

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow
 Deliverability

(See Instructions on Reverse Side)

Test Date:
9-30-10

API No. 15
15-077-21569-00-00

Company Hayes Oil & Gas, LLC		Lease Ricke 1-10		Well Number 1-19	
County Harper	Location 510' FNL & 330' FWL	Section 19	TWP 32S	RNG (E/W) 9W	Acres Attributed
Field Sharon		Reservoir		Gas Gathering Connection	
Completion Date 1-10-07		Plug Back Total Depth 4413		Packer Set at None	
Casing Size 5.5	Weight 15.5#	Internal Diameter 5.012	Set at 4453	Perforations 4333	To 4354
Tubing Size 2.875	Weight 6.5#	Internal Diameter 2.5	Set at 4341	Perforations 4357	To
Type Completion (Describe) Single		Type Fluid Production Water/oil		Pump Unit or Traveling Plunger? Yes / No Pumping	
Producing Thru (Annulus / Tubing)		% Carbon Dioxide		% Nitrogen	
Gas Gravity - G _g					

Vertical Depth(H) _____ Pressure Taps _____ (Meter Run) (Prover) Size _____

Pressure Buildup: Shut in 9-30 at 2:15 (AM) (PM) Taken 10-1 at 3:15 (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 (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 _c) or (P _e)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						155.6				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_e)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ : (P_a)² = 0.207 (P_d)² = _____

(P _e) ² - (P _a) ² or (P _e) 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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_d^2}$	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 5 day of Oct, 20 10.

Witness (if any)

For Commission

Drew F. Hayes
For Company

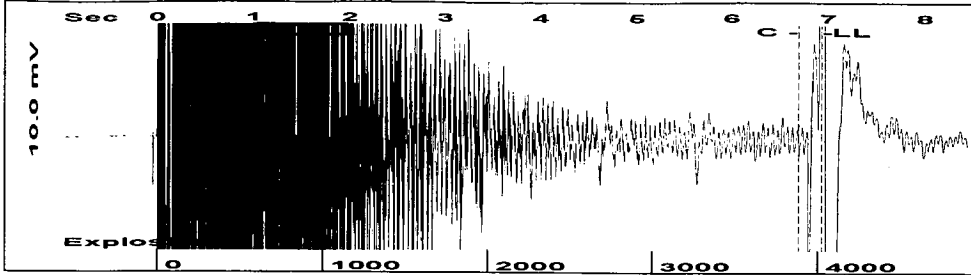
Checked by

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OCT 06 2010

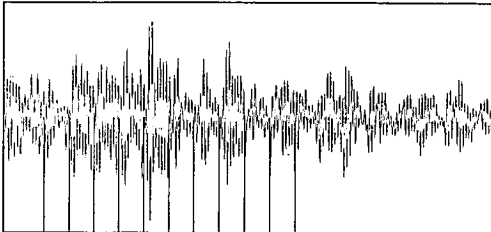
KCC WICHITA

Group: MyWells Well: Rickie 1-19 (acquired on: 10/01/10 15:16:32)



Filter Type High Pass Automatic Collar Count Yes Time 6.933 sec
 Manual Acoustic Velocity 1162.89 ft/s Manual JTS/sec 19.5312 Joints 135.157 Jts
 Depth 4023.62 ft

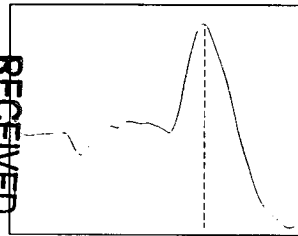
[1.0 to 2.0 (Sec)]



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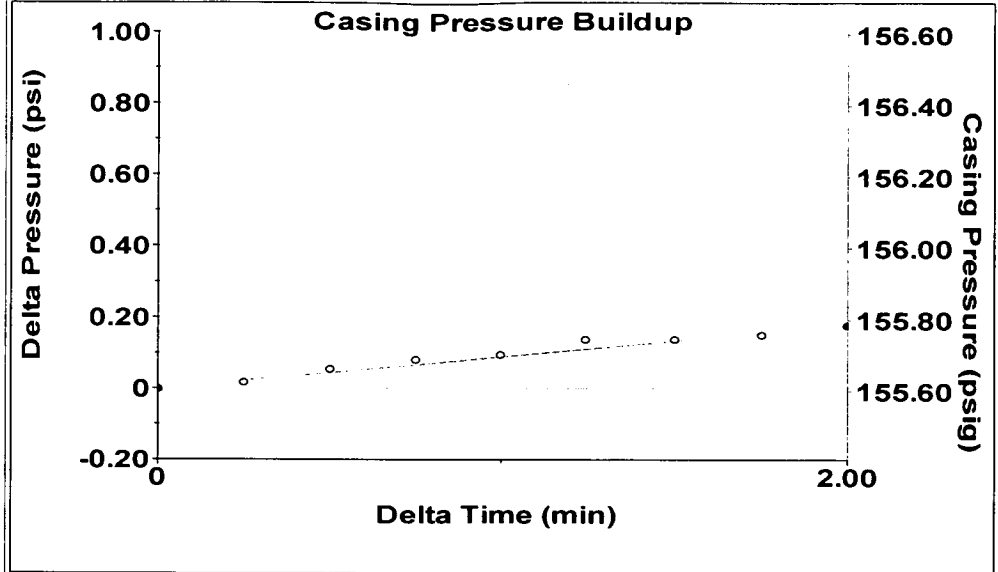
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Analysis Method: Automatic

Group: MyWells Well: Rickie 1-19 (acquired on: 10/01/10 15:16:32)



Change in Pressure 0.18 psi PT4212
 Change in Time 2.00 min Range 0 - 1500 psi

Group: MyWells Well: Rickie 1-19 (acquired on: 10/01/10 15:16:32)

Production
 Current Potential
 Oil 2 -*- BBL/D
 Water 200 -*- BBL/D
 Gas 79 -*- Mscf/D

IPR Method Vogel
 PBHP/SBHP -*-
 Production Efficiency 0.0

Oil 29 deg.API
 Water 1.05 Sp.Gr.H2O
 Gas 0.83 Sp.Gr.AIR

Acoustic Velocity 1160.71 ft/s



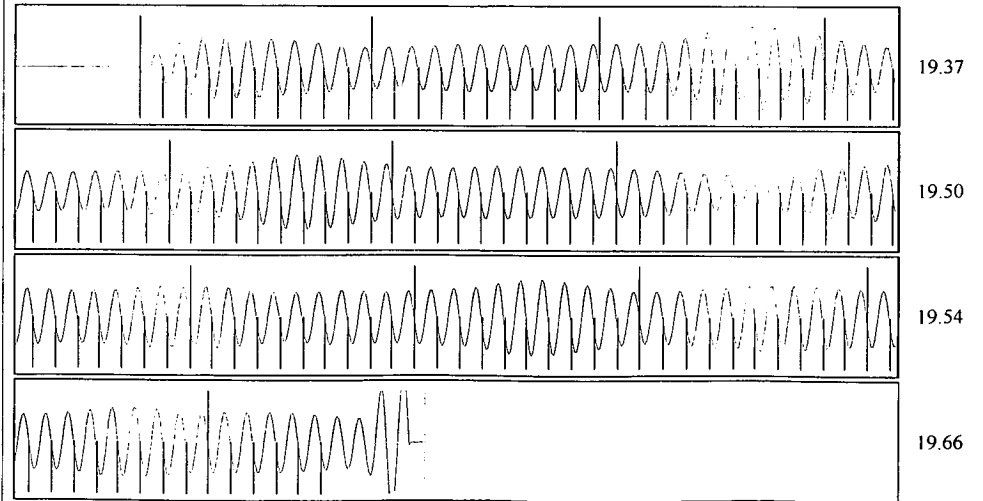
Producing
 Casing Pressure 155.6 psi (g)
 Casing Pressure Buildup 0.2 psi
 2.00 min
 Gas/Liquid Interface Pressure 176.3 psi (g)
 Liquid Level
 Main Depth to Liquid Level 4023.62 ft
 Formation Depth 4333 ft

Annular Gas Flow 3 Mscf/D
 %% Liquid 87 %

Pump Intake Pressure 278.3 psi (g)
 Producing BHP 272.9 psi (g)
 Static BHP -*- psi (g)

Pump Intake Depth (MD) 4347.83 ft
 Total Gaseous Liquid Column HT (TVD) 324 ft
 Equivalent Gas Free Liquid HT (TVD) 283 ft

Group: MyWells Well: Rickie 1-19 (acquired on: 10/01/10 15:16:32)



Acoustic Velocity 1160.71 ft/s Joints counted 125
 Joints Per Second 19.4947 jts/sec Joints to liquid level 135.157
 Depth to liquid level 4023.62 ft Filter Width 17.5312 21.5312
 Automatic Collar Count Yes Time to 1st Collar 0.284 6.696

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 & 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 Ricke #1-19 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: 10-5-2010

Hayes Oil & Gas LLC

Signature: *Dwight J. Hayes*

Title: Manager

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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