KCC WICHITA

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

Type Test	:				(	See Instruct	tions on Re	verse Side	)					
Op	en Flov	٧				_			ADI	No 45 4				
Deliverability					5:22-		API No. 15							
Company Horseshoe Operating, Inc.					Lease Edmun					4-17	Well Number 4-17			
County Greeley			Location C SW		Section 17		TWP 19S		RNG (E/W) 40W		Acres Attributed		ttributed	
Fleid Bradshaw			Reservoir . Winfield					Gas Gathering Connection DCP Midstream						
Completion Date 7/18/05			Plug Back Total Dep 2900				th	Packer Set at None						
Casing Size 4.5			Weight 10.5		Internal Diam 4.052		neter Set at 2926		Perforations 2862		то 2875			
	Tubing Size		Weight 4.7	Internal Dia		Diameter	ameter Set at 2900		Perforations 2879.		To 2885	то 2885		
Type Completion (E Single					Type Fluid Producti Water				Pump Unit or Traveling Plu Yes Rod			unger? Yes / No		
	Thru	(Anı	rulus / Tubing)			arbon Dioxi	de		% Nitrog		Gas G	ravity - C		
Annulus	-		-											
Vertical Depth(H) 2926			Pressure Taps Flange								(Meter Run) (Prover) Size 2"			
Pressure	Buildup	): :	Shut in5	-21 2	0/2 at /	1:46	(AM) (PM)	Taken	5-6	22 <sub>20</sub>	12 at 1:4	6.	AM) (PM)	
Well on L	ine:	,	Started	2	0 at	<del></del>	(AM) (PM)	Taken	• .	20	at	(	AM) (PM)	
					1	OBSERVE	D SURFAC				Duration of Shut	1-In 2	4_Hours	
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Pressure		lemperature tempera		Wellhead Pressure $(P_w) \propto (P_1) \propto (P_0)$		Tubing Wellhead Pressure $(P_w) \text{ or } (P_t) \text{ or } (P_a)$		Duration (Hours)		d Produced .	
Shut-In	Shut-In		psig (Pm)	Inches H <sub>2</sub> 0			psig	80.5	psig	psla	. 24			
Flow														
						FLOW STR	REAM ATTR	IBUTES		<b></b>	<del></del>			
Plate Coefflecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure pala		Press Extension	Grav Fac	etor 1	Flowing Temperature Factor F <sub>II</sub>	mperature Fa		Metered Flo R . (McId)	w GOR (Cubic F Barre	eet/	Flowing Fluid Gravity G <sub>m</sub>	
	]				<u> </u>									
(P <sub>a</sub> ) <sup>2</sup> =		:	(P <sub>w</sub> )² =_	:	(OPEN FL	OW) (DELIV		) CALCUI 2 - 14.4) +		;		) <sup>2</sup> = 0.2 <sub>1</sub> ) <sup>2</sup> =	07	
(P <sub>a</sub> ) <sup>2</sup> - (I	P_)²	(F	P <sub>e</sub> )2 - (P <sub>e</sub> )2	1. P <sub>0</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup> 2. P <sub>a</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup> ded by: P <sub>a</sub> <sup>2</sup> -P <sub>a</sub>	LOG of formula 1, or 2, and divide		Backpress Slope		9 n x	roe	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
			CA	-was sy, t <sub>g</sub> - F <sub>g</sub>		<del></del>								
				14464	05 mala		D-0		l,	· · · · · · · · · · · · · · · · · · ·	Model 60 14 00 -			
Open Flo				Mcfd @ 14			Deliverat				Mcfd @ 14.65 p			
		-	d authority, on n, and that said					ithorized	to make the	he above rep	ort and that he h		ledge of 20 12 12 12 12 12 12 12 12 12 12 12 12 12	
•			Witness (if a	nv)				9	mice	Ripl	Constant	RI	<del>CEIVE</del> r	
							_	U						
			For Commiss	ion			-			Chi	ecked by	וטר	V 2 5 201	

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	r penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
and that the forego	oing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records
• •	lation and/or upon type of completion or upon use being made of the gas well herein named.  St a one-year exemption from open flow testing for the Edmun 4-17
gas well on the gro	unds that said well:
I further agree staff as necessary	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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: 6-22-	Signature: <u>Janice 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.