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

Type Test	:				(-	See Instruct	ions on Reve	erse Side	)					
□ Ор	en Flo	N			Test Date				A DI	No 1E				
✓ Deliverabilty				12/10/20	-		API No. 15 055-00186-0000							
Company Discover		ural	Resources	LC			Lease Zirkle				1-24	Well Nu	ımber	
County Location Finney C-NW/4				Section 24		TWP 21S		RNG (E/W) 33W		Acres Attributed 546		Attributed		
Field Hugoton	ı				Reservoir Chase (Krider)				Gas Gathering Conne OneOk		ection			
Completic 4/16/196		е			Plug Back 2690	k Total Dept	h		Packer S	et at				
Casing S 4-1/2	ize		Weight 9.5		Internal Diameter		Set at <b>269</b> 5		Perforations 2634		то 2638			
Tubing Si	iz <del>e</del>		Weight		Internal Diameter		Set at		Perforations 2664		то 2686			
Type Completion (Describe) Gas Well					Type Flui Water	Type Fluid Production Water			Pump Ur Yes	it or Traveling	Plunger? Yes	/ No	_	
Producing	g Thru	(Anı	nulus / Tubing	)		arbon Dioxi	de		% Nitrog	en ,	Gas Gravity - G			
Annulus Vertical Depth(H)				0.02	0.02 Pressure Taps			43.48		0.783 (Meter Run) (Prover) Size				
Vertical L	epth(F	1)				Press	sure laps				(Meter i	dun) (P	rover) Size	
Pressure	Buildu	p:	Shut in	0 2	0_14_at_1	2:40PM	(AM) (PM)	Taken 12	2/11	20	14 at 12:40F	PM_	(AM) (PM)	
Well on L	.ine:		Started	2	0 at		(AM) (PM)	Taken		20	at		(AM) (PM)	
					1	OBSERVE	D SURFACE	DATA		<del></del>	Duration of Shut-	in_48	Hours	
Static / Dynamic Property	amic Size		Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	lemperature lemperati		Wollhood Proceura		Tubing Wellhead Pressure $(P_w)$ or $(P_l)$ or $(P_c)$ psig psia		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In			7-13 (111)	ineves 1.5c			80	psia	psig	psia	48			
Flow														
	-				1	FLOW STR	EAM ATTRI	BUTES						
Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Pro	Circle one: Meter or over Pressure psia	Press Extension  P <sub>m</sub> x h	Gravity Factor F <sub>g</sub>		Temperature Fa		riation Metered Flor actor R F <sub>pv</sub> (Mcfd)		W GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
						ļ.		J					,	
					•		ERABILITY)		_			² = 0.2	207	
(P <sub>c</sub> ) <sup>2</sup> =		<u>-:</u>		Choose formula 1 or 2	P <sub>d</sub> =		1	- 14.4) +		<del></del> :	(P <sub>d</sub> )	<sup>2</sup> =		
$(P_c)^2 - (P_u)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>o</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		1. P <sub>c</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide	formula 1. or 2.		Backpressure Curve Slope = "n"or Assigned		LOG	Antilog	De	Open Flow Deliverability Equals R x Antilog	
				divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub>	2 by:	<u>'</u> ° '*	Standa	rd Slope		L J			(Mcfd)	
Open Flo	w	Mcfd @ 14.65 psia					Deliverability			Mcfd @ 14.65 psia				
		-	•	behalf of the	e and correc	t. Executed		st	$\sim$	ne above repo	ort and that he ha	_	vledge of 20 <u>14</u> .	
	-		Witness (i	any)			0 5 2015			For	Company			
			For Comm	ssion	,	<u> </u>	o J ZUI	J	<del></del>	Che	cked by			

CONSERVATION DIVISION WICHITA, KS

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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 Discovery Natural Resources LLC 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 Zirkle 1-24 gas well on the grounds that said well:	
gas well on the grounds 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  I further agree to supply to the best of my ability any and all supporting documents deemed by Commissistaff as necessary to corroborate this claim for exemption from testing.	on ,
Date: December 21, 2014	
Received KANSAS CORPORATION COMMISSION  JAN 0 5 2015  CONSERVATION DIVISION WICHITA, KS  Regulatory Specialist	

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.