KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

ow		Test Date:							
bilty				*	API N	la 15			
		5-22-12			15-0	71-20065	-00-00		
Operating, I			Lease	ison Esta	nte ,		1	Well Number	
Loca C SE	ation	Section 13	TWP 19S	F 4	RNG (E/W	0		Acres Attributed 640	
		Reservoir U. Winfield							
ite	2	Plug Back Total 2895				Packer Set at None			
Weight 9.5		Internal Diamete		Set at 2949		Perforations 2838		To 2846	
Weight Internal Di		Internal Diamete	meter Set at 2856		Perforations		То		
on (Describe)		Type Fluid Produ Water	uction			or Traveling P	lunger? Yes	/ No	
(Annulus / Tubi	ng)	% Carbon I	Dioxide	%	Nitroger	1	Gas Gr	avity - G _g	
H)			Pressure Taps		· · · · · · · · · · · · · · · · · · ·		(Meter 8	Run) (Prover) Size	
up: Shut in	5-21 20	12at 1:20	(AM) (PM)	Taken	5-28	2 20/2	2 at 1:2		
Started	20	at	(AM) (PM)						
		OBSE	RVED SURFACE	DATA	-:	Di	uration of Shut-	in 24 Hours	
in prover Pressure			wellhead F (P _w) or (P _t	Casing Weilhead Pressure (P _w) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Liquid Produced (Barrels)	
00 .	,		psig	87	psig	psia	24		
	r	FLOW	STREAM ATTRI	BUTES			· · · · · · · · · · · · · · · · · · ·		
Circle one: Meter or Prover Pressure psia	Press Extension P _m xh	Gravity Factor F _a	Flowing Temperature Factor F _{rt}	1		Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G _m	
(P.)2.	,	, ,	•				_	z = 0.207	
(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² -P _a ² 2. P _c ² -P _d divided by: P _c ² -P _w ²	LOG of formula	Backpres Slope Ass	sure Curve = "n" or		og [Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
	4	:							
	Mcfd @ 14 65	insia	Deliverabi	lity	<u>L</u>		fd @ 14.65 nsi	a	
nerein, and that s	on behalf of the C	ompany, states th	at he is duly aut	horized to r	/		, /2		
	Weight 9.5 Weight 9.5 Weight 10 (Describe) (Annulus / Tubin 11) Ip: Shut in 12 Started 15 Circle one: Meter or Prover Pressure psig (Pm 10) (P _c) ² - (P _w) ² gned authority, otherein, and that signs 15	Weight 9.5 Weight In (Describe) (Annulus / Tubing) In (Describe) (Annulus / Tubing) Started	Reservoir U. Winfield Plug Back Total 2895 Weight 9.5 Weight Internal Diamete 4.04 Weight Internal Diamete 4.04 Water (Annulus / Tubing) Pressure Prover Pressure P	Reservoir U. Winfield Plug Back Total Depth 2895 Weight Internal Diameter Set at 2856 Weight Internal Diameter Set at 2856 Weight Internal Diameter Set at 2856 Type Fluid Production Water (Annulus / Tubing) % Carbon Dioxide Pressure Taps Flang L (AM) (PM) Started 20 at (AM) (PM) Started 20 at (AM) (PM) OBSERVED SURFACE Company Prossure Pressure Differential In Inches H ₂ 0 Prover Pressure Pressure Prover Pressure Pr	Reservoir U. Winfield Delty Back Total Depth 2895 Weight 9.5 Weight 9.5 Weight 1 Internal Diameter 9.5 Weight 1 Internal Diameter 1 2849 Weight 1 Internal Diameter 1 2856 If (Annulus / Tubing) Water Pressure Taps Flowing 1 (AM) (PM) Taken Started 20 at (AM) (PM) Taken OBSERVED SURFACE DATA Casing 1 (AM) (PM) Taken Flowing Temperature 1 (Pm) or (Pm)	Reservoir. U. Winfield Plug Back Total Depth 2895 None Weight Internal Diameter Set at Perfora 2949 2838 Weight Internal Diameter Set at Perfora 2856 In (Describe) Type Fluid Production Water (Annulus / Tubing) % Carbon Dioxide % Nitroger (Annulus / Tubing) % Nitroger (Annulus / Tubing) % Carbon Dioxide % Nitroger (Annulus / Tubing) % Nitroger (Annulus / Tubin	Reservoir U. Winfield DCP Midstream Plug Back Total Depth 2895 Packer Set at None Weight Internal Diameter Set at Perforations 2949 2838 Weight Internal Diameter Set at Perforations 2856 Internal Diameter Set at Set a	Reservoir U. Winfield DCP Midstream Set at Purp Bask Total Depth Packer Set at Perforations To Set at Set a	

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exemptstat	e under penalty of perjury under the laws of the state of Kansas that I am authorized to request us under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
	foregoing pressure information and statements contained on this application form are true and
	e best of my knowledge and belief based upon available production summaries and lease records
	t installation and/or upon type of completion or upon use being made of the gas well herein named. request a one-year exemption from open flow testing for the Richardson Estate 1
	he grounds that said well:
Ì	
(0	Check one)
1	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
.4	To not supuls of producing at a daily fate in excess of 250 mg/b
l further	agree to supply to the best of my ability any and all supporting documents deemed by Commission
	ssary to corroborate this claim for exemption from testing.
	*
Date:	7-12
1	
:	Signature: <u>Janice Ripley</u>
1	///
1	Title: <u>froduction</u> 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.