KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

	: en Flor liverab		•			Test Date	ə :	tions on Reve	erse Side	API	No. 15		
Company	ı					08/27/13		Lease	<u> </u>	15-	033-20688-0		Well Number
WOOLSEY OPERATING COMPANY, LLC County Location				Section		MURDO:	MURDOCK		W)	Acres Attributed			
COMANCHE NE SW SW			34		34S		16W						
Field AETNA					Reservoir MISSIS		Gas Gathering Conn ATLAS PIPELINE		ection				
Completic 5/22/08	on Date	8				Plug Bac 5761	k Total Depi	1		Packer Set at NONE			
Casing Size 4.500			Weight 10.50			Internal Diameter 4.052		Set at 5789		Perforations 5262		то 5357	
Tubing Size 2.375			Weight 4.70			Internal Diameter 1.995		Set at 5385		Perforations OPEN		То	
Type Completion (D						Type Fluid Production				Pump Unit or Traveling Plur		Plunger? Yes	/ No
SINGLE Producing Thru (Annulus / Tubing)				WATE	R Carbon Dioxi	de	PUMI e % Nitro			Gas Gr	ravity - G		
ANNUL	US	•		<i>σ,</i>		,,,							.
Vertical D 5310	epth(H	l)					Pres	sure Taps				(Meter	Run) (Prover) Size
Pressure	Buildu	p: :	Shut in 08	/27/1	3 2	0 at		(AM) (PM) 1	Taken_08	3/28/13	20	at	(AM) (PM)
Well on L	ine:	ţ	Started										(AM) (PM)
							OBSERVE	D SURFACE	DATA			Duration of Shut-	-in Hours
Static / Dynamic Property	mic Size		Meter C Prover Pressure		Pressure Differential in	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P_w) or (P_i) or (P_c)		Duration (Hours)	Liquid Produced (Barrels)
Shut-In	ut-In		psig (Pm)		nches H ₂ 0			250	psia	psig psia 550		24	
Flow									_				
							FLOW STR	REAM ATTRI	BUTES			· · · · · · · · · · · · · · · · · · ·	
Plate Coefflecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia			Press Grav xtension Fact Pmxh Fact		tor Temperature		Fa	Deviation Metere Factor F F _{pv} (Mo		w GOR (Cubic Fe Barrel)	eet/ Fluid
.													
(P _c) ² =		_:	(P _w) ² :	=	:	(OPEN FLO		'ERABILITY) % (P	- 14.4) +		:	-	$0^2 = 0.207$ $0^2 = $
$(P_a)^2 - (P_a)^2$ or $(P_c)^2 - (P_a)^2$		(P _o) ² - (P _w) ²		Choose 1. 2.	Choose formula 1 or 2: 1. $P_o^2 - P_a^2$ LOI form 2. $P_o^2 - P_d^2$ 1. do and divided by: $P_o^2 - P_a^2$ b			Backpressure Curve Slope = "n"or Assigned Standard Slope		n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
										<u> </u>			
Open Flow Mcfd @ 14.65 psia						Deliverabil	Deliverability Mcfd @ 14.65 psia						
		_	_			- •		•		_		ort and that he ha	ū
the facts st	tated ti	herei	n, and that s	said re	port is true	and correc	t. Executed	this the 09					, 20 13
			Witness	(if any)				_		Wm	L Sa	Mary L	KCC WIC
			For Com									nked by	
			rur com	1780000T							Ų∩ o	cked by	DEC 18

exempt: and that correct t of equip	clare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO., LLC the foregoing pressure information and statements contained on this application form are true and to the best of my knowledge and belief based upon available production summaries and lease records ment 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 MURDOCK 1
gas well	on the grounds that said well:
l fur	(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
	necessary to corroborate this claim for exemption from testing.
Date: <u>1:</u>	<u>2/09/13</u>
	Signature: <u>Um l. Mallaugh</u> Title: <u>FIELD MGR.</u>

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.