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

Type Test	t:				(	See Instruc	tions on Rev	erse Side	<del>?</del> )					
Open Flow				Test Date	<b>:</b> :			IGA	No. 15					
De	liverat	oilty							15-	023-20842-0	00-00			
Company FOUNDATION ENERGY MANAGEMENT, LLC							Lease ZWEYGARDT			Well Number 14-31				
County Location CHEYENNE SWSW				Section 31		TWP 3S		RNG (E/W) 41W		Acres Attributed				
Field CHERRY CREEK				Reservoir NIOBRARA				Gas Gathering Conn SOUTHERN STAR		ection VKINDER MORGAN				
Completion Date 6/18/2008					Plug Back Total Depth 1700'		th		Packer Set at					
			Weigi 17#,	 nt 11.6#	Diameter 31/4"	r Set at 322', 1743'		Perforations 1510'		To 1 <b>548'</b>				
Tubing Size Weig			Weigi 4.7#	ht Internal I		Diameter Set at 1566'			Perforations		То			
Type Completion (Describe) SINGLE (GAS)					d Productio	n	Pump Unit or Trave YES		nit or Traveling	ng Plunger? Yes / No				
Producing Thru (Annulus / Tubing) TUBING					% C	arbon Dioxi	ide		% Nitrogen		Gas Gravity - G <sub>o</sub>			
Vertical Depth(H) Pressure Taps (Meter Run) (Prover) Size														
Pressure	Buildu	ıp:	Shut in 1/1	62	0_14_at_1	1:00 AM	(AM) (PM)	Taken		20	at		(AM) (PM)	
Pressure Buildup:       Shut in									(AM) (PM)					
	•					OBSERVE	D SURFACE	DATA			Duration of Shut-	n_24	Hours	
Static / Orifice Dynamic Size Property (inches)		e	Circle one: Meter Prover Press		Flowing Well Head Temperature t t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>o</sub> )		Ouration (Hours)	1 '	Liquid Produced (Barrels)	
Shut-In			psig (Pm)	Inches H <sub>2</sub> 0			psig psia 140		psig psia					
Flow														
				1		FLOW STF	REAM ATTRI	BUTES						
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Pro	Circle one: Meter of over Pressure psia	Press Extension ✓ P <sub>m</sub> x h	Gravity Factor F <sub>g</sub>		emperature Fac		viation Metered Flow actor R F, (Mcfd)		y GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
				;										
					(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS		(P.)2	= 0.2	07	
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> =	:	P <sub>d</sub> =	· · · · · · · · · · · · · · · · · · ·	% (P	<sub>c</sub> - 14.4) +	14.4 =	<del>:</del>		=		
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>a</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: $P_c^2 - P_d^2$	LOG of formula 1, or 2. and divide	P. 2. P. 2	Backpressure Curve Slope = "n"  Assigned Standard Slope				Antilog	Del Equals	Open Flow Deliverability Equals R x Antilog (Mcfd)	
				unided by: Te Tw	-,-	<u> </u>								
Open Flow Mcfd @ 14.65 psia						Deliverability Mo				Mcfd @ 14.65 psi	ofd @ 14.65 psia			
		-	•				•			•	rt and that he ha		<u>.</u>	
me tacts st	iated ti	nerei	n, and that s	aid report is true		Rece	ived		day of <u> </u>			,	20 <u>. ' '</u> .	
	<u>.</u>		Witness (	f any)	KANS		гюн сомміз <u>зі</u> 5 2014 <u> —</u>	UN		For C	отралу			
			For Comm	nission		-JEF!	J 4017 _			Chec	ked by			

exempt status under Rule K.A.R. 82-3 and that the foregoing pressure info correct to the best of my knowledge a of equipment installation and/or upon	ry under the laws of the state of Kansas that I am authorized to request 3-304 on behalf of the operator Foundation Energy Management, LLC rmation and statements contained on this application form are true and and belief based upon available production summaries and lease records type of completion or upon use being made of the gas well herein named. Input on from open flow testing for the ZWEYGARDT 14-31
is a source of nature is on vacuum at the source of parts.	ger lift due to water  ural gas for injection into an oil reservoir undergoing ER  ue present time; KCC approval Docket No  producing at a daily rate in excess of 250 mcf/D  est of my ability any and all supporting documents deemed by Commission
Received  KANSAS CORPORATION COMMISSION  SEP 15 2014  CONSERVATION DIVISION  WICHITA, KS	Signature: Myll Mathur  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.