KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruct	ions on Re	verse Side)			
Op	en Flo	w									. 1	
√ De	liverab	ilty			Test Date 02/22/20				02	1 No. 15 3-20290 —	0000	
Company		eve	elopment C	orp			Lease Viola					Veil Number -1
County Cheyenne			Location NWNWSE		Section 17		TWP 2S		RNG (E/W) 41W		Acres Attributed 160	
Field Cherry	Cree	k			Reservoir Niobrar		,			thering Conn Eureka Gat		
Completion 12/19/1		e			Plug Bac 1645'	k Total Dept	h		Packer : n/a	Set at		
Casing S 4.5"	ize		Weigh 10.5#	Internal Diameter Set at Perforations To 4" 1695' 1504' 1536'								
Tubing S 2.375"	ize		Weigh 4.75#		Internal Diameter Set at Perforations To 2" 1555'							
Type Con N2 Frac		n (D	escribe)		Type Flui Brine V	d Production Vater	า	•	Pump U Yes, F		Plunger? Yes	/ No
Producing Annulus	_	(An	nulus / Tubing)	% C <1%	arbon Dioxi	de		% Nitros <1%	gen	Gas Gra	avity - G _g
Vertical E	Depth(F	1)				Pres	sure Taps				(Meter F	Run) (Prover) Size
Pressure	Buildu	p:	Shut in 02/	22 2	0 <u>11</u> at <u>1</u>	1:05am	(AM) (PM)	Taken_02	2/23	20	11 at 12:28p	m (AM) (PM)
Well on L	ine:		Started	2	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)
						OBSERVE	D SURFAC	E DATA			Duration of Shut-i	n_24Hours
Static / Dynamic Property	Orifi Siz (Inch	9	Circle ene: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	(P _w) or (F	Pressure	Wellho	Tubing ead Pressure or (P ₁) or (P ₂)	Duration (Hours)	Liquid Produced (Barrels)
Shut-In				2			psig 180	psia	psig	psia		
Flow	, ,											
	T				1	FLOW STR	EAM ATTR	IBUTES		I	. 	
Plate Coeffiec (F _b) (F Mold	ient p)	Pro	Circle one: Meter or over Pressure psia	Press Extension	Grav Fact F _s	tor 1	Flowing femperature Factor F _{ft}	Fa	iation ctor	Metered Flor R (Mcfd)	w GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G _m
(P _c) ² =			(P _w) ² =	:	(OPEN FLO	OW) (DELIV		') CALCUL ⁻ 。 - 14.4) +		:	(P _a) ² (P _d) ²	= 0.207 =
			1	Chaose formula 1 or 2	:	<u> </u>		ssure Curve			\. d/	Open Flow
(P _c) ² - (I	•	(F	P _a)2 - (P _w)2	1. P _c ² -P _a ² 2. P _c ² -P _e ² #ivided by: P _c ² -P _w ²	LOG of formula 1. or 2. and divide by:	P _c ² - P _y ²	Slo As	pe = "n" - or signed lard Slope		rog	Antilog	Deliverability Equals R x Antilog (Mcfd)
							<u> </u>					
Open Flo	w			Mcfd @ 14.	65 psia		Deliverat	oility			Mcfd @ 14.65 psia	a
				behalf of the			-		o make to	·	ort and that he has	s knowledge of, 20
			Witness (I	any)	.=		-	_9	A.	// Fort	R	ECEIVED-
			For Comm				-		-		. , ,	UG 0 2 2011-

exempt status und and that the foreg correct to the bes of equipment insta	er penalty of perjury under the laws of the state of Kansas that I am authorized to request ler Rule K.A.R. 82-3-304 on behalf of the operator Petroleum Development Corp going pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named.
	ounds 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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
	Signature: Sr. Engineering Tech

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.

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AUG 0 2 2011

KCC WICHITA