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

Type Test	t:				• (	See Instruct	tions on Reve	erse Side	)			
Open Flow			T4 D-4-	Test Date:			4.01					
Deliverabilty			03/26/20			API No. 15 15-175-21134-0001						
Company MERIT B		GY	COMPANY		· .		Lease HARKRA	DER B	VI			Well Number
County SEWARD			Location 990 FSL & 990 FEL		Section 21		TWP 31S		RNG (E/W) 32W		Acres Attributed 640	
Field THIRTY	-ONE		J .		Reservoir ATOKA	•			Gas Gat	hering Conne K	ection	
Completic 08/23/19		e			Plug Back 5470	k Total Dept	th		Packer S	Set at		
Casing Size 5.5			Weight 15.5		Internal E 4.950	Internal Diameter 4.950		Set at 5835		rations 4	то <b>542</b> 0	
Tubing Size 2.375			Weigh 4.7	t	Internal D 1.995	Diameter	Set at 5420		Perforations		Tó	
Type Con			escribe)		Type Flui WATE	d Production	j			nit or Traveling BEAM PUI		/ No
Pròducing	g Thru	(Anı	nulus / Tubing	9)	% C	arbon Dioxi	de		% Nitrog	en		avity - G <sub>g</sub>
ANNUL	.US				0.1487				3.052	3%	0.720	
Vertical D	epth(F	1)					sure Taps				-	Run] (Prover) Size
5417			03/		. 15 9:		NGE				3.068 15 <sub>at</sub> 9:30 A	
Pressure	Buildu		Snut in									
Well on L	ine:		Started	2	0 at		(AM) (PM) T	aken		20	at	(AM) (PM)
						OBSERVE	D SURFACE	DATA			Duration of Shut-	in 24 Hours
Static / Dynamic	Orifi Siz		Ciřcle one: Meter	Pressure Differential	Flowing Temperature	Well Head Temperature	Casin Wellhead P		1	fubing ad Pressure	Duration	Liquid Produced
Property	(inch		Prover Pressu psig (Pm)	in in jinches H₂0	t	t	(P <sub>w</sub> ) or (P <sub>1</sub> )	or (P <sub>c</sub> )	(P <sub>w</sub> ) or psig	r(P <sub>t</sub> ) or (P <sub>c</sub> )	(Hours)	(Barrels)
Shut-In			1-3(-1)	2			58.0	рыа	psig	рыа	24	
Flow										<u> </u>		
						FLOW STR	EAM ATTRIE	UTES		<u></u>		
Plate Coeffieclent (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P <sub>m</sub> x h	Fact	Gravity Factor F <sub>g</sub>		owing perature Factor F <sub>pv</sub>		Metered Flov R (Mcfd)	y GOR (Cubic Pe Barrel)	Growibs
										mp.		
	• ,				(OPEN FLO	OW) (DELIV	ERABILITY)	CALCUL	ATIONS		(P.)	<sup>2</sup> = 0.207
(P <sub>c</sub> ) <sup>2</sup> =		:	(P <sub>w</sub> ) <sup>2</sup> =	·	$P_d =$	9	% (Р <sub>с</sub>	- 14.4) +	14.4 =	:	(P <sub>d</sub> )	
(P <sub>c</sub> ) <sup>2</sup> - (F , or (P <sub>c</sub> ) <sup>2</sup> - (F	41.	(P	(P <sub>w</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2  1. $P_0^2 - P_4^2$ 2. $P_0^2 - P_d^2$ divided by: $P_0^2 - P_d^2$	LOG of formula 1. or 2. and divide	P.2-P.2	Backpress Slope 	:= "n"   gned	n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mc/d)
				, c w						- <del>-</del>		
				<u>.</u>								
Open Flo	w		_	Mcfd @ 14.	.65 psia		Deliverabili	ty			Mcfd @ 14.65 ps	a
The	unders	igned	authority, o	n behalf of the	Company, s	tates that h	e is duly auti				ort and that he ha	
the facts s	tated t	hërei	n, and that sa	aid report is trui	e and correc	t. Executed	this the 30t	<u>h∙</u>	day of _N	ovember		, 20 <u>15</u> .
						Rec	ceived —				nergy Compa	ny ·
			Witness (i	l any)	KAI	VSAS CORPOR	RATION COMMIS	SION			ompany ine McClurka:	2
			For Comm	noisei		DEC (	0 2 2015				ine McClurka <sup>eked by</sup>	

CONSERVATION DIVISION WICHITA, KS

	80 S
	penalty of perjury under the laws of the state of Kansas that I am authorized to request Rule K.A.R. 82-3-304 on behalf of the operator Merit Energy Company
	ng pressure information and statements contained on this application form are true and
_	f my knowledge and belief based upon available production summaries and lease records
	ation and/or upon type of completion or upon use being made of the gas well herein named.
	t a one-year exemption from open flow testing for the Harkrader B 1
gas well on the grou	
gas well on the grot	nus trat sato well.
(Check o	ne)
i	s a coalbed methane producer
⊢ i	s cycled on plunger lift due to water
i	s a source of natural gas for injection into an oil reservoir undergoing ER
i	s on vacuum at the present time; KCC approval Docket No.
<b>\</b>	s not capable of producing at a daily rate in excess of 250 mct/D
I further agree t	o supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessary t	o corroborate this claim for exemption from testing.
Date: November 30	. 2015
Date:	
•	$\mathcal{L}$
Water 17	Signature: Katherine McClurkan Kathurine McClurkan Kathurine McClurkan
Di	Title: Regulatory Analyst
CONS	ERVATION DIVISION
	WICHITA, KS

## 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.