## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:					(	See Inst	truct	ions on Rev	verse Sid	9)							
☐ O <sub>F</sub>	en Flo	w				Total Bad						<b>5</b> 1 N	. 45					
✓ Deliverabilty					Test Date: 03/12/2012					0	API No. 15 023-20328 - 🗢 - 🗢							
Company		)eve	lopment (	Corp			<u> </u>		Lease Barnha	rt	<del></del>				28-9-	Well No	ımber	
County Location Cheyenne SWNESE				Section 28			TWP 3S	RNG 42W	•	')		Acres Attributed						
Field						Reservoi				• • •			ring Conne					
					Niobrara					PDC Stones Throw Gathering								
•				Plug Bac 1609'	Plug Back Total Depth 1609'					Packer Set at n/a								
				Internal Diameter 4"			Set 8 164		forat	tions		то 1488'						
Tubing Size Weight N/A N/A				Internal E N/A	Internal Diameter N/A			Set at N/A			tions	•	То					
Type Cor		n (D	escribe)			Type Flui Brine \		ction			Pump No	Unit	or Traveling	Plunger	? Yes	/ No		
Producing Thru (Annulus / Tubing)					% Carbon Dioxide					% Nitrogen Gas Gravity - G <sub>n</sub>								
Casing				<1%						<1%								
Vertical C	epth(i	H)					F	ress	sure Taps						(Meter	Run) (F	rover) Size	
1655'																		
Pressure	Buildu	ıp:	Shut in _03	/12	20	12 at 9	:15am		(AM) (PM)	Taken_0	3/13		20	12 at_	10:23	am	(AM) (PM)	
Well on L	ine:		Started		20	) at			(AM) (PM)	Taken			20	at _			(AM) (PM)	
							OBSE	RVFI	D SURFACE	DATA				Duration	of Shut	.i. 24	Hours	
0-4-1 0-W-			Circle one:	Р	eruaser	Flowing			Casing		Tubing			Duration of Shut-in		<u> </u>	7,00,13	
Static / Orification Original		I Mater		Differential		Flowing Well Heat Temperature Temperature			Wellhead Pressure		Wellhead Pressure		Duration (Hours)			Liquid Produced (Barrels)		
		hes) psig (Pm		- 1	in ches H <sub>2</sub> 0	1	t		(P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>0</sub> ) psig psia		(P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>b</sub> )		(rious)		(3411913)			
Shut-In									50	para	Para	•	pau					
Flow														·				
			I		·		FLOW	STR	EAM ATTRI	BUTES	-1					<del></del>		
Plate			Circle one:		Press	Grav	,in.		Flowing	T	detion		Makered Slew		COB		Flowing	
Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Meter or		Extension		Fac	· .	T	emperature		iation Metered Fi ctor R			low GOR (Cubic Fo			Fluid	
		Pro	Prover Pressure psia		Pakh	F,	.		Factor F <sub>ft</sub>	:	Fpv		(Mcfd)	Barrel)		1 Growitz i		
								n		+								
	ļ			<u> </u>					<u> </u>	<u>.l</u>		ļ					1	
(P <sub>c</sub> ) <sup>2</sup> =		<u>.</u> :	(P <sub>w</sub> ) <sup>2</sup> :	=	:	(OPEN FL		LIVI %	ERABILITY) 6 (P	CALCUL - 14.4) -			:			) <sup>2</sup> = 0.2 ) <sup>2</sup> =	207	
(2.)	0.12				formula 1 or 2;	100 4	Γ.	$\overline{}$	Backpres	sure Curve	,		٦٦	,	**********	7 0	oen Flow	
(P <sub>a</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or (P <sub>a</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup>		(P <sub>e</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		1. P <sub>2</sub> <sup>2</sup> -P <sub>2</sub> <sup>2</sup> 2. P <sub>2</sub> <sup>2</sup> -P <sub>3</sub> <sup>2</sup>		LOG of formula		Stope = "n"			n :	x LO	G	Antilog		Deliverability		
						and divide			1 1							Equals R x Antilog (Mcfd)		
				aividea D	ν. P <sub>ε</sub> ² - P <sub>ε</sub> ²	by:	<u> </u>		Statice	iro Siope						+		
							<del></del>						1			ļ		
									<u> </u>							<u> </u>		
Open Flo	w			Мо	id @ 14.6	65 psia			Deliverab	ility				Mcfd @	14.65 ps	ia		
The	unders	igne	authority, o	n beha	alf of the	Company, s	states the	at he	e is duly au	thorized t	o make	the	above repo	rt and th	at he hi	as know	riedge of	
the facts s	tated I	herei	n, and that s	aid rep	ort is true	and correc	t. Execu	ıted	this the _17	<u>.                                    </u>	day of _	Apr	il				20 12	
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			948	E4 ^					_	(	Jua	U	the	ki	ull	<u> </u>	<u> </u>	
			Witness	(ia any)						0	/		For C	опрапу		ĸ	ECEIVE	
			For Com	mission				_	_				Chec	ked by		ΔF	R 2 4 20	
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KCC WICHITA

exempt status und	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 equipment insta	t 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.  Barnhart 28-9-1
	ounds that said well:
staff as necessar	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.
Date: <u>04/17/2012</u>	Signature: Judith Pruitt  Title: Sc 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.