

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow
 Deliverability

(See Instructions on Reverse Side)

Test Date:

June 4th, 2013

API No. 15

095-01018-00-01

Company Twin Mine		Lease Sales 1-14		Well Number 1-14A	
County Kingman	Location W/2 SW SW	Section 14	TWP 27S	RNG (E/W) 10W	Acres Attributed 160.9
Field Dresden	Reservoir Hettig/Kinder		Gas Gathering Connection Uncon		
Completion Date 2-1-95	Plug Back Total Depth 2095		Packer Set at none		
Casing Size 5 1/2	Weight	Internal Diameter	Set at 2441	Perforations 1630	To 1641 OA
Tubing Size 2 3/8	Weight	Internal Diameter	Set at 1221	Perforations	To
Type Completion (Describe) Pumping	Type Fluid Production Salt Water		Pump Unit or Traveling Plunger? <input checked="" type="checkbox"/> Yes / No pumping unit		
Producing Thru (Annulus / Tubing) Annulus	% Carbon Dioxide .025		% Nitrogen 17.93		Gas Gravity - G _g .6715
Vertical Depth(H) 1635	Pressure Taps Flanged		(Meter Run) (Prover) Size 2.067		
Pressure Buildup: Shut in 6/4	20 13 at 9:15	(AM) (PM) Taken	6/4	20 13 at 9:15	(AM) (PM)
Well on Line: Started 6/5	20 13 at 1:15	(AM) (PM) Taken	6/5	20 13 at 1:15	(AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in _____ Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter 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 _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						80.0	94.4				
Flow	.375					27				24	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _p) (F _v) 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 _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ : (P_w)² = _____ : P_a = _____ % (P_c - 14.4) + 14.4 = _____ : (P_n)² = 0.207 : (P_n)² = _____

(P _c) ² - (P _n) ² or (P _c) ² - (P _a) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _n ² 2. P _c ² - P _a ² divided by: P _c ² - P _w ²	LOG of formula 1 or 2 and divide by: $\frac{P_c^2 - P_n^2}{P_c^2 - P_w^2}$	Backpressure Curve Slope = "n" or 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 13 day of June, 2013.

Witness (if any) _____
For Commission _____

Twin Mine
Sam Miltord
For Company _____
Checked by _____

KCC WICHITA

JUL 29 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 Twin Mine 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 Sales 1-19A 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 13 2013

Signature: Stuart McLeod
Title: AGENT

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

JUL 29 2013

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