KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

·Type Te:	st:						(See Instru	uctions on Re	everse Sid	e)					
□ ∘	pen Flo	w													
Deliverabilty						Test Date: 3-9-//				API No. 15 15-071-20715 - <i>Ο</i> (γ)					
Company Horseshoe Operating, Inc.					_	Lease Edmun				Well Number 2-17					
County Greeley			Location C NE			Section 17		TWP 19S			/W)		Acres Attribute		
Field Bradshaw				Reservoir Chase				40W 640 Gas Gathering Connection DCP Midstream							
Completion Date 12/01/99			•				ck Total De	pth	n Packe		Set at	<u>. </u>	 -		
Casing Size				Weight 10.5			Diameter		Set at		None Perforations		То		
Tubing Size				Weight			4.052 Internal Diameter		2986 Set at		2884 Perforations		2890 To		
2.375 4.7 Type Completion (Describe)			1.995 Type Fluid Production				02								
Single Gas Producing Thru (Annulus / Tubing)				Water				Pump Unit or Traveling Plunger? Yes / No Yes							
Annulu:	s		nulus / Tubi 	ng)		% C	Carbon Diox	xide		% Nitrog	jèn	Gas G	ravity -	G,	
Vertical Depth(H) 2887				_	Pressure Taps Flange						(Meter	Run) (P	rover) Size		
Pressure	Buildu	p: :	Shut in	3-	-8 2	0 // at _(8:30	$\overline{}$	Taken	3-9	20	11 at 81.	20	(AM) (PM)	
Well on L	ine;		Started		2	0 at		_ (AM) (PM)	Taken		20	at		(AM) (PM)	
							OBSERV	ED SURFAC	E DATA			Duration of Shut	in_6	34 Hours	
Static / Dynamic Property	ımic Size		Circle one: Meter Prover Pressure		Pressure Differential In	Flowing Temperature t	Well Head Temperature	Wellhead	sing Pressure P _s) or (P _s)	Tubing Weithead Pressure (P _w) or (P _t) or (P _t)		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In			psig (Pm	,	Inches H ₂ 0			psig	65	pstg	psia	24	-		
Flow								<u> </u>	00	<u> </u>		07	 		
<u>-</u>						·	FLOW STI	REAM ATTR	IBUTES	<u> </u>	L	L, <u></u> ,,			
Plate Coefflecient (F _e) (F _p) Mcfd		Circh one: Meter or Prover Pressure psia		-	Press Extension	Grav Fact F ₀	or	Flowing Temperature Factor F _{t1}	Fa	lation ctor : pv	Metered Flor R (Mcfd)	w GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m	
(P _c) ² =								/ERABILITY	•				²= 0.2	207	
(P _o) ² - (P _a) ²		$ (P_w)^2 = \frac{(P_w)^2 - (P_w)^2}{(P_o)^2 - (P_w)^2} $		Choo	ee formula 1 or 2:	P _d = LOG of formula		% (P _e - 14 Backpressure (Slope = "n'			.oa []	(P _d)	OF	Open Flow Deliverability	
(P _e)*- (P	(_a) ²				e P.	1. or 2. and divide by:	P _c ²-P _w ²		signed ard Slope			- Indiag	1	(Mcfd)	
	_							-							
Open Flow	,				Mcfd @ 14.6	5 psia		Deliverab	ility		l	Mcfd @ 14.65 psi	L а		
					ehalf of the (0	make th	e above repo	nt and that he ha		ledge of	
			Witness	if erny)				-		anic	For	tempany f	RE	CEIVED	
•			For Comm	nission	1			_		·· <u>-</u>	Chec	cked by	JUN	1 1 0 2011	

KCC WICHITA

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 Edmun 2-17
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 dally rate in excess of 250 mct/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>Production Assistant</u>

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.