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

Type Test:			•	را	see msnuch	ions on Heve	rise side	,					
Ope	n Flow	*		Toot Date				ADI	NI2 45				
I / Dolivorobilty					Test Date: July 25, 2014				API No. 15 15-199-20360 <b>- 000</b>				
Company Raven Resources, LLC				Lease <b>Nelson</b>				,		#2-26	Well Number #2-26		
County Location Wallace County NE/4 NE/4			Section 26		TWP 11S		RNG (E/W) 42W		Acres Attributed		∍d		
				Reservoir Niobrara			Gas Gathering Connection Closed Gathering System (West Kansas Pipeline)						
Completion Date 8/2008				Plug Back Total Depth 1242.13'			Packer Set at						
Casing Size Weight 4 1/2" 10.5			t	Internal D	iameter	Set at 1248.17'		,	Perforations 1074'		To 1100'		
Tubing Size Weight 2 3/8" 4.7			Internal Diameter Set at 1061'				Perforations		То				
				Type Fluid Production Only Gas			Pump Unit or Traveling Plunger? Yes / No			•			
Producing Tubing	Thru (Ar	nnulus (Tubing		% C	arbon Dioxi	de		% Nitrog	en .	Gas Gr	avity - G <sub>g</sub>	•	
Vertical Depth(H) 1295'					Pressure Taps			(Meter Run) (Prover) Size			Size		
Pressure E	Buildup:		/ 2 20	14 at 10	0:30	(AM) (PM)	Taken_Ju	ly 23	20	14 at 10:30	(AM) (P	·M)	
Well on Lir	ne:	Started July	/ <del>2</del> 3 20	14 at 10	0:30	(AN) (PM)			20	14 at 10:30	(AM) (P	PM)	
		· · · · · · · · · · · · · · · · · · ·			OBSERVE	D SURFACE	DATA -			Duration of Shut-	<sub>in</sub> 504	Hour	
Static / Orifice Dynamic Size Property (inches)		Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Well Head Temperature t t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure $(P_w) \text{ or } (P_1) \text{ or } (P_c)$		Duration (Hours)	Liquid Produ (Barrels)	ıced	
Shut-In	.2500	17.3	0		90	psig 3	psia	psig 3	psia	504	0		
Flow	.2500	16.7	1 '		90	2	,	2		48	0		
			······································		FLOW STR	EAM ATTRI	BUTES			-			
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or rover Pressure psia	Press Extension ✓ P <sub>m</sub> x h	Gravity Factor F <sub>g</sub>		Flowing emperature Factor F <sub>11</sub> Deviation		ctor '	Metered Flov R (Mcfd)	w GOR (Cubic Fe Barrel)	l Grav	ıid vity	
	· .						, .		·				
(P <sub>c</sub> )² =		(P <sub>w</sub> ) <sup>2</sup> =		(OPEN FLO		ERABILITY) % (P.				(P <sub>a</sub> )	<sup>2</sup> = 0.207	1	
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>c</sub> )	"	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2:  1. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide p 2 p 2 p 2		Backpressure Curve Slope = "n"		e n x LOG		Antilog	Open Flow Deliverabil Equals R x A (Mcfd)	lity	
-					<u> </u>								
Open Flow	v '			Deliverability Mcfd @ 14.65 psia					a				
The u	ndersigne	ed authority, or	n behalf of the	Company, s	•		horized t	o make th	e above repo	ort and that he ha	s knowledge	of	
he facts sta	ated ther	ein, and that sa	aid report is true	and correct	RECI URUPANS EL	EIVED AMENICOMM	SSIØN	day of S	ptember	1		··	
<u>:</u>		Witness (i	if any)		SEP 2	2 9 2014,		M	For	Company	3 1.		
<u> </u>	<u> </u>	For Comm	nission			ATION DIVISIO HITA, KS	N		Che	cked by		· 	

I declare under penalty of perjury under the laws of the state exempt status under Rule K.A.R. 82-3-304 on behalf of the operator									
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 availab									
of equipment installation and/or upon type of completion or upon us	, <del>-</del>								
I hereby request a one-year exemption from open flow testing f	or the Neison #2-20A								
gas well on the grounds that said well:									
(0)									
(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 oi	l reservoir undergoing ER								
is on vacuum at the present time, KCC approval	Docket No								
is not capable of producing at a daily rate in ex	cess of 250 mcf/D								
I further agree to supply to the best of my ability any and all su	upporting documents deemed by Commission								
staff as necessary to corroborate this claim for exemption from te	sting.								
Date: September 24, 2014	•								
Date: Geptember 24, 2014									
	•								
	4								
$\left( \cdot \right)_{\ell_{\ell}}$									
Signature: _&									
Title: Managing N	Member, Raven Resources, LLC								

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OKANSAS CORPORATION COMMISSION

SEP 2 9 2014

CONSERVATION DIVISION WICHITA, KS

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.