KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:				(See Instruct	tions on Re	verse Side))					
Op	en Fid	w			T						_			
✓ Deliverabilty				Test Date 02/23/26			API No. 15 023-20932)			
Company	y um C	eve	elopment C	orp			Lease Culwel				41-	Well N	umber	
County Cheyenne			Location SWNENE		Section 8		TWP 5S		RNG (E/W) 40W			Acres Attributed 160		
Field Cherry Creek			Reservoir Niobra					ering Conne rury Gathe						
Completion Date 03/12/2008				Plug Back Total Depth 1578'				Packer S n/a	et at					
Casing Size 4.5"			Weight 10.5#		Internal Diameter 4"		Set at 1598'		Perfor 1420	ations)'	To 143	то 1432'		
Tubing Size 2.375"		•	Weigh 4.75#		Internal I	Diameter	ter Set at 1444'		Perforations		То	То		
Type Cor N2 Frac		•	escribe)		Type Flui Brine \	d Production Vater	ו		Pump Un Yes, P	it or Traveling U	Plunger? Ye	es / No		
Producing Thru (Ar			nulus / Tubing	3)	% C	Carbon Dioxid	de	% Ni <19			Gas	Gas Gravity - G		
Vertical C	-	H)			- 70	Press	sure Taps				(Met	er Run) (F	Prover) Size	
1625'							_							
Pressure	Buildu	1b: 	Shut in _02/	23 2	0_11_at_1	0:30am	(AM) (PM)	Taken 02	2/24	20	11 at 10:3	0am	(AM) (PM)	
Well on L	ine:		Started	s	0 at	<u>. </u>	(AM) (PM)	Taken		20	at		(AM) (PM)	
						OBSERVE	D SURFACI	E DATA			Duration of Sh	ut-in 24	. Hours	
Static / Dynamic Property	ımic Size		Circle one: Meter Prover Pressu		Flowing Temperature t	Well Head Temperature	Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liqu	Liquid Produced (Barrels)	
Shut-In	(),,,,		psig (Pm)	Inches H ₂ 0			psig 135	psia	psig	psia		-		
Flow										-				
			· · · · · · · · · · · · · · · · · · ·	1		FLOW STR	EAM ATTR	IBUTES		· · · · · · · · · · · · · · · · · · ·				
Plate Coeffiecient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or over Pressure psia	Press Extension ✓ P _m xh	Extension Fact		Flowing emperature Factor F ₁₁	Deviation Factor F _{pv}		Metered Flow R (Mcfd)	(Cubic	GOR (Cubic Feet/ Barrel)		
									-					
(P _e) ² =		:	(P _w) ² =	:	(OPEN FL	OW) (DELIVI) CALCUL		:		2,)2 = 0.2 2,)2 =	207	
(P _e) ² - (I	-	(F	P _a) ² - (P _a) ²	Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_a^2$	LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Slop As:	ssure Curve oe = "n" or signed ard Slope	l n x t	og [Antilog	De Equal	pen Flow liverability is R x Antilog (Mcfd)	
Open Flor	w			Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd @ 14.65	psia		
The	unders	igned	d authority, or	behalf of the	Company. s	lates that he	e is dulv au	thorized to	make the	above repo	rt and that he	has know	vledge of	
				id report is true					day of Ju				20 11	
			13451 10	Land			_	9	M	sh		— D r	^= k-1===	
			Witness (i	т мпу)					•	For C	Company	ベヒ	CEIVED	
-			For Comm	ission			_			Chec	ked by	AUG	0 2 201	

KCC WICHITA

	eclare under penalty of perjury under the laws of the state of Kansas that I am authorized to request
	status under Rule K.A.R. 82-3-304 on behalf of the operator Petroleum Development Corp
	at the foregoing pressure information and statements contained on this application form are true and
	to the best of my knowledge and belief based upon available production summaries and lease records
	oment installation and/or upon type of completion or upon use being made of the gas well herein named.
	ereby request a one-year exemption from open flow testing for the Culwell 41-8
gas we	If on the grounds that said well:
	(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
	rther agree to supply to the best of my ability any and all supporting documents deemed by Commissio
staff as	necessary to corroborate this claim for exemption from testing.
Date: _	7/27/2011
	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 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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