## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:		•		(	See Instructi	ions on He	verse Sia	9)	•			
Open				Test Date	e:				No. 15			
Delive	erabilty			05/20/20	013 to 05/24	/2013		071	-20773 - <b>00</b>	00		
ompany lorseshoe	Opera	ating, Inc.				Lease Roe	•			#	Wei 3	Il Number
County Location Greeley E/2 NE NW NE				Section 29		TWP 17S		RNG (E/W) 40W			Acr	res Attributed
ield radshaw				Reservoir Lower V	r Vinfield, Upp	er Ft. Rile	у		thering Conne idstream	ection		
Completion 0/31/03	Date			Plug Bac 3048	k Total Depti	h		Packer \$	Set at			
Casing Size Weight 4.5 9.6			Internal Diameter		Set at 3048		Perforations 2928-2957		то 2962-2972			
Tubing Size Weight 2.375 4.7			Internal Diameter		Set at SN-2940		Perforations		То			
Type Compl Single (G				<del></del>	d Production			Pump Ui	nit or Traveling	Plunger?	Yes / I	No
Producing T		nnulus / Tubing)			Carbon Dioxid	de	<del> </del>	% Nitrog	jen	G	as Gravit	y - G <sub>g</sub>
Tubing Vertical Depth(H)					Pressure Taps Flange						Meter Run 2 inch	n) (Prover) Size
Pressure Bu	uildup:	Shut in05/2	0 20	13 at 7	:15 AM	(AM) (PM)	Taken_0	5/24	20	13 at 9:	15 AM	(AM) (PM)
Well on Line	e:	Started		) at		(AM) (PM)	Taken		20	at		(AM) (PM)
					OBSERVE	D SURFAC	E DATA			Duration of	f Shut-in_	98 Hours
Dynamic	Orifice Size (inches)	Circle one:  Meter  Prover Pressure  psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t		sing Pressure (,) or (P <sub>c</sub> )	Wellhe	Tubing ead Pressure of (P <sub>+</sub> ) or (P <sub>c</sub> ) psia	Duratio (Hours		Liquid Produced (Barrels)
Shut-In		pos ( m)	7.3			143	156.4	paig	pera	98		n/a
Flow				•								
, <b>.</b> .					FLOW STR	EAM ATTR	RIBUTES					
Prover Pressure			Press Extension ✓ P <sub>m</sub> xh	Gravity Factor F <sub>g</sub>		Temperature Fa		viation Metered Flow R F <sub>pv</sub> (Mcfd)		w GOR (Cubic Fee Barrel)		Flowing Fluid Gravity G <sub>m</sub>
D 12		(D. )?		•	OW) (DELIV		 <b>/) CALCU</b> I P <sub>c</sub> - 14.4) -				$(P_a)^2 = (P_d)^2 = 0$	
$(P_c)^2 = $ $(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	)2	(P <sub>c</sub> )² - (P <sub>w</sub> )²	1. P <sub>c</sub> <sup>2</sup> - P <sub>s</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> vided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide		Backpre Slo 	essure Curv ope = "n" - orssigned dard Slope	e n x	LOG	Antilo	a	Open Flow Deliverability quals R x Antilog (Mcfd)
Open Flow The un	ndersign	ed authority, on	Mcfd @ 14.		states that h	Deliverat		to make t	-	Mcfd @ 14		knowledge of
ne facts sta	ited ther	ein, and that sai	d report is true	and correc	ct. Executed	this the $0$	04	day of J	une	in low	KC	, <sub>20</sub> <u>13</u> C WICH
		Witness (if	any)		•			<i>par</i> ju	Fa	Company	<u>-</u> 	JL 05 201
		For Commis	ssion						Che	cked by		
												RECEIVE

and that the	us under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
correct to th	e foregoing pressure information and statements contained on this application form are true and
	ne best of my knowledge and belief based upon available production summaries and lease records
	nt installation and/or upon type of completion or upon use being made of the gas well herein named.
_	y request a one-year exemption from open flow testing for the Roe #3
gas well 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
	The state of producting and daily take in chaose of 255 mail 2
	r agree to supply to the best of my ability any and all supporting documents deemed by Commission essary to corroborate this claim for exemption from testing.
Date: <u>06/0</u> 4	N/13
	Signature: Canicl Ripley  Title: Production Assistant
	Title: TO AUDION ADSISTANT

## 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.