## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Barber   SE SW NW SW   2   33S   10W	Type Test	t:				See Instruct	tions on Reve	erse Side	)				
Cheffair Oil Co, Inc.  County Barber  SE SW NW SW  2  33S  10W  Reservoir Mississippian  Reservoir Utitle Sandy Creek  Completion Cate Section  Plug Back Total Depth Mississippian  Reservoir Mest Wilchita Gas Gathering, LLC  Perclare Set at  Perclare Set at  Reservoir Mest Wilchita Gas Gathering, LLC  Perclare Set at  Perclare Set at  Reservoir Mest Wilchita Gas Gathering, LLC  Perclare Set at  Perclare Set at  Reservoir Mest Wilchita Gas Gathering, LLC  Perclare Set at  Reservoir Mest Wilchita Gas Gathering, LLC  Perclare Set at  Reservoir	Open Flow			Tool Date				A DI	No. 15				
Company Leasier County Leasier Count	Deliverabilty												
Barber SE SW NW SW 2 33S 10W  Reservoir Field Childe Sandy Creek  Mississippian Gas Gathering Connection West Wichita Gas Gathering, LLC  Completion Date Plug Back Total Depth Anno 9001/2003 4 / 87  Packer Set at None  Packer Set at None  None  10  Ad390 4436 55.5 5.0 15.5 5.0 12.441  Ad80  April Internal Dameter Set at Perforations To Open Copen Flow Production Type Corpletion (Describe)  Type Corpletion (Describe)  Type Fluid Production Type Fluid Producti			o., Inc.					•				Well N	umber
Little Sandy Creek Osyo1/2003  West Michael Depth Packer Set at Osyo1/2003  4787  Packer Set at Osyo1/2003  4787  None  Packer Set at None  Set at Petrotations To A390  436  A390  436  The Petrotations To Open Copen The Copen Type Completion (Describe) Single Open The Control District Open The Copen The C	County Location								W)		Acres	Attributed	
Align   Casing Size   Weight   Internal Diameter   Set at   Perforations   To   Add	Field Little Sa	ndy Cre	eek										
5.5 15.5 5.012 48.54 4390 4436  Library Size Weigh Internal Diameter Set at Perforations To Queen (2.875 6.5 2.441 production Pump Unit or Traveling Pluringer? Ves. / No Single Oil/Water/Gas Pumping Pluringer? Ves. / No Pumping Production Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - G, Annulus Vertical Depth(H) Proseure Taps (Mater Run) (Prover) Size Medic Proseure Buildup Shut in 05/07 20 12 at. (AM) (PM) Taken 05/08 20 12 at. (AM) (PM) Well on Line. Started 20 at. (AM) (PM) Taken 20 at. (AM) (PM) Ta	•				-	k Total Dept	h			Set at			
Tubing Size Weight Internal Diameter Set at Perforations To 22875 6.5 5 2.441 4466 Open Type Completion (Describe) Type Completion (Describe) Type Completion (Describe) Type Fluid Production Oil/Water/Gas Producing Thru (Annulus / Tubing) Type Fluid Production Oil/Water/Gas Program (Annulus / Tubing) Type Fluid Production Oil/Water/Gas Type Fluid Produ	Casing S 5.5	ize		t			485 <del>4</del>				_	6	
Type Completion (Describe)  Type Full Production Oil/Water/Cas Pumping Producing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity · G <sub>s</sub> Annulus Vertical Depth(H)  Pressure Taps (Meter Run) (Prover) Size 4860  Pressure Buildup: Shut in 05/07 20 12 at. (AM) (PM) Taken 05/08 20 12 at. (AM) (PM) Well on Line: Started 20 at. (AM) (PM) Taken 20 at. (AM) (PM) Well on Line: Started 20 at. (AM) (PM) Taken 20 at. (AM) (PM) OBSERVED SURFACE DATA Ourfacton of Shut-in Inches H, 0  OBSERVED SURFACE DATA Ourfacton of Shut-in Inches H, 0  Thomas Inches H, 0  Flowing Inc		ize	-	t	Internal Diameter		Set at	•	Perto	rations	То		
Single Oil/Water/Gas Pumping Producing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - G, Annulus Vertical Depth(H) Pressure Taps (Meter Run) (Prover) Size 4860  Pressure Buildup: Shut in 05/07 20 12 at. (AM) (PM) Taken 05/08 20 12 at (AM) (PM) Well on Line: Started 20 at. (AM) (PM) Taken 20 at (AM) (PM)  OBSERVED SURFACE DATA  Duration of Shut-in Hour Property (Inches) Prover Prassure In Prover Prassure In Inches H <sub>Q</sub> Inches I									'				
Vertical Depth(H)   Prosective Taps   (Meter Run) (Prover) Size   Af860   Vertical Depth(H)   Af860   Vertical Depth(H)   Af860   Vertical Depth(H)   Af860   Vertical Depth(H)   Vertic	Single				Oil/Wa	ter/Gas			Pumpi	ng			
Pressure Buildup   Shut in   O5/07   20 12 at   (AM) (PM)   Taken   O5/08   20 12 at   (AM) (PM)			Annulus / Tubing	))	% (	Carbon Dioxi	de		% Nitrog	en	Gas G	ravity -	G.
Pressure Buildup Shut in 05/07 20 12 at (AM) (PM) Taken 05/08 20 12 at (AM) (PM) Well on Line: Started 20 at (AM) (PM) Taken 20 at (AM) (PM) Well on Line: Started 20 at (AM) (PM) Taken 20 at (AM) (P						Pres	sure Taps				(Meter	Run) (F	Prover) Size
Well on Line: Started 20 at (AM) (PM) Taken 20 at (AM) (PM)    Comparison of Students   Continue of Mater	4860												
Static / Ortfice Dynamic Size (Inches) Size (Inches) Property (Inc	Pressure	Buildup	Shut in	07	12 at		(AM) (PM)	aken 05	6/08	20	12 at		(AM) (PM)
State / Opinice Size Properly	Well on L	.ine:	Started	2	0at		(AM) (PM) 1	aken .		20	at		(AM) (PM)
Flowing   Flow	f	Γ	<u>-</u>	·	1	OBSERVE	T		ı		Duration of Shut	-in	_ Hours
FLOW STREAM ATTRIBUTES    Plate   Coefficient   Coefficient   Prover Pressure   Prover Presure   Prover Pressure   Prover Pressure   Prover Pressure   Prove	Dynamic Siz		Meter Prover Pressu	Differential in	Temperature Temperature		Wellhead Pressure (P <sub>w</sub> ) or (P <sub>r</sub> ) or (P <sub>r</sub> )		Wellhead Pressure (P <sub>w</sub> ) or (P <sub>c</sub> )				
FLOW STREAM ATTRIBUTES  Plate Coefficeient (F <sub>2</sub> )(F <sub>3</sub> ) Mctd  Prover Pressure psia  (P <sub>m</sub> ) <sup>2</sup> = (P <sub>m</sub> )	Shut-In		poig (1 m)	Wiches 1120			†	psia	psig	psia	24		
Plate Coefficient Coefficient Meter or Meter or Prover Pressure States and Flowing Factor Four Prover Pressure Pressure Prover Pressure Prove Pressure Pressure Prove Pressure Prove Pressure Pressure Prove Pressure Prove Pressure Prove Pressure Pressure Prove Pressure Prove Pressure Pressure Prove Pressure Prove Pressure Prove Pressure Pressure Prove Pr	Flow												
Coefficient (F,)(F,) McId Prover Pressure psia Psia Pmxh Pactor F, (P,)? = (P,		1				FLOW STR	EAM ATTRIE	UTES	· · · · · · · · · · · · · · · · · · ·		1, 194, 2.	1	
(P <sub>c</sub> ) <sup>2</sup> = (P <sub>w</sub> ) <sup>2</sup> = P <sub>a</sub> = % (P <sub>c</sub> - 14.4) + 14.4 = (P <sub>a</sub> ) <sup>2</sup> =	Coeffictient		Meter or Prover Pressure	Extension F		tor	remperature Fa		actor R		(Cubic Fe	et/ Fluid Gravity	Fluid Gravity
(P <sub>c</sub> ) <sup>2</sup> = (P <sub>w</sub> ) <sup>2</sup> = : P <sub>d</sub> = % (P <sub>c</sub> - 14.4) + 14.4 = : (P <sub>d</sub> ) <sup>2</sup> = (P <sub>d</sub> ) <sup>2</sup>					<del></del>			<del> </del>					<del>                                     </del>
(P <sub>c</sub> ) <sup>2</sup> = (P <sub>w</sub> ) <sup>2</sup> = : P <sub>d</sub> = % (P <sub>c</sub> - 14.4) + 14.4 = : (P <sub>d</sub> ) <sup>2</sup> = (P <sub>d</sub> ) <sup>2</sup>			<u> </u>		(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS			2 0.	207
Open Flow  Mcfd @ 14.65 psia  Deliverability  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 he facts stated therein, and that said report is true and correct. Executed this the   RECEIVED  KANSAS CORPORATION COMMISSION  Backpressure Curve Slope = 'n' n x LOG  Antilog  Open Flow  Antilog  Open Flow  Antilog  Open Flow  Deliverability  Mcfd @ 14.65 psia  Open Flow  Antilog  Open Flow  Deliverability  Mcfd @ 14.65 psia  Open Flow  Antilog  Open Flow  Deliverability  Mcfd @ 14.65 psia  Open Flow  Antilog  Open Flow  Deliverability  Mcfd @ 14.65 psia  Open Flow  Open Flow  Antilog  Open Flow  Deliverability  Mcfd @ 14.65 psia  Open Flow  Open Flow  Antilog  Open Flow  Deliverability  Mcfd @ 14.65 psia  Open Flow  Open Flow  Open Flow  Assigned  Standard Slope  Open Flow  Antilog  Open Flow  Deliverability  Mcfd @ 14.65 psia  Open Flow  Deliverability  Equals R x Antilog  Open Flow  Assigned  Standard Slope  Open Flow  O	(P <sub>c</sub> ) <sup>2</sup> ≈		: (P <sub>w</sub> ) <sup>2</sup> =	:	P <sub>a</sub> =	9	% (P	- 14.4) +	14.4 =	·:			
Open Flow  Mcfd @ 14.65 psia  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 he facts stated therein, and that said report is true and correct. Executed this the   RECEIVED  Witness (if any)  KANSAS CORPORATION COMMISSION  RECEIVED  KANSAS CORPORATION COMMISSION	(P <sub>c</sub> )²- (	P <sub>a</sub> ) <sup>2</sup>			LOG of		Slope	= "n"	пх	.0G		О	•
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 the facts stated therein, and that said report is true and correct. Executed this the day of the facts stated therein, and that said report is true and correct. Executed this the day of the facts stated therein, and that said report is true and correct. Executed this the day of the facts stated therein, and that said report is true and correct. Executed this the day of the facts stated therein, and that said report is true and correct. Executed this the day of the facts stated therein, and that said report is true and correct. Executed this the day of the facts stated therein, and that said report is true and correct. Executed this the day of the facts stated therein, and that said report is true and correct. Executed this the day of the facts stated therein, and that said report is true and correct. Executed this the day of the facts stated therein, and that said report is true and correct. Executed this the day of the facts stated therein, and that said report is true and correct. Executed this the day of the facts stated therein, and the facts stated therein, and the facts stated therein the facts stated the fac	(P <sub>c</sub> )²- (I	P <sub>d</sub> ) <sup>2</sup>			and divide	P.2 - P.2 :	Assi	gned	-	-	Antilog	Equal	_
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 the facts stated therein, and that said report is true and correct. Executed this the day of the facts stated therein, and that said report is true and correct. Executed this the day of the facts stated therein, and that said report is true and correct. Executed this the day of the facts stated therein, and that said report is true and correct. Executed this the day of the facts stated therein, and that said report is true and correct. Executed this the day of the facts stated therein, and that said report is true and correct. Executed this the day of the facts stated therein, and that said report is true and correct. Executed this the day of the facts stated therein, and that said report is true and correct. Executed this the day of the facts stated therein, and that said report is true and correct. Executed this the day of the facts stated therein, and that said report is true and correct. Executed this the day of the facts stated therein, and that said report is true and correct. Executed this the day of the facts stated therein, and the facts stated therein, and the facts stated therein the facts stated the fac													
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 DS day of 05 company.  RECEIVED  Witness (if any)  KANSAS CORPORATION COMMISSION	Open Flo	w	[	Mcfd @ 14	.65 psia		Deliverabil	ty			Mcfd @ 14.65 ps	ia	
For Commission NAV 4 6 2042 Checked by		·	erein, and that sa	id report is true	e and correc	t. Executed	this the <u>08</u>				ompany		=
			For Comm	ission	•	MAV 4	ะ วกเว		/	Chec	ked by	_	<del>-</del>

CONSERVATION DIVISION WICHITA, KS

exempt status unde and that the forego correct to the best of of equipment installa	penalty of perjury under the laws of the state of Kansas that I am authorized to request reflect Rule K.A.R. 82-3-304 on behalf of the operator Chieftain Oil Co., Inc.  In pressure information and statements contained on this application form are true and few knowledge and belief based upon available production summaries and lease records attoin and/or upon type of completion or upon use being made of the gas well herein named. It a one-year exemption from open flow testing for the Jamie #2
gas well on the grou	unds that said well:
i i i i i i i i i i i i i i i i i i i	s a coalbed methane producer s cycled on plunger lift due to water s a source of natural gas for injection into an oil reservoir undergoing ER s on vacuum at the present time; KCC approval Docket No s not capable of producing at a daily rate in excess of 250 mcf/D o supply to the best of my ability any and all supporting documents deemed by Commission o corroborate this claim for exemption from testing.
Date: 5 8 /2012	
	Signature: Resident

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.