KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruc	tions on Rev	verse Side	e)					
Op	en Flov	w			Test Date	, .			API	No. 15				
✓ Deliverabilty					November 23, 2012					077-214	74 00	90		
Company M E Klei		ssoc	iates, Inc.				Lease Carothe	rs				V	ell Numb	er
County Location Harper 5/2 5/2 SW			on	Section 20		TWP 33S		RNG (E/W) 6W			Acres Attributed 40			
Field Stohrville	e Exte	nsio	n		Reservoir Mississ i	ppi Chert			Gas Gath Atlas	nering Conn	ection			
			Plug Bac 4,601'	Plug Back Total Depth 4,601'			Packer S							
9		Weigh 10.50		Internal Diameter 3.995"		Set at 4,615'		Perfor	Perforations 4,46		67 To 4,4			
Tubing Size 2 3/8"		Weight 4.7#/ft		Internal Diameter 1.995"		Set at 4,510'		Perforations		-	Го			
Type Con Cased	•	•	,		Type Flui Oil/Wa	d Production	n			it or Traveling ng Unit	Plunger?	Yes /	No	
		(Ann	iulus / Tubing	g)	% C	arbon Dioxi	de		% Nitroge	en	(Gas Gra	vity - G _g	
Annulus Vertical E	_	17				Proc	sure Taps					Mater P	un) (Prove	or) Size
verticar L	zepini(n	1)				ries	sure raps				,	ivietei n	un) (Flove	31) 312 0
Pressure	Buildu	p: \$	Shut in No	v 22 2	0_12_at_7	:00 AM	(AM) (PM)	Taken_N	ov 23	20	12 at _7	:00 AN	1 (AM) (PM)
Well on L	_ine:		Started	2	0 at		(AM) (PM)	Taken		20	at		(AM) (PM)
						OBSERVE	D SURFACE	E DATA			Duration o	of Shut-in	24	Hours
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Pressu	Pressure Differential ure in	Flowing Well Head Temperature		Casing Wellhead Pressure (P_w) or (P_t) or (P_c)		Tubing Wellhead Pressure (P _w) or (P _c)		Ouration (Hours)		Liquid Produced (Barrels)	
Shut-In	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		psig (Pm)	Inches H ₂ 0	<u> </u>		psig 450	psia 464	psig O	psia O	24			
Flow						:	100							
						FLOW STR	REAM ATTR	IBUTES				1		
Plate Coefficient (F _b) (F _p) Mofd			Circle one: Meter or ver Pressure psia	Press Extension √ P _m x h	Grav Fac F _s	tor	Temperature F.		viation Metered actor R F _{pv} (Mod		(Cubic F		v	Flowing Fluid Gravity G _m
				<u> </u>	(OPEN FL	OW) (DELIV	'ERABILITY) CALCUL				(P)2	= 0.207	
(P _c) ² =		_:	(P _w)?=	:	P _d =		% (F	o - 14.4) +	- 14.4 =	:		(P _d) ²		
(P _c) ² - (or (P _c) ² - (g.	(P	_c) ² - (P _w) ²	Choose formula 1 or 2 1. P _c ² - P _a ² 2. P _c ² - P _c ² divided by: P _c ² - P _a ²	LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Slop	ssure Curve be = "n" or signed ard Slope	n x L	og [Antilo	pg [Open Deliver Equals R (Mc	ability x Antilog
								,						
Open Flo				Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd @ 14	1.65 psia		
The	undersi	ianer	l authority. o	n behalf of the		states that h	ne is dulv au	uthorized t	to make th	e above rend	ort and tha	t he has	knowled	ge of
		•	3 .	aid report is true		t. Executed	,	1 6	day of M	•			, 20	
			Witness (if any)			MAY 1	6 2013		For	Company			
	****		For Comm	nission			CONSERVATION			Che	cked by			
							WICHIT							

	lare under penalty of perjury under the laws of the state of Kansas that I am authorized to request tatus under Rule K.A.R. 82-3-304 on behalf of the operator MEKLEIN & ASSOCIATES, INC.
and that correct to of equipm	the foregoing pressure information and statements contained on this application form are true and the best of my knowledge and belief based upon available production summaries and lease records nent installation and/or upon type of completion or upon use being made of the gas well herein named. Beby request a one-year exemption from open flow testing for the Carothers #1-20
	on the grounds that said well:
I furtl	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 her agree to supply to the best of my ability any and all supporting documents deemed by Commission
staff as n	necessary to corroborate this claim for exemption from testing.
Date:	5/13/2013
	Signature: Malckeni Title: PRESIDENT

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 ESENTIAL STATE CORPORATION COMMISSION signed and dated on the front side as though it was a verified report of annual test results.