KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:				((See Instruc	tions on Re	verse Side)					
Op	en Flov	N			T 5 .									
Deliverabilty			Test Date: 6-7-2011				API No. 15 077-20535 - OO - OO							
Company Messen		trole	oum, Inc.				Lease Muir				1-20	Well N	ımber	
County Location Harper NE NE NE			Section 20		TWP 31S			V)		Acres 1	Attributed			
Field Spivey-Grabbs				Reservoi Mississ			Gas Gathering Conr West Wichita Gas							
Completion Date				Plug Bac	k Total Dep	th		Packer Se	et at					
Casing Size Weight 4-1/2 10.50#				Internal (Diameter	Set at 4494		Perforations 4424		To 4434				
Tubing Size 2-3/8		Weight 4.70#	Internal D		· · · · · · · · · · · · · · · · · · ·		ıt .	Perforations		To 4438		······		
Type Completion (Describe) Perf-Fracture				Type Fluid Production Salt Water					t or Traveling	Plunger? Yes				
Producing	g Thru		ulus / Tubing)			Carbon Dioxi	de		% Nitroge			iravity -	G,	
Annulus		`					-				.651			
Vertical E	zeptn(H)				Flan	sure Taps ge				(Meter	Run) (P	rover) Size	
Pressure	Buildup										11 at 11:30		(AM) (PM)	
Well on L	ine:	5	Started 6-9	2	0 11 at 1	1:30 AM	(AM) (PM)	Taken		20	at		(AM) (PM)	
		ı	Circle one:	T		OBSERVE	D SURFAC		_		Duration of Shu	t-in 48	Hours	
Static / Dynamic Property	ynamic Size		Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature t		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Tubing Wellhead Pressure (P _w) or (P _t) or (P _a) psig paus		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In							270	pasa	220	paia	48			
Flow	.375		160	10			160		160		24	3 B	sw	
						FLOW STR	EAM ATTR	IBUTES					, , , , , , , , , , , , , , , , , , , 	
Plate Coeffiecient (F _b) (F _p) Mctd		i	Citate one: Motor or ver Pressure psia	Press Extension	Grav Fac	tor 1	Flowing Femperature Factor F _{rt}	Deviation Factor F _{pv}		Metered Flow Fl (Mcfd)	GOF (Cubic F Barre	eet/	Flowing Fluid Gravity G _m	
										34	34,000:1			
(P _c) ² =		:	(P _±)² =		(OPEN FLO	OW) (DELIV) CALCUL 2 - 14.4) +				$()^2 = 0.2$ $()^2 = $	207	
(P _c) ² - (P _a) ² or (P _q) ² - (P _d) ²		(P _c) ² - (P _w) ²		1. P ² -P ² 2. P ² -P ² ded by: P ² -P ² boose formula 1. or 2. 1. P ² -P ² ded by: P ² -P ² by:		P.2-P.2	Backpressure Curve Stope = "n" or Assigned Standard Stope		n x LG	og [Antilog	O _l Def Equals	Open Flow Deliverability Equals R x Antilog (Mcfd)	
			ļ											
0 5				NAME OF THE	85			1474				<u> </u>		
Open Flor				Mcfd @ 14.			Deliverab				vicfd @ 14.65 p			
			authority, on I					١	make the	· ^	t and that he h		ledge of 20 12 .	
			Witness (if ar	net.			_	· · · · · · · · · · · · · · · · ·		la v	Mass		EGENA	
							_					— AE		
			For Commiss	un						Checi	ked by	A	$\mathbf{x} \mid \mathbf{I} \mid \mathbf{I}$	

exempt status un and that the for correct to the be of equipment ins	der penalty of perjury under the laws of the state of Kansas that I am authorized to request order Rule K.A.R. 82-3-304 on behalf of the operator Messenger Petroleum, Inc. Regoing pressure information and statements contained on this application form are true and st of my knowledge and belief based upon available production summaries and lease records tallation and/or upon type of completion or upon use being made of the gas well herein named. The state of the state of the state of the gas well herein named. Muir 1-20
	prounds that said well:
☐ ✓ I further agr	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 ee 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:

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 foregree signed and dated on the front side as though it was a verified report of annual test results.

APR 1 1 2012