Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	t:				. (See Instruct	tions on Revo	erse Side)			* ***
Op	en Flo	W			Test Date	٠.			AP	l No. 15		
De	eliverab	ilty			7-18-					-075-20682 -	0000	
Company Horsesh		erat	ing, Inc.				Lease HCU				0831-	Well Number B
County Hamilton	1		Location C SE	n	Section 8		TWP 23s		RNG (E 41w	/ W)		Acres Attributed
Field Bradsha	w.		,		Reservoir Chase(7	Towanda)				thering Conn Field Servic		
Completion 10/27/98		e			Plug Bac 2810'	k Total Dept	h		Packer	Set at		
Casing S 4-1/2"				,		Diameter	Set at 2850'		Perforations 2506'		то 2580'	
Tubing Si 2-3/8"	Tubing Size Weight 2-3/8" 4.7				Internal I 1.995	Diameter	Set at 2363'		Perfo	orations	То	
Type Con Single (ı (De	escribe)		Type Flui Gas - \	d Production Nater	า		Pump U Pump	nit or Traveling	Plunger? Yes Ye	/ No es
Producing	-	(Anr	nulus / Tubing))	% C	arbon Dioxi	de .		% Nitrog	gen	Gas G 0.78	ravity - G _g
Vertical D	Depth(H	l)					sure Taps				,	Run) (Prover) Size
2567'				7 10	12	Flan			/2. P		2.068	
Pressure Well on L											/3 _{at ///} .5	
Well Off L	.ii ie.	•	Started	<i>--</i>	· al		(AIVI) (FIVI)	iakeii		20	al	
			at-1	1-	· 1	OBSERVE	D SURFACE				Duration of Shut	:-in <u>24</u> Hours
Static / Dynamic Property	Orifi Size (inche	9	Circle one: Meter Prover Pressur psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	Casin Wellhead P (P _w) or (P _t)	ressure or (P _c)	Wellhe	Tubing ead Pressure or (P,) or (Pc)	Duration (Hours)	Liquid Produced (Barrels)
Shut-in			paig (i iii)	mones 11 ₂ 0			psig	^{psia}	psig	psia	24	
Flow								,			•	
						FLOW STR	EAM ATTRIE	BUTES				
Plate Coeffiec (F _b) (F Mcfd	ient	Pro	Circle one: Meter or ver Pressure psia	Press Extension P _m x h	Grav Fact F _s	or T	Flowing Femperature Factor F ₁₁	Fa	iation ctor :	Metered Flov R (Mcfd)	GOR (Cubic Fo	l Gravity
				•	(OPEN FLO	OW) (DELIV	ERABILITY)	CALCUL	ATIONS	· · · · · · · · · · · · · · · · · · ·	(P.)) ² = 0.207
(P _c) ² =		<u>.:</u>	(P _w) ² =	:	P _d =	9	% (Р _с	- 14.4) +	14.4 =	<u> </u>)2 =
(P _c) ² - (F or (P _c) ² - (F	•	(P	(P _w) ² - (P _w) ²	hoose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ vided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Backpress Slope C Assid Standar	= "n" or gned	n x	rog	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
		•										
<u> </u>												
Open Flor				Mcfd @ 14.		7	Deliverabili		 		Mcfd @ 14.65 ps	
		-,	l authority, on				•	15	make the day of	Octob Octob	rt and that he ha	as knowledge of, 20 <u></u> .
		· · · · · · · ·	Witness (If a	any)				(Jan	UCU K	Many Pany	
 			For Commis	sion					<i>V</i>	Chec	ked by	

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	clare under penalty of perjury under the laws of the state of Kansas that I am authorized to requestatus under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
	the foregoing pressure information and statements contained on this application form are true and
	o the best of my knowledge and belief based upon available production summaries and lease record
	nent installation and/or upon type of completion or upon use being made of the gas well herein named
	eby request a one-year exemption from open flow testing for the HCU 0831-B
	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
	ner agree to supply to the best of my ability any and all supporting documents deemed by Commiss
staff as ne	ecessary to corroborate this claim for exemption from testing.
Date: <u>/ <i>l</i></u>	0-15-13
	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.

RECEIVED

RANSAS CORPORATION COMMISSION

OCT 1 8 2013

CONSERVATION DIVISION
WICHITA, KS