KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Open Flow Deliverabilty										
			Test Date: 06/30/11					No. 15 033-21533-0	0000	
Company WOOLSEY OPERATING COMPANY, LLC			Lease MURDOCK			CK			A-1	Well Number
County Location COMANCHE NW, NW, NW		Section 10				RNG (E/ 16W	W)		Acres Attributed	
ield AETNA			Reservoir MISSISSIPPI					hering Conne PIPELINE	ection	
Completion Date 0/22/08			Plug Back Total Depth 5700				Packer Set at NONE			
Casing Size	Weight 10.50		Internal Diameter 4.052		Set at 5732		Perforations 5420		то 5457	
Tubing Size	Weight 4.70		Internal Diameter 1.995		Set at 5486		Perforations OPEN		То	
ype Completion (Describe)			Type Fluid Production OIL & WATER				Pump Unit or Traveling Plunger? PUMPING		Plunger? Yes	/ No
Producing Thru (Annulus / Tubing) ANNULUS			% Carbon Dioxide				% Nitrogen		Gas Gravity - G	
/ertical Depth(H)				Press	sure Taps				(Meter l	Run) (Prover) Size
Pressure Buildup:	Shut in _6/29/	/11 20.	at		(AM) (PM)	Taken_6/	30/11	20	at	(AM) (PM)
Well on Line:	Started							20	at	(AM) (PM)
				OBSERVE	D SURFACE	DATA			Duration of Shut-	inHours
Static / Orifice		Differential To	Flowing Well Head Temperature t t		Casing Wellhead Pressure $(P_*) \circ (P_t) \circ (P_c)$ psig psia		Tubing Wellhead Pressure (P_w) or (P_i) or (P_c) psig psia		Duration (Hours)	Liquid Produced (Barrels)
Shut-In	 				180	para	350		24	
Flow										
	<u> </u>		<u> </u>	FLOW STR	EAM ATTRI	BUTES				
Coeffiecient	(F _b) (F _p) Prover Pressure		Gravity Factor F _g		Flowing emperature Factor	Fa	iation ictor pv	Metered Flow GOI R (Cubic I (Mcfd) Barre		Cravity
P ₂) ² = :	(P_)² =	:	OPEN FLO		ERABILITY) 6 (P	CALCUL - 14.4) +		:	_	² = 0.207 ² =
(P _c) ² - (P _a) ² (P _c) ² - (P _w) ² Chaose formula 1 or 2: 1. P _c ² - P _c ² or (P _c) ² - (P _d) ² 2. P _c ² - P _c ² divided by: P _c ² - P _w ²		LOG of formula 1. or 2. and divide by:		Backpressure Curve Slope = "n" Or Assigned Standard Slope		n x Log		O Antilog Del Equals	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flow	Mcfd @ 14.65		5 osia		Deliverability			Mcfd ଡ 14.65 psia		
The undersigne	•	behalf of the C	company, st		e is duly au	thorized t		ne above repo	rt and that he ha	
e facts stated there	ein, and that said	d report is true a	and correct.	Executed	this the 20)	day of D	ECEMBER		, 20 <u>11</u> .
	Witness (if a	iny)			_	Z	Son K	HALL FOR	2 Cony	RECEIV
	For Commiss	sion		· · · · · · · · · · · · · · · · · · ·	_			Che	cked by	DEC 3 0

	der 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 WOOLSEY OPERATING CO., LLC					
	going pressure information and statements contained on this application form are true and					
	It 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 MURDOCK A-1					
	rounds that said well:					
gas well on the g	ounus mat said weii.					
(Check	c 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					
<u></u>	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 by to corroborate this claim for exemption from testing.					
Date: 12/20/11						
	Signature: Who Leday Rullay Rulle: 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.