KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:	:			(See Instruct	ions on Re	everse Side	9)				
Open Flow Test Date:					»:			API	No. 15			
√ Del	liverabilt	y 		05/20/20	13 to 05/24	1/2013		071	-20775 ~ 60	00		
ompany orsesh	, oe Ope	rating, Inc.			,	Lease Wear	•	. :		#2	Well Number	
County Location Greeley C NE 1/4				Section 30		TWP 17S		RNG (E/W) 40W			Acres Attributed	
Field Bradshaw			Reservoir Lower W	oer Ft. Rile	9y		hering Conne idstream	ection				
Completion Date P			Plug Bac 3034	Plug Back Total Depth				Set at				
Casing Size Weight			t	Internal Diameter		Set at 3034		Perforations 2918		то 2977		
ubing Size Weig		Weight			Diameter	Set 293	at Perfo		rations	То		
2.375 4.7 Type Completion (Describe)				Type Fluid Production Salt Water			Pump Unit or Traveling		g Plunger? Yes / No			
Single (Gas) Producing Thru (Annulus / Tubing)			1)	% Carbon Dioxide			% Nitrogen			Gas Gravity - G		
ubing	y • (
Vertical Depth(H) 2948				Pressure Taps Flange						(Meter 2 inc	Run) (Prover) Size	
	Buildup:	Shut in05/2	20 2	0 13 at 6		-	Taken 0	5/24	20	13 at 8:00 A	AM (AM) (PM)	
ell on L	.ine:	Started	2	0 at	 	(AM) (PM)	Taken		20	at	(AM) (PM)	
					OBSERVE	D SURFAC	E DATA			Duration of Shut	t-in 98 Hours	
tatic / Orifice		I	Temperature Temper		ature $(P_w) \text{ or } (P_t) \text{ or } (P_c)$		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration Liquid Produced (Hours) (Barrels)			
Shut-In		psig (Pm)	Inches H ₂ 0			psig 188	201.4	psig	psia	98	n/a	
Flow	,		:									
					FLOW STR	EAM ATT	RIBUTES					
Plate Coefficient (F _b) (F _p) Mcfd		Clicle one: Meter or Prover Pressure psia	Press Extension √ P _m x h	ension Facto		Flowing Temperature Factor F _{ft}		Deviation Meter Factor F _{pv} (I		W GOR Flowing (Cubic Feet/Barrel) Fluid Gravity G_m		
				(OPEN FL	OW) (DELIV	ERABILIT	Y) CALCUL	ATIONS		(P _a) ² = 0.207	
)² =		: (P _w) ² =		P _d =		% (P _c - 14.4) +	- 14.4 =	:	(P _d) ² =	
(P _c) ² - (or (P _c) ² - (- 1	(P _c) ² · (P _w) ²	Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_d$	LOG of formula 1. or 2. and divide	P.2-P.2	Sid A	essure Curve ope = "n" or ssigned dard Siope	l n x	rog	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
]	1.124			New Addition		
pen Fio			Mcfd @ 14	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	Delivera				Mcfd @ 14.65 ps		
								1	ne above repo une	ort and that he h	nas knowledge of	
e facts s	stated th	erein, and that sa	aid report is tru	e and correc	t. Executed	this the _		day of 2	in k	10001-	, 20 <u>13</u> . KCC WIC	
		Witness (i	f any)		.			Jane	CC ()	Company	JUL 05 2	
		For Comm	nission						Che	cked by		
											RECEIV	

	er 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.
	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
of equipment insta	llation and/or upon type of completion or upon use being made of the gas well herein named. est a one-year exemption from open flow testing for the
	ounds that said well:
	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: 06/04/13	
	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.