KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test					(Seë Instruc	tions on Rev	erse Side) ,				
= '	en Flow iverabil				Test Date) :				No. 15 023 - 20843-0	10-00		
Company			ERGY MAN	AGEMENT.	LLC		Lease ZWEYG	ARDT	10-4	J23-20643-C		Well Number	_
<u> </u>				Section 31	Section		TWP 3S		W)	Acres Attributed		-	
Field Reservoir CHERRY CREEK NIOBRARA							Gas Gathering Con SOUTHERN STA			PIKINDER MORGAN '			
••				Plug Bac 1634'	k Total Dep	oth	. (Packer Set at		To 1510' 18 20 To Flunger? Yes / No		
Casing Size 7", 4½"			Weight 17#, 11.6#		Internal Diameter 6.538", 4.00"			Set at 317', 1678'		rations 2'	To 1510'		5;4;7; 80:
Tubing Size 2-3/8"		Weight 4.7#			Internal I 1.995"			Set at 1413'		rations	То	ECEIVE	<i>U15</i>
					d Productio	in							
<u> </u>					arbon Diox	ide		% Nitrog	en	Gas Gr	avity - G _v 5-	18-21	
vertical D)	-		٠.	Pres	ssure Taps				(Meter	Run) (Prover) Size	_
Pressure	Buildup): {	3/24 Shut in	2	0 15 at 1	1.30 AM	. (AM) (PM)	Taken		20	at	(AM) (PM)	_
Well on Li	ne:	;	Started 3/25								at	(AM) (PM)	
			,			OBSERVE	ED SURFACE	DATA		,	Duration of Shut-	in 24 Hour	rs
Static / Dynamic Property	Orifice Size (inches)		Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature t		Casing. Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Welfhead Pressure (P_w) or (P_t) or (P_c)		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In				1	•		psig	psia 84	psig	_psia ·	· · · · · · · · · · · · · · · · · · ·	 	1
Flow]
					'	FLOW ST	REAM ATTRI	BUTES					_
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Esstamatain		rity Flowing Temperature Factor Factor Fig.		Fa	Deviation Metered Factor R F _{pv} (Mcf		(Cubic Fe Barrel)	Cravity	
		1			<u>:</u>								اِ
P _c) ² =		;	(P _w) ² =	;	(OPEN FLO		/ERABILITY) % (P	CALCUL - 14.4) +		:	(P _a) (P _d)	² = 0.207 ² =	•
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _g) ² - (P _w) ²		1. P _o ² ÷ P _o ² 2. P _o ² - P _d ² wided by: P _o ² - P _o ²	LOG of formula 1. or 2. and divide	LOG of formula 1. or 2. and divide p.2. p.2		Backpressure Curve Slope = "n" 		.og []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	,
						<u> </u>			,	,	:	,	
				,	<u> </u>						<u> </u>		
pen Flov	V			Mcfd @ 14.	65 psia		Deliverabil	ity			Mcfd @ 14.65 ps	ia <u></u>	- ,
			authority, on				-	-	75		rt and that he ha	as knowledge of	, ,
o ruoto St	acou III	J. 511	i, and mai balt	i robott la tide	, and control	Excourse				t.		, 23,	
			Witness (if a	лу)			_			For C	ompany		
			For Commiss	sion						Chec	ked by		_

	der penalty of perjury under the laws of the state of Kansas that I am authorize der Rule K.A.R. 82-3-304 on behalf of the operator <u>Foundation Energy Managen</u>	
	going pressure information and statements contained on this application form	
	st of my knowledge and belief based upon available production summaries and le	
	tallation and/or upon type of completion or upon use being made of the gas well he	
• •	uest a one-year exemption from open flow testing for the ZWEYGARDT 23-31	
	rounds that said well:	KCC Ma
(Check	k one)	MAY 18 20
	is a coalbed methane producer	18 20
	is cycled on plunger lift due to water	RECEIVE
	is a source of natural gas for injection into an oil reservoir undergoing ER	76
	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	
_	ee to supply to the best of my ability any and all supporting documents deemed ry to corroborate this claim for exemption from testing.	by Commission
	Signature: <u>Makele Jantha</u> Title: OPERATIONS ASSISTANT	1 12

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.