KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	st:				(See Instruc	tions on Rev	erse Side))					
Open Flow ✓ Deliverabilty				Test Date	Test Date:				l No. 15					
		onty			08/25/2	009			023	3-20932	8 0			
Petroleu		velo	pment Cor	poration			Lease Culwell				41-8	Well Nu	mber	
County Cheyenne			Location NENE		Section 8			TWP 5S		/W)		Acres Attributed 320		
Field Cherry (Creek				Reservoi Niobrar					thering Conn Prury Pipeline				
Completi 03/12/20		te			Plug Bac 1578'	k Total Dep	h Packer N/A		Set at					
Casing Size 4 1/2"			Weight 10.5#		internal [4"	Internal Diameter 4"		Set at 1599 '		orations '0'	то 1432'	· -		
Tubing Size 2 3/8"			Weig 4.75		Internal [2"	Diameter	Set at 1456'		Perforations		То	То		
Type Cor N2 Frac		n (D	escribe)	· · ·	Type Flui Brine \	d Production Vater	n		•	nit or Traveling Pumping Ur	-	/ No		
Producing Thru (An			nulus / Tubir	ıg)	% C <1%	% Carbon Dioxid		de %		gen	Gas Gr	Gas Gravity - G _g		
Vertical D	Depth(l	H)				Pres	sure Taps				(Meter	Run) (P	rover) Size	
Pressure	Buildu	ıp:	Shut in 08	/25	09 at 9	:27am	(AM) (PM)	Taken 08	3/27	20	09 _{at} 12:32p	om(AM) (PM)	
Well on L	ine:				0 at		(AM) (PM)	Taken		20	at	(AM) (PM)	
						OBSERVE	D SURFACE	DATA			Duration of Shut-	_{in_} 51.	0Hours	
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Press psig (Pm)	1	Flowing Well Head Temperature t t		Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Duration (Hours)		d Produced Barrels)	
Shut-In							145	p0.2	polg	70.0				
Flow														
	<u>1</u>	·····		T	1	FLOW STR	REAM ATTRIE	BUTES			- 1			
Plate Coefficeient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or over Pressure psia	Press Extension P _m x h	Extension Factor		Tomporoturo		ation ctor	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m	
(P _c) ² =			(P \2 -	_	•	• •	ERABILITY)	CALCUL - 14.4) +			(P _a) (P _d)	² = 0.2	07	
				Choose formula 1 or 2			Backpress			 	(' d)			
$(P_c)^2 - (I_c)^2 - (I_c$	P _a) ²	(P	P _c) ² - (P _w) ²	 P_c² - P_a² P_c² - P_d² divided by: P_c² - P_w² 	LOG of formula 1. or 2. and divide by:	P _c ² - P _w ²	Slope d Assig	= "n" r jned	nx	LOG	Antilog	Deli Equals	en Flow verability R x Antilog Mcfd)	
				- c w										
Open Flo				Mcfd @ 14.	65 psia		Deliverabili	tv				<u> </u> а		
		ianec	l authority o			tates that h			make th		rt and that he ha		edge of	
				aid report is true		. Exe <u>cuted</u>	•		day of O	·		, 2		
									>	farry 7	Muss			
			Witness (if any)		OCT	2 6 2009			1 For C	ompany			
			For Comm	nission		KCC \	MICHITA	4		Chec	ked by			

exempt status und and that the foreg	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 Corporation going pressure information and statements contained on this application form are true and tof 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.
I hereby requ	est a one-year exemption from open flow testing for theCulwell 41-8
gas well on the gr	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 eto supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
	Signature: CC WICHITA RECEIVED OCT 2 6 2009 KCC WICHITA

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.