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

lype lest	t:				(See Instru	ctions on Re	verse Sid	e)				
Op	en Flow			Test Date:				Δι	DI No. 15			
De	liverabilty	,		7-18-13				API No. 15 15-071-20109 — 0000				
Company Horsesi		erating, I	nc.	Lease Fecht				:			Well Number	
County Greeley	County Location Greeley C SE			Section 28		TWP 18S		RNG (E/W) 40W			Acres Attributed	
Field Bradshaw				Reservo Winfie			Gas Gathering DCP:Midst				· · · · · · · · · · · · · · · · · · ·	
Completion Date 5/11/76					k Total Dep	th .		Packer None	Set at		<del></del>	
Casing Siz	10.5			Internal Diameter 4.052		Set at <b>2956</b>		Perforations 2882		To 2889	To 2889	
Tubing Siz 2.375				Internal Diameter 1.995		Set at <b>2889</b>		Perforations		То	То	
Type Completion (Describe) Single Gas				Type Flui Water	n		Pump L Yes	Init or Traveling	ling Plunger? Yes / No			
Producing <b>Tubing</b>	Thru (Ar	nulus / Tubi	ing)	% (	arbon Dioxi	de		% Nitro	gen	Gas G	ravity - G	
Vertical De	pth(H)		s , \$1		Pres	sure Taps			•	(Meter	Run) (Prover) Size	
Pressure B	Buildup:	Shut in	7-17 2	o 13 <sub>at</sub> _	1:15	(AM) (PM)	Taken	7-	18 20	/3 <sub>at</sub> //	15 (AM)(PM)	
Well on Lin	ie:	Started								at		
e Maria .	Angles Co		ं स्वरू	Mark 1	OBSERVE	D SURFACE	DATA			Duration of Shut	-in 24 Hou	
Static / Dynamic Property	amic Size		Pressure Differential sure in Inches H <sub>2</sub> 0	Flowing Well Head Temperature t t		Casing: Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia		Tubing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$ psig psia		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In	.500					paig	60	psig	psia	24		
Flow					·					•		
		· · · · · ·	<del></del>		FLOW STR	EAM ATTRIE	BUTES					
Plate Coefficcien (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd	nt	Circle one:  Meter or over Pressure psia  Press Extension  Pmxh		Gravity Factor F <sub>e</sub>		Flowing emperature Factor F <sub>II</sub>	Fa	ation ctor	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	Gravilla	
<del></del>		<u> </u>				<del></del>						
P <sub>c</sub> ) <sup>2</sup> =	<del></del> :_	(P <sub>w</sub> ) <sup>2</sup> =	·:	OPEN FLO	W) (DELIVE	RABILITY)	- 14.4) +		<u>:</u> : ·	(P <sub>a</sub> )	<sup>2</sup> = 0.207 <sup>2</sup> =	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	1 '	;)²-(P <sub>w</sub> )²	1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_a^2$	LOG of formula 1. or 2. and divide p 2 p 2		Backpressure Curve Slope = "n"or Assigned		n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog	
· · · · · · · · · · · · · · · · · · ·	11.5		divided by: $P_c^2 - P_w^2$	by:	P <sub>c</sub> <sup>2</sup> -P <sub>u</sub> <sup>2</sup>	Standar		<u> </u>		<u>,</u>	(Mcfd)	
		ert			.:		-					
pen Flow		Mcfd @ 14.65 p		i 5 psia	psia		Deliverability		Mcfd @ 14.65 psia		<u> </u>	
			n behalf of the C	ompany, sta		is duly auth	orized to	make th				
		Witness (if	f any)	<del></del>	·			ani	ce K	ipley		
<del></del>		For Commi	ssion						Check	ced by		

4. 1. 1 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 Fecht D-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 Commission staff as necessary to corroborate this claim for exemption from testing. Date: 10-15-13

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.

CANSAS CORPORATION COMMISSION

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CONSERVATION DIVISION