KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:					(See Instruc	tions on Rev	verse Side)				
Open Flow					Total Dark									
Deliverabilty				Test Date: 12-7-11				API No. 15 095-21768						
Company Messeng		etrole	eum, Inc	•				Lease Helm				1	Well Nu	mber
County Kingman		Location NE SE SE			Section 4		TWP 28S		RNG (E/W) 7W		Acres Attribute 240		ttributed	
Field Prather East					Reservoir Mississippi			Gas Gathering Cont OneOk			ection			
				Plug Bac 3961	k Total Dep	th		Packer Set at						
Casing Si 5-1/2	Casing Size 5-1/2					Internal Diameter		Set at 4006		Perforations 3854		то 3862		
Tubing Si 2-3/8	Tubing Size 2-3/8			ht	Internal D		Diameter	Set a	at Perfor 3922		rations To 3925			
• • • • • • • • • • • • • • • • • • • •						pe Fluid Production alt Water				Pump Unit or Traveling Plunger? Yes / No Pumping Unit				
Producing Thru (Annulus / Tubing) % Carbo Annulus .118						Carbon Dlox	ide		% Nitrog 2.943	•		Gas Gravity - G _o .6635		
Vertical Depth(H) 4285						Pres Flan	sure Taps		(Meter Run) (Prover) Size 3"					
Pressure Buildup: Shut in 12-7 20 11 at 3:30										2-8 20 11 at 4:00PM (AM) (PM)				
Well on L	ine:	,	Started 12	-8	20	0 11 at 4	:00PM	(AM) (PM)	Taken		20	at		
							OBSERVE	D SURFAC				Duration of Shut-	<u>in 24.</u>	5 Hours
Static / Dynamic Property	Orifice Size (inches)		Circle one: Meter Prover Pressure paig (Pm)		Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature t t		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Duration (Hours)		d Produced Barrels)
Shut-In	_								para	162		24.5		
Flow	.500)	98		1.5			125		125		24	81 E	3SW
						·	FLOW ST	REAM ATTR	IBUTES		1	,		,
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia			Press Grav Extension Fac Pmxh F		tor Temperature		Deviation Factor F _{pv}		Metered Flor R (McId)	w GOR (Cubic Fe Barrel)	3 0 1/	Flowing Fluid Gravity G _m
						-					18	18,000:1		
						•	. ,	/ERABILITY	•) ² = 0.2	07
(P _c) ² =	1	<u>-</u> :	(P _w) ² :		in towns to a	P _g =		% (F	² _c - 14.4) +	14.4 =	<u> </u>	(P _d)) ² =	
$(P_a)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _o) ² - (P _w) ²		1	1. P ₂ - P ₂ LOG of tormula 1. or 2: 2. P ₂ - P ₃ LOG of tormula 1. or 2. and divide by:		Slop-		ssure Curve pe = "n" - or signed ard Slope	ļ	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
					- c w				· ·		····-			
Open Flor	w				Mcfd @ 14.6	65 psia		Deliverab	oility			Mcfd @ 14.65 ps	ia	
		-	l authority, o					-	1	o make ti	he above repo	ort and that he ha	as know	ledge of 2
								_				J Man	حــــا	RECEIN
			Witness	(il any)					/	For	Sortbany /	7	ADD 1 4
			For Com	missio	n	· · ·		_			Che	cked by		-MIN- i !

	er 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 Messenger Petroleum, Inc
and that the forest correct to the best of equipment install thereby requirements	going pressure information and statements contained on this application form are true and t of my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named. est a one-year exemption from open flow testing for the Helm 1 rounds that said well:
	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 e to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
bate	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 form must be signed and dated on the front side as though it was a verified report of annual test results.

APR 1 1 2012