KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t: en Flov	<i>w</i>	U 112		(See Instr		on Re	verse Side	e)	- IADILII	1 1201		
Deliverability					Test Date:				API No. 15 15-023-21331-00-00					
Company FOUNDATION ENERGY MANAGEMENT,			LLC			ase JEB F					Well Number 44-16B			
County CHEYENNE			Locati W2-SE	on -SE-SE	Section 16			TWP 3S		RNG (E/W) 42W		Acres Attributed		
Field ARMEL						Reservoir NIOBRARA				Gas Gathering Connec KINDER MORGAN				
Completion Date 8/31/2011					Plug Back Total Depth 1661'			Packer		Packer S	let at			
Casing Size 7", 41/2"			Weigh 17#,	Internal Diameter 6.538", 4.052"			Set at 306', 1702'		Perforations 1516'		то 1554'			
Tubing Size 2-3/8"			Weigh 4.7#	Internal Diameter 1.995"			Set at 1582'		Perforations		То			
Type Completion (Describe) SINGLE (GAS)				Type Fluid Production SALTWATER						it or Traveling ROD PUMF		ger? Yes / No		
Producing ANNUL	-	(Ann	ulus / Tubin	3)	% C	arbon Die	oxide			% Nitrog	en	Gas Gı	ravity - (3,
Vertical D	epth(H)				Pr	essure T	Taps				(Meter	Run) (P	rover) Size
Pressure	Buildup		Shut in	10 2	0.15 at 1	2:15 PN	/ <u>/</u> (AM)	(PM)	Taken		20	at		(AM) (PM)
Well on L	ine:	5	Started 12/	11 20	15 at 1	2:15 PN	A					at		
						OBSER	VED SU	RFAC	E DATA			Duration of Shut	_{-in_} 24	Hours
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	I Flowing Well Head Temperature Temperature		ıre (P	") or (P	Pressure	Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration Liq (Hours)		d Produced Barrels)
Shut-In			paig (i iii)	mettes 11 ₂ 0			p:	sig	psia 50	psig	psia			
Flow		i												
	1					FLOW S			IBUTES					l
Plate Coefficcient (F _b) (F _p) Mcfd		,	Circle one: Meter or ver Pressure psia	Press Extension ✓ P _m xħ	Gravity Factor		Temper Fac	emperature Fa		viation Metered Flow actor R F _{pv} (Mcfd)		W GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m
					_									
					(OPEN FL				-				$)^2 = 0.2$	
$\frac{(P_c)^2 = \underline{\qquad \qquad }}{(P_c)^2 \cdot (P_a)^2}$ or $(P_c)^2 \cdot (P_d)^2$.; Chaose formula 1 or 2; 1. P _c ² - P _s ² 2. P _c ² - P _d ²	LOG of formula	P _c ² - P _w ²	E	Backpressure Curve Slope = "n" 		n x l OG		Antilog	Open Flow Deliverability Equals R x Antilog	
. 0			+	divided by: $P_c^2 - P_w^2$	by:			Stand	ard Slope	+-	<u> </u>	-		(Mcfd)
Open Flo	w			Mcfd @ 14.	65 psia		De	liverab	ility			Mcfd @ 14.65_ps	ia	
		_	•		• •			•			•	rt and that he ha		ledge of 20 <u>15</u> .
			Witness (f any)		- KANSAS (Rece	ived TION C	DMMISSION		For	Company		<u>.</u>
			For Comm	ission		Di	EC 2	1 20)15		Che	cked by		

exempt status ur	der penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Foundation Energy Management, LLC
	st of my knowledge and belief based upon available production summaries and lease records
of equipment ins I hereby requ	tallation and/or upon type of completion or upon use being made of the gas well herein named. uest a one-year exemption from open flow testing for theRUEB_FARM 44-16B rounds that said well:
I further agre	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 se to supply to the best of my ability any and all supporting documents deemed by Commission by to corroborate this claim for exemption from testing.
	Signature: Cauth O'M Title: HSE/Regulatory Tech

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.