Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	t:				(See Instruc	tions on Rev	erse Side	e)				
□ Op	en Flo	w			T 5								
✓ De	eliverab	ilty			Test Date 02/23/26				023	No. 15 3-20952	- 000C)	
Company		eve	lopment C	orp			Lease McPher	son				Well Number	
County Cheyenne			Location SWNWNW		Section 16		TWP 5S		RNG (E/W) 40W		Acres Attributed 160		
Field			OWN	*1444	Reservoir					hering Conne		100	
Cherry					Niobra					rury Gathe	ring		
03/12/2		е			Plug Bac 1589'	k Total Dep	th 		Packer S n/a	iet at			
Casing S 4.5"	Size		Weigh 10.5#		Internal (4"	Diameter	Set at 1610		Perfo 143	rations B'	то 1450'		
Tubing S 2.375"	ize		Weigh 4.75#		Internal (2"	Diameter	Set at 1458		Perfo	rations	То	· · ·	
Type Con N2 Frac		n (De	escribe)		Type Flui Brine \	d Productio Nater	ก	•	Pump Ur Yes, P	nit or Traveling	Plunger? Yes	/ No	
Producing Thru (Annulus / Tubing)					% Carbon Dioxide			% Nitrogen		Gas Gravity - G			
Annulu					<1%	<1%			<1%				
Vertical E	Depth(F	1)				Pres	sure Taps				(Meter F	Run) (Prover) Size	
Pressure	Buildu	p:	Shut in 02/	23 2	11 at 8	:30am	(AM) (PM)	Taken 02	2/24	20	11 at 8:30am	1(AM) (PM)	
Well on L	ine:		Started	2	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)	
						OBSERVE	D SURFACE	DATA			Duration of Shut-i	in 24 Hours	
Static / Dynamic	Orifi Siz		Circle ane: Meter	Pressure Differential	Flowing Temperature	Well Head Temperature	Casir Wellhead P	ressure	Wellhe	ubing ad Pressure	Duration	Liquid Produced	
Property	(inch	es)	Prover Pressi psig (Pm)	in Inches H ₂ 0	t	t	(P _w) or (P ₁	or (P _c) psia	(P _w) or psig	(P ₁) or (P _a)	(Hours)	(Barrels)	
Shut-In							175						
Flow							<u> </u>	•••					
	1			T		FLOW STE	REAM ATTRII	BUTES	ſ				
Plate Coeffiecient			Circle one: Meter or	Press Extension	Grav		emperatura		ialion	Metered Flow		Flowing Fluid	
(F _b) (F	(F _b) (F _p)		ver Pressure	√ P _m xħ	Fac F		Factor	1	ctor	R (Mcfd)	(Cubic Fo Barrel)	Gravity	
Mefd	' <u></u>		psia			' 	F _{ft}		-			G _m	
	[<u> </u>	(OBEN EL	OW) (DEL IV	(ERABILITY)	CALCIII	ATIONS				
(P _c) ² =			(P _w) ² =	: :	P _d =	, ,	•	- 14.4) +			(P _a) ² (P _d) ²	!= 0.207 !=	
	Ī	<u>- `</u>		Choose formula 1 or 2	·		7	sure Curve			\- d/		
(P _e) ² - (I	P_)2	(P	(P _*) ² - (P _*) ²	1. P _c ² -P _s ²	LOG of formula		Slope	e "n"	nxl	.og	Antilog	Open Flow Deliverability	
(P _c) ² - (I	P ₀)²		ļ	2. P _a ² -P _a ² divided by: P _a ² -P _a	1, or 2, and divide by:	P2. P2	Assi	gned rd Slope			Annog	Equals R x Antilog (Mcfd)	
				awasa ay: 1 c - 1 w		<u> </u>	Otation	ч			-		
Open Flow Mcfd @ 14.65			65 psia	5 psia Deliverability			Mcfd @ 14.65 psia			a			
The	unders	igned	d authority, o	n behalf of the	Company, s	tates that h	ne is duly aut	horized to	o make th	e above repo	rt and that he has	s knowledge of	
the facts s	stated t	herei	n, and that s	aid report is true	e and correc	t. Executed	this the 12		day of <u>J</u> I	uly		, 20 11	
			Saltz	5 and				Q.	ØE,	M		RECEIVED	
			Witness (· · · · · · · · · · · · · · · · · · ·			- 	- //			ompany	AUG 0 2 201	
			For Comn	#SSION						Chec	ked by		

exempt	clare 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						
correct	the foregoing 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						
	nent installation and/or upon type of completion or upon use being made of the gas well herein named. eby request a one-year exemption from open flow testing for the McPherson 11-16						
gas wel	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							
l fur	her agree to supply to the best of my ability any and all supporting documents deemed by Commission						
staff as	necessary to corroborate this claim for exemption from testing.						
Date: 0	//12/2011						
	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.

RECEIVED

AUG 0 2 2011