Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	t:				ť	See Instruct	tions on Re	everse Side	∍)				
Open Flow					Test Date: API No. 15 -023-21							10	
De	liverabili	у			Test Date) :			API N	No. 15 -UZ3	1-2 13 13-00 - 0	.U	
Company	,						Lease					Well No	umbor
		ner	gy Manag	ement, LL0		R. 2	ZWEYG	ARDT				44-	
County Location				n	Section TWP				RNG (E/V		Acres Attributed		
CHEYE	NNE		S2-SE-	SE		32	5	S	39	W			
PRAIRIE STAR			Reservoir NIOBRARA				Gas Gathering Connection KINDER MORGAN						
Completion Date			Plug Back Total Depth				Packer Se	et at					
6/3/201					1519'								
Casing Size Weight 7", 41/2" 17#, 10.5			10.5#	Internal D	B, 4.052	Set`at 391', 1559'		Perforations 1336'		To 136	1362'		
		Weight			Diameter Set at			Perforations					
2-3/8"			-	.7#		.995	1392'		1 011010	4110113			
Type Con		-			Type Fluid Production SALTWATER				Pump Unit	t or Traveling		s / No DD PUN	MP
			ılus / Tubing)			arbon Dioxi	de		% Nitroge	n		Gravity -	
ANNUL			.									•	g
Vertical D	epth(H)					Press	sure Taps				(Mete	Run) (P	rover) Size
Pressure	Buildup:	SI	hut in	11/3 2	0_14 _{_at} 8	3:30 AM	(AM) (PM)	Taken	- :	20	at		(AM) (PM)
Well on L	ine:	Si	tarted	11/4	0 14 _{. at} 8	3:30 AM	(AM) (PM)	Taken		20	at		(AM) (PM)
							(, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		•				, (,,
-						OBSERVE	D SURFAC	E DATA		•	Duration of Shu	ıt-in	24 Hours
Static /	Orifice	Orifice Size Prover Pres (inches) Circle ond Meter Prover Pres psig (Pn		Pressure	Flowing	Well Head	perature Wellhead Pressure		Tubing Wellhead Pressure (P _w) or (P ₁) or (P ₂)				
Dynamic				Differential In	Temperature	Temperature					(Hours) (Barre		id Produced (Barrels)
Property	(inches			inches H ₂ 0	t	t	psig	psia	psig	psia	` ' k	<u>(CC)</u>	MiCHIL
Shut-In							62				•	DEC	1 1 2014
Flow		1					!						1 1 2017
•		•		•		FLOW STR	EAM ATTE	IBUTES	•		• •	RE	CEIVED
Plate			ircle one;	Press	0		Flowing						Flowing
Coeffictient (F _b) (F _p) Mcfd		Meter or Prover Pressure psia		Extension	Grav Fact	· ¬	Temperature Factor		iation ctor	Metered Flow	GOF (Cubic F		Fluid
				√ P _m xh	F _a	ı			pv	(Mcfd)	Barre	Ŋ	Gravity G _m
 						-		 	-				 " -
				•			-	Į	ŀ				<u> </u>
					(OPEN FL	OW) (DELIV	ERABILITY) CALCUL	ATIONS		(P	$)^2 = 0.2$	207
(P _c) ² =		:	(P _{**}) ² =_	:	P _d =	9	% (I	P _c - 14.4) +	14.4 =	:	(P) ² =	
 (P _c)² - (F) 12	(P.)	²-(P_)² CI	1. $P_c^2 - P_a^2$	LOG of			ssure Curve	•	r 7		0	pen Flow
or	•′.	۱۰ د۱	· •/	2. P.2 - P.2	formula 1, or 2,			pe = "n" - or	- n×LC	og	Antilog	•	liverability s R x Antilog
(P _c)²- (F	° _g)²		dis	ided by: P ₂ - P ₂	and divide	P _c ² -P _w ²		signed lard Slope					(Mcfd)
					 			<u>, </u>				+	
					 :							+-	
Open Flov				Mcfd @ 14.	 65 psia	-	Deliverat		<u> </u>		Mcfd @ 14.65 p	sia	
					<u>, </u>								
	_		-				•	5		•	rt and that he I CEMBER		14
uie (acts Si	ated the	rei n ,	anu mat sak	l report is true	and correc	. Executed	រោន ហម		day of			•	20
						·	_						··
			Witness (if a	ny)			-			For C	Company		
			For Commiss	sion			-			Chec	ked by		
											•		

exempt sta	re under penalty of perjury under the laws of the state of Kansas that I am authorized to request tus under Rule K.A.R. 82-3-304 on behalf of the operator Foundation Energy Management, LLC e foregoing pressure information and statements contained on this application form are true and
of equipme I hereb	the best of my knowledge and belief based upon available production summaries and lease records and intrinstallation and/or upon type of completion or upon use being made of the gas well herein named. y request a one-year exemption from open flow testing for theR. ZWEYGARDT 44-32 the grounds that said well:
l furthe	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 er agree to supply to the best of my ability any and all supporting documents deemed by Commission bessary to corroborate this claim for exemption from testing.
Date:	12/5/2014 KCC WICHITA WEC 1 2014 UEC 1 2014 Signature: 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.