KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Single Gas Water Yes Producing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gr Annulus Vertical Depth(H) Pressure Taps (Meter	Well Number Acres Attributed 640 / No ravity - G _p Run) (Prover) Size
Company Horseshoe Operating, Inc. County Greeley C SE 13 19S 40W Field Bradshaw U. Winfield Completion Date 12/74 Casing Size 4.5 9.5 Tubing Size Weight 1.5 Type Completion (Describe) Single Gas Producing Thru (Annulus / Tubing) Vertical Depth(H) Pressure Buildup: Shut in 15-071-20065 - CO- CS Richardson Estate 1 14 19S 40W Gas Gathering Connection DCP Midstream	Well Number Acres Attributed 640 / No ravity - G _p Run) (Prover) Size
Horseshoe Operating, Inc. County Greeley C SE 13 19S 40W Field Reservoir U. Winfield Plug Back Total Depth 2895 None Casing Size 4.5 9.5 Weight Tubing Size Weight 1.5 Type Completion (Describe) Type Completion (Describe) Type Fluid Production Water Producing Thru (Annulus / Tubing) Annulus Pressure Buildup: Shut in Reservoir U. Winfield Reservoir U. Winfield DCP Midstream Packer Set at None Set at Perforations To 2856 Type Fluid Production Water Pressure Taps (Meter 2950 Am)(PM) Taken Richardson Estate 1 Richardson 1 Richar	Acres Attributed 640 / No ravity - G, Run) (Prover) Size
Greeley C SE 13 19S 40W Field Reservoir Gas Gathering Connection DCP Midstream Completion Date 12/74 2895 Packer Set at 12/74 2895 None Casing Size Weight Internal Diameter Set at None Casing Size Weight Internal Diameter Set at Perforations To 4.5 9.5 4.04 2949 2838 2846 Tubing Size Weight Internal Diameter Set at Perforations To 2856 Type Completion (Describe) Type Fluid Production Pump Unit or Traveling Plunger? Yes Yes Freducing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas	/ No ravity - G Run) (Prover) Size
Bradshaw U. Winfield DCP Midstream Plug Back Total Depth 2895 None Casing Size Weight Internal Diameter Set at 4.5 9.5 4.04 2949 2838 2846 Tubing Size Weight Internal Diameter Set at 2856 Type Completion (Describe) Type Completion (Describe) Type Completion (Describe) Type Fluid Production Pump Unit or Traveling Plunger? Yes Yes Producing Thru (Annulus / Tubing) Annulus Vertical Depth(H) Pressure Taps (Meter 2950 Pressure Buildup: Shut in 8/4 20 // 2at // 1/05 // AM (PM) Taken 8/5 20/0 at 2/0	/ No ravity - G _g Run) (Prover) Size
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Annulus Vertical Depth(H) 2950 Pressure Taps Flange Pressure Buildup: Shut in 8/4 20/0 at 11/05 (AM) (PM) Taken 8/5 20/0 at 2/0	Run) (Prover) Size
2950 Flange Pressure Buildup: Shut in 8/4 20/0 at 11/05 (AM) (PM) Taken 8/5 20/0 at 2/0	3 // 2 /(AM)(PM)
Pressure Buildup: Shut in $8/4$ 20 10 at 11.05 (AM) (PM) Taken $8/5$ 20 10 at 2.0	(AM)(PM)
	-
	(AM) (PM)
OBSERVED SURFACE DATA Duration of Shut	i-in 24_Hou
Static / Orifice Dynamic Size Property (inches) Pissure psig (Pm) Pressure t Topic Pressure (Pm) or (Pt) or (Pt	Liquid Produced (Barrels)
Shut-In .500 psig psia psig psia 24	
Flow	
FLOW STREAM ATTRIBUTES	
Plate Coefficient (F _b) (F _p) Mcfd Prover Pressure psia Press Extension Factor Factor F _a F _g Gravity Flowing Temperature Factor Factor F _{ft} F _g Deviation Factor Factor Factor Factor F _{ft} Metered Flow GOR (Cubic Fe Barrel)	eet/ Fluid
(OPEN FLOW) (DELIVERABILITY) CALCULATIONS (P_a) P_c) P_c : $P_d = $ % ($P_c - 14.4$) + $14.4 = $: (P_d)) ² = 0.207) ² =
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Open Flow Deliverability Equals R x Antilog
divided by: P _c ² - P _w ² by: [c m] Standard Slope	(Mcfd)
Open Flow Mcfd @ 14.65 psia Deliverability Mcfd @ 14.65 ps	ia
The undersigned authority, on behalf of the Company, states that he is duty authorized to make the above report and that he have e facts stated therein, and that said report is true and correct. Executed this the day of	as knowledge of, 20 10
Minor Hand	RECEIVED
Witness (if any)	OCT 1 4 20

exemp	declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request of status under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
	at the foregoing pressure information and statements contained on this application form are true and
	t to the best of my knowledge and belief based upon available production summaries and lease records
	ipment installation and/or upon type of completion or upon use being made of the gas well herein named.
	ereby request a one-year exemption from open flow testing for the Richardson Estate 1 ell on the grounds that said well:
yas w	mon 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
l fu	orther agree to supply to the best of my ability any and all supporting documents deemed by Commissi
staff as	necessary to corroborate this claim for exemption from testing.
Oate:	10/11/10
	O_{\bullet} in O_{\bullet}
	Signature: <u>Januel Ripley</u> 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.