

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test.

(See Instructions on Reverse Side)

- Open Flow
 Deliverability

Test Date.
9/02/14

API No 15
15-007-20794 - 0000

Company PETROLEUM PROPERTY SERVICES INC			Lease WATKINS		Well Number 1
County BARBER	Location C NW SW	Section 20	TWP 31S	RNG (EW) 11W	Acres Attributed
Field ILS		Reservoir LWR DOUGLAS	Gas Gathering Connection WEST WICHITA GAS GATHERING LLC		
Completion Date 9/01/79		Plug Back Total Depth 3632	Packer Set at NONE		
Casing Size 4.5	Weight 10.5	Internal Diameter 4"	Set at 3634	Perforations 3616	To 3622
Tubing Size 2.375	Weight 4.7	Internal Diameter 2"	Set at 3615	Perforations OPEN	To
Type Completion (Describe) SINGLE-GAS		Type Fluid Production WATER	Pump Unit or Traveling Plunger? Yes / No PUMPING UNIT		
Producing Thru (Annulus / Tubing) ANNULUS		% Carbon Dioxide 0 090	% Nitrogen 6 519	Gas Gravity - G _g 0.655	
Vertical Depth(H)		Pressure Taps FLANGE		(Meter Run) (Prover) Size 3"	
Pressure Buildup	Shut in 9/02/14	20	at 2:30	(AM) (PM) Taken 9/03/14	20
					at 2:45 (AM) (PM)
Well on Line.	Started	20	at	(AM) (PM) Taken	20
					at (AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one Meter Prover Pressure psig (P _m)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						350	364.4			24	
Flow											

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 _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_d = _____ % (P_c - 14.4) + 14.4 = _____ (P_a)² = 0.207 (P_d)² = _____

(P _c) ² - (P _a) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2 1 P _c ² - P _a ² 2 P _c ² - P _d 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" 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 15TH day of OCTOBER, 20 14

Received
KANSAS CORPORATION COMMISSION
OCT 09 2014
CONSERVATION DIVISION
WICHITA, KS

Witness (if any) _____ For Company _____
For Commission _____ Checked by _____

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 PETROLEUM PROPERTY SERVICES 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 WATKINS #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 EOR
- 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. 10/15/14

Signature. _____
Title. VICE-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.