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

Type Test			•		(	See Instruct	ions on Re	verse Sid	e)					
☐ Open Flow  Test Date:  5/21/2013							API No. 15 15-199-20360 <b>- 4000</b>							
Company Raven Resources, LLC							Lease Well Number Nelson #2-26						umber	
County Location Wallace County NE/4 NE/4					Section 26			TWP RNG (E/W) 11S 42W		W)		Acres	Attributed	
Field					Reservoir Niobrara			***			ection(West	t Kansas Pipeli System		
Completion Date 8/2008					Plug Bac 1242.13	k Total Dept	th		Packer S	Set at	, KEVING	193	TCP1	
Casing Size 4 1/2"			Weigh 10.5	t	Internal Diameter		Set : 128	at 4.17'		rations 4'-1100'	То			
Tubing Size 2 3/8"			Weight 4.7		Internal Diameter		Set : 106				То			
Type Cor CO2 Fr				Type Fluid Producti Only Gas			Pump Unit or Traveling No			Plunger? Y	es No			
Producing Thru (Annulus Tubing) Tubing					% Carbon Dioxide				% Nitrogen Gas Gravity - G <sub>g</sub>					
Vertical D	Depth(H	1)				Pres	sure Taps				(Met .50		Prover) Size	
Pressure	Buildu	<b>D</b> : 3	Shut in 5/20	)	13 at 8	:00	(PM)	Taken_5	/21	20	13 at 8:00	) (	(AM) (PM)	
Well on Line: Started 5/21 20 13 at 8:00								Taken 5			13 at 8:00		(AM) (PM)	
						OBSERVE	D SURFAC	E DATA			Duration of Si	nut-in 24	Hours	
Static / Dynamic Property	mic Size		Meter Pressurpsig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Well Head Temperature t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$ psig psia		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	Shut-In .250		15.9	0	87.9		psig 4	psia	4	рыа	24	0	0	
Flow .250		)	13.2	1.5	66.4		1		1		24	0	0	
				4.46		FLOW STR	EAM ATTF	RIBUTES					<del>,</del>	
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P <sub>m</sub> x h	Grav Fac F	tor	Flowing Temperature Factor F <sub>f1</sub>		Factor		ered Flow GO R (Cubic (Mcfd) Barr		Flowing Fluid Gravity G <sub>m</sub>	
					(ODEN EL	0140 (DEL 04	EDADU ITY	0.001.001	LATIONS					
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> =	:	P <sub>d</sub> =	OW) (DELIV ^		P <sub>c</sub> - 14.4) -		:		$(P_a)^2 = 0.5$ $(P_d)^2 =$	207	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		Choose formula 1 or  1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_d^2$	1. P <sub>c</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup> LOG of formula 2. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup> 1. or 2. and divide		Slo  As	Backpressure Curve Slope = "n" or Assigned Standard Slope		LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mofd)		
Open Flo	low Mcfd @ 14.65 psia				Deliverability			Mcfd @ 14.65 psia						
		ianea	d authority, or		•	states that h			to make th		and that he		wledge of	
		_	·	id report is tru				12	day of	Ari 1	<i>y</i>	······································	20 13	
			Witness (i	anv)				Du	rol.		Company	KCC	WICHITA	
												-1111	<del>2 9 201</del> 3	
			For Comm	ISSION						Che	cked by	JUL		

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 Raven 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 Nelson #2-26 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
staff as necessary to corroborate this claim for exemption from testing.  Date: 2/12/13
Signature: And Signature: Title:

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.

JUL 29 2013