KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:						ĺ	See Instr	ucti	ons on Rev	erse Side	9)						
Open Flow Deliverabilty					Test Date: 4-3-14					API No. 15 15-075-20747 - 0000								
Company Horseshoe Operating, Inc.								Lease Buck					Well Number 2-3					
County						Section 3				TWP 23S	RNG (E/W) 40W			Acres Attributed				
Field Bradshaw				_	Reservoir						Gas Gathering Connection DCR Midstream							
Completic 4-27-20		9					ig Bac 528	k Total D	epti	h		Packer Set at					-	
Casing S 4.5	sing Size Weight 10.5			- ,	Internal Diameter 4.052				Set a 262 8	Perforations 2601			то 2609					
Tubing Si 2-3/8	bing Size Weight 4.7			t			ntemal Diameter 2.000			Set at 2615		Perforations			То			
Type Con	scribe)	•			Type Fluid Production Water					Pump Unit or Traveling Plum Pump Unit			Plung	nger? Yes / No				
Producing Thru (Annulus / Tubing				3)) % Carbon Dioxid					e % Nitrogen			n	Gas Gravity - G _g				
Vertical E	epth(H)						Pı	ress	ure Taps						(Meter	Run) (F	Prover) Size
Pressure Well on L						•		•	Ų	_/				320/			•	(AM) (PM)
													_					777
Static / Dynamic Property	Orific Size (Inche	9	Meter Different		in !		wing erature t	Well Hea	ed.	Casi Wellhead I (P,) \(\text{(P,)} \)	Tubing Wellhead Pressure (P _w) or (P ₁) or (P ₂)		bing I Pressure P _I) or (P ₂)	Duration of Shut-i		Liqu	in Hours Liquid Produced (Barrels)	
Shut-In	.50	 		1	mones 1120				 '='- -		112	psig psia		24				
Flow										<u> </u>		_						
				_		-		FLOW S	TR	EAM ATTR	BUTES				$\overline{}$	- ; -		T
Plate Coeffiec (F _b) (F Mcfd	ient ()	Click one: Meter or Prover Pressure psla			Press Extension P _m xh		Gravity Factor F _e		Т	mperature F		viation M actor F _{pv}		Metered Flow R (Mcfd)		GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m
				_							<u> </u>					<u> </u>		
(P _c) ² =		: `	(P _w) ² =		:	(OP	EN FL P _d =		LIVI 9	ERABILITY) 6 (P	CALCUI c - 14.4)			:			,) ² = 0.	207
(P _c) ² - (F	5°)3	(P _e) ² - (P _u) ²		Choose formula 1 or 2: 1. P _c ² -P _a ² 2. P _c ² -P _d ² divided by: P _c ² -P _w ²		1	OG of comuta 1. or 2. 1d divide by:		<u>-</u> -	Backpressure Ct Slope = "n"		ve n x		og [Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)	
			_			+							,	·			<u> </u>	
Open Flow Mcfd @				 Mcfd @ 14.6	4.65 psia				Deliverab	Mcfd @ 14.65 psia								
				ı be	ehalf of the o	Com	pany, s			e is duly au		to m		above repo	nt and	that he h	nas kno	wledge of 20 <u>/ 4</u> .
		_	Fer Comm	_				·	_	-			_	Char	ked by	, (\cc	MICHI.
			1 AT COLUE	LO LU	••									CHEC	worns.			

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	der penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
	going pressure information and statements contained on this application form are true and
correct to the bes	st of my knowledge and belief based upon available production summaries and lease records
• •	tallation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby requ	lest a one-year exemption from open flow testing for the Buck 2-3
gas well on the g	rounds that said well:
(Check	is a coalbed methane producer
	is cycled on plunger lift due to water
片	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
· ·	to not deputite of producing at a daily rate in excess of 200 maps
I further agre	e to supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessar	ry to corroborate this claim for exemption from testing.
Date: 6-16	-14
	·
	Signature:
	Title: Production Assistant
	•
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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.

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