

15-007-01335-0000

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow
 Deliverability

(See Instructions on Reverse Side)

Test Date: 11/20/2011

API No. 15 - 007-01,335-0000

Company Hayes Oil & Gas LLC		Lease Thompson		Well Number A1	
County Barber	Location W2 NE/4	Section 13	TWP 32	RNG (E/W) 10W	Acres Attributed
Field Sharon		Reservoir Mississippi	Gas Gathering Connection Pioneer Exploration LC		
Completion Date		Plug Back Total Depth 4360	Packer Set at N/A		
Casing Size 5 1/2	Weight 14	Internal Diameter 5.047	Set at 4357	Perforations open hole	To 4357' - 4360'
Tubing Size	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) Single (Gas)		Type Fluid Production Oil + Saltwater	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 11/20 at 11 (AM) (PM) Taken 11/21 at 11 (AM) (PM)
Well on Line: Started _____ at _____ (AM) (PM) Taken _____ at _____ (AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in _____ 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 _c) or (P _e)		Tubing Wellhead Pressure (P _w) or (P _c) or (P _e)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						160.8	175.2			24	
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (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_e)² = 0.207
(P_o)² = _____

(P_e)² = _____ : (P_w)² = _____ : P_d = _____ % (P_e - 14.4) + 14.4 = _____ :

(P _e) ² - (P _w) ² or (P _e) ² - (P _d) ²	(P _e) ² - (P _w) ²	Choose formula 1 or 2. 1. P _e ² - P _d ² 2. P _e ² - P _w ² divided by: P _e ² - P _w ²	LOG of formula 1, or 2, and divide by: $\frac{P_e^2 - P_w^2}{P_e^2 - P_d^2}$	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 16th day of December, 20 11.

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Witness (if any)

DEC 23 2011

For Commission

For Company

Checked by

KCC WICHITA

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 Hayes Oil and Gas LLC 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 Thompson A1 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: 12/16/2011

Signature: Shayne R. Hayes
Title: Production Superintendent

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.

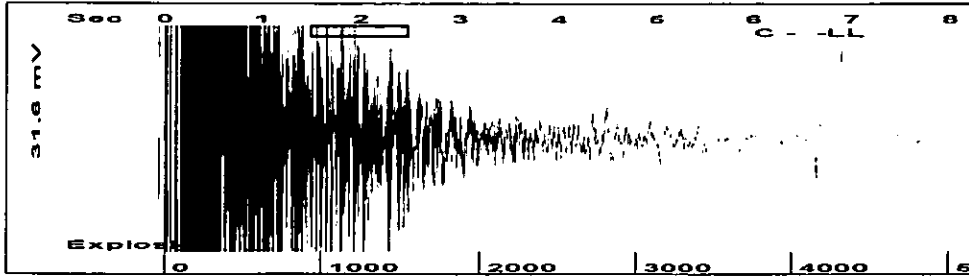
The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.

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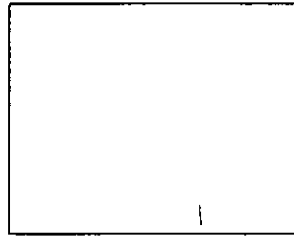
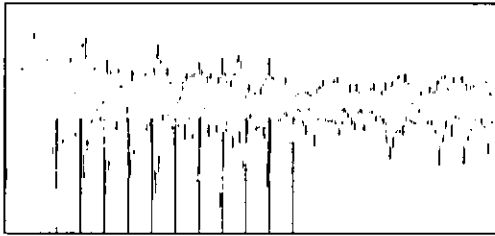
KCC WICHITA

Group: MyWells Well: TOMP_A1 (acquired on: 11/21/11 15:16:38)



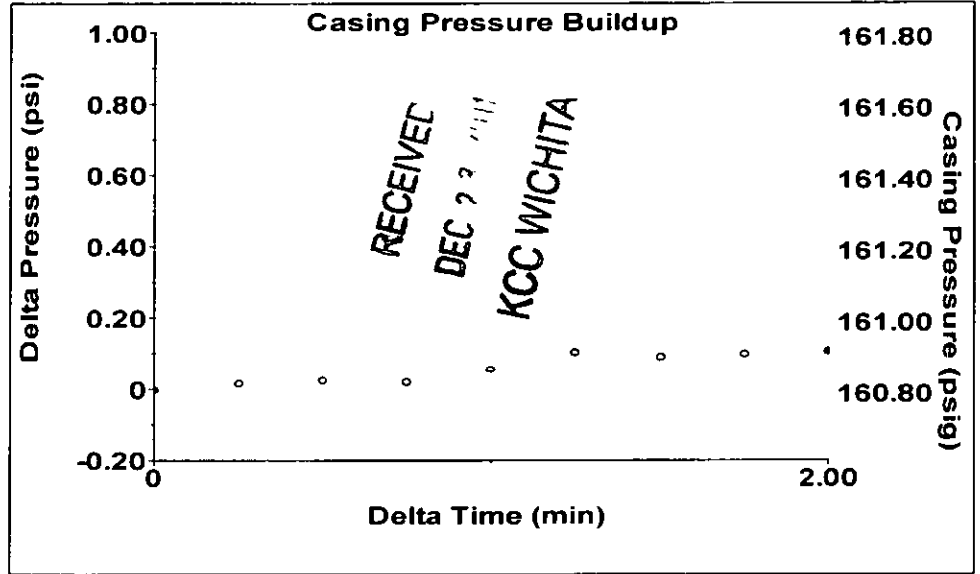
Filter Type High Pass Automatic Collar Count Yes Time 6.638 sec
 Manual Acoustic Velo 1272.31 ft/s Manual JTS/sec 20.6612 Joints 135.05 Jts
 Depth 4158.20 ft

[1.5 to 2.5 (Sec)]



Analysis Method: Automatic

Group: MyWells Well: TOMP_A1 (acquired on: 11/21/11 15:16:38)



Change in Pressure 0.11 psi PT4212
 Change in Time 2.00 min Range 0 - 1500 psi

Group: MyWells Well: TOMP_A1 (acquired on: 11/21/11 15:16:38)

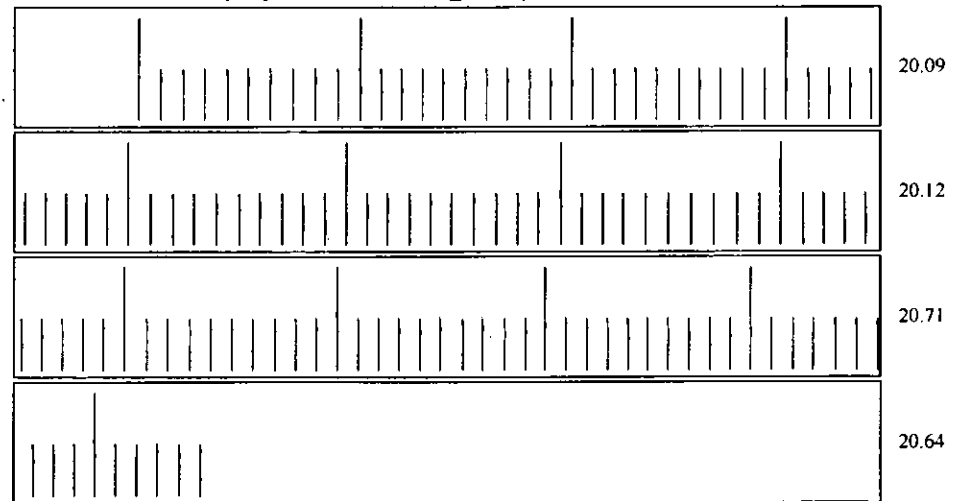
Production		Casing Pressure	
Current	Potential	160.8	psi (g)
Oil 4	4.6 BBL/D	Casing Pressure Buildup	0.1 psi
Water 150	173.4 BBL/D		2.00 min
Gas 15	17.3 Mscf/D	Gas/Liquid Interface Pressure	180.3 psi (g)
IPR Method	Vogel	Liquid Level	
PBHP/SBHP	0.30	Main Depth to Liquid Level	4158.20 ft
Production Efficiency	86.5	Formation Depth	4363 ft
Oil 25 deg.API			
Water 1.16 Sp.Gr.H2O			
Gas 0.71 Sp.Gr.AIR			
Acoustic Velocity	1252.85 ft/s		

Producing

Annular Gas Flow 2 Mscf/D
 %% Liquid 91 %

Pump Intake Pressure 232.7 psi (g)
 Producing BHP 259.3 psi (g)
 Static BHP 885.3 psi (g)

Group: MyWells Well: TOMP_A1 (acquired on: 11/21/11 15:16:38)



Acoustic Velocity	1252.85 ft/s	Joints counted	125
Joints Per Second	20.3451 jts/sec	Joints to liquid level	135.05
Depth to liquid level	4158.2 ft	Filter Width	18.6612 22.6612
Automatic Collar Count	Yes	Time to 1st Collar	0.288 6.432

Hayes Oil and Gas L.L.C

P.O. Box 108

Attica, KS. 67009

Conservation Division

Finney State Office Building

130 S. Market Rm. 2078

Wichita, KS. 67009-0108

R.E. Tests for Thompson A Lease and Werner Lease

Dear Mr. Hemmen:

Please find the enclosed tests for the Thompson A lease (Barber Co.) and the Werner (Harper Co). The test for the Thompson B lease will be sent shortly.

Please let apologize for the delay. The fluid levels and shut-ins were done back in the 11th month, but because of an error on my part they were not sent in.

Sincerely,



Shayne G. Hayes

Production Superintendent

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