

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow
 Deliverability

Test Date:

API No. 15

Company Mach Petroleum, Inc. Lease 15-025-20,815-0000 Well Number _____
 County Clark Location NE NE Sec 18-33S-21W Section _____ TWP _____ Rng (E/W) _____ Acres Attributed _____
 Field _____ Reservoir _____ Gas Gathering Connection _____
 Completion Date 9-1-1984 Plug Back Total Depth 5315 DCP Midstream Packer Set at _____
 Casing Size 4 1/2 Weight _____ Internal Diameter _____ Set at _____ Perforations 5261 To 5265
 Tubing Size 2 3/8 Weight _____ Internal Diameter _____ Set at 5359 Perforations 5274 To 5279
 Type Completion (Describe) Single/Gas Type Fluid Production KCT. Water Pump Unit or Traveling Plunger? Yes / No _____
 Producing Thru (Annulus / Tubing) Annulus % Carbon Dioxide _____ % Nitrogen _____ Gas Gravity - G_s _____
 Vertical Depth(H) _____ Pressure Taps _____ (Meter Run) (Prover) Size _____

Pressure Buildup: Shut In 10-22-2012 at 10:00 (AM) (PM) Taken _____ 20 _____ at _____ (AM) (PM)
 Well on Line: Started 10-23-2012 at 10:00 (AM) (PM) Taken _____ 20 _____ at _____ (AM) (PM)

OBSERVED SURFACE DATA								Duration of Shut-in <u>24</u> Hours			
Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or Prover Pressure psig (Pm)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _c) or (P _e)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _o)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in	<u>375</u>	<u>73*</u>		<u>58°</u>		<u>220</u>		<u>0</u>			
Flow											

FLOW STREAM ATTRIBUTES								
Plate Coefficient (F _o) (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 _t	Deviation Factor F _{dv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _s

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_e)² = _____ (P_w)² = _____ P_e = _____ % (P_o - 14.4) + 14.4 = _____ (P_w)² = 0.207 (P_o)² = _____

(P _e) ² - (P _w) ² or (P _o) ² - (P _w) ²	(P _o) ² - (P _w) ²	Circle one: 1. P _e ² - P _w ² or 2. P _o ² - P _w ² divided by: P _e ² - P _w ²	LOG of formula 1. or 2 and divide by: P _e ² - P _w ²	Backpressure Curve Slope = "n" Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x 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 23 day of October 20 12.

Witness (if any) _____
For Commission _____

Mach Petroleum, Inc.
For Company
Tyler Rice
Checked by

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KCC WICHITA

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 Mach Petroleum, 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 Redger #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: 3/7/13

Signature: 

Title: Controller

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 shall be signed and dated on the front side as though it was a verified report of annual test results.

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