KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	•				(See mstruct	ions on nev	rerse side	*)					
_ :	en Flov liverabi				Test Date 12/8/10					No. 15 00 7-22778- 0	0000			
Company WOOLS		PER	ATING CO	MPANY, LLC	<u> </u>		Lease MICHEL	-		·	1	Well N	umber	
County BARBER			Location C SW SE		Section 18		TWP 34S		RNG (E/W) 11W			Acres Attributed		
Field LOGAN					Reservoir CHEROKEE		Gas G APC			nering Conne	ection			
Completion Date 11/25/03					Plug Bac 5272	k Total Dept	h ·		Packer Set at NONE					
Casing Size 4.500		*** *** **	Weight 10.50		Internal Diameter 4.052		Set at 5530		Perforations 4632		To 4640	то 4640		
Tubing Size 2.375			Weight 4.70		Internal Diameter		Set at 4632		Perforations OPEN		То			
Type Completion (I SINGLE						d Production	İ		Pump Unit or Traveling Plung PUMPING		Plunger? Yes	/ No		
	7 Thru	(Anr	nulus / Tubing	1)		Carbon Dioxid	de		% Nitrog		Gas G	iravity -	G _g	
Vertical D)	<u> </u>			Press	sure Taps	-			(Meter	Run) (F	Prover) Size	
Pressure	Buildup	o: :	Shut in 12/	7/10 2	0 at		(AM) (PM)	Taken_12	2/8/10	20	at		(AM) (PM)	
Well on Line:		;	Started 20							20	at	at(
						OBSERVÉ	D SURFACE	DATA			Duration of Shu	 t-in	Hou	
Static / Orific Dynamic Size Property (inche		e Prover Pressure		Pressure Differential re in Inches H ₂ 0	Flowing Well Hotel Temperature t		Wellhead Pressure $(P_w) \text{ or } (P_1) \text{ or } (P_c)$		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	1 '	Liquid Produced (Barrels)	
Shut-In							psig 510	psia	350	psia	24			
Flow								•						
						FLOW STR	EAM ATTRI	BUTES	· · · · · ·					
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P _m xh	Extension Fact		Flowing Temperature Factor F _{f1}		iation ctor pv	Metered Flow R (Mcfd)	GOR (Cubic F Barre	eet/	Flowing Fluid Gravity G _m	
					(ODEN EL	0140 (DEL IV			4710110	<u></u>				
(P _c) ² =		_:	(P _w) ² =	<u>.</u>	P _d =	OW) (DELIV		ु - 14.4) +		·		$()^2 = 0.2$ $()^2 =$	207	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide	P _c ² -P _w ²	Backpressure Ct Slope = "n" or Assigned Standard Slop		n x I	.og []	Antilog	De	Open Flow Deliverability Equals R x Antilog (Mcfd)	
		.											· · · · · · · · · · · · · · · · · · ·	
Open Flow			Mcfd @ 14.65 psia				Deliverability		Mcfd @ 14.65 psia					
		_	-				-				rt and that he h	as knov	vledge of	
he facts s	tated th	erei	n, and that sa	id report is true	and correc	t. Executed	this the _28				0		20 10	
***************************************			Witness (if	any)					Was .	Gallay.	company			
			For Comm	ssion		.	_			Chec	ked by			

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO., LLC and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named. I hereby request a one-year exemption from open flow testing for the MICHEL 1 gas well 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 I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.
Date: 12/28/10 Signature: Win Hallaya Title: FIELD MGR.
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.