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

Type Test	:			1	(See Instructions on Reverse Side)								
Open Flow Deliverabilty				Test Date	):	API No. 15 15-023-20547-00-0				20.00			
Company FOUNDATION ENERGY MANAGEMENT					LLC		Lease ZWEYGARDT			UZ3-ZU347-(	Well Number 31-05		
County Location CHEYENNE NWNE				Section 5		TWP 4S		RNG (E/W) 41W		Acres Attributed			
Field CHERRY CREEK				Reservoir NIOBRARA				Gas Gathering Co SOUTHERN ST		nection R/KINDER MORGAN			
Completion Date 5/22/2004					Plug Back Total Depth 1556'		h		Packer Set at				
Casing Size 7", 41/2"			Weigh 17#,	it 10.5#	Internal Diameter 6.538",4.052"		Set at 270', 1598'		Perforations 1410'		то 1446'		
Tubing Size 2-3/8""			Weigh 4.7#	it	Internal Diameter 1.995"		Set at 1475'		Perforations		То		
Type Completion (Describe) SINGLE (GAS)					d Production VATER	1	Pump Unit or Trav YES, ROD P			MP			
Producing Thru (Annulus / Tubing) ANNULUS				% C	arbon Dioxid	de	% Nitrogen		en	Gas Gravity - G <sub>g</sub>			
Vertical D	epth(H	)		-	- "	Press	sure Taps				(Meter F	Run) (Prover) Size	
Pressure	Buildu		Shut in 3/2	3 2	15 at 7	MA 00:	(AM) (PM)	aken		20	at	(AM) (PM)	
Well on L	ine:		Started 3/2	4 2	0 <u>15</u> at <u>7</u>	:30 AM	(AM) (PM)	Taken		20	at	(AM) (PM)	
						OBSERVE	D SURFACE	DATA			Duration of Shut-	in 24.50 Hours	
Static / Orific Dynamic Size Property (inche		9	Circle one: Meter Prover Pressi psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Well Head Temperature t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> ) psig psia		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In								55	psig	psia			
Flow				<u> </u>		•				_			
				1		FLOW STR	EAM ATTRIE	BUTES				<del></del>	
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P <sub>m</sub> xh	Grav Fac .F	tor T	Flowing Temperature Factor Fi		viation actor = pv	Metered Flow R (Mcfd)	w GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G_m	
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> =	:	(OPEN FL		ERABILITY) % (P.	CALCUL - 14.4) +		:	(P <sub>a</sub> ) <sup>*</sup>	² = 0.207	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>o</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		Choose formula 1 or 2  1. P <sub>c</sub> <sup>2</sup> - P <sub>s</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub>	LOG of formula 1. or 2.		Backpressure Curw Slope = "n" Assigned Standard Slope		e n v l OG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
				_							-		
Open Flow			Mcfd @ 14.65 psia				Deliverability		Mcfd @ 14.65 psia				
<del></del>		gned	d authority, o		-	states that h		-	o make th	•	ort and that he ha		
the facts s	tated th	ierei	n, and that s	aid report is tru	e and correc	t. Executed	this the 28		day of D	ECEMBER		, 20 _15	
			Witness (	if any)		KANSAS COF	Received RPORATION COI	MMISSION		For	Company		
			For Comr			JAi	N 0 4 20	16			cked by		
						CONOR	3) (III) (A. I. A. I			2.10			

CONSERVATION DIVISION WICHITA, KS

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator <u>Foundation Energy Management, LLC</u>
and that the foregone correct to the best of equipment instance I hereby reques	oing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named. Set a one-year exemption from open flow testing for theZWEYGARDT 31-05 counds that said well:
_	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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
	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.