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

Type Test:	(-	See Instructions	on Reverse Side	e)				
Open Flow Deliverabilty	Test Date				lo. 15 20617-00-0	0		
Company Horseshoe Operating, Inc.		Le	ease lickelson			<del></del>	Well Number	
County Location Greeley C NE	n Section 4		WP 20S	RNG (E/W	/)		Acres Attributed	
Field Bradshaw	Reservoir Winfield		-	Gas Gathe	ering Conne Istream	ction	· · · · · · · · · · · · · · · · · · ·	
Completion Date 2-16-1994	Plug Back 2830	k Total Depth		Packer Set at None				
Casing Size Weight 1.5 10.5	Internal D 4.052	iameter	Set at 2830			то 2809		
Tubing Size Weight 2.375 4.7	Internal D 1.995	Diameter	Set at 2820	Perforations		То		
Type Completion (Describe) Single - Gas	Type Fluid Water	d Production			or Traveling Init - Rod	Plunger? Yes	/ No	
Producing Thru (Annulus / Tubing) Annulus	% C	arbon Dioxide		% Nitrogei	n .	Gas Gr	avity - G <sub>g</sub>	
Vertical Depth(H)			sure Taps ge			(Meter Run) (Prover) Size 2"		
Pressure Buildup: Shut in	-2 2014at_		(PM) Taken	4-3	320 &		O (AM) (PM)	
Well on Line: Started	20 at	(AM	l) (PM) Taken		20 .	at	(AM) (PM)	
Maranas and the second		OBSERVED SU	JRFACE DATA		1	Duration of Shut-	in_24 Hours	
Static / Orifice Circle one:  Ornamic Size Meter  Property (inches) Prover Pressure psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0  Flowing Temperature t	t (F	Casing Velihead Pressure P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )	Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In .150	THORSE TY20	F	psig psia 46	psig	psia	24		
Flow								
		FLOW STREAM	ATTRIBUTES	<del></del>		<del></del>	-	
Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd  Circle one:  Meter or Prover Pressure psia	fflecient Meter or Extension Factor  (Fp) Prover Pressure P_xh  Factor		Flowing Temperature Factor Fig.  Temperature Factor Fig. Fig.		ctor R		Flowing et/ Fluid Gravity G_m	
,		Ā						
P <sub>c</sub> ) <sup>2</sup> =: (P <sub>w</sub> ) <sup>2</sup> =	(OPEN FLC	OW) (DELIVERA %	BILITY) CALCUL (P <sub>c</sub> - 14.4) +		· · ·	(P <sub>a</sub> ) <sup>2</sup> (P <sub>d</sub> ) <sup>2</sup>	? = 0.207 ? =	
$(P_c)^2 - (P_a)^2$ $(P_c)^2 - (P_w)^2$ Cho or $(P_c)^2 - (P_d)^2$	1. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> ded by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> LOG of formula 1. or 2. and divide by:		Backpressure Curve Slope = "n" or Assigned Standard Slope	nxiO	og [	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
			<i>y</i> .					
	N-14 @ 44.05	·					<u></u>	
Open Flow	Mcfd @ 14.65 psia		eliverability	· · ·		fcfd @ 14.65 psi	<del></del>	
The undersigned authority, on b			<b>→</b>	<i>\</i>	above report	t and that he ha	s knowledge of	
e facts stated therein, and that said Augus and belt save to give the			the	day of L	il Ri	pleir	ANSAS CORPORATION	
Witness (if an				1	For Co	pany /	OCT 02 2	

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 Nickelson 1  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
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.

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