KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Harvey NW NW 28 22S 2W Fletd Reservoir Mississippi American Energies Pipeline Completion Date Mississippi American Energies Pipeline Completion Date Building Size Weight Internal Diameter Set at None Lasing Size Weight Internal Diameter Set at Perforations To 3260 3159-3165 3172-3178 Tubing Size Weight Internal Diameter Set at Perforations To 3260 3159-3165 3172-3178 Tubing Size Weight Internal Diameter Set at Perforations To To 3260 3159-3165 3172-3178 Tubing Size Weight Internal Diameter Set at Perforations To SW None Froducing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - G, O.6766 Froducing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - G, O.6766 Vertical Depth(H) Pressure Taps (Meter Run) (Prover) Size Size Flange 2" Flange 2" Pressure Buildup: Shut in 4/19 20 15 at 1:00pm (AM) (PM) Taken 20 at 1:00pm (AM) (PM) Well on Line: Started 4/20 20 15 at 1:00pm (AM) (PM) Taken 20 at (AM) (PM) OBSERVED SURFACE DATA Duration of Shut-in Hours State Poynamic Size Pressure Meter (Internal Temperature Internal Temperature Replace Poynamic (Regressure Wellhead Pressure Wellhead Pressure Wellhead Pressure (Regressure Wellhead Pressure Poynamic (Regressure Wellhead Pressure Wellhead Pressure Wellhead Pressure (Regressure Wellhead Pressure Wellhead Pressure (Regressure Wellhead Pressure Wellhead Pressure Wellhead Pressure (Regressure Wellhead Pressure Wellhead Pressure Wellhead Pressure (Regressure Wellhead Pressure Wellhead Pressure (Regressure Wellhead Pressure Wellhead Pressure Wellhead Pressure (Regressure Wellhead Pressure Poynamic (Regressure Wellhead Pressure Wellhead Pressure Wellhead Pressure Wellhead Pressure (Regressure Wellhead Pressure Wellhead Pressure Wellhead Pressure (Regressure Wellhead Pressure Wellhead Pressure Pressure (Regressure Wellhead Pressure Wellhead	Type Test	t:			((See Instruct	tions on Re	everse Side)					
Debrumblity	Op	en Flow			Test Date	a·			ΔĐI	No. 15				
Competition	√ De	liverabilty				-			15-0	079-20180	-0000		_	
Harvey NW NW 28 228 2W			, LLC				Lease Sperlin	g B			#1	Well Nu	ımber	
American Energies Pipeline Consider Date Mississippi American Energies Pipeline Packer Set at None Packer Set at Perforations To 3260 A172-3178 10.5 4 remorphism (Describe) Type Fluid Production	County Harvey					-				W)		Acres A	Attributed	
Ministry Size Weight Internal Diameter Set at Perforations To 3260 3158-3165 3172-3178	Field Alta Mill	ls							Gas Gati Americ	hering Conn an Energie	ection es Pipeline			
The Completion (Describe) Internal Diameter Set at Perforations To Pump Unit or Traveling Plumper? Yes / No None Production SW None Production Pump Unit or Traveling Plumper? Yes / No None Production Pump Unit or Traveling Plumper? Yes / No None Production SW None Production SW None Production Pump Unit or Traveling Plumper? Yes / No None August 1 (Annulus / Tubing) % Carbon Dioxide None August 1 (Annulus / Tubing) % Carbon Dioxide None August 1 (Annulus / Tubing) % Carbon Dioxide None August 1 (Annulus / Tubing) % Carbon Dioxide None August 1 (Annulus / Tubing) % Carbon Dioxide None (Mater Run) (Prover) Size 2 (Meter Run) (Prover) (Annulus Prover) (An						k Total Dept	h			et at				
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Pressure Buildup: Shut in 4/19 20 15 at 1:00pm (AM) (PM) Taken 20 15 at 1:00pm (AM) (PM) Taken 20 at 1.00pm (AM) (PM) Taken 20 at 1.	Tubing Si 2 3/8	ize	Weig	jht	Internal [Diameter	Set	at	Perfo	rations	To			
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Static / Orifice Dynamic State / Orifice Size Property (inches) Orifice Size Property (inches) Pressure plant Pressure plant Pressure plant Prover Pressure plant Pressure (P.) or						OBSERVE	D SURFAC	E DATA			Duration of Shu	 ut-in	Hours	
FLOW STREAM ATTRIBUTES Plate Confliction Meter or Prover Pressure pala Mold Play (P _s) ² = (P _s) ²	Dynamic Size		Meter Prover Press	Differential	Temperature	Temperature	Weilhead	Pressure	Wellhea	ad Pressure	Duration	Liqui		
Flow STREAM ATTRIBUTES Plate Coefficient (F _c) (F _c) Modd Provide Passure Proving Extension Factor Fig. (OPEN FLOW) (DELIVERABILITY) CALCULATIONS P _c) ² = : (P _w) ² = : P _d =	Property	(inches)			t	t	psig	psia	psig	psía		- 		
FLOW STREAM ATTRIBUTES Plate Coefficient (F _p) (F		_			 		105	199.4	<u> </u>	2244	24	_		
Plate Coefficient (F ₂) (F ₂) (F ₃) (F ₃) (Meter or pala) (P ₃) (P	,	<u> </u>	<u> </u>	_ <u>.l</u>	J <u></u>	ELOW STE	EAM ATTE	DIBLITES	1	_L	<u></u>	!		
Coefficient (F _s) (F _s) (F _s) Meter or Prover Pressure pala (Cubic Feet) Factor F _s (Mcfd) (Cubic Feet) F _s (Mcfd) (Plate	<u> </u>	Circle one:	Droce									Flowing	
P _c) ² = : (P _w) ² = : P _d = % (P _c -14.4) + 14.4 = : (P _d) ² = (P _c) ² - (P _c) ² (P _c) ² - (P _w) ² (P _c) ² - (P _w) ² (P _c) ² - (P _w) ² (P _c) ² - (P _w) ² (P _c) ² - (P _w) ² (P _c) ² - (P _w) ² (P _c) ² - (P _w) ² (P _c) ² - (P _w) ² (P _c) ² - (P _w) ² (P _c) ² - (P _w) ² (P _c) ² - (P _w) ² (P _c) ² - (P _w) ² (P _c) ² - (P _w) ² (P _c) ² - (P _w) ² (P _c) ² - (P _w) ² (P _c) ² - (P _w) ² (P _c) ² - (P _c) ² (P _c) ² - (P _c) ² (P _c) ² - (P _c) ² (P _c) ² - (P _c) ² (P _c) ² - (P _c) ² (P _c) ² - (P _c) ² (P _c) ² - (P _c) ² (P _c) ² - (P _c) ² (P _c) ² (P _c) ² - (P _c)	Coeffied (F _b) (F	ient F	rover Pressure	Extension	Fac	tor	Temperature Factor	Fa	ctor	R	(Cubic	Feet/	Fluid Gravity	
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Checked by Choose formula 1 or 2: 1. P _c ² -P _s ² 2. P _c ² -P _s ² divided by: P _c ² -P _s ² divided by: P _c ² -P _s ² Witness (if any) Choose formula 1 or 2: 1. P _c ² -P _s ² 1. P _c ² -P _s ² 2. P _c ² -P _s ² divided by: P _c ² -P _s ² Assigned Standard Slope Backpressure Curve Slope = "n" Assigned Standard Slope N x LOG Antilog Antilog Copen Flow Deliverability Equals R x Antilog (Metd) Deliverability 15 Mcfd @ 14.65 psia Deliverability 15 Mcfd @ 14.65 psia The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the Witness (if any) KCC WICHITA For Commission APR 29 2015					•			•		<u>-</u>			:07	
(P _c) ² -(P _d) ² (P _o)	(P _e) ^z =	:	(P) ²	Choose formula 1 or		 `				: _		(d) =		
The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the day of April .20 15 . Witness (if any) KCC WICHITA Ror PreSident Checked by Checked by			(P _{\$})²- (P _{\$})²	1. P _c ² -P _a ² 2. P _c ² -P _d ²	LOG of formula 1. or 2, and divide	P _c ² -P _w ²	Sic	ppe = "n" - of ssigned		.og	Antilog	Del Equals	liverability S R x Antilog	
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The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the day of April 15 . Witness (if any) Witness (if any) APR 29 2015 Ror y Pier Sin Pre Sin Checked by	Open Flo	 w		Mcfd @ 14	1.65 psia		Delivera	 bility 15			Mcfd @ 14.65 p	 psia		
Witness (if any) Witness (if any) APR 29 2015 We facts stated therein, and that said report is true and correct. Executed this the day of April			ed authority,	on behalf of the	Gompany,	states that h	e is duly a	uthorized to	make th	e above repo	ort and that he	has know	ledge of	
For Commission APR 29 2015 Kory Fier Son, President	the facts s	tated ther	ein, and that	said report is tru	ue and correc	t. Executed	this the 2	0	day of A	pril			₂₀ <u>15</u> .	
For Commission APR 29 2015 Kory Fier Son, President			Milan	(if any)	KP	C I MICI	HITA ·	0	1		Omosni	د ــ		
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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 Rierson Energy, 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 Sperling B#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: 4/27/15
Signature: Signature:
KCC WICHITA Title: Presiden+
APR 29 2015
RECEIVED

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.