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

Type Tes	t:					(	(See Instruc	ctions on Re	verse Side	<del>)</del> )					
Open Flow					T4 D-4				• •	IN- 46					
Deliverabilty					Test Date 9/27/14			API No. 15 15-033-21410-00-00							
Company		PER	RATING CO	MPAN	 ′, LLC	;		Lease McMOF	RAN			5	Well No	ımber	
County Location COMANCHE N/2 SW SW				Section 8		TWP 35S		RNG (E/W) 16W		Acres Attributed					
Field YELLOV	vsto	NE	NORTH			Reservoi MISSIS	r SIPPIAN				thering Conn	ection D SERVICES			
Completion Date 12/20/04				Plug Bac 5551	k Total Dep	oth	Packer Set at NONE		Set at						
Casing Size Weight 4,500 10.50					Internal I 4.052	Diameter	Set at 5551		Perforations 5335		то <b>544</b> 6				
Tubing Size Weight				Internal I	Diameter	Set at		Perforations		То	То				
2.375 Type Con	nnletio	n /De	4.70			1.995	d Productio		5446 OPEN Pump Unit or Tra			Plunger? Yes	/ No		
SINGLE		1 (0	3301100)			WATE		11		PUMF		i i iuniger: 165	7 140		
Producing		(Anı	rulus / Tubin	g)		% C	Carbon Diox	ide		% Nitrog	jen	Gas Gr	avity -	G,	
Vertical E	Pepth(F	<del>l</del> )				-	Pres	ssure Taps				(Meter I	Run) (P	rover) Size	
Pressure	Buildu	p: :	Shut in 9/2	6/14	2	20 at		(AM) (PM)	Taken_9/	27/14	20	at		(AM) (PM)	
Well on L	ine:	:	Started		2	0 at		(AM) (PM)	Taken		20	at		(AM) (PM)	
							OBSERVE	D SURFACE	E DATA			Duration of Shut-	in	Hours	
Static / Orific Dynamic Size Property (inches		Meter 9 Prover Pressure		Diffe ure	Differential (Tem		Flowing Well Head		Casing Wellhead Pressure $(P_w)$ or $(P_1)$ or $(P_c)$		Tubing ad Pressure r (P <sub>L</sub> ) or (P <sub>c</sub> )	Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	(IIIOIII	<del>5</del> 5)	psig (Pm)	Inche	s H₂0		ı	psig 90	psia	psig 120	psia	24			
Flow															
				!		1	FLOW STR	REAM ATTR	— IBUTES	1	<u> </u>		.1		
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension  P <sub>m</sub> xh		Grav Fac		Flowing Temperature	emperature Ea		Metered Flo	w GOR (Cubic Fe	et/	Flowing Fluid	
						F,	,	Factor F		pv	(Mcfd)	Barrel)		Gravity G <sub>m</sub>	
(P <sub>c</sub> ) <sup>2</sup> =		_ :	(P <sub>w</sub> ) <sup>2</sup> =	:	:	(OPEN FL	• •	<b>'ERABILITY</b> % (P	) CALCUL '。- 14.4) +		:	(P <sub>a</sub> ) <sup>2</sup> (P <sub>d</sub> ) <sup>2</sup>	2 = 0.2 2 =	07	
		- /0		Chaose forn				Backpres	ssure Curve		<u></u> _			oen Flow	
(P <sub>c</sub> ) <sup>2</sup> - (F or (P <sub>c</sub> ) <sup>2</sup> - (F	`	(٢	( <sub>o</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	1. P <sub>c</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup>	- P <sub>d</sub> <sup>2</sup>	formula 1, or 2. and divide	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>		1e = "n" - or signed	. nx	LOG	Antilog	Del Equals	iverability R x Antilog	
				divided by:	P.2 - P.	2 by:	<u>.</u> *	Standa	ard Stope	+				(Mcfd)	
Open Flo	w			Mcfd	@ 14 <i>.</i>	65 psia		Deliverab	ility	I		Mcfd @ 14.65 psi	a		
The u	undersi	gnec	authority, o	n behalf	of the	Company, s	tates that h	ne is duly au	ıthorized t	o make th	ne above repo	ort and that he ha	s know	ledge of	
the facts s	tated ti	nerei	n, and that s	aid repor	is true	e and correc	t. Executed	this the _27		_	CTOBER		,	20 <u>14</u>	
			1407			KAN949	Receiv	ed _	w	m K	Hal	Doll	<u>_</u> _		
			Witness (	п апу)		_		N COMMISSION	N		— For	Company			
			For Comm	nission		L	EC 3 1	2014			Che	cked by			

CONSERVATION DIVISION WICHITA, KS

exempt status under Rule K.A.R and that the foregoing pressure correct to the best of my knowle of equipment installation and/or	perjury under the laws of the state of Kansas that I am authorized to request .82-3-304 on behalf of the operator WOOLSEY OPERATING CO., LLC information and statements contained on this application form are true and dge and belief based upon available production summaries and lease records upon type of completion or upon use being made of the gas well herein named. exemption from open flow testing for the McMORAN 5
gas well on the grounds that sai	
is cycled on is a source o is on vacuum  ✓ is not capabl	methane producer plunger lift due to water if natural gas for injection into an oil reservoir undergoing ER in at the present time; KCC approval Docket No e of producing at a daily rate in excess of 250 mcf/D the best of my ability any and all supporting documents deemed by Commission te this claim for exemption from testing.
Date: 10/27/14	_
	Signature: Wm & Hallouge Title: FIELD MGR.

## 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.