KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Туре Те	st:						(See Instru	ctions on Rev	verse Sid	e)					
Open Flow											·:-				
Deliverabilty						7 Test Date: 2-2-12				API No. 15 15-071-20212					
Compar						00	10-	Lease			07 1 202 1	2 - 0	Well N	ımbar	
Horseshoe Operating, Inc.						Rauch					•	1	ANGU IA	untoer	
County	 ey	1	Location C NW NW			Section 8		TWP 18S		RNG (E/W) 39W		Acres Attribut 640		Attributed	
Field						Reservoir			Gas Gathering Connect		ection				
Bradsl						L. Win		· · · · · · · · · · · · · · · · · · ·		DCP Midstream		•			
Completion Date 2/81						Plug Back Total De 2951				Packer Set at None					
Casing Size 4.5			Weight 10.5			Internal Diameter 4.04		Set at 2998		Perforations 2913-2925		то 2928-	то 2928-2932		
Tubing S 2.375		Wei: 4.7	ght		Internal Diameter 1.995		Set at 2940		Perforations		То	То			
Type Co	moletic	n (D					id Productio			Rump He	it or Templine	Ohione Con	/ N=		
Single Gas						Type Fluid Production Water				Pump Unit or Traveling Plunger? (%) / No Pumping Unit - Rod					
Producing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - G												3_			
Annulus															
Vertical Depth(H) Pressure Taps (Meter Run) (Prover) Size 3000															
	Builds	ın.	Shut in	á	?-/	0/2-	9:35	(Man)	Folcon	2	-2	12at 9:4	150	<u></u>	
Well on L															
Aten Ou C	urie:		Sianed		2	U ar		(AM) (PM)	laken		20	at	(AM) (PM)	
							OBSERVE	D SURFACE	DATA			Duration of Shut-	in O	4 Hours	
Static / Orific		Circle one:		·]	Pressure	Flowing	Well Head	Casing		Tubing				Liquid Produced (Barrels)	
		Prover Pres		Differential in		Temperature	Temperature	mperature Wellhead F		1	ed Pressure (P,) or (P,)	Duration (Hours)			
Property	(inches) psig (psig (Pm	m) Inches H ₂ 0		t	t	psig psia		psig psia			L."	20.10.3,	
Shut-In	.60	75						70				24		-	
Flow															
							EI OW STO	EAM ATTRIE		<u>!</u>			<u> </u>		
Plate			Circle one:	1		1	PEON SIA		JULES			· _ · _ ·			
Coefflecient		Meter or			Press Extension	Grav Fact		Flowing Temperature		ation (Metered Flow	GOR (Cubic Fee		Flowing Fluid	
(F _p) (F _p) Mcfd		Prover Pressure psia		ł	Pmxh	F		Factor F _{II}	•	ev	(Mcfd)	Barrel)	30	Gravity	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		┿		-		. 16						G _m	
	أ								l						
						(OPEN FLO	W) (DELIV	ERABILITY)	CALCUL	ATIONS		(P.)²	= 0.20	17	
(P _c)² =	<u> </u>	<u>_:</u> _	(P _w) ² =		<u> </u>	P _a = _		6 (P _e	- 14.4) +	14.4 =	:	(P)2		····	
(P.)² - (P)2	(P)²-(P_)²	Choose 1	se formula 1 or 2; p 2, p 2	LOG of		Backpress			ГЭ		Op	en Flow	
or		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		2	p. p.	formula 1. or 2.		Slope * "n"		n x LOG		Antilog	Dali	Deliverability	
$(P_a)^2 - (P_d)^2$		ه أ		_	dby: P.²-P²	and divide	P,2-P,2	Assigned Standard Slope					Equals R x Antilog (Mcfd)		
_						 			•				_		
-						 		 							
						<u> </u>								ſ	
Open Flow	<u>, </u>			٨	Mcfd @ 14.6	i5 psia	•	Deliverabili	ty			Mcfd @ 14.65 psia	1		
The u	nderek	ned	authority o	n he	half of the /	Componi, et	nton that he	s la aluba auth	andrad to	maka sh		rt and that he has			
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ne tacts sta	ated th	erein	, and that s	aid re	port is true	and correct.	Executed	this the	<u> </u>	day of	ypri	7	, 2	o <u>L</u> d.	
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			Witness (It erry)			RECE	IVEC -			For C	company			
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			For Comm	*******			APR 1	ō 2012			· Chec	kad by			

KCC WICHITA

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 Horseshoe Operating, Inc. 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 Rauch 1 gas well on the grounds that said well:
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:
Signature: Janice Ripley Title: Troduction Assistant

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.