Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	i:		• • • • • • • • • • • • • • • • • • • •		(See Instri	uctions or	n Reve	erse Side	-)					
☐ Open Flow ☐ Deliverability					Test Date:					No. 15	20.00				
Company						12/2/2015			15-023-210 Lease			Well Number			
FOUNDATION ENERGY MANAGEMENT, L								ARDT	DNO (E)		14-3	14-33B Acres Attributed			
County Location CHEYENNE NW-NE-SW-SW				Section 33	38	TWP 3S		RNG (E/W) 41W			Acres Attributed				
Field CHERRY CREEK					Reservoir NIOBRARA				Gas Gathering Connection SOUTHERN STAR/KIND			ER MORGAN			
Completion Date 9/2/2008			Plug Bac 1525'	Plug Back Total Depth 1525'				Packer S	et at						
Casing Size 7", 4½"			Weigh 17#,	Internal [6.538",		Set at 250', 1569'		Perforations 1312'		то 1390'					
Tubing Size 2-3/8""			Weigh 4.7#	t	Internal I 1.995"		Set at 1413'		Perforations		То	То			
Type Completion (Describe) SINGLE (GAS)					Type Fluid Production SALTWATER					it or Traveling		ger? Yes / No			
Producing Thru (Annulus / Tubing) ANNULUS				% C	% Carbon Dioxide				% Nitrogen		Gas Gravity - G _g				
Vertical D		1)				Pr	essure Ta	ps		· -		(Mete	r Run) (F	Prover) Size	
			40/		45 4	1.1E AL	1								
Pressure Bulldup: Shut in				2	1:15 AM (AM) (PI		PM) T	Taken		20	at	at (AM) (PN			
Well on L	ine:		Started 12/	22	0 15 at 1	1.15 AIV	(AM) (PM) T	aken		20	at		(AM) (PM)	
						OBSER	/ED SUR	FACE	DATA			Duration of Sh	ut-in_24	Hours	
Static / Orific			Circle one: Meter	Pressure Differential	Temperature Tempera		Mollhoad Proceuro		-		ubing ad Pressure	Duration		Liquid Produced	
Property (inche			Prover Presso psig (Pm)	in Inches H ₂ 0						(P _w) or (P _t) or (P _c) psig psia		(Hours)		(Barrels)	
Shut-in								;	30			t *			
Flow												-			
	-			<u> </u>	1	FLOW S	TREAM A	TTRIE	BUTES	Т		1			
Plate Coeffiecient			Gircle one: Meter or	Press Extension		Gravity Factor		Temperature F		viation Metered Flow		GOR (Cubic Feet/		Flowing Fluid	
(F _b) (F _p) Mcfd		Pro	<i>ver Pressure</i> psia	✓ P _m xh		* F.		.Factor		F _{pv} (Mcfd)		Barrel)		Gravity G _m	
				.,											
				•	(OPEN FL	OW) (DEL	IVERABI	LITY)	CALCUL	ATIONS		(I	$(a_a)^2 = 0.3$	207	
(P _o) ² =		_:	(P _w) ² =	Chaose formula 1 or 2	P _d =		_%	(P _c	- 14.4) +	- 14.4 =	;	() 	5 ^q) ₅ =		
(P _e) ² - (P _a) ²		(F	P _c) ² - (P _w) ²	1. P _c ² -P _a ²	LOG of formula		Ba	Backpressure Curv Slope = "n"		n x l	_og [Antilog		Open Flow Deliverability	
or (P _c) ² - (P _d) ²				2. $P_c^2 \cdot P_d^2$ divided by: $P_c^2 \cdot P_w^2$	1, or 2, and divide by:	1, or 2.		Assigned Standard Stope		_		Antilog	Equal	Equals R x Antilog (Mcfd)	
							-								
Open Flo	w	Mcfd @ 14.65 psia					Deliv	Deliverability			Mcfd @ 14.65 psia				
The	unders	igne	d authority, o	n behalf of the	Company,	states tha	he is du	ıly aut	horized t	to make th	e above repo	ort and that he	has know	wledge of	
the facts s	tated t	here	in, and that s	aid report is true	e and correc	t. Execut	ed this th	e <u>3</u>		day of D	ECEMBER		,	₂₀ <u>15</u> .	
							Receive								
			Witness (fany)	K	ANSAS COF	PORATION	COMMI	SSION		Fort	Company			
			For Cornr	nission		DE	0 10	2015			Che	cked 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 14-33B 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: \2/7/2015
Signature: Lawn Olh

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.