KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:					6	See Instructi	ions on Re	verse Sid	(e)					
Open Flow					Test Date	Test Date: API No. 15									
✓ Del	liverabi	Ity	47.4.4			05/05/20			·		89-22345 - (1000			
Company MERIT E		GΥ	COMPANY	,			•	Lease . HJV CH	IRISTOF	PHER A			Vell Nu I	mber	
County Location STEVENS 2310' FSL & 1300' FEL					Section 3		TWP 33 \$		RNG (E/W) 3 9 W			Acres Attributed 640			
Field CHRISTOPHER					Reservoir LOWER	MORROW	V G		Gas Gathering Conne		ction		,		
Completion Date 08/01/2000					Plug Baci 6280'	k Total Depti			Packer Set at NA						
Casing Si 5.5	asing Size Weight 5 15.5#				Internal D 4.95	iameter	Set at 6365'		Perforations 5892'		то 5974'				
Tubing Size Weight 2.875 4.7#					Internal E 1.995	Diameter	Set at 5822 '		Perforations · NA		То NA				
Type Completion (Describe) SINGLE(GAS)					Type Flui	d Production			Pump Unit or Traveling YES - Rod R		Plunger? Yes / No				
Producing Thru (Annulus / Tubing) TUBING					% C	arbon Dioxid	de	. %		% Nitrogen		Gas Gravity - G			
Vertical D))					Press FLAN	sure Taps				(Meter F	Run) (P	rover) Size	
Pressure Buildup:			Shut in _05/04		/2013 2	0at_3		(AM) (PM) Taken		5/05/2013 20 _		at 3:00 P	M(AM) (PM)		
Well on L	Well on Line:		Started		2	0 at		(AM) (PM)	Taken	20		at	(AM) (PM)		
							OBSERVE	D SURFAC	E DATA	······································		Duration of Shut-	in	Hours	
Static / Dynamic Property	namic Size		Circle one: Meter Prover Pressure psig (Pm)		Pressure Differential in Inches H ₂ 0	ifferential Flowing 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)		Liquid Produced (Barrels)	
Shut-In	Shut-In 1.0		P=18 ()		1110103 1120			psig	psia 90	, psig	psia 0	24			
Flow															
						· · · · · · · · · · · · · · · · · · ·	FLOW STR	EAM ATTR	RIBUTES						
Plate Coefficient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m x h	Gravity Factor F		Temperatura		eviation Metered Flow actor R F _{pv} (Mcfd)		GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravity G _m	
				+-			·				· - · · · · · · · · · · · · · · · · · ·			- m	
	,				-	(OPEN FL	OW) (DELIVI	ERABILITY	/) CALCU	LATIONS		(P _a)	² = 0.2	207	
(P _c) ² =		<u>:</u>	(P _w) ²		ose formula 1 or 2	. P _d =		% (l	P _c - 14.4)	+ 14.4 =	<u> </u>	(P _d)	' =		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²			1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ ded by: $P_c^2 - P_a^2$	LOG of formula 1. or 2. and divide by: P 2 - P 2		Backpressure Curv Slope = "n" or Assigned Standard Slope		n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
												5			
Open Flor					Mcfd @ 14.	65 pois		Doliversh	hility			//cfd @ 14.65 psi			
·								Deliverat							
•		•	d authority, of			• •		•		to make th	•	t and that he ha		vledge of 20 <u>13</u>	
									,		mr	0			
	-		Witness	(if an	y) .			• -		· · · · · · · · · · · · · · · · · · ·	ForCo	T K	CC	WICHI	
			For Com	missio	on			-			Check	red by	10V	0 7 2013	
													175	CEIVED	

exempt sta and that th correct to the of equipme	re under penalty of perjury under the laws of the state of Kansas that I am authorized to request tus under Rule K.A.R. 82-3-304 on behalf of the operator MERIT ENERGY COMPANY re 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 and installation and/or upon type of completion or upon use being made of the gas well herein named. The product is a one-year exemption from open flow testing for the HJV CHRISTOPHER A 1 in 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
	er agree to supply to the best of my ability any and all supporting documents deemed by Commission cessary to corroborate this claim for exemption from testing.
Date: <u>11/0</u>	05/2013
	Signature: M CheyPatin
	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.