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

Type Test	:				(	See Instruct	ions on Rev	erse Side	9)			•	
□ Ор	en Flo	w			Tak Data	_			40	.ic -023	3-21173-00-0	n	
De	liverat	oilty		·	Test Date	):			API	No. 15 020	, 21170 00 0	•	
Company	,						Lease					Well Number	—
		Ene	ergy Manag	ement, LL0	<b>.</b>	•	DUNBAR		i.			32-13	
County			Locatio	n	Section		TWP		RNG (E			Acres Attributed	
CHEYENNE NE-SE-SW-NE					13, 2S			. 3	9W		MAY 18 711 RECEIVED		
Field						Reservoir				thering Conn	ection	$^{\prime\prime}C_{C_{1}}$	
CHERF			K _	•	NIOBR					ern Star	· · · · · · · · · · · · · · · · · · ·	As MI	Α,
Completio		te			Plug Bac 1401'	k Total Dept	h .	•	Packer \$	Set at		MAY	٠.
12/04/2 Casing S			18/_:_ba			Diameter -	Set at		Dorfo	rations		An 10 m	710
7", 4 ½"			Weight 171	<i>†</i> 11.5#		3, 4.000		, 1445'	Felic	1214'	1250	CCE	3
Tubing Si			Weight	11.077	Internal D		' Set at		Perfo	rations	То	EL	<del>_</del>
2 3/8"				1.7#		995		227'				, ~	
Type Con	npietio	n (De	escribe)	·	Type Flui	d Production	1	Р. т.	Pump U	nit or Traveling		/. No	_
SINGL					SALT	NATER	•		n			D PUMP	
		¦(A⊓ı	nulus / Tubing)		% C	arbon Dioxid	de .		% Nitrog	jen	Gas G	ravity - G <sub>g</sub>	_
ANNUL	.US		· · · · · · · · · · · · · · · · · · ·	•			٠. پ						
Vertical D	epth(l	1)				Press	sure Taps			•	. (Meter	Run) (Prover) Siz	е
	<u> </u>									ı			_
Pressure	Buildu	ıp:	Shut in	3/11 2	0 15 at S	9:00 AM	(AM) (PM)	Taken	•	20	at	(AM) (PM)	
		•		3/12	. 15 9	9:00 AM			۸		•	, ,,	
Well on L	ine:		Started	2	0 <u> </u>		(AM) (PM)	Taken	-,	20	at	(AM) (PM)	
•	•			. 4		OBSERVE	D SURFACE	DÁTA			<u> </u>	24	_
· ·			Circle one:	Pressure	i	OBSERVE	Casir		· ·	Tubina .	Duration of Shut	-in <u></u> Hou	Jrs
Static / Orif			Meter	Differential	Flowing	Well Head Temperature	Wellhead P		Tubing Wellhead Pressure		Duration	Liquid Produced	
Dynamic Property	Size (inches)		Prover Pressur		Temperature t	t	$(P_w)$ or $(P_i)$ or $(P_s)$		(P <sub>a</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		(Hours)	(Barrels)	
. ,		-	psig (Pm)	Inches H <sub>2</sub> 0	<u> </u>	_ `	psig	psia	psig	psia ,		+	_
Shut-In				, r.			97				,	<u>, </u>	
Flow					,								
<u> </u>			•		٦ .	EI OW STR	EAM ATTRI	RIITES	L		4 8 4		_
			Circle ons:	·	<del></del>	72017 3111			',		·*		
. Plate Coeffieci			Meter or	Press Extension	Grav Faci	·   T	Flowing emperature		iation	Metered Flov		l Cluid	
(F <sub>b</sub> ) (F	,)	Pro	ver Pressure	√ P <sub>m</sub> xh	F <sub>c</sub>		Factor	1 _	ctor	R (Mcfd)	(Cubic Fo	Gravity	
Mcfd			psia .				F,,	ļ	F			′ G <sub>m</sub>	_
							,					,	1
	•				(OPEN FLI	OW) (DELIVI	ERABILITY).	CALCUL	ATIONS	'1			
(D \2			(P <sub>w</sub> ) <sup>2</sup> =_		P <sub>d</sub> =		, ,	- 14.4) +			(P <sub>a</sub> )	) <sup>2</sup> = 0.207	3
(P <sub>c</sub> ) <sup>2</sup> =				hoose lormula 1 or 2		<del></del>			1		i ·	/- <del>-</del>	$\overline{}$
(P <sub>c</sub> ) <sup>2</sup> - (F	)2 (4)	· (F	(P <sub>w</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	1. P <sub>c</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup>	LOG of ,	,		sure Curve = "n"	пх			Open Flow Deliverability	
or (P <sub>c</sub> )²- (F	D 12		,	2: P.2-P.2	formula 1, or 2.		Δ99	or gned	·   " ^		Antilog	Equals R x Antilo	og
, , c, ,	a,		di	vided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	and divide by:	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>		rd Slope	].,	الانا		(Mcfd)	
				:					ĺ			*	
	•		· · · ·		<del> </del>		-		-			<del>'</del>	$\dashv$
				r.						' '			
Open Flov	Ņ			Mcfd @ 14.	65 psia		Deliverabil	ity			Mcfd @ 14.65 ps	ila	
		!== -		habat at ti	0	1_11	عادیات کار	h = ul= = 111	, , , 1		<del></del>	<del> </del>	_
The i	inders	igned	authority, on	behalf of the	Company, s	tates that he	e is duly aut	À	k.	ie above repo	rt and that he ha		
the facts st	tated t	herei	n, and that said	d report is true	and correc	t. Executed	this the	<u> </u>	day of		May	, 20	
						• •	1				_		
•			Witness (if a	nvi	<u> </u>	<del></del> ;	_		•	ForC	`. Сотралу		—
				• •							. +		
	,	-	For Commis	sion		. '		1		Chec	ked by		_

exempt status under Rule K.A.R. 82-3-304 on behalf of the operator	rue and records named.
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	TCC WILL
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	Ay 10
I further agree to supply to the best of my ability any and all supporting documents deemed by Corstaff as necessary to corroborate this claim for exemption from testing.	-
Date:	

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.