KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:				(See Instruc	tions on Rev	erse Side)				
Open Flow								451	No. 45				
Deliverabilty				Light Date	Test Date: U-7-11				API No. 15 15-071-20068 ~ ()()()				
Company		One	erating, In	c	<u>.7-1-7</u>	·	Lease Richmo	nd				Well Number	
County Location				Section				RNG (E/	W)		Acres Attributed		
Greeley C SE			4		198	19S 40W				640			
Field Bradshaw					Reservoir L. Winfield			Gas Gathering Connection DCP Midstream					
Completion Date 1/75				Plug Bac 2948	k Total Dep	th		Packer S None	et at				
Casing Size 5.5			Weig	ht	Internal (Internal Diameter		Set at 2949		rations)	то 2897		
Tubing Size 2.375			Weight 4.7		Internal Diameter 1.995		Set at 2885		Perforations		То	То	
Type Completion (Describe) Single Gas				Type Flui Water	d Productio	n	Pump Unit or Travelin Ye s			ng Plunger? Yes / No			
Producing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Grav							avity - G						
Annulus	S											•	
Vertical D	epth(l	I)				Pres	syre Taps				(Meter F	un) (Prover) Size	
2950						<u> </u>	lange		···			3 //	
Pressure	Builde	•	Shut in		eo_// _{at_}	,		Taken	4-				
Well on L	ine:	;	Started	2	0 at		(AM) (PM)	Taken	·· —·	20	at	(AM) (PM)	
					r	OBSERVE	D SURFACE				Duration of Shut-	in <u>24</u> Hours	
Static / Orifi		Leater		Pressure Differential	Flowing	Well Head	Wellhoad F	Casing Walihead Pressure		ubing ad Pressure	Duration	Liquid Produced	
Dynamic Property	Siz (inch		Prover Press	ure in	Temperature t	Temperature t	(P_) or (P		(P _#) ∝	(Pt) or (Pt)	(Hours)	(Barrels)	
Shut-In	.3'	15	psig (Pm)	Inches H ₂ 0			psig	57. 2	psig	psta	24		
Flow													
					<u> </u>	flow etc	REAM ATTRI	DIITES	1			·	
51:-1-			Circle one:	Τ	1	FLOW SIE		1			<u> </u>		
Plate Coeffiecient			Meter or	Press Extension	Grav Fact		riowing Temperature	Flowing Deviati		Metered Flow	GOR (Cubic Fe	Flowing Fluid	
(F _b) (F _p) Modd		Pro	<i>ver Pressura</i> psia	√ P _m xh			Factor		e de	(Mcfd)	Barrel)	Gravity	
MCIG							F ₁₁	 				G,	
				<u> </u>						·			
(P _c) ² =		:	(P _w)² =	: :	(OPEN FLO		/ERABILITY) % (P.	CALCUL - 14.4) +		:	(P _a) ⁽	² = 0.207 ² =	
		=		Choose formula 1 or 2				sura Curva				Open Flow	
$(P_{a})^{2} \cdot (P_{a})^{2}$		(P _c) ² - (P _w) ² 1. P _a ² - P _a ²		LOG of formuta		Slope = "n"		пхі	_og	Antilog	Deliverability		
(P _e) ² · (F)²			2. P.* P.*	1. or 2. and divide	P.2. P.2		lgned			Annog	Equals R x Antilog (Mcfd)	
				divided by: $P_e^2 - P_w^2$	by:	<u></u>	Standa	rd Slope				(Wicia)	
Open Flov	<u> </u>	Mcfd @ 14.65 ps			65 psla	psla Deliverability		Mcfd @ 14.65 psia					
The	inders	igned	authority. o	n behalf of the	Company, s	tates that h	ne is dulv aut	thorized t	o make th	ne above reno	rt and that he ha	s knowledge of	
		-			•		•	8		0,,,,) .	as //	
ing iacis si	ared t	nereit	ı, and that s	ald report is true	and correct	. Executed	ithis the	<u> </u>	day of	Juni	1.11.	, 20 _/	
									ani	Kes K	islles	RECENTER	
			Witness ((f any)		· · ·	~~			For C	Company /	······································	
			For Comm	rtecion			_			Char	cked by	JUN I n 201	
			Por Comm	I Parket						Cuar	on one by	-21 4 501	

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
and that the foregoing pressure information and statements contained on this application form are true and
correct to the best of my knowledge and belief based upon available production summaries and lease records
of equipment installation and/or upon type of completion or upon use being made of the gas well herein named. I hereby request a one-year exemption from open flow testing for the
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
I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.
Date: 6-8-11
Signature: <u>Panice Ripley</u> Title: <u>Production</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.