**RECEIVED** 

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

	ti			{	OCC MISTRE	10113 011 110	verse Side	"			
Op	en Flow							* 51 :	No. 45 07	7 21202 00	200
X De	liverabilt	у		Test Date	<b>Э</b> :			API	NO. 15 _U/	7-21393-00	100
Company	·	en e	,	,_ I		Lease		. , ,	Ē		Well Number
Ons	hore_	116			•	Carr					2
County	1101.6	Locatio	n	Section	-	TWP	•	RNG (E/	V)		Acres Attributed
Har						315					•
Field	-F.G.,		<u> </u>	Reservoir	<u> </u>			Gas Gath	ering Conn	ection	
Spi	vev (	Grabs	•	Miss	S	4.87	•	Gas Gath	neer		* * * * * * * * * * * * * * * * * * * *
Completio				Plug Baci	k Total Dep	th		Packer S	et at 🗀 ,	11.1 HELF 11	• : ) •
: 4/2	4/01	Weight	٠,,,,	Plug Back 4469	)'`	-	•	none			·
Casing S		Weight	-	Internal C	Diameter	Set	atr '	Perfor	ations	То	
5-1	/2"	15.	5			448	321	437	71.	4393	
Tubing Si	ize	Weight	<u> </u>	Internal E	Diameter	Set	at	Perfor	ations	То	
2-7		_						2sr	٠£		
Type Con	npletion	(Describe)	***************************************	Type Fluid	d Production	n		Pump Uni	t or Traveling	Plunger? Yes	/ No
• •	-		١								
——51n Producina	1 <b>91-e</b> (	COT-LA-GAS Annulus / Tuning	<del>}</del>	cruc	arbon Dioxi	a—Saltw de	vater	% Nitroge	on	Gas Gr	avity - G_
1 100001112	g IIII (/	time to a rating,	1	70 0	dibon blox		į·,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			, -g
<u> </u>	<u>iuius</u>										Run) (Prover) Size
Vertical D	pepin(H)			• :	Pres	sure Taps	1.4		्रे क्षे	(Meter)	Hun) (Plovel) Size
· <u>'</u>		· · · - · - ·	<u>-</u>			:				10.0	
Pressure	Buildon:	Shut in	y 10,-2 <sub>5</sub>	013	8:00 a	IM ' (AM) (PM)	Taken	July 1	1, 2013	at 10:0	Oam (AM) (PM)
riossuie	Dulloup.	Shut itt		.v at		(2001):(1.101)	Idkeit	1/2	t		(/, (. /,
Well on Li	ine:	Started	2	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)
ــــــ											
	1.5		* * *.		OBSERVE	D SURFAC	E DATA			Duration of Shut-	in Hour
		Circle one:	Pressure			- Cas	sina	; ти			5
Static /	Orifice Size	Meter	Differential	Flowing	Well Head	1	Pressure		d Pressure	Duration	Liquid Produced
Dynamic   Property	(inches	Prover Pressure	1	Temperature t	Temperature	(P <sub>w</sub> ) or (F	) or (P <sub>c</sub> )	(P <sub>#</sub> ) or (	$(P_i)$ or $(P_a)$	(Hours)	(Barrels)
· topotty	(	psig (Pm)	Inches H <sub>2</sub> 0	·	·	psig	psia	psig	psia	<u> </u>	·
Shut-In						550	564.4				<u>.</u> :
								<u>-</u>			
Flow		+				1 1			1 1		ł
	ļ.,			l_					_1		
			<u> </u>	l <u>-</u>	FLOW STR	EAM ATTR	IBUTES	<u> </u>	_l		
	· .	Cimia one:		<u> </u>	FLOW STR	EAM ATTR	BUTES				Elouina
Plate	1	Circle one: Meter Or	Press	Grav	rity	Flowing	Dev	ation	Metered Flov		Fiowing Fluid
Coeffieci	ient	Circle one: Meter or Prover Pressure	Extension	Fact	rity lor	Flowing Temperature	Dev Fa	ctor	R	(Cubic Fe	et/ Fluid Gravity
	ient ")	Meler or		1	rity lor	Flowing Temperature	Dev Fa				et/ Fluid
Coeffici	ient ")	Meter or Prover Pressure	Extension	Fact	rity lor	Flowing Temperature	Dev Fa	ctor	R	(Cubic Fe	et/ Fluid Gravity
Coeffici	ient ")	Meter or Prover Pressure	Extension P <sub>m</sub> x h	Fact	rity lor	Flowing Temperature	Dev Fa	ctor	R	(Cubic Fe	et/ Fluid Gravity
Coeffici	ient ")	Meter or Prover Pressure	Extension P <sub>m</sub> x h	Fact F <sub>e</sub>	or T	Flowing Temperature Factor F <sub>II</sub>	Dev Fa F	ctor	R	(Cubic Fe Валгеі)	et/ Fluid Gravity G <sub>m</sub>
Coeffici (F <sub>b</sub> ) (F <sub>c</sub> Mord	ient ")	Meter or Prover Pressure psia	Extension P <sub>m</sub> x h	Fact F <sub>e</sub>	or 1	Flowing femperature Factor F <sub>II</sub>	Dev Fa F	ATIONS	R	(Cubic Fe Barrel)	Fluid Gravity  G <sub>m</sub> 2 = 0.207
Coeffiect (F <sub>b</sub> ) (F <sub>c</sub> Mcfd	ient ")	Meter or Prover Pressure psia	Extension  P <sub>m</sub> xh	(OPEN FLC	or 1	Flowing femperature Factor F <sub>II</sub>	Dev Fa F	ATIONS	R	(Cubic Fe Валгеі)	Fluid Gravity  G <sub>m</sub> 2 = 0.207
Coeffici (F <sub>b</sub> ) (F Modd	ient ,	Meter or Prover Pressure psia   (P <sub>w</sub> ) <sup>2</sup> =	Extension P <sub>m</sub> x h	(OPEN FLC	or 1	Flowing femperature Factor Fit Fit FRABILITY 6 Backpre	Dev Fa F ) CALCUL P <sub>c</sub> - 14.4) +	ATIONS	R	(Cubic Fe Barrel)	Fluid Gravity  G <sub>m</sub> 2 = 0.207 2 = Open Flow
Coefficia (F <sub>b</sub> ) (F <sub>c</sub> ) (F <sub>c</sub> ) Modd $P_c)^2 = {}$ $(P_c)^2 - (F_c)^2 -$	ient p) /	Meter or Prover Pressure psia	Extension  P <sub>m</sub> x h  : thoose formula 1 or 2  1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup>	(OPEN FLC	or 1	Flowing femperature Factor Fit Fit FRABILITY 6 Backpre	Dev Fa F ) CALCUL	ATIONS	(Mcfd)	(Cubic Fe Barrel)	Pluid Gravity  Gm  2 = 0.207  2 = Open Flow Deliverability
Coeffici (F <sub>b</sub> ) (F Modd	ient p) /	Meter or Prover Pressure psia  (P <sub>w</sub> ) <sup>2</sup> =	Extension  P <sub>m</sub> x h  : : : : : : : : : : : : : : : : : :	Fact F <sub>0</sub> (OPEN FLC P <sub>d</sub> =  LOG of formula 1, or 2, and divide	or 1	Flowing Femperature Factor F,, ERABILITY % (F Backpre Slop	Dev Fa F ) CALCUL C <sub>c</sub> - 14.4) + ssure Curve pe = "n" - or	ATIONS 14.4 =	(Mcfd)	(Cubic Fe Валеі) (Р <sub>а</sub> )	et/ Fluid Gravity  G <sub>m</sub> 2 = 0.207  2 = Open Flow Deliverability Equals R x Antilog
Coefficia $(F_b)(F_c)$ Modd $P_c)^2 = $ $(P_c)^2 - (F_c)^2$ or	ient (p) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	Meter or Prover Pressure psia  (P <sub>w</sub> ) <sup>2</sup> =	Extension  P <sub>m</sub> x h  : thoose formula 1 or 2  1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup>	Fact F <sub>0</sub> (OPEN FLC P <sub>d</sub> =  LOG of formula 1, or 2, and divide	OW) (DELIV	Flowing Femperature Factor F,, ERABILITY % (F Backpre Slop	Dev Fa F	ATIONS 14.4 =	(Mcfd)	(Cubic Fe Валеі) (Р <sub>а</sub> )	Pluid Gravity  Gm  2 = 0.207  2 = Open Flow Deliverability
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Coeffici (F <sub>0</sub> ) (F <sub>0</sub> ) (F <sub>0</sub> ) (Modd	ient (p) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	Meter or Prover Pressure psia  (P <sub>w</sub> ) <sup>2</sup> =	Extension  P <sub>m</sub> x h  coose formula 1 or 2  1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> wided by: P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup>	Fact Fo  (OPEN FLC Po = LOG of formula 1. or 2. and divide by:	OW) (DELIV	Flowing Femperature Factor Fit Factor Fit Backpre Slop As Stand	Dev Fa F	ATIONS 14.4 =	(Mcfd)	(Cubic Fe Barrel)  (P <sub>a</sub> )  (P <sub>d</sub> )	et/ Fluid Gravity G <sub>m</sub> 2 = 0.207 2 = Open Flow Detiverability Equals R × Antilog (Mcfd)
Coefficia $(F_b)$ $(F_b)$ $(F_b)$ $(F_c)^2 = $ $(P_c)^2 - (F_c)^2 - (F_c)^2 = $ Open Flow	ient (,)	Meter or Prover Pressure psia  (P <sub>w</sub> ) <sup>2</sup> =	Extension  P <sub>m</sub> x h	(OPEN FLC  P <sub>d</sub> =  LOG of tormula 1. or 2. and divide by:	DW) (DELIV	Flowing Femperature Factor Fit  ERABILITY  (Fit  Backpre Slop  As Stand	Dev Fa F	ATIONS 14.4 =	R (Mcfd)	(Cubic Fe Barrel)  (P <sub>a</sub> )  (P <sub>d</sub> )  Antilog	et/ Fluid Gravity G <sub>m</sub> 2 = 0.207 2 = Open Flow Deliverability Equals R x Antilog (Mcfd)
Coefficia $(F_b)$ $(F_b)$ $(F_b)$ $(F_c)^2 = $ $(P_c)^2 - (F_c)^2 - (F_c)^2 = $ Open Flow	ient (,)	Meter or Prover Pressure psia  (P <sub>w</sub> ) <sup>2</sup> =	Extension  P <sub>m</sub> x h	(OPEN FLC  P <sub>d</sub> =  LOG of tormula 1. or 2. and divide by:	DW) (DELIV	Flowing Femperature Factor Fit  ERABILITY  (Fit  Backpre Slop  As Stand  Deliverab e is duly au	Dev Fa F	ATIONS  14.4 =  n x L0	(Mcfd)	(Cubic Fe Barrel)  (P <sub>a</sub> )  (P <sub>a</sub> )  Antilog  Mcfd @ 14.65 psi	et/ Fluid Gravity G <sub>m</sub> 2 = 0.207 2 = Open Flow Deliverability Equals R x Antilog (Mcfd)
Coefficia $(F_{o})/F_{o}$ Modd $(F_{o})^{2} = \frac{(F_{o})^{2}}{(F_{o})^{2}}$ $(F_{o})^{2} = \frac{(F_{o})^{2}}{(F_{o})^{2}}$ The u	ient  p)  2 2 2 2 3 2 2 3 2 3 2 3 3 3 3 3 3 3 3	Meter or Prover Pressure psia  (P <sub>w</sub> ) <sup>2</sup> =	Extension  P <sub>m</sub> x h	(OPEN FLC  Pd =  LOG of tormuta 1. or 2. and divide by:  65 psia  Company, st	DW) (DELIV	Flowing Femperature Factor Fit  Backpre Slop As Stand Deliverab	Dev Fa F	ATIONS  14.4 =  n x L0	R (Mcfd)	(Cubic Fe Barrel)  (P <sub>a</sub> )  (P <sub>a</sub> )  Antilog  Mcfd @ 14.65 psi	et/ Fluid Gravity G <sub>m</sub> 2 = 0.207 2 = Open Flow Deliverability Equals R x Antilog (Mcfd)
Coefficial (F <sub>b</sub> ) (F <sub>c</sub> ) (F <sub>c</sub> ) (F <sub>c</sub> ) (P <sub>c</sub> ) <sup>2</sup> - (F <sub>c</sub> ) (P <sub>c</sub> ) <sup>2</sup> - (F <sub>c</sub> ) (P <sub>c</sub> ) (	ient  p)  2 2 2 2 3 2 2 3 2 3 2 3 3 3 3 3 3 3 3	Meter or Prover Pressure psia $(P_w)^2 = $ $(P_c)^2 - (P_w)^2$ decided authority, on	Extension  P <sub>m</sub> x h	(OPEN FLC  Pd =  LOG of tormuta 1. or 2. and divide by:  65 psia  Company, st	DW) (DELIV	Flowing Femperature Factor Fit  Backpre Slop As Stand Deliverab	Dev Fa F	ATIONS  14.4 =  n x LG	(Mcfd)	(Cubic Fe Barrel)  (P <sub>a</sub> )  (P <sub>a</sub> )  Antilog  Mcfd @ 14.65 psi	et/ Fluid Gravity G <sub>m</sub> 2 = 0.207 2 = Open Flow Deliverability Equals R x Antilog (Mcfd)
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Coefficial (F <sub>b</sub> ) (F <sub>c</sub> ) (F <sub>c</sub> ) (F <sub>c</sub> ) (P <sub>c</sub> ) <sup>2</sup> - (F <sub>c</sub> ) (P <sub>c</sub> ) <sup>2</sup> - (F <sub>c</sub> ) (P <sub>c</sub> ) (	ient  p)  2 2 2 2 3 2 2 3 2 3 2 3 3 3 3 3 3 3 3	Meter or Prover Pressure psia $(P_w)^2 = $ $(P_c)^2 - (P_w)^2$ decided authority, on	Extension  P <sub>m</sub> x h	(OPEN FLC  Pd =  LOG of tormula 1. or 2. and divide by:  65 psia  Company, st	DW) (DELIV	Flowing Femperature Factor Fit  Backpre Slop As Stand Deliverab	Dev Fa F	ATIONS  14.4 =  n x L0	above repo	(Cubic Fe Barrel)  (Pa) (Pd)  Antilog  Mcfd @ 14.65 psi	et/ Fluid Gravity G <sub>m</sub> 2 = 0.207 2 = Open Flow Deliverability Equals R x Antilog (Mcfd)

and that the foregoin	g pressure information and statements contained on this application form are true and
of equipment installati	my knowledge and belief based upon available production summaries and lease records ion 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 theCarr #2
gas well on the ground	
(Check one	<b>)</b>
isa	a coalbed methane producer
iso	cycled on plunger lift due to water
——————————————————————————————————————	source of natural gas for injection into an oil reservoir undergoing ER
∐ is o	n vacuum at the present time; KCC approval Docket No
l., i	
X is π	tot capable of producing at a daily rate in excess of 250 mcf/D
I further agree to s	tot capable of producing at a daily rate in excess of 250 mcf/D supply to the best of my abitity any and all supporting documents deemed by Commission corroborate this claim for exemption from testing.
I further agree to s	supply to the best of my ability any and all supporting documents deemed by Commission corroborate this claim for exemption from testing.
I further agree to staff as necessary to d	supply to the best of my ability any and all supporting documents deemed by Commission corroborate this claim for exemption from testing.
I further agree to staff as necessary to d	supply to the best of my ability any and all supporting documents deemed by Commission corroborate this claim for exemption from testing.
I further agree to staff as necessary to d	supply to the best of my ability any and all supporting documents deemed by Commission corroborate this claim for exemption from testing.
I further agree to staff as necessary to d	supply to the best of my ability any and all supporting documents deemed by Commission corroborate this claim for exemption from testing.

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.