KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	ype Test: (See Instru					uctions on Re	verse Side))						
Op	Open Flow						•			No. 15 023	_20042_0	IN_NN		
☐ De	liveral	bilty			Test Date	B:			API	No. 15 043	-20042-0	, 0-00		
Company	v	-	_	_			Lease						Vell Number	
		Ene	ergy Mana	agement, LL	С		ZWEYGAF	RDT				•••	1-32	
County Location			Section TWP			·- ·	RNG (E/W)			Acres Attributed				
CHEYENNE C-NW				32	38	3S		41W						
Field				- <u>-</u>	Reservoi	r			Gas Ga	thering Conn	ection			
CHERRY CREEK				NIOBRARA				Kinder Morgan/Southern Star						
Completi		te				k Total D	epth		Packer (Set at				
10/14/1					1583'									
Casing Size Weight				Internal I		Set at		Perforations		To 4.472!				
8-5/8", 4 ½"			24# 9.5#			8.097, 4.090 Internal Diameter		308', 1621'				1473'		
Tubing Size Weight 2 3/8" 4.			nt 4.7#		Diameter .995		Set at 1483'		Perforations		То			
	nniotic	n (D	ocariba)	4.7#				1403	Rumo II	nit or Traveling	- Plupper2	Yes /	No.	
Type Completion (Describe) SINGLE				Type Fluid Production SALTWATER				rump o	ill or navening	3 Frankler t		PUMP		
		ı (Anı	nulus / Tubir	ng)		Carbon Die			% Nitrog	ren		Gas Grav		
ANNUL	_	. (,	, , , , , , , , , , , , , , , , , , , ,	-9/	,,,,	Jul 3011 2 11			,,,,,,,,,,	,	Ì		, <u>-</u> g	
Vertical D		Hì	- "			Pr	essure Taps				- 1	Meter B	un) (Prover) Size	
	· • • • • • • • • • • • • • • • • • • •	.,					cocaro raps				`	Wicker I i	211) (1 10101) 0120	
				10/28	11	OLOO AN	<u> </u>							
Pressure	Build	ıp:	Shut in	10/26	20 <u>14</u> at	6.00 AIV	(AM) (PM)	Taken		20	at		(AM) (PM)	
Well on Line: Started 10/29 20 14 at 8:00 A						8:00 AM	(AM) (PM)	_ (AM) (PM) Taken 2		20	at	at(AM) (PN		
							_ ("", ("",						(*, (,	
						OBSER	VED SURFAC	E DATA			Duration o	of Shut-in	24Hours	
			Circle one: Pressure		T		Casina		Tubing		1	1		
		ifice Meter		Differential	Flowing Temperature	Well Hea	wellhead	Wellhead Pressure		Wellhead Pressure		on .	Liquid Produced	
Property		nches) Prover Pres			t	t	(P _w) or (P _t) or (P _c)		(P _w) or (P _t) or (P _c)		(Hour	s)	(Barrels)	
			po.g ()	11101103 1120	 		psig	psia	psig	psia	- "			
Shut-In							60		<u> </u>					
Flow						ľ								
I	_	-	1			ELONI 6.	TREAM ATTR	IDIITEC			1			
			Circle ane:	<u> </u>		1 2017 3		100123						
Plate Coeffiecient			Meter or	Press Extension	Gra		Température I		viation Metered Flow				Flowing Fluid	
(F _b) (F _b)		Pro	ver Pressure	√ P _m xh	Fac F		Factor F		actor R F _{pv} (Mcfd)		(0	Cubic Feet Barrel)	Gravity	
Mcfd			psia	¥ 1 m^11		•	F _{it}		pv (ivicia)				G _m	
				<u>-</u>							<u> </u>		'	
					-		IVERABILITY	•					= 0.207	
P _c)² =		_: _	(P _w) ²		P _d =		_% (F	² _c - 14.4) +	14.4 = _	:		(P _d) ² :	<u> </u>	
(P _a) ² - (P _a) ²		/ / -	° _c)² - (P _w)²	Choose formula 1 or 1. P _c ² -P _a ²	2: LOG of		Backpressure Curv		,	Γ٦			Open Flow	
or (P _a) ² - (P _d) ²		٧.	c, (, m)	2. P ² P ²	formula 1. or 2.		Slope = "n"		_ n x	LOG	Antilo	g	Deliverability Equals R x Antilog	
(P _a) ² - (P _d) ²				divided by: P2-P	and divide	P.2-P.2	Assigned Standard Slope						(Mcfd)	
				anded by: Fg - F,	·	<u> </u>		ara bibpo	-			\longrightarrow	· · ·	
Open Flor	W			Mcfd @ 14	.65 psia	_	Deliverab	ility			Mcfd @ 14	.65 psia		
The t	unders	igned	d authority, o	on behalf of the	Company, s	states that	he is duly au	thorized to	o make ti	ne above repo	ort and that	he has	knowledge of	
					,		1 41 7 - 1/	12		NO	VEMBER	₹	. 14	
e racts st	iated t	nerei	n, and that s	aid report is tru	e and correc	a. ⊏xecut	ea inis ine		day of				, 20	
													Dessired	
			Witness	(if any)					-	Ford	Company	KANSAS	Received CORPORATION COMM	
					· _ .									
			For Com	mission						Che	cked by	N	IUV 14 2014	
													•	

exempt state and that the correct to the of equipment	the under penalty of perjury under the laws of the state of Kansas that I am authorized to request us under Rule K.A.R. 82-3-304 on behalf of the operatorFoundation Energy Management, LLC eforegoing 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 not installation and/or upon type of completion or upon use being made of the gas well herein named. It is request a one-year exemption from open flow testing for theZWEYGARDT 1-32 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
	agree to supply to the best of my ability any and all supporting documents deemed by Commission essary to corroborate this claim for exemption from testing.
Date:	11/12/2014
	Signature: Mosco Mathier 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.

Received

KANSAS CORPORATION COMMISSION