KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

VIOLISEY OPERATING COMPANY, LLC Scarlor Scarlor ARBER NW SW SE NW 19 19 19 19 19 19 19 19 19 19 19 19 19	Type Test					(See Instruc	tions on Re	verse Side)					
County COLISEY OPERATING COMPANY, LLC COMAN COUNTY	= :											00-00			
County Location NW SW SE NW 19 34S 11W Section 11W	Company			ATINO 001	UDANIY II O				1	10-	-20402-		Well Nu	mber	
ARBER NW SW SE NW 19 34S 11W IPED BOX TOTAL DEPTH OF THE PROPERTY OF THE PROP														Attributed	
STRANATHAN MISSISSIPPIAN APC Correspondence of the processor of the pro	BARBER NW SW SE NW					19			348 1						
Searing Size Weight Internal Diameter Set at Penforations To 4,052 5130 4682 4878 Ubting Size Weight Internal Diameter Set at Penforations To 4,052 4,70 1,995 4888 OPEN June Completion (Describe) Type Fluid Production WATER Pump Unit or Traveling Plunger? Yes / No PUMPING PUMPING Freducing Thru (Annulus / Tubing) Scarbon Dioxide Scarbon Dioxide WATER Pump Unit or Traveling Plunger? Yes / No PUMPING Freducing Thru (Annulus / Tubing) Scarbon Dioxide		AHT	V								thering Conn	ection			
Library Libr	Completic 12/1/09	on Dat	ө			_	k Total Dep	th							
Ubing Size 4.70 1.995 4.70 1.995 4888 Perforations OPEN OPEN Pump Unit or traveling Plunger? Yes / No PUMPING Pump Unit or traveling Plunger? Yes / No PUMPING Pump Unit or traveling Plunger? Yes / No PUMPING Pump Unit or traveling Plunger? Yes / No PUMPING Pump Unit or traveling Plunger? Yes / No PUMPING Pump Unit or traveling Plunger? Yes / No PUMPING Pressure Taps (Meter Run) (Prover) Size fertical Deptitife) Pressure Buildup: Shut in 08/08/13 20 at (AM) (PM) Taken 08/09/13 20 at (AM) (PM) Vell on Line: Started 20 at (AM) (PM) Taken 20 at (AM) (PM) Static / Orifice Meter Prover Pressure Pressure Buildup: Shut in 08/08/13 Started 20 at (AM) (PM) OBSERVED SURFACE DATA Duration of Shut-in House Observed (Inches) Pressure Taps Observed (Inches) Observed (Inches) Pressure Taps Observed (Inches) Observed (Inches) Pressure Taps Observed (Inches) Pressure Taps Observed (Inches) Observed (Inches) Pressure Taps Observed (Inches) Observed (Inches) Pressure Taps Observed (Inches) Pressure Taps Observed (Inches) Observed (Inches) Observed (Inches) Pressure Taps Observed (Inches) Observed (Diameter									
Type Field Production Pump Unit or Traveling Plunger? Yes / No PUMPING	Tubing Size Weight				Internal [Diameter	Set a	Set at		orations					
Producing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - Q	Type Completion (Describe)					Type Flui			Pump Unit		nit or Traveling				
Pressure Taps (Meter Run) (Prover) Size			(Anı	nulus / Tubing	ı)							Gas Gra	Gas Gravity - G		
Pressure Buildup: Shut in O8/08/13 20 at			1)				Pres	Sura Tane						<u> </u>	
Vell on Line: Started	1776	puilli	-,				F 193	outo tapa				/MOTOL L	, (1")		
Continue Circle const. Pressure Pressure Pressure Pressure Pressure Property Prop	Pressure Buildup: Shut in					20 at		(AM) (PM)	AM) (PM) Taken 08		20	at	(AM) (PM)		
Static / Orifice Cicre one: Meter Prover Pressure Pressure Pressure Pressure Prover Pressure	Well on Line: Started 20			0 at	at (AM) (PM) Taken _		Taken	20 _		at	at (AM) (Ph				
Continue					·		OBSERVE	D SURFAC	E DATA			Duration of Shut-	in	Hours	
FLOW STREAM ATTRIBUTES Plate Coefficient (F _c) (F _c) Model Prover Pressure psia Prover Pressure Prover Prescure Prover Pres	Static / Dynamic Property	namic Size		Meter Prover Pressu	Differential in	Temperature	Temperature	Wellhead (P _w) or (F	Pressure	Wellho	ead Pressure or (P ₁) or (P _c)	L		•	
FLOW STREAM ATTRIBUTES Plate Coefficient (F _b) (F _c) Mofd Prover Pressure Psia (OPEN FLOW) (DELIVERABILITY) CALCULATIONS (P _a) ² =	Shut-In			paig (rin)	mones 1120				psia		psia	24			
Plate Coefficient Meter or Prover Pressure Pick Meter or Prover Person Pick Meter or Prover Pick Pick Pick Pick Pick Pick Pick Pick	Flow														
Coefficient (F _s) (F _s) Model Prover Pressure psia Plant Factor							FLOW STE	REAM ATTR	IBUTES						
P _c) ² = : (P _w) ² = : P _d = % (P _c - 14.4) + 14.4 = : (P _d) ² =	Coeffici (F _b) (F _c	ient ,)	Pro	Meter or over Pressure	Extension	Extension Fac		Temperature Factor	perature Fa		R	(Cubic Fe	et/ 	Fluid Gravity	
P _c) ² = : (P _w) ² = : P _d = % (P _c - 14.4) + 14.4 = : (P _d) ² =							.]							i	
Den Flow Mode 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 e facts stated therein, and that said report is true and correct. Executed this the Witness (if any) Choose formula 1 or 2: 1. P _c ² - P _s ² 2. P _c ² - P _s ² 2. P _c ² - P _s ² 3. LOG of formula 1. or 2. P _c ² - P _s ² 3. Assigned Standard Slope Backpressure Curve Slope = "n" A saigned Standard Slope Norted Antilog Open Flow Deliverability Mcfd © 14.65 psia Deliverability 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 efacts stated therein, and that said report is true and correct. Executed this the Open Flow Norted Antilog Open Flow Norted Antilog Open Flow Deliverability Equals R x Antilog (Mcfd) 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 efacts stated therein, and that said report is true and correct. Executed this the Open Flow Norted Open Flow Antilog Open Flow A	D 12 -			/D \2 =		•			•		•				
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 e facts stated therein, and that said report is true and correct. Executed this the	(P _c) ² - (P _a) ²		`(F	$(P_c)^2 - (P_w)^2$ 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$		LOG of formula 1, or 2, and divide p 2 p 2		Backpressure Curve Slope = "n" or Assigned		ГЭ			Op Del Equals	en Flow iverability R x Antilog	
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 e facts stated therein, and that said report is true and correct. Executed this the	Open Flo	w			Mcfd @ 14	.65 psia		Deliverat	oility			Mcfd @ 14.65 psi	a		
e facts stated therein, and that said report is true and correct. Executed this the 09 day of Unit Adultation HCC WIG	The t	undersi	igne	d authority, or	n behalf of the	Company, s	states that h	ne is duly a	uthorized t	o make t	he above rep			ledge of	
Witness (il any) Witness (il any) Witness (il any)															
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For Commission Checked by DEC 18				For Comm	ission			-			Che	cked by	חב	<u>(18)</u>	
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staπ as necessar Date: <u>12/09/13</u>	y to corroborate this claim for exemption from testing.
	e to supply to the best of my ability any and all supporting documents deemed by Commission
\checkmark	is not capable of producing at a daily rate in excess of 250 mcf/D
	is on vacuum at the present time; KCC approval Docket No
	is a source of natural gas for injection into an oil reservoir undergoing ER
	is cycled on plunger lift due to water
(Check	is a coalbed methane producer
·	
	rounds that said well:
	est a one-year exemption from open flow testing for the LOGAN 9X
	t of my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named.
	going pressure information and statements contained on this application form are true and
exempt status und	der Rule K.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO., LLC

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.