KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:				(See Instruc	tions on Rev	verse Side)					
Open Flow			Took Date				ADI No. 15							
✓ Deliverabilty					Test Date 12/10/2				API No. 15 15-199-20363 OCTO					
Company Raven F		rces	, LLC				Lease Westfiel	d			-00	Well Number		
County Location Wallace County NW/4 NW/4					Section 01				RNG (E/V	V)		Acres Attributed		
						Reservoir Niobrara				Gas Gathering Connection Closed gathering system (West Kansas Pipeline)				
Completic 8/2008	on Dat	te			Plug Bac 991.34'	Plug Back Total Depth 991.34'				et at	*			
Casing Size Weight 4 1/2" 10.5					Internal [Diameter	Set a 1033		Perfora 830'	ations - 863'	То	То		
Tubing S 2 3/8"	ize		Weigh 4.7	it	Internal Diameter Set at 825'			t	Perfora	ations	То			
Type Con	•	n (De	escribe)		Type Flui	Type Fluid Production				Pump Unit or Traveling Plunger? Yes / No				
Producing Tubing	Thru	(Anı	nulus / Tubin	g)	% C	arbon Dioxi	ide	·	% Nitroge	'n	Gas Gr	avity - G _g		
Vertical D	epth(F	1)				Pres	sure Taps				(Meter .500"	Run) (Prover) Size		
Pressure	Buildu	p:	Shut in12-	10 2			(AM) (PM)	Taken_12	<u>!-11</u>	20	09 _{at} 10 am	(AM) (PM)		
Well on L	Well on Line: Started 12-11 20			0 <u>09</u> at 1	09 at 10 am (AM) (PM) Taken 12			?-12	20	09 _{at} 10 am	(AM) (PM)			
						OBSERVE	D SURFACE	DATA			Duration of Shut-	inHours		
Static / Dynamic Property	Orifi Siz (inch	e	Prover Pressure in Temperature			Temperature t Wellhead Pressure (P _w) or (P _t) or (P _c)			Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)		
Shut-In	.500)	16	0			psig 5	psia	psig 5	psia	24	0		
Flow .500)	16.4 3				2	2			24	0		
				···		FLOW STR	EAM ATTRI	BUTES						
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension	Gravity Factor F _g		Flowing Femperature Factor F _{ft}	Fac	ation ctor	Metered Flov R (Mcfd)	v GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G _m		
···														
(D)2 -			(P)2		•		ERABILITY)					2 = 0.207		
$(P_c)^2 =$ $(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	D 2 LOG of formula 1. or 2. and divide P 2		% (P _c - 14.4) + Backpressure Curve Slope = "n" or Assigned Standard Slope		n x 10G		(P _d) Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
Open Flov	v			Mcfd @ 14.	65 psia		Deliverabil	lity			Mcfd @ 14.65 psi	a		
The u	indersi ated th	igned nereir	l authority, or	n behalf of the	Company, s and correct KANSAS	tates that h	e is duly aut ED NYOMAIISSIO	horized to	make the	above repo	rt and that he ha	s knowledge of		
			Witness (i			MAY 2 0					ompany			
			For Comm	ission	CO	n (nvinsus WICHIT	_{JIN} Diviol O l A, KS	N		Chec	ked by			

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				ſ	See Instruct	ions on Reve	erse Side)			
Op	en Flo	nv								•		
Cel	liverat	oilty			Test Date) ;			API	No. 15		
Company	**************************************	C******				2	Lease		 	······································		Well Number
County		٠.	Location	Dri	Section		as fliels	<u> </u>	ANG (E/	W)	an man sind sind solution see	Acres Attributed
Wallace			20021	-11	/		125		42 3 V			Words Wittelf
Fiold			Carried Street of Communication		Reservoi				Gas Gat	hering Conna	ection	Table - Table
				_	Nicht	ara				·		
Completic	on Da	te			Plug Bac	k Total Dept	h		Packer S	let at		
8-5						34	A2 6 6 74 40	Carrier .			· control of contrast	
Casing Si			Weight		Internal C	Diameter	Set at			rations	To	
Tubing Si	70 N		/O·_ Weight		Internal (liameter	/03.3 Set at	. 34	Porto	rations	· <i>863′</i> To	100.00 × 36.000.00 ±
	,		-		miema i	Prantete:			reno	ialions	10	
Z % Type Con	ontetio	n (De	4. 7 escribe)		Type Flui	6 Production		l	Pump Ur	it or Travelino	Plunger? Yes	/ / 1861
			•								,gu ,	
			_)		arbon Dioxi	ie		% Nitrog	en	Gas Gr	avity - G _g
Vertical D	epihii	H)				Press	ure Taps				(Meter I	Run) (Prover) Siz
												500
					•					· · · · · · · · · · · · · · · · · · ·	en asker in a da un indosoni kini su i	k – 2. – 2. m. n.
Pressure	Builde										<u>09</u> at <u>10:0</u>	
Well on L	ine:	;	Started/Z	-//2	0 <i>09</i> at	10:00	(ADA) (PM) 1	aken	12-1	20	08 at 10:0	22_ (B) (PM)
						OBSERVE	D SURFACE	DATA			Duration of Shut-	ên <u>24</u> Ho
Static / Orifice Dynamic Size Property (inches)			Meter	Pressure Differential	Flowing	Well Head	Casing Wellhead Pressure (P_) or (P_) or (P_)		Tubing Wellhead Pressure		Duration	Liquid Produced
			Prover Pressu		Temperature t	Temparature t			ı	(P ₁) or (P ₀)	(Hours)	(Borrets)
Property	(inc)	rear .	psig (Pm)	Inches H ₂ 0	•	•	palg	psia	psig	psia	.,	
Shut-th	.2	00	16	0			5		-5-		24	0
Flow	٤.	00	16.4	3			2		Z		24	0
					<u> </u>	FLOW STR	EAM ATTRIE	RUTES		·		The second secon
Plate			Cont me	Press			Flowing					Flowing
Coefficcient			Mater or	Extension	Grav Fac	· 1 T	Temperature		Serviation Metered Factor R		(Cubic Fe	Enga"
(F _b) (F _p) P		Pro	ver Pressure psia	✓ P _m xh	F		Factor F _{II}	1	pv	(Mcfd)	Barre()	Gravity G
MICIO							11	-				
					<u></u>			<u>L.</u>	. <u></u> ĺ	·		
					(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS		(P.)	³ = 0.207
(P _c) ² =		:	(P _w) ² =		P _d =	9	ه (P_	- 14.4) +	14.4 =	:		² =
		<u> </u>		Shoosu lamula I ar 2	:		· · · · · · · · · · · · · · · · · · ·	ure Ourve		Гэ		Open Flow
(P _a) ² • (\$	2,)0	(P	,")e- (b")s	1. P P	LOG of tompula		Siopo	n	n x l	.og	Antilog	Dolžverability
(P _e) ² · (P _a) ²				2. P ₂ · P _d 2	t. or 2. and divide	P.0. P.	Assigned Standard Stope					Equats R x Antilio (McId)
				tulded by: P.2 - P.	t day:		Status	o siobe	_			
									1			
^		<u> </u>		Na-64 (2) 1.6	es malo	~ , , , , , , , , , , , , , , , , , , ,	Oofirmenhil			1	McId @ 14.65 ps	.L
Open Flor				Mcfd @ 14.	oo psia		Deliverabil	iy			WC10 @ 14.05 ps	id
The (unders	ignec	authority, or	behalf of the	Company, s	tates that h	e is duly aut	vorized t	make th	a above repo	rt and that he ha	as knowledge ol
he facts st	tated t	herei	n, and that sa	id report is true	and correc	t. Executed	this the	14	day of	May		20 10
			,	-F - / / / - / - /								
			pro religios, 1 des a religionarios del	******	edes - S - Costandard construction		;course	,	\searrow	<u> </u>	est.	# 649.64 (Sides Production dates
			Winess (d	urry)		RECEIVE	D	,		For C	ompany	-
			Fer Conven	ssion	VANICACO	PORATION	COMMISSION	4		Cher	ked by	
					IMINOWO OF	,,,, J ··					-	

MAY 20 2010

CUNSCIPLATE ON DIVISION 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 Westfield 1-1 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 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: 5/18/10
MAY 20 2010 CONSERVATION DIVISION WICHITA, KS

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.

TO:

DAVID

FROM:

LINDA

DATE:

May 17, 2010

RE:

KANSAS CORPORATION COMMISSION

FORM(S) G-2

David – These forms were due to be filed at the Kansas Corporation Commission on or before May 5, 2010. Justin sent his work to me Friday and I completed the forms. However, you need to sign them before we can submit to the KCC.

Please sign and date all of them where indicated (including your "title") and return them to me; I'll make copies and then forward to KCC. I have been in contact with the KCC Conservation Division Analyst – he is aware that they are ready to file and are just waiting on your signature.



MAY 20 2010

CONSTANTATION DIVISION