KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes					, (See Instruc	ctions on Rev	rerse Side	r)					
Open Flow✓ Deliverabilty					Test Date:				API No. 15					
				~	12/1/20	09			15-	199-20359				
Company Raven Resources, LLC				Lease Nelson						Well Number #1-26A				
County Location Wallace County SW/4 SE/4				Section 26		TWP 11S	RNG (E/W) 42W			Acres Attributed				
Field					Reservoir Niobrara			Gas Gathering Connection Closed gathering system (West Kansas Pipeli						
Completi 8/2008	on Da	te			Plug Bac 1221.15	k Total Der	oth		Packer S	Set at				
Casing S 4 1/2"	Size		Weigi 10.5	nt	Internal [Diameter				rations 8' - 1090'	То			
Tubing Size Weight 2 3/8" 4.7				Internal [Diameter	Set a 1047		Perfo	rations	То				
Type Cor		n (D	escribe)	<u> </u>	Type Flui	d Production			Pump U		Plunger? Yes	No)	
Producin	g Thru	(An	nulus / Tubin	g)	% C	Carbon Diox	kide		% Nitrog		Gas Gr	avity - (3_	
Tubing												,	9	
Vertical I	Depth(I	⊣)				Pres	ssure Taps				(Meter F .500"	Run) (P	rover) Size	
Pressure	Buildu	:מו	Shut in 12-	1 2	09 at 1	1:00 am	_ (AM) (PM)	Taken 12	2-2	20	09 at 11:00 a	am į	(AM) (PM)	
Well on Line:			Started 12-				(AM) (PM)				09 at 11:00 a		(AM) (PM)	
						OBSERVE	ED SURFACE	DATA	******		Duration of Shut-	. 24	Hours	
Static / Orifice			Circle one:	Pressure Differential	Flowing	Well Head	Head Casin			fubing ad Pressure	Duration	Liquid Produced		
Dynamic Size Property (inches			Prover Presso psig (Pm)		Temperature Temperatu		Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		(P _w) or (P ₁) or (P _c)		(Hours)	(Barrels)		
Shut-In	Shut-In .500"		15.1	0			4		4		24	0		
Flow .500"		16	2			1		1		24	0			
<u> </u>	ı			Τ.	Т	FLOW ST	REAM ATTRI	BUTES			-		· · · · · · · · · · · · · · · · · · ·	
Plate Coeffiecient			Circle one: Meter or	Press Extension	Grav	- 1	Flowing Temperature	emnerature Dev		Metered Flov	l l		Flowing Fluid	
$(F_{b})(F_{p})$		Pro	over Pressure	✓ P _m x h	Factor F _a		Factor		actor R F _{pv} (Mcfd)		(Cubic Fee Barrel)	et/	Gravity	
Mcfd			psia —————	,,,,		·	F _{ft}						G _m	
					(ODEN EL	2140 (DELA	/FD4511 1800							
(P _c) ² =			(P \2 -	:	•	, ,	/ERABILITY)					= 0.2	07	
				Choose formula 1 or 2	P _a =			- 14.4) +		<u>.</u>	(P _d) ²			
(P _c) ² - (I	- 1	(F	P _c) ² - (P _w) ²	1. P _c ² -P _a ²	LOG of formula		Stope	sure Curve e = "n"	l n x i	_og			en Flow verability	
or (P _c) ² - (P _d) ²				2. P _c ² -P _d ²	1. or 2.		P 2 Assigned		1		Antilog	Equals R x Antilog (Mcfd)		
				divided by: P _c ² - P _w ²	by:		Standa	rd Slope					Wicia)	
									+					
Open Flo	w			Mcfd @ 14.	55 psia	· ·	Deliverabil	ity			Mcfd @ 14.65 psia	a		
The i	unders	igned	d authority, o	n behalf of the	Company, s	tates that h	ne is duly aut	horized to	make th		rt and that he has		edge of	
													_	
					KANS	RECE IS CORPORA	EIVED TION COMM <u>IS</u> S	SION						
			Witness (i	any)						For C	ompany			
			For Comm	ission		-way z	0 2010 —			Chec	ked by			

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				6	See Instruct	lans on Reve	rse Side)				
[] Ор	en Flor	#			To es Outo				ADI	45- 4F			
Del	liverab	illy			Test Date	:			API	No. 15			
Company				Lease				The market managed with	- Charles and the second second	1	Well Number		
County			Location	·	Section		Nelson TWP		RNG (EA	An		1-26A Acres Attributed	
Wallace			26		115			w		10100 1 111100100			
Field					Reservoir	**********				ering Conn	ection		
					Nich	tary					e d Sha mah		
Completic		6	, and a second s		Plug Baci	Total Dept	h		Packer S	et at			
8-1-	~ ~					1.15							
Casing Si	ize //		Weight		Internal C	liameter	Set at		Perior	ations	To		
4"/2" /0.5" Tubing Size Weight			Internal F	ismeter	Set at	5./3	Perior	etions	-1090	Kanasamatan aya aya aya a			
23/8			4.7		initial solution	Internal Diameter Set			7058'-1090' Perforations To				
Type Con) (De		ggran:. reinischen ausentere	Type Fluid	Production		1.54°	Pump Un	it or Traveling	Plunger? Yes	1/19	
COZ	FA	مد								_	_		
	Thru	(Anr	iulus / Tubing)			arbon Dioxi	de		% Nitroge	an .	Gas Gn	avity - G _g	
Vertical D	epih(H	()		andropus Morgaethyrina is, vige Maudineston o		Pres	sure Taps			erandjo arma erandanamana erandana	,	Run) (Prover) Size	
Pressure		n- :	Shut in 12	/ 2	0 69 at	11:00	ruktān (PM) 1	aken	12-2	20	69 at 11:0		
											09 at 110		
Well on L	ine;	•	Started	2	0 <u>0 7</u> at	1:00_	(SDA) (PM)	aken	14.3	20	67 al	(GM) (PM)	
						OBSERVE	D SURFACE	DATA			Duration of Shut-	in 24 Hours	
Static / Orifice		ce	Cirale and: (Melei)	Pressure Differential	Flowing.	Wall Head	Cesing Wellhead Pressure		Tubing Wellhead Pressure		Duration	Liquid Produced	
Dynamic Property	Sız (inch		Prover Plessure		Temperature t	Temperature f	(P _w) or (P ₁)			(P ₁) or (P ₂)	(Hours)	(Barrela)	
Shut-In	"گن		psig (Pm)	Inches H _s 0			ps*g	peła	psig 4	ble	24	0	
Flow	ر. ک		15.1	2.8			1		7		24	0	
					<u> </u>	EI OW STE	EAM ATTRI	HITEĆ	1			<u> </u>	
			Circle one.			FEOW SIR		0163		-3-p-11-141	1		
Plate Coefficient			Meteror	Press Grav Extension Fact			Flowing Temperature	Deviation Factor		Metered Flor	v GOR (Cubic Fe	Flowing Fluid	
(F _b) (F _p) P/		Pro	rver Pressure psia	/ Paxh	F	1	Factor	1	EROF GV	(Mcfd)	Barrel)	Gravity	
Mold			hava				F,			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		G _e	
				M andrille and the second									
					(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS		(P)	e 0.207	
(P _c) ² =		. :	(P_)° =_		P _g =		% (P <u>.</u>	- 14.4) ±	14.4 =	:	(P _a)	3 =	
			T G	hanus famula d'ar à	:	<i>i</i> 7	1	ure Curve		г٦		Open Flow	
(P _c)² ⋅ (i	P _a) ²	(F	2 ₆)2 - (P ₆)2	1, P, 3 - P, 8	LOG of formuta			3 == "m" ⊃r• ···•	nxt	.og	Antillog	Deliverability	
(P _e)² - (i	P _e)2			2, P.*-P.* Weberby: P.*-P.	1, or 2. and phyde by:	P.2. P.2	Assi	gned of Slope			_	Equals R x Antilog (Mcfd)	
				operator to be a construction of the construct		has mad						**************************************	
Open Flo	W			Mcfd Ø 14	.65 psla		Doliverabil	ity			Mcfd @ 14.65 ps	ie	
Tho	unders	igne	d authority, on	behall of the	Company, a	states that h	ne is duty aut	horized t	o make th	e above repo	ort and that he ha	is knowledge of	
		•	•		, -		-			May		.20 10	
trie lacis s	iated (olem	in, and that sai	o report is tru	e and correc	i. EXOCUTOC	iums 1179		uary or	1507_	gan inge inganeser progressibilityerede si		
									\sum_{i}	/ >	1.AZ		
			Witness of a			RECEIVE	n			For	Company		
			Far Commis	200	KANSAS CO	RPORATION	COMMISSION		- •	. Che	cked by	ballmarkers, protester uses where	
								1			-		

MAY 20 2010

CONSERVATION DIVIDION WICHITA, KS

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 1-26A
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
I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing. Date:
RECEIVED KANSAS CORPORATION COMMISSION MAY 20 2010 CONSERVATION DIVISION WICHITA, KS Signature: Assistance of the conservation of the conservat

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.