

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- ☐ Open Flow
☐ Deliverability

(See Instructions on Reverse Side)

Test Date:
11-01-2012API No. 15
15-033-00035-0000

Company Te-Ray Energy, Inc.		Lease Keller		Well Number 1	
County Commache	Location NW SE	Section 22	TWP 32S	RNG (E/W) 18W	Acres Attributed
Field Nescatunga		Reservoir Mississippi		Gas Gathering Connection ONEOK	
Completion Date 06-01-60		Plug Back Total Depth 5425'		Packer Set at No Packer	
Casing Size 5 1/2"	Weight 15.5	Internal Diameter 4.950"	Set at 5800'	Perforations 5116'	To 5690'
Tubing Size 2 3/8"	Weight 4.7#	Internal Diameter 1.995"	Set at 5189'	Perforations	To
Type Completion (Describe) Single Gas		Type Fluid Production Water		Pump Unit or Traveling Plunger? <input checked="" type="checkbox"/> Yes / No Pumping Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	Gas Gravity - G_g
Vertical Depth(H)		Pressure Taps		(Meter Run) (Prover) Size	
Pressure Buildup: Shut in 11-01 20 12 at 8:00 (AM) (PM) Taken 11-04 20 12 at 8:00 (AM) (PM) Well on Line: Started 11-04 20 12 at 9:00 (AM) (PM) Taken 11-05 20 12 at 9:00 (AM) (PM)					

OBSERVED SURFACE DATA

Duration of Shut-in **72** Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H_2O	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)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						75	85.5	75	85.5	72	0
Flow						40	45	40	45	24	1.5

FLOW STREAM ATTRIBUTES

Plate Coefficient (F_b) (F_p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F_g	Flowing Temperature Factor F_{t1}	Deviation Factor F_{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/Barrel)	Flowing Fluid Gravity G_m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

 $(P_w)^2 = 0.207$ $(P_o)^2 =$
 $(P_c)^2 =$: $(P_w)^2 =$: $P_o =$ % $(P_c - 14.4) + 14.4 =$:

$(P_c)^2 - (P_w)^2$ or $(P_c)^2 - (P_o)^2$	$(P_c)^2 - (P_w)^2$	Choose formula 1 or 2: 1. $P_c^2 - P_w^2$ 2. $P_c^2 - P_o^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide by: $P_c^2 - P_w^2$	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability Equals $R \times$ Antilog (Mcfd)

Open Flow

Mcfd @ 14.65 psia

Deliverability

Mcfd @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the **20** day of **June**, 20 **13**.

Witness (if any)

For Commission

TE-RAY ENERGY, INC.
For Company

Checked by

KCC WICHITA**JUN 21 2013****RECEIVED**

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 Te-Ray Energy, Inc.

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.

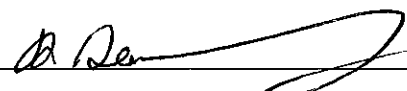
I hereby request a one-year exemption from open flow testing for the Keller #1
gas well on the grounds that said well:

(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

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: June 20, 2013

Signature: 
Title: PRESIDENT

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.

KCC WICHITA

JUN 21 2013

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