KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				(See Instruct	ions on Reve	erse Side)			
Open Flow				Test Date	Test Date: API No. 15							
Def	liverabi	lty			10/22/20	-				175-30030-0	0000	
Company MERIT E		GY (COMPANY				Lease HOWLAN	ND			V	Vell Number A-1
County Location SEWARD 1980' FNL & 1980' FWL			Section 34				RNG (E/ 34W	W)		Acres Attributed		
Field SHUCK					Reservoir LOWER	MORROV	ν		Gas Gatl	nering Conne	etion	
Completic 07/02/19		9			Plug Bac 5985'	k Total Dept	h		Packer S NA'	et at		
Casing Si 4.5	ze		Weight 9.5#		Internal Diameter 4.09		Set at 6361'		Perforations 5920'		то 5973'	
Tubing Size 2.375			Weight 4.7		Internal Dia 1,995		eter Set at 6159'		Perforations NA		To NA	
Type Com	•	•	escribe)		Type Flui WATE	d Production R	1		Pump Un	it or Traveling	Plunger? Yes	/ No
Producing	•	(Anr	nulus / Tubing)	% C	arbon Dioxi	de		% Nitrog	en	Gas Gra	avity - G _g
Vertical D 5964'	epth(H)		4 ,	, ,	Press PIPE	sure Taps				(Meter F 3	Run) (Prover) Size
Pressure	Buildup	o: :	Shut in	21/2014 2	10at_8	:00 AM	(AM) (PM) T	aken_10	/22/201	4 20	at 8:00 A	M (AM) (PM)
Well on L	ine:		Started	2	0 at		(AM) (PM) 1	Taken		20	at	(AM) (PM)
						OBSERVE	D SURFACE				Duration of Shut-i	n_24 Hours
Static / Dynamic Property	Orific Size (inche	•	Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	Casin Wellhead P (P _w) or (P _t) psig	ressure	Wellhe	ubing ad Pressure (P _t) or (P _c) psia	Duration (Hours)	Liquid Produced (Barrels)
Shut-In	.50						445.0	P 57 u	poig	pole	24	
Flow												
	ī					FLOW STR	EAM ATTRIE	BUTES	- 1			1
Plate Coeffied (F _b) (F Mcfd	ient ,)	Pro	Circle one: Meter of over Pressure psia	Press Extension P _m x h	Grav Fac F	tor 3	Flowing Femperature Factor F _{rt}	Fa	ation ctor : pv	Metered Flov R (Mcfd)	v GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G_m
	•				(OPEN FL	OW) (DELIV	ERABILITY)				•	2 = 0.207
(P _c) ² =		_:_	(P _w) ² =	Choose formula 1 or 2	P _d =	<u></u>	% (P _c	- 14.4) +	14.4 =	 :	(P _a) ²	' =
(P _c) ² - (I or (P _c) ² - (I		(F	P _c) ² - (P _w) ²	1. P _c ² -P _s ² 2. P _c ² -P _d ²	LOG of formula 1. or 2. and divide	D2_D2	Slope	sure Curve e = "n" or gned	nxl	og	Antilog	Open Flow Deliverability Equals R x Antilog
	-			divided by: P _c ² - P _w		P _c ² - P _w ²	Standa	rd Slope				(Mcfd)
Open Flo	w			Mcfd @ 14	.65 psia		Deliverabil	ity			Mcfd @ 14.65 psi	a
		-	•				•				ort and that he ha	· ·
the facts s	tated ti	nere	in, and that sa	id report is tru	e and correc	t. Executed	this the 22	<u>ND</u>	day of D	ECEMBER		, 20 <u>14</u>
			Witness (i	anvl	KANSAS C	Received PRPORATION (OMMISSION -		MERI		GY COMPA	NY
			For Camm			C 2 9 2		IANNA	BUR	TON [Jama B	unton
			i or contri				· ,			W.		

CONSERVATION DIVISION WICHITA, KS

	der penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator MERIT ENERGY COMPANY
	going pressure information and statements contained on this application form are true and
correct to the be	st of my knowledge and belief based upon available production summaries and lease records
	callation and/or upon type of completion or upon use being made of the gas well herein named. uest a one-year exemption from open flow testing for the HOWLAND A-1
	rounds that said well:
(Chec	k 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
_	ee to supply to the best of my ability any and all supporting documents deemed by Commission ry to corroborate this claim for exemption from testing.
Date: _DECEMB	ER 22, 2014
	Signature: JANNA BURTON Jama Burtan
	V
	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.