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

Type Test:	:			(	(See Instruct	tions on Reve	erse Side	)					
Оре	en Flow		Test Date	<b>a</b> •			API No. 15						
Deliverability 5.				5-22-1	Test Date: -22-13				15-075-20783 - <b>0000</b>				
Company Horsesh	hoe Ope	erating, Inc	2.			Lease Herrma	nn A			1	Well Number	<del></del>	
County Location Hamilton N/2 SW				Section <b>24</b>			TWP RNG ( 235 40W		W)		Acres Attributed 480	_	
Field Bradshaw			Reservoir					hering Connec lidstream	ction		_		
Completion Date 4-4-2002				Plug Back Total Depth 2542					iet at				
4.5			4.052		Diameter			Perforations 2497		то 2503			
Tubing Siz	Tubing Size Weigh 2-3/8 4.7		it	Internat Diamet 2.000		r Set at <b>2509</b>		Perforations		То			
Type Com	pletion (D				d Production			Pump Ur	it or Traveling I	Plunger? Yes	/ No	_	
Single-C		,		Water			Pump		p Unit				
Producing Thru (Annulus / Tubing) % Carbon D					Carbon Dioxi	ide % N			Nitrogen Gas Gravity - G <sub>g</sub>			-	
Any	Drins	<u> </u>			Dana		<del>,</del>		····	/Material	Death (Death Cine	_	
Vertical De	ehm(D)				Pressure Taps Flange				(Meter Run) (Prover) Size				
	<b></b>	5	5-21 ,	12 /	725			5-2	2 _/	3 at 10:6	25 🔾	_	
Pressure 6	Buildup:	Shut in	2	0		((AM) (PM)	Taken	200					
Well on Lir	ne:	Started	2	) at		(AM) (PM) 1	Taken		20 _	at	(AM) (PM)		
					OBSERVE	D SURFACE		,		Duration of Shut-	in 24 Hour	rs	
Static / Dynamic	Orifice Size	Circle one: Meter	Pressure Differential	Flowing Temperature t	Well Head	Casing Wellhead Pressure		Tubing Wellhead Pressure		Duration	Liquid Produced	İ	
Property	(inches)	Prover Pressu psig (Pm)	re in faches H <sub>a</sub> 0		Temperature t	(P <sub>w</sub> ) or (P <sub>t</sub> )			or (P <sub>t</sub> ) or (P <sub>c</sub> )	(Hours)	(Barrels)		
Shut-In	625	pag ( m)	menes 11 <sub>2</sub> 0			psig	13.2	psig	psła	24		1	
Flow												•	
					FLOW STR	EAM ATTRIE	BUTES		•			_	
Plate Coeffiecie (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Gircle one: Meter or over Pressure psia	Press Extension	Extension Fac		Tamananatura		iation ctor	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	Gravity		
(P <sub>c</sub> ) <sup>2</sup> =	<u>:</u>	(P <sub>w</sub> )²=	:	(OPEN FLO		<b>ERABILITY)</b>	CALCUL - 14.4) +		. :	(P <sub>a</sub> ) (P <sub>d</sub> )	<sup>2</sup> = 0.207 <sup>2</sup> =		
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>a</sub> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub>	<sub>a</sub> ) <sup>2</sup> (F	P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	1. P <sub>c</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup>	LOG of formula 1, or 2, and divide	P.2- P.2	Backpress Slope	sure Curve = "n" or gned		.og	Antilog	Open Flow Deliverability Equals 8 x Antilog (Mcfd)	J	
			divided by: $P_c^2 - P_w^2$	by:		Standar	rd Stope				(Maid)		
Open Flow	pen Flow Mcfd @ 14.6		55 psia	5 psia		Deliverability			a	_			
The un	ndersioner	d authority on	····································		tates that h	-	<u>·</u>	n maka sh		t and that he ha		_	
			id report is true				4	day of	Jung	in los	, 20 <u>/ 3</u> .		
		Witness (if				_	1		Fo Co	pany	KCC W	ICHI	
		For Commi	SSION						Check	ed by			

JUN 2 6 2013

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to re exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.	
exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.	quest
and that the foregoing pressure information and statements contained on this application form are tru	e and
correct to the best of my knowledge and belief based upon available production summaries and lease re	cords
of equipment installation and/or upon type of completion or upon use being made of the gas well herein na	amed.
I hereby request a one-year exemption from open flow testing for the Herrmann A #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 Con	nmission
staff as necessary to corroborate this claim for exemption from testing.	
Date: <u>6-24-13</u>	
Signature: Janice Ripley	
Title: Production Assistant	
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## 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.