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

Type Test	:				(-	See Instruct	tions on Reve	erse Side,	)				
Open Flow				Test Date				ΛDI	No. 15				
De	liverab	ilty			12/8/10	•				007-20081-0	0002		
Company WOOLS		PER	ATING CO	MPANY, LLC			Lease SWARTZ	<u>,</u>			A-2	Vell Num	
			Locati 2037' FN	on L & 1980' FEL	Section 1			TWP 34S		W)	Acres Attributed		ributed
Field WILDCAT					Reservoir MISSISSIPPI			Gas Gath APC		hering Conn	Connection		CEN
Completion Date 4/28/10		9			Plug Back Total Depti 5110		th	n Packer ! NONE		et at	16	To 4680	
Casing Size 4.500			Weight 10.500		Internal Diameter 4.052		Set at <b>5193</b>		Perforations 4600		To 4680 C///>		//>
Tubing Size 2.375			Welgh 4.70	1	Internal Diameter 1.995		Set at 4736		Perforations OPEN		То		14
Type Completion (C		(De	escribe)		Type Fluid Production WATER				Pump Ur PUMP	it or Traveling	Plunger? Yes	/ No	<del></del>
Producing		(Anr	nulus / Tubinç	)	% C	arbon Dioxi	de		% Nitrog	en	Gas Gra	avity - G	1
Vertical C	epth(H	)				Pres	sure Taps		_		(Meter F	Run) (Pro	ver) Size
4640			400	7/40					10/10				
Pressure	Buildu	p: 3	Shut In	7/102	0 at		(AM) (PM)	Taken_12	/8/10	20	at	(A	M) (PM)
Well on L	ine:		Started	2	0 at		(AM) (PM)	Taken		20	at	(A	M) (PM)
			•		<u> </u>	OBSERVE	D SURFACE	DATA		· · · -	Duration of Shut-i	in	Hours
Static /			Circle one: Meter	Pressure Differential	Flowing	Well Head	Casing Wellhead Pressure		Tubing Wellhead Pressure		Duration	Liquid Produced	
Dynamic Size Property (inches		Brover Press		1	Temperature t	Temperature 1	$(P_w) \text{ or } (P_t) \text{ or } (P_s)$		$(P_w)$ or $(P_t)$ or $(P_o)$		(Hours)	(Barrels)	
Shut-In			pang (t m)	Thomas Figure			1000	psia	200	psia	24		
Flow													
						FLOW STR	REAM ATTRI	BUTES	·				
Plate			Circle one: Meter or	Press	Grav	rity	Flowing	Devi	ation	Metered Flov	v GOR		Flowing
Coeffieclent (F <sub>p</sub> ) (F <sub>p</sub> )		Pro	ver Pressure	Extension  Pmxh	Fact Fact	or	Temperature Factor		ctor	R (Mcfd)	(Cubic Fe	Gravity	· · · /
Meld	·		pala	- m	ļ	<u> </u>	F <sub>it</sub>		PV				G,,
<b></b>			45.15		•	• •	ERABILITY)				-	= 0.20	7
(P <sub>o</sub> )² =	<del>-  </del>	<u>=:</u>	(P <sub>w</sub> ) <sup>2</sup> =	Choose formula 1 or 2	P <sub>a</sub> =			- 14.4) +	14.4 =	<del></del> :	(P <sub>d</sub> ) <sup>2</sup>	' =	<del></del>
(P <sub>e</sub> ) <sup>2</sup> - (	P_)2	(F	)2- (P_)2	1. P. 2 - P. 2	LOG of formula		Slope	sure Curve e = "n"	n x	LOG			n Flow erability
(P <sub>2</sub> ) <sup>2</sup> - (	P <sub>d</sub> ) <sup>2</sup>			2. P <sub>6</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup>	1, or 2. and divide	P.2 - P.2	Ass	or igned			Antilog	Equals i	R x Antilog
	-+			divided by: $P_0^2 - P_0$	by:		Standa	rd Slope	_			, · · ·	
							-		-				
	l		<u>.</u> l				<u> </u>					ļ	
Open Flo	w			Mcfd @ 14.	65 psia		Deliverabi	ity			Mcfd @ 14.65 psi	a	<del></del>
		•					· ·			•	rt and that he ha		•
the facts s	tated t	nerei	n, and that sa	aid report is true	and correc	t. Executed	this the 30			ECEMBER	. 0	, 20	0
									Wm	L &	lasken		
			Witness (i	fany)						For	Company		
	<del></del>		For Comm	ission						Che	cked by		

l de	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
	t 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. reby request a one-year exemption from open flow testing for the SWARTZ A-2
	on the grounds that said well:
	(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
	ther agree to supply to the best of my ability any and all supporting documents deemed by Commission necessary to corroborate this claim for exemption from testing.
Date: _12	2/30/10
	Signature:
	Title: 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.