KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

type tes	it;				(·	See msmut	IUIIS UII NEV	erse side	7)					
	pen Flo				Test Date): 			API	No. 15				
De	eliverabi	lty			2-16-	·//			071	-20803-00-0	0			
Company Horsesh		erat	ing, Inc.		•		Lease Campbe	ll .			2-13	Well Nu	mber	
County Greeley N			Locatio NE	n 	Section 13	• • • • • • • • • • • • • • • • • • • •		TWP 19S		W)		Acres Attributed		
Fleid Bradshaw				and the second second	Reservoir Winfield			Gas Gathering Connection DCP Midstream						
Completion Date 1/26/05				Plug Back Total Depth 2958			Packer S	Set at						
Casing Size 4.5			Weight 10.5		Internal E 4.052	Internal Diameter 4.052		Set at 2963		Perforations 2873-85		то 2890-94		
Tubing Size 2.375			Weight 4.7		Internal Dia 2.000		ameter Set at 2932		Perforations 2907-19		То	То		
Type Completion (Describe) Single				Type Flui Water	Type Fluid Production Water				Pump Unit or Traveling Plunger? Yes / No Yes Rod					
	-	(Ann	ulus / Tubing)		% C	arbon Dioxid	de		% Nitrog	en	Gas G	iravity - (à,	
Annulu:		1	·····			Droce	sure Tane				(Motor	Run\ (P	rover) Size	
Vertical Depth(H) 2960					Pressure Taps Flange					2"	nuny (P	over) Size		
	Bulldu	o: 8	Shut in	2-15,	0			Taken	2-	16 20	// at 7:	30 (AM)(PM)	
Well on L	line:	\$	Started	2	0 at	· · ·	(AM) (PM)	Taken		20	at	(AM) (PM)	
						OBSERVE	D SURFACE	DATA			Duration of Shu	t-in	4 Hours	
Static / Oriii Dynamic St. Property (Incl		Meter Prover Pressure		1 .	Flowing Temperature t	Well Head Temperature t	Wellhead F	Casing Wellhead Pressure $(P_w) \propto (P_1) \propto (P_c)$		Tubing ad Pressure r (P ₁) or (P ₂)	Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	1.00		psig (Pm)	Inches H ₂ 0			psig	5/	psig	psia	24			
Flow				,										
						FLOW STR	EAM ATTRI	BUTES					, 	
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Grav Extension Fact ✓ P _m xh F ₀		Tomporatura		Fa	Deviation Meter Factor F _{pv} (ow GOR (Cubic Feet/ Barret)		Flowing Fluid Gravity G _m	
								<u> </u>						
(P _c) ² =		_:	(P _w) ² =_	:	(OPEN FLO	, ,	ERABILITY) % (P	CALCUL - 14.4) +		:) ² = 0.2	07	
$(P_{o})^{2} \cdot (P_{o})^{2}$ or $(P_{o})^{2} \cdot (P_{d})^{2}$		(P _o) ² · (P _w) ²		1. P2-P2 LOG of formula 2. P2-P2 and divide by: P2-P2 by:		Backpressure Cu Slope = "n"or Assigned Standard Slope		e = "n" or igned	n x LOG		Ope Antilog Deliv Equals		en Flow iverability R x Antilog (Mcfd)	
										-				
Open Flo				Mcfd @ 14.			Deliverabi	<u>-</u>			Mcfd @ 14.65 p			
			I authority, on					24	day of	May	rt and that he come		6 ^{dge of} 20 <u>//</u> . 011	
			Witness (if	any)			<u>(</u>	Ju	nice	For	KCC			
			For Commit	slon			_	.		Che	cked by			

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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 Campbell 2-13 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 Commission staff as necessary to corroborate this claim for exemption from testing.
Date: 5-24-11
Signature: Janice Ripley Title: Production 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.