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

Type Test:					(	See Instrud	ctions on Re	everse Side	<b>;</b> )			
	n Flow erabilty				Test Date	) -				No. 15	_	
	егаонту	<u>-</u>		5	-22-1	3			075	-20704-00-0	0	
Company <mark>Horsesho</mark> e	е Орега	iting, Inc.					Lease Hermar	าก			1	Well Number
County Hamilton		Loca SE/4	ition		Section 9		TWP 23S		RNG (E/ 40W	W)		Acres Attributed 160
Field Bradshaw	-				Reservoir Winfield					nering Conne lidstream		
Completion 9/30/99	Date				Plug Bac 2583	k Total Dep	oth		Packer S	et at		
Casing Size 4.5	)	Weig 9.5	jht .		Internal E 4.090	Diameter	Set 6 259		Perfor 2530	ations )	To <b>2542</b>	
Tubing Size	)	Weig <b>4.00</b>			Internal E 2.041	Diameter	Set a 254		Perfor 2544	ations	то 2545	
Type Compl Single	letion (D					d Production		<u>*</u>	Pump Un	it or Traveling Unit - Rod		/ No
_	Γhru (An	nulus / Tubi	ng)			arbon Diox	tide		% Nitroge		Gas G	ravity - G
Annulus								,				
Vertical Dep						Flan					2"	Run) (Prover) Size
Pressure Bu	aildup:	Shut in	5-21	20	/3 at_	8:52	(AM) (PM)	Taken	5-20	2	3 at 8,3	52 (AM) (PM)
Well on Line	<b>∋</b> :	Started		20	at		(AM) (PM)	Taken	-	20 .	at	(AM) (PM)
		-				OBSERVI	ED SURFACI	E DATA			Duration of Shut	54
Dynamic	Orifice Size inches)	Circle one: Meter Prover Press psig (Pm	Difference in	ntial .	Flowing Temperature t	Well Head Temperature	Cas Wellhead (P <sub>w</sub> ) or (P	sing Pressure (t) or (P <sub>c</sub> )	Wellhea (P <sub>w</sub> ) or	ubing of Pressure (P <sub>1</sub> ) or (P <sub>c</sub> )	Duration  Duration (Hours)	Liquid Produced (Barrels)
Shut-in	625	paig (Fili	) mones	H <sub>2</sub> U			psig	95ia 55.7	psig	psia	24	
Flow												
						FLOW STI	REAM ATTR	IBUTES				
Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or over Pressure psia	Pre Exten	sion	Grav Fact F <sub>g</sub>	or	Flowing Temperature Factor F <sub>II</sub>	Fa	ation ctor	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	l Gravity
		· · · · · · · · · · · · · · · · · · ·			(OPEN FLO	OW) (DELIV	/ERABILITY)	) CALCUL	ATIONS	•		)2 = 0.207
P <sub>c</sub> ) <sup>2</sup> =	:	(P <sub>w</sub> ) <sup>2</sup>	=	_ :	P <sub>d</sub> = .		% (P	P <sub>o</sub> - 14.4) +	14.4 =	<u> </u>		) <sup>2</sup> =
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Chaose formula. Pc <sup>2</sup> -  2. Pc <sup>2</sup> - divided by: P	P <sub>a</sub> <sup>2</sup>	LOG of formula 1, or 2, and divide by:	P,2. P,2	Slop	ssure Curve be = "n" orsigned ard Slope	nxt	og [	Antilog	Open Flow Deliverability Equals R x Antilog (Mofd)
				· ·								
											· · · · · · · · · · · · · · · · · · ·	
pen Flow			Mofd	D 14.6	5 psia	٠	Deliverab	ility		N	Acfd @ 14.65 ps	ia
		d authority, on, and that s						511	make the	above report	t and that he ha	as knowledge of, 20 13
		Witness	(if any)					_()	ani	Je Ku	pley	KCC WIC
		For Corn	miccion			m-v- v		U	_ <del></del>	Check	v V	JUN 26 2
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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 Hermann #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 mct/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.
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Date: 6-24-13
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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.