KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruct	tions on Reve	erse Side	?)					
Open Flow					Total Date:				API No. 15 023-20549-00-00					
De	liverab	ilty			Test Date	€:			API	No. 15 020	20040-00			
Company	,						Lease				•	Well Nu		
Foundation Energy Management, LLC										13-3				
County Location CHEYENNE NWSW			Section TWP 3S				RNG (E	/w) 1₩	,	Acres Attributed				
Field			744761	•	Reservoir					thering Conn	ection			
CHERRY CREEK			NIOBRARA				Kinder Morgan/Southern Star							
5/23/20		е			Plug Bac 1595'	k Total Dept	h		Packer 8	Set at				
Casing Size			Weigh	t	Internal Diameter		Set at		Perforations		То	То		
7", 4 ½"			20# 10.5#		6.456, 4.052		290', 1638'		1450'		1486'			
Tubing Size			Weight 4.7#		Internal Diameter 1.995		Set at 1562'		Perforations		To	То		
2 3/8" Type Con	npletio	1 (De		4.1#		ອອວ d Productior		002	Pump U	nit or Traveling	Plunger? Yes	/ No		
SINGLE					SALTWATER							ROD PUMP		
	_	(Anı	nulus / Tubing)	% C	arbon Dioxi	de		% Nitrog	jen	Gas Gr	avity - G	à _o	
ANNUL		1		.		Desar	T				/h.ft	2.12\ /D.	Oine	
Vertical D	epinitu	')				Pres	sure Taps				(Ivieter i	tun) (Pi	over) Size	
				12/2	. 15 . 3	3:30 PM	// / / / / / / / / / / / / / / / / / /							
Pressure	Buildu		Shut in	12/3	15 25	8:30 PM	(AM) (PM)	aken			at	(AM) (PM)	
Well on L	ine:		Started	12/3 2	0 <u>10</u> at		(AM) (PM) T	aken		20	at	(AM) (PM)	
						OBSERVE	D SURFACE	DATA			Duration of Shut-	2	4 Hours	
Static / Orifice Dynamic Size		re	Circle one:	Pressure	Flowing	Well Head	ead Casing		Tubing					
		Meter Prover Pressur		Differential in	Temperature	Temperature	1	elinead Pressure		ead Pressure r (P ₁) or (P ₆)	Duration (Hours)		Liquid Produced (Barrels)	
Property	(inch	es)	psig (Pm)	Inches H ₂ 0	t	t	psig	psia	psig	psia		ļ`		
Shut-In							62				_	<u> </u>		
Flow														
! _ '						FLOW STR	EAM ATTRIE	BUTES						
Plate			Circle one:	Press	Grav	itu	Flowing	Dov	iation	Metered Flov	v GOR		Flowing	
Coeffiecient (F _b) (F _p)		Meter or Prover Pressure		Extension	Fact	tor T	femperature Factor	Fa	ctor	R	(Cubic Fe	et/ Fluid Gravity		
Mcfd			psia	✓ P _m xh	F	, ,	F _{tt}		F _{pv} (Mcfd)		Barrel)		G _m	
							14							
					(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS		(D.)	2_ 00	07	
(P _c) ² =		_:	(P _w)² ≔ຸ	:	P₀≃	9	, (Ρ _ε	- 14.4) +	14.4 =	:	(P _d)	2 = 0.2 2 =		
	7.12			Choose formula 1 or 2	_	$\overline{\Gamma}$	Backpress	ure Curve	1	Γh		Ор	en Flow	
$(P_a)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$				1. P _c ² -P _s ² 2. P _c ² -P _c ²	formula			Slope = "n"		LOG	Antilog	I	Deliverability Equals R x Antilog	
(P _c) ² - (F	P _d) ²		ļ.	divided by: P _c ² - P _w	and divide	P _c ² -P _w ²		gned d Slope		LJ		-	Mcfd)	
							1							
	ł				-									
						-		<u> </u>						
Open Flor	w			Mcfd @ 14.	.65 psia		Deliverabil	ity		•	Mcfd @ 14.65 psi	a		
The i	undersi	gne	d authority, or	behalf of the	Company, s	states that h	e is duly autl	horized t	o make tl		rt and that he ha			
the facts s	tated ti	nerei	n, and that sa	id report is tru	e and correc	t. Executed	this the	17	day of	DEC	CEMBER	,;	<u>15</u>	
						R. R	Received							
			Witness (ii	any)		<u>ransas co</u> rf	ORATION COM	HISSION		For	Сотралу			
			For Comm	seion		DEC	2 1 2019	.		Char	cked by			
			-or comm	aaiUII		CONOCE		-		Cher	oned by			

exempt sta and that the correct to of equipment I here	are under penalty of perjury under the laws of the state of Kansas that I am authorized to request atus under Rule K.A.R. 82-3-304 on behalf of the operator Foundation Energy Management, LLC he foregoing pressure information and statements contained on this application form are true and the best of my knowledge and belief based upon available production summaries and lease records ent installation and/or upon type of completion or upon use being made of the gas well herein named. by request a one-year exemption from open flow testing for the ZWEYGARDT 13-32 in the grounds that said well:
	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 er agree to supply to the best of my ability any and all supporting documents deemed by Commission excessary to corroborate this claim for exemption from testing.
Date:	12/17/2015
	Signature:

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 daim 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.