KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				(See Instruc	tions on Rev	verse Side))				
= :	en Flo liverab				Test Date) :				No. 15 023 - 20968-0	0-00		
Company FOUNDATION ENERGY MANAGEMENT					LLC		Lease ZWEYG	Lease ZWEYGARDT			Well Number 21-4		
County CHEYENNE		Locati SW-SV	ion V-NE-NW	Section 4		TWP 4S			RNG (E/W) 41W		Acres Attributed		
Field CHERR	Y CRE	EEK			Reservoir NIOBRA			,		nering Conne IERN STAR/	ction. KINDER MORG	SAN	
Completic 5/28/200		е			Plug Baq 1594'	k Total Dep	th		Packer S	et at			
Casing Size 7", 41/2"		Weigh 17#,	nt 10.5#	Internal [6.538",	Diameter 4.052"		Set at 246', 1636'		rations 2'	To 1400'			
Tubing Size 2-3/8""		Weigh 4.7#	nt ,	Internal Diameter 1.995"			Set at 1413'		rations	То			
Type Con SINGLE			escribe)	ı		d Productio	n			it or Traveling ROD PUMF		' No	
Producing ANNUL		(Anı	nulus / Tubin	g)	% C	arbon Diox	ebi		% Nitrog	en	Gas Gra	vity - G _o	
Vertical D	epth(H	()			•	Pres	ssure Taps				(Meter F	un) (Prover) Size
Pressure	Buildu	•	Shut in 12/	14 2	15 at 1	2:30 PM	(AM) (PM)	Taken		<u>-</u>	at	(AM)	(PM)
Well on L	ine:		Started 12/	15 g	o <u>15</u> at <u>1</u>	2:30 PM	(AM).(PM)	Taken		20	at	(AM)	(PM)
		-	,			OBSERVI	ED SURFACE	E DATA_			Duration of Shut-i	24	_Hours
Static / Dynamic Property	Orifi Siz (inch	e	Circle one: Meter Prover Pressi psig (Pm)	Pressure Differential ure in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	Wellhead (P _w) or (P	Pressure	Wellhe	ubing ad Pressure (P ₁) or (P _c)	Duration (Hours)	Liquid Prod (Barrel	
Shut-In							porg	50	poig	paid			
Flow													
			Circle one:		<u> </u>	FLOW ST	REAM ATTR	IBUTES	I			<u> </u>	
Plate Coeffied (F _b) (F Mcfd	ient ()	Pro	Meter or over Pressure psia	Press Extension ✓ P _m xh	Grav	tor	Flowing Temperature Factor	Fa	viation actor . F _{pv}	Metered Flow R (Mcfd)		Cubic Feet/ Fluid	
			<u>-</u>				1						
					•		VERABILITY					= 0.207	•
(P _c)² ≃		_: _	(P _w)² =	Choose formula 1 or 2	P _d =			° _c - 14.4) +		:	(P _d) ²	=	=
(P _c) ² - (F or (P _c) ² - (F	•	(F	P _o) ² - (P _w) ²	1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w$	LOG of formula 1, or 2. and divide	P _c ² -P _w ²	Slop	ssure Curve be = "n" cor signed ard Slope	l n v i	roe []	Antilog	Open F Deliveral Equals R x (Mcfc	bility Antilog
				_									
				_	<u> </u>			-					
Open Flo				Mcfd @ 14			Deliverab				Mcfd @ 14.65 psi		
		_	-	n behalf of the aid report is tru						•	rt and that he ha	s knowledg , 20 _1	
14410 0	t		, with that 3	and report to the	•	Re	Ceived		y UI			,,	
			Witness	(if any)		_	_			For C	отралу		
			For Com	nission			2 1 2015			Chec	ked by		

CONSERVATION DIVISION WICHITA, KS

exempt statu and that the correct to the of equipmen	e under penalty of perjury under the laws of the state of Kansas that I am authorized to request as under Rule K.A.R. 82-3-304 on behalf of the operator Foundation Energy Management, LLC foregoing pressure information and statements contained on this application form are true and a best of my knowledge and belief based upon available production summaries and lease records trinstallation and/or upon type of completion or upon use being made of the gas well herein named. request a one-year exemption from open flow testing for the ZWEYGARDT 21-4
gas well on t	he grounds that said well:
l further	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
staff as nece	essary to corroborate this claim for exemption from testing.
Date: <u>12/17.</u>	2015
	Signature: Carlos O'lh
	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.