

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow
 Deliverability

Test Date:

11/12/2010

API No. 15

119-21264-00-00

Company APACHE CORP.		Lease HAGER		Well Number 1-18	
County MEADE	Location NW, SW	Section 18	TWP 34	RNG (E/W) 27W	Acres Attributed 80
Field JOHN		Reservoir CHESTER		Gas Gathering Connection DCP	
Completion Date 10/25/2010		Plug Back Total Depth 6100		Packer Set at	
Casing Size 5.500	Weight 17#	Internal Diameter 6100	Set at	Perforations 5923	To 5930
Tubing Size 2.875	Weight 6.5#	Internal Diameter 5895	Set at	Perforations	To
Type Completion (Describe): GAS		Type Fluid Production WATER		Pump Unit or Traveling Plunger? Yes / No	
Producing Thru (Annulus / Tubing) TUBING		% Carbon Dioxide .100		% Nitrogen 2.453	
Gas Gravity - G _g .6597					
Vertical Depth(H) 6100		Pressure Taps FLG		(Meter Run) (Prover) Size 2.067	
Pressure Buildup: Shut in 11/08 20 10 at 9 (AM) (PM) Taken 11/11 20 10 at 9 (AM) (PM)					
Well on Line: Started 11/11 20 10 at 10 (AM) (PM) Taken 11/12 20 10 at 10 (AM) (PM)					

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OBSERVED SURFACE DATA

Duration of Shut-in **72** 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 _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In					74	1034	1048.4	1034	1048.4	72	
Flow	1.250	123	13	65	74	361	375.4	216	230.4	24	

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
8.329	137.4	42.26	1.2312	.9952	1.011	436		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)₂ = 1099.1 : (P_w)₂ = 140.9 : P_d = _____ % (P_c - 14.4) + 14.4 = _____ : (P_a)₂ = 0.207
(P_o)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 _{c2} - P _{a2} ² 2. P _{c2} - P _{d2} ² divided by: P _{c2} - P _{w2} ²	LOG of formula 1. or 2. and divide by: $P_{c2} - P_{w2}^2$	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
1098.9	958.2	1.14683	0.059502	1.000	0.059502	1.14683	500

Open Flow **492** 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 11 day of NOVEMBER 20 10.

Witness (if any)

For Commission

J.W. Chisum

For Company

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

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

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: _____

Signature: _____

Title: _____

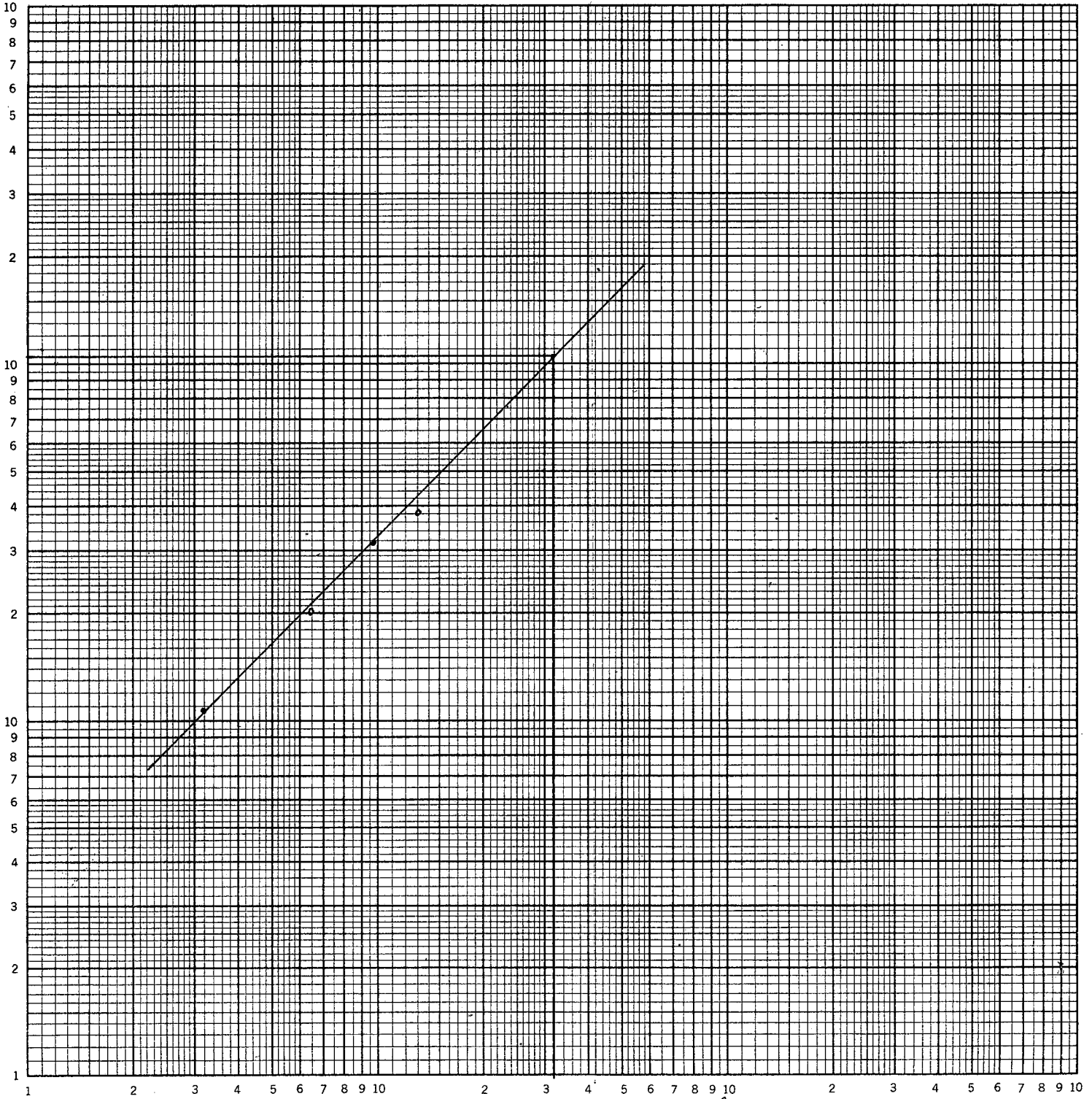
Instructions: If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

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.

46 7402

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KEUFFEL & ESSER CO. MADE IN U.S.A.



Pressure - Flow

202	270	2.43136
200	2700	3.43136

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SCOPE 1.000