KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

	en Flo				Test Date	See Instruct	ions on Rev	erse Side		I No. 15			
De	liverab	oilty								-023-20781-0	00-00		
Company FOUNDATION ENERGY MANAGEMENT, LLC				LLC	.C Lease .C ZWEYGARDT			Well Number 23-32			ımber		
County Location CHEYENNE SW-SE			Section 32		TWP 3S		RNG (E/W) 41W		Acres Attributed				
Field CHERRY CREEK			Reservoir NIOBRARA					thering Conn		on NDER MORGAN			
Completion Date 9/21/2007			Plug Bac 1508'	k Total Dept	h	Packer Set at		Set at	· · · · · · · · · · · · · · · · · · ·				
Casing S 7", 41/2"	lize		Weigh 17#, !		Internal Diameter 9-7/8",61/4"		Set at 295', 1552'		Perforations 1392'		то 1462'		
Tubing Size 2-3/8""			Weigh 4.7#		Internal Diameter 1.995"		Set at 1356'		Perforations		То		
Type Completion (Describe) SINGLE (GAS)					d Production			Pump Unit or Traveling YES		Plunger? Yes / No			
Producing Thru (Annulus / Tubing) TUBING			% C	arbon Dioxid	de	e %:		gen	Gas Gravity - G _g				
Vertical D		1)				Press	sure Taps				(Meter F	Run) (P	rover) Size
Pressure	Buildu	p:	Shut in 2/2	5 2	0 14 at 8	:00 AM	(AM) (PM)	Taken		20	at		(AM) (PM)
Pressure Buildup: Shut in 2/25 20 14 at 8:00 AM (AM) (PM) Taken 20 at													
						OBSERVE	D SURFACE	DATA			Duration of Shut-		75 Hours
Static / Orific Dynamic Size Property (inche		e	Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature t		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Tubing Wellhead Pressure (P_w) or (P_t) or (P_a)		Duration. Liquid Prod (Hours) (Barrels		
Shut-In			, = , ,					61	paig	psia			-
Flow													
	- 1				1	FLOW STR	EAM ATTRI	BUTES		ı			
Plate Coeffictient (F _b) (F _p) Mcfd		¿ Circle one: Meter or Prover Pressure psia		Press Extension √ P _m x h	Gravity Factor F _g		Temperature Fa		viation Metered Flow actor R F _{pv} (Mcfd)		w GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _a
					1								
•					•	OW) (DELIVI	ERABILITY)	CALCUL	ATIONS	 		= 0.2	07
$(P_c)^2 = $		_:_		Choose formula 1 or 2.			6 (P,	- 14.4) +	14.4 =	 ;	(P _d) ²	=	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ² 1.		1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_d^2$	LOG of formula 1. or 2. and divide D 2. D 2		Backpressure Curve Slope = "n"		a x LOG		Open Flow Deliverabilit Equals R x An (Mcfd)		iverability ਸ x Antilog
		_											
							•						
Open Flor	w	Mcfd @ 14.65 psia					Deliverabi	ity	Mcfd @ 14.65 psia				
		-	-	n behalf of the		t. Executed	٠	arl	day of _S	ne above repo	rt and that he has		ledge of 20 <u>14</u> .
			Witness (i	any)		§	SEP 15	2014		For C	Company		
			For Comm	ission		CON	SERVATION I	DIVISION		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 23-32 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 Commission staff as necessary to corroborate this claim for exemption from testing.
Date: 9/11/2014
Received Signature: Wall Valle. 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.