KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	ic.				(See Instruc	ctions on Re	everse Sid	e)					
= :	Open Flow Test Date:								No. 15	_			
Company	y	<u> </u>		5-22	-13	Lease	· ·	071	-20821-00-0		Well Num	nber	
Horseshoe Operating, Inc. County Location				Section	Sell A Section TWP			DNC (EA	A/\	2-3	2-3 Acres Attributed		
Greeley C SW		3		198		RNG (E/W) 40W			Acres Attributed				
Field Bradshaw					Reservoir Winfield			Gas Gathering Connection DCP Midstream					
Completion Date 7/21/05					Plug Back Total Depth 2898'				et at		*************		
Casing S	asing Size Weight 5 10.5			Internal Diameter		Set at 2920'		Perforations 2862'		то 2902'			
Tubing Si	ing Size Weight		ight	Internal Diameter		Set at		Perforations		To			
2-3/8 4.7 Type Completion (Describe)				Type Flui	1.995 2909' Type Fluid Production			Pump Unit or Traveling Plunger? Yes / No					
Single Producing Thru (Annulus / Tubing)					Water			Pump Unit - Rod				· · · · · · · · · · · · · · · · · · ·	
Producing Annulus	-	(Annulus / Tut	ping)	% C	Carbon Diox	ide /		% Nitroge	en	Gas G	Gravity - G		
Vertical Depth(H)					Pressure Taps Flange						(Meter Run) (Prover) Size 2"		
Pressure	Builder	: Shut in	5-21	₂₀ /3 _{at} _		(AM) (PM)	Tokon	5-2	2 "	13 at ///	40 6)) (PM)	
	•					_					<u> </u>		
Well on Li	ine:	Started		20 at		(AM) (PM)	laken		20	at	(A	M) (PM)	
					OBSERVE	D SURFAC	E DATA			Duration of Shu	ıt-in <u>2</u> 4	Hour	
Static / Orifice Dynamic Size Property (inches		I Mate	1	Flowing Temperature	Well Head	Casing Wellhead Pressure		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		. Duration	Liquid I	Liquid Produced (Barrels)	
		Prover Pre			Temperature t	(P _w) or (P _t) or (P _c) psig psia				(Hours)	(Ва		
Shut-In							84.4	psig	psia	24		-	
Flow							<u> </u>						
					FLOW STE	REAM ATTR	IBUTES						
Plate Coefficcient		Circle one: Meter or	Press		rity _	Tompomburo		viation Metered Flow				Flowing	
$(F_b)(F_p)$		Prover Pressure	Extension P _m x h	Fact	Factor		Factor F _{pv}		R (Mcfd)	(Cubic F Barre		Fluid Gravity	
Mcfd		psia	-		·	F _{ii}					G _m		
				(OPEN EL	OW) (DELIV	ERABILITY) CAI CIII	ATIONS	•				
P _c) ² =		: (P _w):	?=:	P _d =			, OALOOL P _c - 14.4) +		:		a) ² = 0.207 a) ² =	' 	
(P _c) ² - (P _a) ²		(P _e)² - (P _w)²	Choose formula 1 or 1. Pc2 - Pc2	2: LOG of	1 1 1		ssure Curve		ГЪ		Oper	Open Flow	
or (P _a) ² - (P _d) ²		('c' ('w'	2. P _c ² -P _d ²	formula 1. or 2.			pe = "n" - or cianad	n x LC	og	Antilog		erability I x Antilog	
(r _o) - (r	a) .		divided by: Pc2 - P	and divide by:	P.2. P.2	Assigned Standard Slop				·····	(Mefd)		
				:	•								
Open Flow Mcfd @ 14.65				.65 psia	psia Deliverability					Mcfd @ 14.65 p	sia		
The u	ındersig	ned authority,	on behalf of the	Company, s	tates that h	ne is duly au	uthorized to	o make the	above repor	rt and that he h	nas knowle	dge of	
e facts st	ated the	erein, and that	said report is tru	e and correct	t. Executed	this the _c	23	day of(July	-	20	13	
								Janie	& Ki	pleu '	KCC V	VICH	
		Witnes	s (if any)			=		1	Ford	empany /	JUL 2	5 201	
		For Co	mmission	······································		-			Chec	ked by	DE	CEIVE	

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 Sell A 2-3
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
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:
Signature:

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.