KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:	:					(See Ins	tructi	ions on Re	verse Side	?)						
Op	en Flov	N				Test Date	·:				API	No. 15					
✓ Deliverabilty					06/08/2014 to 06/13/2014					API No. 15 071–20269 <i>– 0000</i>							
Company		Но	rseshoe	OI	peratin	g, Inc	•		Lease Roe		-				Well Nu	ımber	
County Location Greeley C SE SW 1/4				Section 29				TWP 17S		RNG (E/W) 40W			Acres	Attributed			
					Reservoir Winfield	Reservoir Winfield				Gas Gathering Connection DCP Midstream							
Completion Date 8/31/82					Plug Bac 3035	Plug Back Total Depth 3035				Packer S	Set at						
				Internal D	Internal Diameter 4			Set at 3032		rations 1		то 2962					
				Internal I	Internal Diameter 1.995			Set at 2929		Perforations			То				
						Type Fluid Production Salt Water				Pump Unit or Traveling Plunger? Yes / No Pumping Unit							
Producing Thru (Annulus / Tubing)						% C	% Carbon Dioxide					% Nitrogen Gas Gravity - G					
Annulus																	
									(Meter 2 inch		rover) Size						
Pressure	Buildu	p: §	Shut in _06/	08	2	0_14_at_4	30 PN	1	(AM) (PM)	Taken_06	6/13	20	14 at	3:30 P	M	(AM) (PM)	
Well on Li	ine:	;	Started		20	0 at			(AM) (PM)	Taken		20	at			(AM) (PM)	
							OBSE	RVE	D SURFAC	E DATA			Duratio	n of Shut	in_11	9Hour	
Static / Dynamic			Meter		Pressure Differential	Flowing Well He Temperature Tempera			ture Wellhead Pressure		Tubing Wellhead Pressure		Duration (Hours)		Liquid Produced		
Property (inch		Prover Press			in Inches H ₂ 0	t	t		(P _w) or (P _t) or (P _c) psig psia		psig	(P _w) or (P _t) or (P _c) psig psia		(Hours)		(Barrels)	
Shut-In									51	64.4			119	119			
Flow																	
				_			FLOW	STR	EAM ATTR	IBUTES						Т	
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia			Press Extension ✓ P _m x h	Gravity Factor F _g		Flowing Temperature Factor F _{f1}		Fa	iation actor - pv	Metered Flow R (Mcfd)	v	GOR (Cubic Fee Barrel)		Flowing Fluid Gravity G _m	
					2												
(P _c) ² =			(P _w) ² =			(OPEN FLO	OW) (DI	ELIVE) CALCUL 14.4) +				(P _a)	$0^2 = 0.2$	207	
c/	T		(w/	-	se formula 1 or 2:		Г	7	T	ssure Curve		г ¬		(0/	T	Fi	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		2	P _c ² - P _a ² P _c - P _d ² P _c by: P _c ² - P _d ²	LOG of formula 1. or 2. and divide by:		Slope o Assig		pe = "n" - or signed lard Slope	n x l	LOG	Ar	Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)	
					C W												
					l and	-				114 -	1,1						
Open Flov	W				Mcfd @ 14.	65 psia			Deliverab	oility			Mcfd @	14.65 ps	ia		
												ne above repo	ort and t	hat he ha			
ne facts st	tated th	nerei	n, and that s	aid r	report is true	and correc	t. Exec	uted	this the _2	8	day of O	. ()	in	2		20	
			Witness ((if any)			-	-		ani	CU /	mpany	J K	ANSAS O	Receive	
THE THE PROPERTY OF	7.2m2		For Comm	nissio	n				-	•		Che	cked by		M)V 1 n :	
															146	1	

	•
exempt status under Rule K.A.R. 82-3-304 and that the foregoing pressure informat correct to the best of my knowledge and be	der the laws of the state of Kansas that I am authorized to request 4 on behalf of the operator Horseshoe Operating, Inc. tion and statements contained on this application form are true and belief based upon available production summaries and lease records to of completion or upon use being made of the gas well herein named.
	on from open flow testing for the Roe #2
is on vacuum at the production is not capable of productions. □	
staff as necessary to corroborate this cla Date: 10/28/2014	im for exemption from testing.
	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.