## Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	t:			(-	See Instruct	ions on Reve	erse Side	)					
Op	en Flow			Test Date			,	A DI	No. 15			•	
<b>√</b> De	liverabilty			July 25,					199-20361 <b>~</b>	0000	•		
Company Raven R	/ Resource	s, LLC		•	,	Lease Gebhard	3	-114a1-		#1-36	Well Nun	nber	
County Wallace	County	Location		Section 3 <b>6</b>		TWP 11S		RNG (E/	W)		Acres A	tributed	
Field				Reservoir Niobrara					hering Conne Gathering S	ection System (West I	Kansas	Pipeline	
Completion 8/2008	on Date			Plug Back 1120.16	k Total Dept	h		Packer S	Set at				
Casing S 4 1/2"	iize	Weight 10.5		Internal D	Diameter	Set at 1162		Perfo 930	rations	то 962'	· ·		
Tubing Si 2 3/8"	ize	Weight 4.7		Internal D	Diameter	Set at 916.2		Perfo	rations	То			
	npletion (I	Describe) gle Gas"		Type Flui	d Production			Pump Ur	nit or Traveling	Plunger? Yes	(No)		
		nnulus / Tubing)			arbon Dioxi	de		% Nitrog	en	Gas Gr	avity - G	9	
Vertical E	Depth(H)			•	Pres	sure Taps		•		(Meter I	Run) (Pr	over) Size	
Pressure	Buildup:	Shut in July	2 20	14 at 8	:20	(A <b>M</b> ) (PM)	<sub>raken</sub> Ju	ly 23	20	14 <sub>at</sub> 8:20	- C	AM)(PM)	
Well on L	.ine:	Started July		14 at 8	· · ·	(PM)				14 at 8:20	, ,	AM) PM)	
					OBSERVE	D SURFACE	DATA	,		Duration of Shut-	<sub>in</sub> _504	Hours	
Static / Dynamic Property	Orifice Size (inches)	Size Prover Pressure in		Flowing Temperature t  Flowing  Temperature t		Casing Wellhead Pressure $(P_w)$ or $(P_1)$ or $(P_c)$		Tubing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	.250	20.8	0		90	psig 6	psia	psig 6	psia	504	0		
Flow	.250	17.1	6.8		90	4 .		4		48	0		
		*			FLOW STR	EAM ATTRI	BUTES						
Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> )		Circle ane: Meter or rover Pressure psia	Press Extension P <sub>m</sub> x h	ension Fact		or Temperature		ation ctor pv	Metered Flow R (Mcfd)	y GOR (Cubic Fe Barrel)	,	Flowing Fluid Gravity G <sub>m</sub>	
	·								•				
(P <sub>c</sub> ) <sup>2</sup> =	:	(P <sub>w</sub> ) <sup>2</sup> =_	:	(OPEN FLO		ERABILITY)	CALCUL - 14.4) +		•	(P <sub>a</sub> ) (P <sub>d</sub> )	² = 0.20	)7 .	
(P <sub>c</sub> ) <sup>2</sup> - (	•	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	hoose formula 1 or 2: 1. $P_c^2 \cdot P_a^2$ 2. $P_c^2 \cdot P_d^2$ vided by: $P_c^2 \cdot P_a^2$	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Backpressure Curve Slope = "n"				Open Antilog Equals R		en Flow verability R x Antilog Mcfd)	
		· .											
Open Flow Mcfd @ 14.6				5 psia Deliverability			Mcfd @ 14.65 psia						
The	undersign	ed authority, on	behalf of the	Company, s	states that h	e is duly aut	horized to		-	rt and that he ha	s knowl	edge of	
the facts s	stated ther	ein, and that sai	d report is true		R	ECFIVED		day of $\frac{S}{}$	eptember			ó <u>14</u> .	
		Witness (if a	any)	KAN	ISAS CORPO	DRATION COM	MISSER	com	) For C	Company		·	
-		For Commis	sion		SEP	2 9 2014			Chec	cked by			

	enalty of perjury i	under the laws	of the state of	of Kansas tha	t I am authorize	ed to request
exempt status under R	tule K.A.R. 82-3-3	04 on behalf of	the operator_	Raven Resou	rces, LLC	
and that the foregoing	, pressure inform	ation and stat	ements conta	ined on this a	pplication form	are true and
correct to the best of n	າy knowledge and	d belief based t	upon available	e production s	ummaries and l	ease records
of equipment installation				<del>-</del>	<del>-</del>	erein named.
I hereby request a	one-year exemp	tion from open	flow testing fo	or the _Gebhar	rds #1-36	· · · · · · · · · · · · · · · · · · ·
gas well on the ground	ds that said well:					
(0)					•	
(Check one	) a coalbed methan	o producor	•			•
·	cycled on plunger	•	۵r		•	
	a source of natura			reservoir und	eraoina ER	* * * * * * * * * * * * * * * * * * * *
	on vacuum at the	•		•	orgoing Err	•
	not capable of pro		h		·f/D	
		,	,	333 31 200 III	, , , , , , , , , , , , , , , , , , ,	
I further agree to	supply to the bes	t of my ability a	any and all su	pporting docu	ments deemed	by Commission
staff as necessary to						
					,	•
Date: 9/24/2014	•		,		•	,
Dutc	4			•		
	•					
A Company of the Company of the Company	•					
				-015		•
	* .				\ <i>\</i>	,
	•	Signature:	han	11	$\Rightarrow \!\!\!\!/ =$	

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.

RECEIVED RANSAS CORPORATION COMMISSION SEP 2 9 2014 CONSERVATION DIVISION WICHITA, KS