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

Type Tes	st;					(See Instruct	ions on Rev	erse Side	<del>)</del> )					
Op	oen Flov	,		•										
Deliverabilty			•	Test Date: 5-21-12			API No. 15 071-20734-00-00			n				
Company					JAd	10	Lease	· · · · · · · · · · · · · · · · · · ·			·	Well N	umber	
Horsesh		erating	, Inc.				Miller A				$\frac{1}{2}$	5	unber	
County Location			on	and the second s			TWP		RNG (E/W)		Acres Attributed			
Greeley C NW				23			20S 40W				640			
Field Bradshaw				Reservoir U. Winfield				Gas Ga DCP M	ction					
Completion Date 1-24-2001				Plug Back Total Depti 2841				Packer : None	Set at			The second se		
Casing Size 4.5			Weigh 10.5	t	Internal Diameter 4.052		Set at 2890		Perforations 2801		To 2806			
	Tubing Size Weight			t	Internal Diameter			Set at P 2812		Perforations		То		
2.375			4.7		1.995									
Type Completion (Describe) Single - Gas					Type Fluid Production Water				Pump Unit or Traveling Plunger? Yes / No Pump Unit - Rod					
Producing	-	(Annulu	s / Tubing	g)	% Carbon Dioxide				% Nitrog	gen	Gas Gr	Gas Gravity - G <sub>g</sub>		
Annulus			<u></u>	7			. 4					=		
Vertical Depth(H) 2890				Pressure Taps Flange						2"	, ,	Prover) Size		
Pressure	Buildup	: Shu	t in	5-21 2	0/2 at_	9:00	(AM) (PM)	Taken	5-2	22 20.	2 at <u>9:0</u>	0	(PM)	
Well on L	.ine:	Star	rted	2	0 at	<del></del>	(AM) (PM)	Taken		20 .	at	<del></del>	(AM) (PM)	
						OBSERVE	SURFACE	DATA			Duration of Shut-	in 🕳	Hours	
Static /	atic / Orifice   Mete		Circle one: Meter	Differential   1		Well Head	Wollhood Proceure		Tubing Wellhead Pressure		Duration	uration Liquid P		
Dynamic Property	Dynamic Size   Property (inches)		Prover Pressure in		Temperature t t		(P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		(P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		(Hours)		Liquid Produced (Barrels)	
	ps		psig (Pm)	Inches H <sub>2</sub> 0			psig psia		psig psia					
Shut-In								44.8			24			
Flow														
				<u> </u>		FLOW STR	EAM ATTRIE	BUTES	<u> </u>			·		
Plate	,	Circle	e one:	Press -	0		Flowing	1					Flowing	
Coeffiecient		Meter or		Extension	Extension Factor		emperature	perature Facto		Metered Flow	GOR (Cubic Fe	et/	Fluid	
(F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Prover Pressure psia		√ P <sub>m</sub> xh	F	,	Factor F <sub>n</sub>		pv	(Mcfd)	Barrel)		Gravity G <sub>m</sub>	
	-+				1		- 11							
L		<del></del>				. 3	· · · · · · · · · · · · · · · · · · ·	<u> </u>			<u> </u>			
(P <sub>c</sub> ) <sup>2</sup> =		•	(P <sub>w</sub> ) <sup>2</sup> =		(OPEN FLO	OW) (DELIVE %	RABILITY)	CALCUL - 14.4) +				<sup>2</sup> = 0.2	207	
· •/		. •	<del></del>	Choose formula 1 or 2.	<del></del>		T		17:7 -		(P <sub>d</sub> ):	T	<del></del>	
(P <sub>c</sub> )²- (I	P <sub>a</sub> )²	(P <sub>c</sub> )2-	(P <sub>w</sub> ) <sup>2</sup>	1. P <sub>c</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup>	LOG of formula		Slope	sure Curve = "n"		ing			pen Flow liverability	
or (P <sub>a</sub> ) <sup>2</sup> -(P <sub>d</sub> ) <sup>2</sup>		2		2. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup>	2, P <sup>2</sup> -P <sup>2</sup> 1. or 2.		Assigned		n x LOG		Antilog		R x Antilog	
				divided by: $P_c^2 - P_w^2$	by:	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Standar		_	L J			(Mcfd)	
					<u> </u>									
Open Flor	w	Mcfd @ 14.65 psia					Deliverability			Mcfd @ 14.65 psia				
The ı	undersic	ned au	thority: on	behalf of the	Company s	tates that he	is duly auth	norized to	make th	e above report	and that he ha	s know	dedge of	
							/	)			and that he ha	S KIIOW	17	
me facts si	tated th	erein, a	nd that sa	id report is true	and correct	. Executed	inis the	<u></u> '	day of	grey	. 1	RE	20 /0.	
									anis		alles	B # 1	CIVED	
			Witness (if	any)		· · · · · ·	· <u>- ·</u>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	For Q	mpany J	JUL	. 13 201	
		<del>07213</del>	For Commi	ssion			· · · · · · · · · · · ·	V	<del></del>	Ob.	nd bu		- ~ ~UI	
			i oi comuni			. 학중: (11일)			5.44	Check	su oy	00	IAIIO	

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	<b>,</b> .
I declare under penalty of perjury under the laws of the state of exempt status under Rule K.A.R. 82-3-304 on behalf of the operator H and that the foregoing pressure information and statements contain correct to the best of my knowledge and belief based upon available p of equipment installation and/or upon type of completion or upon use b I hereby request a one-year exemption from open flow testing for t gas well on the grounds that said well:  (Check one)	ed on this application form are true and roduction summaries and lease records eing made of the gas well herein named.
is a coalbed methane producer is cycled on plunger lift due to water is a source of natural gas for injection into an oil resistance of natural gas for injection into an oil resistance of vacuum at the present time; KCC approval Do is not capable of producing at a daily rate in excess I further agree to supply to the best of my ability any and all suppostant as necessary to corroborate this claim for exemption from testing	cket No s of 250 mcf/D orting documents deemed by Commission
Date: 7-9-12	
Signature:	

## 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.