				
Shut-In									75							
Flow																ľ
'							FLOW	STRI	EAM ATTR	IBUTES	<u>'</u>				1	
Plate			Circle one:	Т	Press	Grav	rity e		Flowing	Bout	iation	Metered Flow		GOR		Flowing
Coeffiecient		Den	Meter or Prover Pressure psia		Extension	Fact	or	Te	emperature Fa		ctor	R		(Cubic Fee		Fluid
		1 10			√ P <sub>m</sub> x h	F.	'				F <sub>pv</sub> (Mcfd)		Barrel)			Gravity G <sub>m</sub>
_	_			<del>                                     </del>						1						
			· <del>-</del>			(2221)							l			
D 13		_	/D. \2		_	•	OW) (DE		RABILITY)						<sup>2</sup> = 0.2	07
P <sub>c</sub> ) <sup>2</sup> =		<u>-:</u>	(P <sub>w</sub> )² =		ose formula 1 or 2:	P <sub>d</sub> =		<u>_</u> "	, (P	<sub>c</sub> - 14.4) +	14.4 =	=:	<del></del>	(P <sub>d</sub> )	' =	
(P <sub>c</sub> ) <sup>2</sup> - (F	)²	(P	)2-(P <sub>w</sub> )2		1. P <sub>c</sub> <sup>2</sup> -P <sub>s</sub> <sup>2</sup>	LOG of				ssure Curve e = "n"		[				en Flow
or (P <sub>c</sub> )2- (P	, 12			:	2. P <sub>a</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup>	formula 1. or 2.				or	. nxL	.06	Antil	log		verability R x Antilog
· 61 (*	d <sup>7</sup>			divid	led by: $P_c^2 - P_w^2$	and divide by:	P.2- P.			ard Slope					(	(Mcfd)
	}		1									_				
						1										
Open Flov	<u> </u>			_	 Mcfd @ 14.0	 65 psia			Deliverab	ility	l		Mcfd @ 1	4.65 ps	ia,	
Thou	ındərə	ianaa	l authority o	n h			tates th	at ha	is duly an	thorized b	n maka th	e above repo				ledge of
		-	-						•	12		•	rt and tha /EMBEI		WUIIA CL	14
ne facts st	ated th	nerei	n, and that s	aid	report is true	and correct	t. Execu	uted t	this the		day of			· · · · · · · · · · · · · · · · · · ·	, 2	20
															₽.	eceived
			Witness (	if any	<i>n</i>			_	_			For C	ompany	KÄNSA	S CORPO	DRATION COMM
			para	-7		<del></del>		_	_				had bee		MA11	<del>- ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( </del>
			For Comm	แชรเต	111							Cnec	ked by		IVU V	1 4 2014

exempts and that correct t of equip	clare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator Foundation Energy Management, LLC the foregoing pressure information and statements contained on this application form are true and to the best of my knowledge and belief based upon available production summaries and lease records ment installation and/or upon type of completion or upon use being made of the gas well herein named. The reby request a one-year exemption from open flow testing for the ZWEYGARDT 43-32B on the grounds that said well:
1 fur	(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  ther 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.  11/12/2014
	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 Received signed and dated on the front side as though it was a verified report of annual test results ans a corporation COMMISSION