Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	t;				(See Instruct	tions on Reve	erse Side))			
□ Ор	en Fi	wc								೧၁३	-21202-00-00	1
☐ De	liveral	bilty			Test Date	3 :			AP	I No. 15 -023	-2 1202-00-00	
Company							Lease					Well Number
		Ene	erov Manad	gement, LLG		KF	LLER FAR	RMS				31-18
County	auoi.		Locati		Section		TWP		RNG (E	:/W)		Acres Attributed
CHEYE	NNE	:		-NW-NE	_	18	28		•	8W		
Field					Reservoi	7			Gas Ga	thering Conne	ection	
CHERF	RY C	REE	K		NIOBR	ARA			SOUT	THERN STA	AR	
Completion		te			•	k Total Dept	h		Packer :	Set at		
1/9/200		_			1479'							
Casing S			Weigh		Internal I		Set at		Perfo	orations	To	
7", 4½'			17#, 11.6# Weight			6.538, 4.000		229', 1518'		1268'	1310'	
Tubing Si 2-3/8"	ızə		4 7.11			Internal Diameter 1.995		Set at 1332'		orations	То	
Type Con	noletic	n (D		7.117		d Production		<u> </u>	Pump U	nit or Traveling	Plunger? Yes	/ No
SINGL	-	-				WATER	,		· ump c	int or mayoning		PUMP
			nulus / Tubing)		arbon Dioxi	de		% Nitrog	gen	Gas Gr	avity - G
ANNUL	_	·	-	•					`	=		•
Vertical D	Depth(H)				Pres	sure Taps				(Meter f	Run) (Prover) Size
	5.44		Ob 1. 1-	11/6	. 14	B:15 AM	(AAA) (BAA) -				at	(AAA) (DAA)
Pressure	Bulla	•	Shut in	4417	0at	2.45 AM	(AM) (PM)	laken		20	at	(AM) (PM)
Well on L	ine:		Started	11/7 2	0 <u>14</u> at <u> </u>	S: 15 AW	(AM) (PM)	Taken	 -	20	at	(AM) (PM)
				•		OBSERVE	D SURFACE	DATA		- ,	Duration of Shut-	in 24 Hours
Static /	Orif	ice	Circle one: Meter	Pressure Differential	Flowing	Well Head	Casin Welihead P	-		Tubing ead Pressure	Duration	Liquid Produced
Dynamic	Si		Prover Pressu		Temperature t		(P_) or (P,)			or (P ₁) or (P _c)	(Hours)	(Barrels)
Property	(incl	108)	psig (Pm)	Inches H ₂ 0	ι	t	psig	psia	psig	psia	KCC	MICHITA
Shut-In							103					
									 	_	ÛĔÛ	1 1 2014
Flow						<u>l</u>					F-1 F-1	<u> </u>
						FLOW STR	EAM ATTRI	BUTES			KE.	CEIVED
Plate			Circle one:	Press	Grav	vitv	Flowing	Dev	iation	Metered Flow	GOR	Flowing
	Coefficient (F _b) (F _c)		Meter or ver Pressure	Extension	Fac	tor 7	emperature Factor	1	ctor	R	(Cubic Fe	V Fluid Gravity
Mefd		'''	psia	√ P _m xh	F,	3	Fn	٦	pv	(Mcfd)	Barrel)	G _m
<u></u>										!		
					(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS		(P _a)	2 = 0.207
(P _c) ² =		_:	(P _w)² =	:	P₀=		% (Р _с	- 14.4) +	14.4 = _	:	(P _d)	²=
(5.13.4)	D 12			Choose formula 1 or 2	LOG of	ГП		sure Curve	,	רח		Open Flow
(P _a) ² - (I		"	P _e) ² - (P _w) ²	1, P _c ² -P _a ²	formula		Slope	9 = "n" 3r	n x	LOG	Antilog	Deliverability
(P _c) ² - (1	P _a) ²			2. P ₂ - P _d ²	1. or 2. and divide	P.2. P.2		gned		1 11	•	Equals R x Antilog (Mcfd)
			<u>'</u>	tivided by: $P_c^2 - P_w$	2 by:	<u> </u>	Starioa	rd Slope				(,
												1
<u> </u>			<u>·</u>							•		<u> </u>
Open Flor	W			Mcfd @ 14.	65 psia		Deliverabil	ity			Mcfd @ 14.65 psi	<u>a</u>
The i	unders	signe	authority, or	behalf of the	Company,	states that h	e is duly aut	horized to	o make t	he above repo	rt and that he ha	s knowledge of
the feets -	الممومة	th a size	n and that	id report is true	- and save-	t Evenished	thic the	5	day of	DEC	EMBER	₂₀ 14
uie iacis \$	iaieo i	merei	m, and that Sa	и тероп із ти	anu conec	. Executed	uns me		day of			, 20
			Wilness (i	any)			_			ForC	Company	
					•		_					
			For Comm	ssion						Chec	cked by	

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operatorFoundation Energy Management, LLC and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation 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 the		
(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 is not capable of producing at a daily rate in excess of 250 mcf/D I further agree to supply to the best of my ability any and all supporting documents deemed by Commissi staff as necessary to corroborate this claim for exemption from testing. Date:	exempt status used and that the following correct to the boot of equipment in I hereby reconstructions.	regoing pressure information and statements contained on this application form are true and est of my knowledge and belief based upon available production summaries and lease records installation and/or upon type of completion or upon use being made of the gas well herein named. Quest a one-year exemption from open flow testing for the
Date: 12/5/2014 KCC WICHITA DEI' 11 2014 RECEIVET RECEIVET		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 is not capable of producing at a daily rate in excess of 250 mcf/D
Title: OPERATIONS ASSISTANT	1	2/5/2014 KCC W!C!!!The DEI' 1 2014 OEI' 1 2014 Signature: Xushu Mathut OPERATIONS ASSISTANT

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.