KCC WICHITA

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

Type Test:				(See	Instruct	ions on Re	verse Side	)					
Open	Flow			Test Date:				API N	Jo 15				
Delive	rabilty			1-6-12				API No. 15 071-20796-00-00					
Company Horsesho	е Оре	erating, Inc		, , , , , , , , , , , , , , , , , , , ,		Lease Clift A				3-33	Well Nu	mber	
County Location Greeley C NE				Section 33		TWP 18S		RNG (E/W) 40W		,	Acres Attributed		
Field Bradshaw				Reservoir Winfield			******	Gas Gathering Connection DCP Midstream					
Completion Date 9/29/04				Plug Back Total Depth 2904				Packer Set at					
Casing Size Weight			Internal Dian	neter	Set at 2912		Perforations		To	To 2887-91			
1.5 Tubing Size	ubing Size Weight			4.052	neter	Set at		2869-83 Perforations		To			
2.375 4.7 Type Completion (Describe)				2.000 2870 Type Fluid Production			0	Pump Unit or Traveling Plunger? Yes / No					
Single	·	nulus / Tubing	A	Water	on Dłoxie			% Nitroge	<u> </u>	Gas Gr	avity . G	<u> </u>	
		maids / fability		a Calu				)e restruge			_		
Vertical Dept 2960	th(H)				Press	sure Taps				(Mater i	Run) (Pi	rover) Size	
Pressure Bu	ildup:	Shut in	1-5 20	12 at 8.	00	(PM)	Taken	/-	6 20,	12 at 8:0	0 (	AM) (PM)	
Well on Line:	:	Started	20	at		(AM) (PM)	Taken		20	at	(	AM) (PM)	
				OI	SERVE	D SURFACI	E DATA			Duration of Shut-	in <u>2</u>	4 Hours	
Dynamic	Orlfice Size	Meter Differentia		Flowing Well Hea		Walihaad Praggina		Tubing Wellhead Pressure (P, ) or (P, ) or (P, )		Ouration (Hours)	Liquid Produced (Barrels)		
Property (I	nches)	psig (Pm)	Inches H <sub>2</sub> 0	*	t	psig	psia	psig	psia	011	ļ		
Flow					-		90			24	_		
		<u> </u>	<u>i                                     </u>	FL	OW STR	EAM ATTR	IBUTES	L	<u></u>		<u> </u>		
Plate Coeffieclent (F <sub>e</sub> ) (F <sub>p</sub> ) Mcfd		Circle one:  Meter or  Prover Pressure  psia  Press Extension  ✓ P <sub>m</sub> x h		Gravity Factor F <sub>e</sub>		Temperature F		relation Metered Flow Factor R F <sub>pv</sub> (Mcfd)		W GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
· · · · · · · · · · · · · · · · · · ·	<u> </u>	i		(OPEN FLOW)	(DELIVI	FRABILITY	CALCUL	ATIONS					
)² =	<u>_:</u> _	(P_)² =	<del></del> :	P <sub>d</sub> =	9		- 14.4) +		:	(P <sub>a</sub> ) (P <sub>d</sub> )	<sup>2</sup> = 0.2	07 	
$(P_c)^2 \cdot (P_a)^2$ or $(P_c)^2 \cdot (P_a)^2$	(F	$(P_c)^2 - (P_w)^2$ Choose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_a^2$ divided by: $P_c^2 - P_w^2$		LOG of formula 1. or 2. and divide by:  p 2. p 2		Backpressure Curv Slope = "n" or Assigned Standard Slope		n x Le	.00.	Antllog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
·						_							
Open Flow			Mcfd @ 14.6	5 neia		Deliverab	sility			Mcfd @ 14.65 ps	ia		
	ersiane	d authority on			s that he			o make the		rt, and that he ha		ledge of	
		_	id report is true			-	26_	<u> </u>	Marc	h		20 <u>12</u> .	
							$(\mathcal{M})$	mcl	MU	cey_			
		Witness (If	алу)	•		_			V For C	yombady		RECEIV	

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<i>1</i> *	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 Clift A 3-33
	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: 3-26-12
	Signature: Janice Ripley
	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.