KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	it:				(See Instruct	tions on Rev	erse Side)				
	oen Flo eliverat				5-22-	e; ∕∩				No. 15			
Compan	у		ratina Ir	20	2-22-	12	Lease Kuder		15	-0/1-2011	1	Well Number	
Horseshoe Ope			Location C NW/NW		Section 1		TWP 18S		RNG (E/W)		Acres Attributed		
Greeley Field			CINV	V/11VV	Reservoi		100		Gas Gathering C		ection		
Bradshaw Completion Date					Winfiel Plug Bad	d k Total Dept	th	<u></u>	DCP Midstream Packer Set at				
8-13-19	976				3019			. :			·	·····	
Casing Size 4.5			Weight 10.5		4.052		Set at 3021		Perforations 2956-62		To 2924 -	2924-34	
Tubing Size 2-3/8			Weig 4.7	ght	Internal Di 2.000		liameter Set at 2986		Perforations		То		
Type Completion (E Single-Gas			escribe)		Type Flui Water	d Production	I		Pump Unit or Traveling Plur Pump Unit		Plunger? Yes	inger? Yes / No	
	g Thru		nulus / Tubi	ng)	% C	arbon Dioxi	de		% Nitro	gen	Gas Gr	avity - G _g	
Vertical C			·	,		Pres	sure Taps					Run) (Prover) Size	
Pressure	Buildu	p: {	Shut in	5-21	20/2 at /	:02	(AM) (PM)		5-	22 20	12 _{at} 1,0	2 (AM) (FM)	
Well on L	ine:	;	Started		20 at	·	(AM) (PM)	Taken	• .	20	at	(AM) (PM)	
_						OBSERVE	D SURFACE	DATA			Duration of Shut	in 24 Hours	
Static / Orifice Dynamic Size Property (inches)		e	Circle one Meter Prover Press psig (Pm	Differential sure in	Flowing Temperature t	Well Head Temperature t	Casir Welihead F (P _w) or (P ₁	ressure) or (P _c)	Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In	.62	5	paig (r iii) Hiches H ₂ 0			psig	35.3	psig	psia	24		
Flow													
			Circle one:	 -	· · · · ·	FLOW STR	EAM ATTRI	BUTES					
Plate Coefficcient (F _b) (F _p) Mcfd			Meter or Wer Pressure psia	Press Extension P _m x h	Grav Fact F _e	or Temperature		Fa	ation ctor : pv	Metered Flow R (Mcfd)	v GOR (Cubic Fe Barrel)	Gravitu	
				, ,									
(P _c) ² =			(P _w)²:	<u>.</u>	(OPEN FLO		ERABILITY)	CALCUL - 14.4) +			(P _s) (P _d)	² = 0.207	
(P _c) ² - (F or (P _c) ² - (F	P _a) ²	(P,)²- (P _w)²	Choose formula 1 or: 1. P _c ² -P _e ² 2. P _c ² -P _d ² divided by: P _c ² -P _w	LOG of formula 1. or 2. and divide	P _c ² -P _w ²	Backpress Slope 	sure Curve == "n" or igned rd Slope	n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
							<u> </u>						
Open Flov				N-W @ 14	OF pale		Delline mehili	•••			Mart @ 14 CC	:-	
		hann	authority o	Mcfd @ 14.	· · · · · · · · · · · · · · · · · · ·	tatoe that h	Deliverabil		n maka A		Mcfd @ 14.65 ps		
				aid report is true		,	- (7	day of _	July	on and that he ha	, 20 <u>2</u> .	
			Witness	(If any)		· · · · · · · · · · · · · · · · · · ·			yan	For C	Company	RECEIVED	
			For Com	mission	~					Ched	cked by	· MOEIVED	

JUL 1 3 2012

KCC WICHITA

l decl	are under penalty of perjury under the laws of the state of Kansas that I am authorized to request
	atus under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
and that t	he 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
	ent installation and/or upon type of completion or upon use being made of the gas well herein named.
l here	by request a one-year exemption from open flow testing for the Kuder #1
gas well o	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
	er agree to supply to the best of my ability any and all supporting documents deemed by Commission
stati as ne	ecessary to corroborate this claim for exemption from testing.
σ	-9-12
Date:/_	
	. 0 1
	Signature: Riply_
	Title: Production Assistant
i	Title: Troduction 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.