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## Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Cheyenne SWSESE 5 2S 41W 160  Field Reservoir Niobrara Gas Gathering Connection Eureka Gathering  Completion Date 12/13/2006 1652' Plug Back Total Depth 1652' N/A  Casing Size Weight Internal Diameter Set at 1675' 1510' 1524'  Tubing Size Weight Internal Diameter Set at 2.375" 4.75# 2" 1571'  Type Completion (Describe) Type Fluid Production Pump Unit or Traveling Plunger? Yes / No N2 Fracture Producing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - G <sub>g</sub>	Type Test	:				(	See Inst	ructions	ол Пече	erse Side	)					
Comparty   Caertus WashCo LLC						Test Date	<b>)</b> :									
Carety WashCo LLC			ty			1/23/20	13				023	3-20723-00-	00			
Cheynne SWSESE 5 2S 41W 160  Field Reservoir Niobrara Gas Gathering Connection Euroka Sathering Connection Cherry Crocek  Completion Date 1552  Plug Back Total Dorph NAA  1552  Casing Size Weight Internal Diameter Set at Perforations To 1524  Tibing Size Weight Internal Diameter Set at Perforations To 1524  Tibing Size Weight Internal Diameter Set at Perforations To 1524  Tibing Size Weight Internal Diameter Set at Perforations To 1524  Tibing Size Weight Internal Diameter Set at Perforations To 1524  Tibing Size Weight Internal Diameter Set at Perforations To 1524  Tibing Size Weight Internal Diameter Set at Perforations To 1524  Tibing Size Weight Internal Diameter Set at Perforations To 1571  Type Completion (Describe) Type Fluid Production Prince Water Set			o LL	.C				_		;			44-5	Well Nu	ımber	
Charry Creck													Attributed			
12/13/2006	* * - * -										ection					
10.5# 4"   16.75'   15.10'   15.24'   15.24'   15.24'   15.24'   15.24'   15.24'   15.24'   15.24'   15.24'   15.24'   15.25'	Completion Date = 12/13/2006										-					
1571   1571	Casing Size 4.5"															
NZ Fracture  Brine Water  Yes, PU  Yearbon Dioxide  X Ritrogen  X	Tubing Size 2.375"												To			
Annulus	Type Completion (Describe) N2 Fracture											g Plunger? Yes / No				
Vertical Depth(H)	Producing Thru (Annulus / Tubing) Annulus								•			Gas Gravity - G <sub>g</sub>				
Pressure Buildup: Shut in 1/23 20 13 at 8:33AM (AM) (PM) Taken 1/24 20 13 at 8:40AM (AM) (PM) Well on Line; Started 20 at (AM) (PM) Taken 20 at (AM) (PM) Taken 20 at (AM) (PM) (PM) (PM) Taken 20 at (AM) (PM) (PM) (PM) (PM) (PM) (PM) (PM) (P		epth(H)	l				P	ressure	Taps				(Meter	Run) (P	rover) Size	
State   Starled   20 at   (AM) (PM)   Taken   20 at   (AM) (PM)		Buildup	: S	hut in	2	0_13_at_8	:33AM	(AN	4) (PM) 1	Taken_1/	24	20	13 at 8:40A	M	(AM) (PM)	
State / Orifice Dynamic Property Size Property (Inches) Pressure price (Inches) Property (Inches) Prop	Well on L	ine <u>:</u>	s	tarted	2	0 at										
State   Orifice   Orific	_	-		-	·		OBSEF	RVED S			1		Duration of Shut	t-in	Hours	
FLOW STREAM ATTRIBUTES  FLOW STREAM ATTRIBUTES  FLOW Gravity Flowing Factor Factor Factor Find (Mcfd)  Fig. (Fy) (Fy) Fig. (Mcfd)  Fig. (Py) =	Dynamic	ynamic Size		Meter Prover Pressur	Differential in	Temperature	Temperal	ture (	Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$		Wellhe	ead Pressure or (P <sub>1</sub> ) or (P <sub>a</sub> )			1 ' 1	
FLOW STREAM ATTRIBUTES  Plate Coefficient Motor or Prover Pressure psia Peression Factor Ferror Prover Pressure psia Peression Peressure Prover Pressure psia Peression Peressure Pressure Pre	Shut-In											, , ,			:	
Plate Coefficient (F <sub>p</sub> ) (F <sub>p</sub> ) Moder or Prover Pressure plan   P <sub>m</sub> × h   Factor F <sub>g</sub>   P <sub>m</sub> × h   Factor F <sub>g</sub>   P <sub>m</sub> × h   F <sub>g</sub> × h   F <sub>g</sub>   P <sub>m</sub> × h   F <sub>g</sub>   P <sub>m</sub> × h   F <sub>g</sub>	Flow				-		-									
Coefficient (F <sub>b</sub> ) (F <sub>c</sub> ) Rotor Prover Pressure Psator Factor F <sub>actor</sub> F <sub>sator</sub> C(Mcfd) (Cubic Feet/Barrel) Gravity G <sub>sator</sub> Gravity G <sub>sator</sub> Gravity G <sub>sator</sub> F <sub>sator</sub> F <sub>sator</sub> F <sub>sator</sub> F <sub>sator</sub> F <sub>sator</sub> F <sub>sator</sub> C(P <sub>c</sub> ) <sup>2</sup> (P <sub>c</sub> ) <sup>2</sup>							FLOW S	STREAM	M ATTRI	BUTES						
(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> = Open Flow  (P <sub>c</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup>	Coefficient (F <sub>b</sub> ) (F <sub>p</sub> )		٨	fleter or er Pressure	Extension	Extension Fact		tor Temp		Factor		R	(Cubic Fo	(Cubic Feet/		
(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> =	-	- ]			1		-[	2	-							
(P <sub>c</sub> )²- (P <sub>A</sub> )² (P <sub>c</sub> )²- (P <sub>W</sub> )² (P <sub>c</sub> )²- (P <sub>d</sub> )² (P <sub>c</sub> )²	/p \2 ==			(P )2=		•			· ·			•			207	
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	(P <sub>c</sub> ) <sup>2</sup> - (l	•	(P <sub>c</sub>	- c	<ol> <li>P<sub>c</sub><sup>2</sup> - P<sub>d</sub><sup>2</sup></li> <li>P<sub>c</sub><sup>2</sup> - P<sub>d</sub><sup>2</sup></li> </ol>	LOG of formula 1. or 2.			Backpress Slope	sure Curve e = "n" origned		LOG		O; Del	liverability s 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 the facts stated therein, and that said report is true and correct. Executed this the																
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	Open Flo	L w			Mcfd @ 14.	65 psia			eliverabil	lity			Mcfd @ 14.65 ps	sia		
Jan Benty vocasa			ned	authority, on			states tha	at he is	duly aut	horized to	o make ti	he above repo	ort and that he h	as know	vledge of	
Witness (if any)  Witness (if any)  Witness (if any)	ne facts s	tated th	erein	, and that sai	d report is true	e and correc	t. Execu	ited this	the	8	day of _	Apo	1/1	,	20 14.	
<del>-</del>				- Witness (if a	any)			_	_		1/0	on f	Sewton Company	<del></del>	<del>cc wi</del> c	
Far Commission Checked by APR 09				For Commis	sion			-	_			Che	cked by		<u> </u>	

and that the for correct to the be of equipment in:	nder Rule K.A.R. 82-3-304 egoing pressure informatest of my knowledge and b stallation and/or upon type	4 on behalf of the dition and stateme pelief based upon a of completion or	nts contained on this available production upon use being made	hCo LLC  application form are true summaries and lease red of the gas well herein na	e and
	uest a one-year exemption	on from open flow	testing for the Bamn	es 44-5	-
_	is a coalbed methane is cycled on plunger li is a source of natural g is on vacuum at the pr is not capable of prod ee to supply to the best of	ft due to water gas for injection in esent time; KCC ucing at a daily ra	approval Docket Noate in excess of 250 m	cf/D	mission .
Date:	4/8/14				
  <del>-</del>		Signature:	Jew Laute erations Engineer	<u></u>	<del></del> -

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. KCC WICHITA

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