KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

. .

Type Test	t:					(See Inst	ruct	ions on Rev	rerse Side)					
Open Flow						Test Date	·				ΔD	I No. 15				
Deliverabilty					/o-17 thru				10-18-	-/4	API No. 15 /5-007-21502-00-00					
Company	· 					<u> </u>	<u>,</u>		Lease	- •		טַטָּיני.	1 613 U.L.	Well Nu	ımber	
		n.	اصددلاد					H	ace lune	A			j	-21		
County D. Jacobs County Location			ion	Section				Jacy lund		RNG (E/W)		Acres Attributed				
Barber 52 No			<u>۷۲</u>	SE 21							4 W					
Field					Reservoir				Gas Gathering Conn			ection				
<u>5+</u>	4 m	<u>Ph</u>			Mississippian Plug Back Total Dep				Oneok							
Stumph Completion Date									th		Packer Set at					
/ウーリートラリン Weight					4840				0-1-1		None					
-			_		Internal Diamet						Perforations		То			
4.500			9.50				<u> </u>				4702		4712			
Tubing Size		Weight		Internal Diameter				Set at		Perforations		То				
<u>ጊ ነንን</u> Type Con	<u> </u>	/D	<u> </u>	<u>0</u>	7.995 The Field Description				4725							
					Type Fluid Productio				п		Pump Unit or Traveling Plunger? Yes / No					
J i Drodusina	<u>hgi</u>	<u>و</u> ۸	nulus / Tubir	٠-١		G బ్య % Carbon Dioxide					% Nitrogen Gas Gravity - G					
-						70 C	arbon D	IOXII	ae		% Nitro	jen -	Gas G	ravity - i	G _g	
Annulus Vertical Depth(H)						Pressure Taps					(Meter Run) (Prover) Size					
oressure	Buildu	p: :	Shut in	/0	-17_2	0_14 at_	<i>J:</i> 30		(AM) (PM)	Taken	10-4	20	14 at /14	<u>LS</u>	(AM) (EM)	
Well on L	.ine:		Started		2	0 at		_	(AM) (PM)	Taken		20	at		(AM) (PM)	
							OBSEF	RVE	D SURFACE	DATA			Duration of Shut	-in	Hours	
Static / Orifi		e Prover Pressure			Pressure	Flowing	Well Head Temperature	ad	Casing		1	Tubing		1		
				ure	Differential in	Temperature		Wellhead Pressure (P_w) or (P_t) or (P_c)		Wellhead Pressure (P_w) or (P_l) or (P_c)		Duration (Hours)		Liquid Produced (Barrels)		
Property	(inch	hes) psig (Pm)		- 1	Inches H ₂ 0	t	t		psig psia		psig	psia	,	,	\	
Shut-In				Ì		**								 		
	-		•	\dashv					20		 		 	┿-		
Flow				Į					1]			ľ	
						<u> </u>	FLOW S	STR	EAM ATTRI	BUTES	-					
Plate			Circle one:	Т	D			-	Flowing		-		1		Flowing	
Coefficcient		Meter or			Press Extension	Gravity Factor		Temperature		Deviation Factor		Metered Flo R	w GOR (Cubic Fo		Fluid	
(F _b) (F _p)		Pro	Prover Pressure						Factor		ctor H (Mcfd)		Barret		Gravity	
Mcfd		psia		↓	""		_		F _n						G _m	
						1	}			,			İ			
						(OPEN FL	OW) (DF	ııv	ERABILITY)	CALCIII	ATIONS	· 				
D 12 _			(D)2.	_	•				-) - 14.4) +				$)^2 = 0.2$	207	
P _c) ² =	1	<u></u>	(P _w) ² :		ose formula 1 or 2			<u>—</u> '	/* (F	' _G - 14.4) +	14.4 = _	 :	(P _d ,) ² =		
(P _c) ² - (P _a) ²		(P _c)²- (P _w)²		1. P _c ² -P _s ²		LOG of			Backpressure C Slope = "n"			Γ٦			Open Flow	
or (P _c) ² - (P _d) ²					2. P _a ² -P _a ²	formula 1. or 2.	1		or		- nx	LOG	Antilog		Deliverability Equals R x Antilog	
					led by: P²-P.	and divide	P.º-P.	2	Assigned Standard Slope		-				(Mcfd)	
							<u> </u>							+	-	
									<u> </u>							
									i]				1	
						 .			-				<u></u>	<u> </u>		
Open Flo	w				Mcfd @ 14.	65 psia	-		Deliverab	ility			Mcfd @ 14.65 ps	ia		
The 1	unders	igned	d authority,	on b	ehalf of the	Company,	states tha	at h	e is duly au	thorized to	o make t	he above rep	ort and that he h	as know	ledge of	
ne facts s	tated ti	herei	n, and that s	aid :	report is true	e and correc	t. Execu	ted	this the	23	day of _	Octob	or	 ,	20 <u> </u> .	
														NSAS COI	Received RPORATION COMMIS	
			Wilness	(if any	y)				_			For	Company			
			For Com	missio	xn x			_	_			Chr	cked by	<u> </u>	T 2 8 2014	
												3110	•	CONSEI V	RVATION DIVISION VICHITA, KS	

exempt status under and that the foregode correct to the best of equipment install I hereby reques	r penalty of perjury under the laws of the state of Kansas that I am authorized to request at Rule K.A.R. 82-3-304 on behalf of the operator <u>Gary D. Jacobs</u> bing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records lation and/or upon type of completion or upon use being made of the gas well herein named. It is a one-year exemption from open flow testing for the Hoagland *1-21
(Check o	unds that said well: 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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: <u>/ひ-ಒ3 ~</u>	Signature: Ly D. Jacobs Title: owner / operator

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 Received signed and dated on the front side as though it was a verified report of annual test results.

KANSAS CORPORATION COMMISSION