KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				(See Instruct	tions on Rev	erse Side)					
Open Flow				Test Date	۵۰			ΔPI	No. 15					
Del	liverabil	ty			06/02/20					175-21134-0	0001			
Company MERIT ENERGY COMPANY						Lease HARKRADER B				1	Well Number 1			
County Location SEWARD 990 FSL & 990 FEL			Section 21					RNG (E/W) 32W		Acres Attributed 640				
Field THIRTY-ONE				Reservoir ATOKA		Gas Gathering Cor ONEOK				ection				
Completion Date 08/23/1990				Plug Bac 5470	k Total Dept	th	Packer Set at							
Casing Size Weight 5.5 15.5			Internal E 4.950	Diameter	Set at 5835		Perforations 5414		To 5420	To 5420				
Tubing Si 2.375	ze		Weight			Internal Diameter		Set at 5420		Perforations		То		
Type Com						d Production				nit or Traveling		/ No		
Producing Thru (Annulus / Tubing)				% C	arbon Dioxi	de	% Nitrogen 3.0523%		en	Gas Gravity - G _g				
ANNULUS Vertical Depth(H)			0.1407	0.1487% Pressure Taps				J 70			Prover) Size			
5417	,					FLAI	•				3.06	, ,	,	
Pressure	Buildup	: 8	Shut in _06/0	1/2014	20at_9	:30 AM	(AM) (PM)	Taken 06	6/02/201	14 20	at _9:30 /	ΔM	(AM) (PM)	
Well on Li	ine:		Started	2	0 at		(AM) (PM)	Taken		20	at		(AM) (PM)	
						OBSERVE	D SURFACE	DATA			Duration of Shu	_{t-in} _24	Hours	
Static / Orific Dynamic Size Property (inche		e Prover Pressure			Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P_w) or (P_t) or (P_c)		Duration (Hours)	1 .	Liquid Produced (Barreis)	
Shut-In			psig (Pm)	Inches H ₂ 0		•	psig 525.0	psia	psig 0.0	psia	24			
Flow														
						FLOW STR	REAM ATTRI	BUTES				-		
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m x h	Grav Fact F _s	tor T	Flowing Devia Factor Fr.		ctor R		GOF (Cubic F Barre	eet/	Flowing Fluid Gravity G _m	
(D.)2			/D \2				ERABILITY)		•			$()^2 = 0.$		
(P _c) ² =				hoose formula 1 or 2			1		14.4 =	;	(P,)2 =		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		1. P _c ² -P _a ² 2. P _c ² -P _d ²	LOG of formula 1. or 2. and divide	P _c ² -P _w ²	Backpressure Curve Slope = "n"		n x I	_OG	Antilog	De	Open Flow Deliverability Equals R x Antilog (Mcfd)	
			0	ivided by: P _c ² - P _w	2 by:		Standa	u siope	-				()	
						· · · · · ·								
Open Flor	w			Mcfd @ 14	65 psia		Deliverabil	ity			Mcfd @ 14.65 p	sia		
	-		•		• •		•			•	rt and that he h	as kno	wledge of	
the facts si	tated th	ereir	n, and that sai	d report is tru	e and correc	t. Executed	this the 22	ND	day of D	ECEMBER		,	20	
			Witness (if	anu)	KANSAS	Receive	ed N COMMISSION		ME		GY COMPAN			
			For Commis			DEC 29			IA BUR	TON	Company Sked by	L L	Juston	
			i oi committe		B.	erten her fan sj	34 40			Chec	~~~			

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator MERIT ENERGY COMPANY and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named. I hereby request a one-year exemption from open flow testing for the HARKRADER B 1 gas well on the grounds 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 I further 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: DECEMBER 22, 2014 Signature: JANNA BURTON Title: REGULATORY ANALYST

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.