1/

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

:	t: en Flor liverab					•	See Instru			verse Sid	de)	853	6°25'-205	-00	000			
Rule C	Óil C	om	pany						Hêlwi	ck			<u> </u>		1	Well N	ımber	
Ellsworth E/2 NE NW			Section 32	section TWS			BNG (E/W)			v)	<del></del>		Acres	Attributed				
<sup>Eield</sup> Grubb	1	•		•	·	Reservoir Lee C	ompto	n			G R	s Gath	ering Conn Oil	ection	•		<del></del>	
Completion Date 2/27/78			Plug Back Total Depth					Packer Set at										
Casing Size Weight			Internal I	Internal Diameter			Set at 2727			Perforations 2274								
Tubing Size Weight 2.375"			Internal D	Internal Diameter Se			t Perforations					То						
Type Cor Single	npletion	ı (De	escribe)			Type Flui Salt W	d Producti ater	ion			Pui	mp Unit	t or Traveling	Plunge	er? Yes	/ No		
Producing Tubin	g Thru	(Anr	nulus / Tubin	g)		% C	arbon Dio	xide				Nitroge 4.100			Gas G .7792	ravity -	G <sub>o</sub>	
Vertical D	epth(H	)						essure	e Taps						(Meter 2"	Run) (F	rover) Size	
Pressure	Buildu	o:	11/ Shut in	/10	2	15 9 0 <u>at</u> at	:30 AM	(Al	M) (PM)	Taken_	1/11	l	20	15 a	9:30 A		(AM) (PM)	
Well on L	ine:	5	Started		20	) at	<del> </del>	_ (AI	M) (PM)	Taken_			20	a	t		(AM) (PM)	
		-					OBSERV	/ED S	SURFAC	E DATA				Duratio	on of Shut	-in	Hours	
Static / Dynamic Property	mamic Size		Meter Prover Pressure		Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperatur t	re l	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia			Wellhead	bing d Pressure P <sub>t</sub> ) or (P <sub>c</sub> ) psia	Duration (Hours)		Liquid Produced (Barrels)		
Shut-In	nut-In				•			1	35.6	150			puia	24				
Flow																		
			Circle one:	<del> </del>		1	FLOW ST			IBUTES		<u> </u>				-		
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Meter or Prover Pressure psia			Press Extension P <sub>m</sub> x h	Gravity Factor F <sub>e</sub>		Tem <sub>l</sub> F	Flowing Temperature Factor F <sub>rt</sub>		Deviation Factor F <sub>pv</sub>		Metered Flow R (Mcfd)	v	GOR (Cubic Fee Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
			<del></del>							1								
(P <sub>c</sub> )² =		-:	(P <sub>w</sub> ) <sup>2</sup> =	<b>-</b>	:	(OPEN FLO		IVER. _%		) CALCU 2 - 14.4)			:			) <sup>2</sup> = 0.2 ) <sup>2</sup> =	207	
$(P_o)^2 - (P_n)^2$ or $(P_o)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		Choose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_a^2$		LOG of formula 1. or 2. and divide by:			Backpressure Curve Slope = "n" or Assigned Standard Stope			n x LOG			Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flo	NA)				Mcfd @ 14.	35 nele			Deliverab	sility				Mefd @	2 14.65 ps	la .		
The	undersi	-	I authority, o	on be	ehalf of the	Company, s	t. Execute	he is	s duly at	uthorized 3th	to m	De	above repo ecember	ort and	•		rledge of 15 .	
_			Witness	(if any)	)				1 2016		<u>د</u>	ZU	Dien .	Company	rnli	<del>-</del> -1	Dumper	
			For Com-	miceire	<u> </u>				EIVE				Cha	ntiad his			<del>.</del>	

	ler penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Rule Oil Company
	going pressure information and statements contained on this application form are true and
correct to the bes	t of my knowledge and belief based upon available production summaries and lease records
	allation and/or upon type of completion or upon use being made of the gas well herein named.  Helwick #1  est a one-year exemption from open flow testing for the
	ounds that said well:
(Check	cone)
	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
_	e to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
	Signature: Contract Pumper  JAN 2 1 2016

## 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.