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

Type Test	t:				(	'See Instruc	tions on Re	verse Side	<del>)</del> )					
Open Flow					Test Date				ADI	No. 15				
Deliverabilty					9/30/14	<b>J.</b>		API No. 15 15-033-20688-00-01						
Company WOOLSEY OPERATING COMPANY, LLC							Lease MURD(	Lease MURDOCK				Well Number		
County Location COMANCHE NE SW SW					Section 34		TWP 34S	• •		N)	-	Acres	Attributed	
Field AETNA				Reservoir MISSIS	r SIPPIAN		Gas Gathering Conne ATLAS PIPELINE			ection				
Completion Date 5/22/08					Plug Bac 5761	k Total Dep	th		Packer S NONE	et at	,			
Casing S 4.500	Casing Size Weight 4.500 10.50				Internal D 4.052	Diameter		Set at Perfo 5789 526		ations	то 5357			
			Weight 4.70	Internal D 1.995		Diameter	neter Set at 5385		Perforations OPEN		То			
Type Completion (Describe) SINGLE					Type Flui WATE	d Productio R	n		Pump Uni	it or Traveling NG	Plunger? Yes	/ No		
Producing Thru (Annulus / Tubing) ANNULUS				)	% C	arbon Dioxi	ide	% Nitrogen			Gas Gravity - G <sub>g</sub>			
Vertical D	epth(H)	)	· · ·			Pres	sure Taps				(Meter	Run) (F	rover) Size	
Pressure	Buildup	): :	Shut in9/29	/14 2	20 at		(AM) (PM)	Taken_9/	30/14	20	at		(AM) (PM)	
Well on L	ine:	;	Started	2	0 at		(AM) (PM)	Taken		20	at		(AM) (PM)	
	,					OBSERVE	D SURFAC	E DATA			Duration of Shut	:-in	Hours	
Static / Dynamic Property	Dynamic Size		Circle ane: Meter Prover Pressui psig (Pm)	Pressure Differential in Inches H <sub>0</sub> 0	Temperature Temperature		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )  psig psia		Tubing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$ psig psia		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In			-	2			200	рыа	100	psia	24			
Flow			<u>.</u> ,								, 11-2,			
			_ <del></del> _			FLOW STR	REAM ATTR	IBUTES					<del>-</del>	
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mofd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P <sub>m</sub> x h	Grav Fact	tor	Flowing Temperature Factor F <sub>ft</sub>	Fa	iation ector = pv	Metered Flov R (Mcfd)	(Cubic Fo	GOR (Cubic Feet/ Barrel)		
				· —										
(P <sub>c</sub> ) <sup>2</sup> =			(P <sub>w</sub> ) <sup>2</sup> =_		•		'ERABILITY % (F	) CALCUL ' - 14.4) +			(Pa	$)^2 = 0.2$	207	
		- '	(	hoose formula 1 or 2	1 or 2:		Backpressure Curve				(P <sub>d</sub> ) <sup>2</sup> =		non Flour	
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		<ol> <li>P<sub>c</sub><sup>2</sup> - P<sub>a</sub><sup>2</sup></li> <li>P<sub>c</sub><sup>2</sup> - P<sub>d</sub><sup>2</sup></li> </ol>	tormula		Siope = "n"		n x LOG		Antilog	De	Open Flow Deliverability Faucia B v Aptilos	
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>		div		2. $P_c^{-1} - P_d^{-1}$	and divide	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>		signed ard Slope				Equal	Equals R x Antilog (Mcfd)	
				<del></del>				<del></del>		_				
Open Flow Mcfd @			Mcfd @ 14.	.65 psia	Deliverab	Deliverability		Mcfd @ 14.65 psia						
		nec	f authority on	-		states that h	ne is duly au	uthorized t	o make the	above reno	rt and that he h	as knov	vledge of	
	•	•	n, and that sai				· -	7	day of O	CTOBER			20 14	
		<u></u> .	Witness (if	any)	KΔM	Rec	eived -		in L	Par	Lough Company			
			For Commi				ATION COMMIS	SION			cked by			
			r or commi	NO.		UEL 3	1 2014			Cite	onda by			

CONSERVATION DIVISION WICHITA, KS

exempt status under and that the foregoi correct to the best of of equipment installa	penalty of perjury under the laws of the state of Kansas that I am authorized to request Rule K.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO., LLC ng pressure information and statements contained on this application form are true and fmy knowledge and belief based upon available production summaries and lease records ation and/or upon type of completion or upon use being made of the gas well herein named. It a one-year exemption from open flow testing for the MURDOCK 1
is i	s a coalbed methane producer s cycled on plunger lift due to water s a source of natural gas for injection into an oil reservoir undergoing ER s on vacuum at the present time; KCC approval Docket No s not capable of producing at a daily rate in excess of 250 mcf/D supply to the best of my ability any and all supporting documents deemed by Commission of corroborate this claim for exemption from testing.
Date: 10/27/14	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.