## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

	bing ber 24 20 ber 25 20  Pressure Differential	Section 5 Reservoir Mississi Plug Bacl 5366 Internal E 4.052 Internal E 1.995 Type Fluir Oil and % C 0.143	ppi k Total Depti Diameter Diameter d Production d Water Carbon Dioxic Press Flang :30 pm :00 pm	Set a 5411 Set a 5314  de sure Taps ge (AM) (PM) (AM) (PM)  D SURFAC	Taken OC Taken OC	RNG (E/V 16W Gas Gath Oneok Packer Se Perford 5293 Perford Pump Uni Pumpir % Nitroge 1.234	ering Connected at	#1 To 5303 To Plunger? Ye Gas 0	320  3 KC( s / No Gravity - ( 44 r Run) (P 11 pm pm	RECE/NOV 0 9  WICH  G,  (AM) (PM)  (AM) (PM)	
Veight 10.5# Weight 4.7# scribe)  Ulus / Tubing) Fluid up Tuite Octo Started Octo  Circle one: Meter	bing ber 24 20 ber 25 20  Pressure Differential	Section 5 Reservoir Mississi Plug Bacl 5366 Internal E 4.052 Internal E 1.995 Type Fluir Oil and % C 0.143	ppi k Total Depti Diameter Diameter d Production d Water Carbon Dioxid Press Flang :30 pm :00 pm	R.McMo TWP 35S  Set a 541 Set a 5314  de  sure Taps ge (AM) (PM) (AM) (PM)	Taken OC Taken OC	RNG (E/V 16W Gas Gath Oneok Packer Se Perfor 5293 Perfor Pump Uni Pumpir % Nitroge 1.234	ering Connect at at ations ations ations tor Traveling Unit at at ations at 20 20	#1  To 5303 To  Plunger? Ye  Gas 0  0.61 (Mete 2.07) 12 at 2:00 12 at 2:30	Acres A 320  3 KCC s / No Gravity - (44 r Run) (P	RECE/NOV 0 9 C WICH Prover) Size (AM) (PM) (AM) (PM)	
Veight 10.5# Weight 4.7# scribe)  Ulus / Tubing) Fluid up Tuite Octo Started Octo  Circle one: Meter	bing ber 24 20 ber 25 20  Pressure Differential	Reservoir Mississi Plug Back 5366 Internal E 4.052 Internal E 1.995 Type Fluir Oil and % C 0.143	ppi k Total Depti Diameter Diameter d Production d Water Carbon Dioxid Press Flang :30 pm :00 pm	R.McMo TWP 35S  Set a 541 Set a 5314  de  sure Taps ge (AM) (PM) (AM) (PM)	Taken OC Taken OC	Gas Gath Oneok Packer Se Perford 5293 Perford Pump Uni Pumpir % Nitroge 1.234	ering Connected at	To 5303 To Plunger? Ye Gas ( 0.61 (Mete 2.07 12 at 2:00 12 at 2:30	Acres A 320  3 KCC s / No Gravity - (44 r Run) (P	RECE/NOV 0 9 C WICH Prover) Size (AM) (PM) (AM) (PM)	
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Circle one:	Pressure	12 at 2	OBSERVE	(AM) (PM)  D SURFAC  Cas	Taken Oo	ctober 2	5 20	12 at 2:30	pm	(AM) (PM)	
Circle one: Meter	Pressure Differential	Flowing	OBSERVE	D SURFAC	E DATA				24		
Meter	Differential	•	Well Head	Cas	ing	Ti	thing	Duration of She	ıt-in 24	Hours	
Meter	Differential	•	1		•	Ti	thing				
neia (Pm)	Inches H <sub>2</sub> 0	Temperature Temperature		(P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	1 '	Liquid Produced (Barrels)	
psig (Pm) 65# PISG				psig 65	79.4	psig 20	99ia 34.4	24	0		
20# meter	4	65	75	20	34.4	20	34.4	24	12		
			FLOW STR	EAM ATTR	IBUTES					<del></del>	
Plate Circle one: Press  Ifficient Meter or Extension  b (Fp)  Mctd Prover Pressure  psia  Prass  Prass  Fxtension  √ Pmxh  Pmxh		Gravity Factor F <sub>g</sub>		Flowing emperature Factor F <sub>ft</sub>	Fac	Deviation Factor F <sub>pv</sub>		y GO (Cubic Barr	Feet/	Flowing Fluid Gravity G <sub>m</sub>	
/P \2 -		,					:			207	
$(P_c)^2 - (P_a)^2$ $(P_c)^2 - (P_w)^2$ Choose formula 1 or 2		LOG of formula		Backpressure Curve Slope = "n"		nxL	og	Antilog	O <sub>l</sub> Del	Open Flow Deliverability Equals R x Antilog	
		and divide	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>							(Mcfd)	
w Mcfd @ 14.65 psia			Deliverability Mcfd @ 14.65 psia								
-											
n, and that sai	d report is true	and correc	ct. Executed	this the 2	5 th	day of O	ctober		,	20 12	
				(	Lusse	Ma					
	any)			-			For	Company		- ***	
	authority, on	2. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup> Mcfd @ 14.0  authority, on behalf of the and that said report is true	$(P_{\rm w})^2 = \qquad : \qquad P_{\rm d} = \\ \begin{array}{c} (P_{\rm w})^2 = \qquad : \qquad P_{\rm d} = \\ \begin{array}{c} (P_{\rm w})^2 = \qquad : \qquad P_{\rm d} = \\ 1. \ P_{\rm c}^2 - P_{\rm a}^2 = \\ 2. \ P_{\rm c}^2 - P_{\rm d}^2 = \\ 0 \end{array} \begin{array}{c} (P_{\rm w})^2 = P_{\rm d}^2 = \\ 1. \ or \ 2. \\ 0 = P_{\rm d}^2 = P_{\rm d}^2 = \\ 0 = P_{\rm d}^2 = P_{\rm d}^$	$(P_{w})^{2} = : P_{d} = ?$ $(P_{w})^{2} = : P_{c} = ?$ $(P_{w})^{2} = : P_{c}^{2} - P_{a}^{2} = : P_{c}^{2} - P_{a}^{2} = : P_{c}^{2} - P_{w}^{2} $	(P <sub>w</sub> ) <sup>2</sup> = : P <sub>d</sub> = % (f  2- (P <sub>w</sub> ) <sup>2</sup>   Choose formula 1 or 2: 1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup>   LOG of formula 2. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup>   1. or 2: and divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>   by:   P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>   Stance  Mcfd @ 14.65 psia   Deliverate  authority, on behalf of the Company, states that he is duly at and that said report is true and correct. Executed this the   2	(P <sub>w</sub> ) <sup>2</sup> = : P <sub>d</sub> = % (P <sub>c</sub> - 14.4) +  2- (P <sub>w</sub> ) <sup>2</sup>   1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup>   LOG of formula 1. or 2. and drivided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>   Deliverability  Mcfd @ 14.65 psia   Deliverability  Multiply (I and that said report is true and correct. Executed this the Standard Slope)	(OPEN FLOW) (DELIVERABILITY) CALCULATIONS $(P_{w})^{2} = P_{d}                                    $	(P <sub>w</sub> ) <sup>2</sup> = : P <sub>d</sub> = % (P <sub>c</sub> - 14.4) + 14.4 = : :  2 - (P <sub>w</sub> ) <sup>2</sup>   Choose formula 1 or 2:	(OPEN FLOW) (DELIVERABILITY) CALCULATIONS  (P <sub>w</sub> ) <sup>2</sup> = : P <sub>d</sub> = % (P <sub>c</sub> - 14.4) + 14.4 = : (P <sub>c</sub>	(P <sub>w</sub> ) <sup>2</sup> = : P <sub>d</sub> = % (P <sub>c</sub> - 14.4) + 14.4 = : (P <sub>d</sub> ) <sup>2</sup> = 0.2  (P <sub>w</sub> ) <sup>2</sup> = 1. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub>   LOG of formula 1 or 2: 1. or 2. 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub>   Log of divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>   P <sub>c</sub> <sup>2</sup> - P <sub>c</sub> <sup>2</sup>   P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>   P <sub>c</sub> <sup>2</sup> - P <sub>c</sub> <sup>2</sup>	

## NOV 0 9 2012

KCC WICHITA
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 Sullivan and Company, L.C., 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 R. Mc Mokan **I 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: Nov. 5, 2012
Signature: Lessella Toreman

## 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.