Form G-2
(Rev. 7/03)

KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test: *(See Instructions on Reverse Side)*

☐ Open Flow
☐ Deliverability

Test Date: 08-05-2011

API No. 15: 15-077-20,565 ~ 0000

Company	Lease	Well Number
Hayes Oil & Gas, LLC	Kircher	#2

County	Location	Section	TWP	RNG (E/W)	Acres Attributed
HP	70'EofC N/2-N/2-NE	8	32S	9W	80

Field	Reservoir	Gas Gathering Connection
Sharon	Mississippi	Pioneer Exploration LTD

Completion Date	Plug Back Total Depth	Packer Set at
03-25-1980	4363'	None

Casing Size	Weight	Internal Diameter	Set at	Perforations	To
4.5	9.50	4.090	4389'	4340	4350

Tubing Size	Weight	Internal Diameter	Set at	Perforations	To
2.375	4.60	1.995	4348SN	4351'	4353'

Type Completion (Describe)	Type Fluid Production	Pump Unit or Traveling Plunger? Yes / No
Single	Water, Oil	Pumping

Producing Thru (Annulus / Tubing)	% Carbon Dioxide	% Nitrogen	Gas Gravity - G_g
Tubing			

Vertical Depth(H)	Pressure Taps	(Meter Run) (Prover) Size
4403'		

Pressure Buildup: Shut In 08-04 20 11 at 10:00 (AM) (PM) Taken 08-04 20 11 at 11:00 (AM) (PM)

Well on Line: Started 08-05 20 11 at 11:00 (AM) (PM) Taken ____ 20 ____ 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_2O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P_w) or (P_t) or (P_c) psig	Casing psia	Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig	Tubing psia	Duration (Hours)	Liquid Produced (Barrels)
Shut-In						138				24	
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F_b) (F_p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m x h}$	Gravity Factor F_g	Flowing Temperature Factor F_{tt}	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" --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 ____ day of ____, 20 ____.

Witness (if any) ____ For Company ____

For Commission ____ Checked by ____

RECEIVED
AUG 18 2011
KCC WICHITA

Form G-2
(Rev. 7/03)

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 Kircher #2 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: 08-17-2011

Signature: Lyca F. Hayes

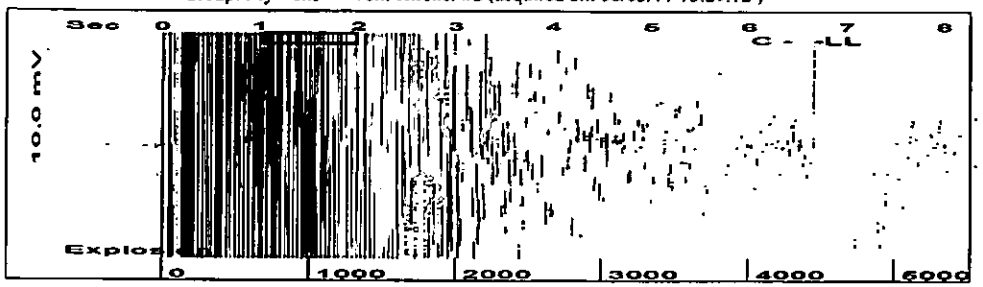
Title: Manager

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.

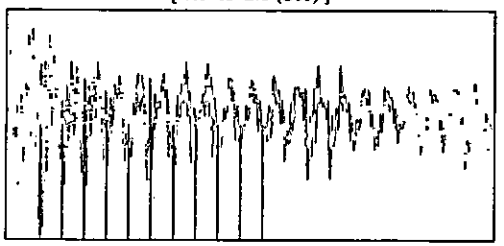
The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual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

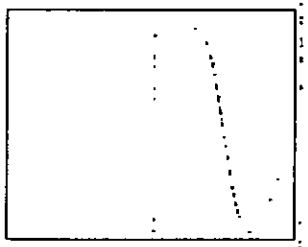
Group: MyWells Well: Kircher #2 (acquired on: 08/03/11 15:29:12)



Filter Type High Pass
Manual Acoustic Velo 1336.68 ft/s
Automatic Collar Count Yes
Manual JTS/sec 21.8341
Time 6.659 sec
Joints 145.276 Jts
Depth 4446.88 ft

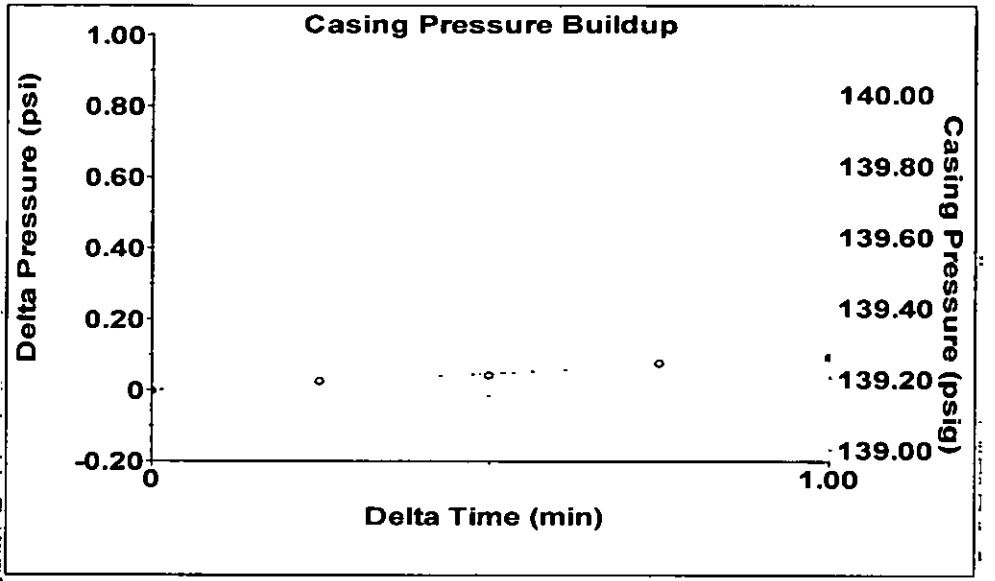
[1.0 to 2.0 (Sec)]





Analysis Method: Automatic

Group: MyWells Well: Kircher #2 (acquired on: 08/03/11 15:29:12)



Change in Pressure 0.09 psi
Change in Time 1.00 min
PT4212
Range 0 - 1500 psi

Group: MyWells Well: Kircher #2 (acquired on: 08/03/11 15:29:12)

Production

	Current	Potential	
Oil	-*-	-*-	BBL/D
Water	-*-	-*-	BBL/D
Gas	-*-	-*-	Mscf/D

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

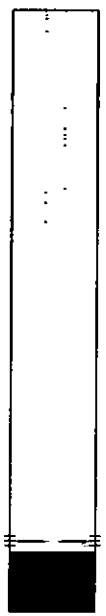
Oil 27 deg.API
Water 1.05 Sp.Gr.H2O
Gas 0.67 Sp.Gr.AIR

Acoustic Velocity 1335.6 ft/s

Casing Pressure
139.2 psi (g)
Casing Pressure Buildup
0.1 psi
1.00 min
Gas/Liquid Interface Pressure
155.3 psi (g)

Liquid Level
Main Depth to Liquid Level
4446.88 ft

Formation Depth
4340 ft



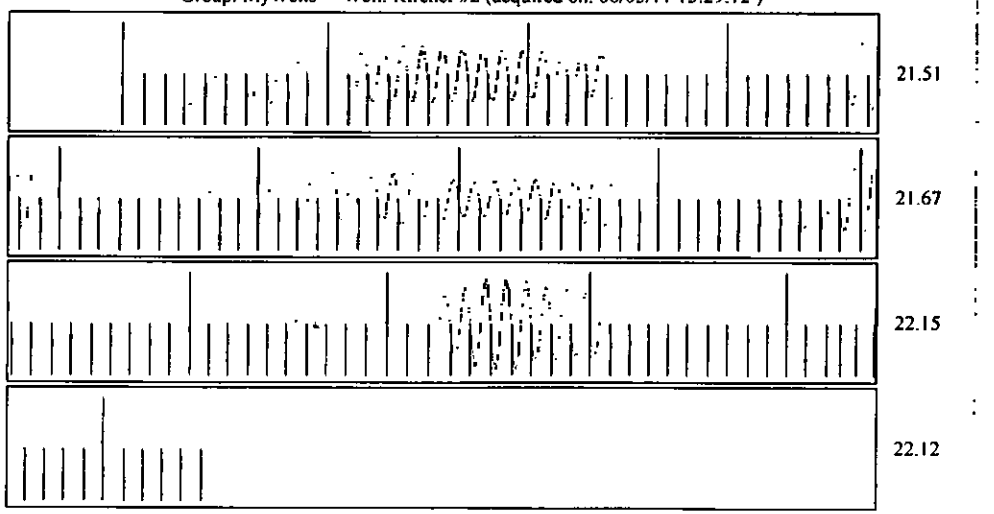
Producing

Annular
Gas Flow
2 Mscf/D
%% Liquid
100 %

Pump Intake Depth (MD) 4348 ft
Total Gaseous Liquid Column HT (TVD) 0
Equivalent Gas Free Liquid HT (TVD) 0

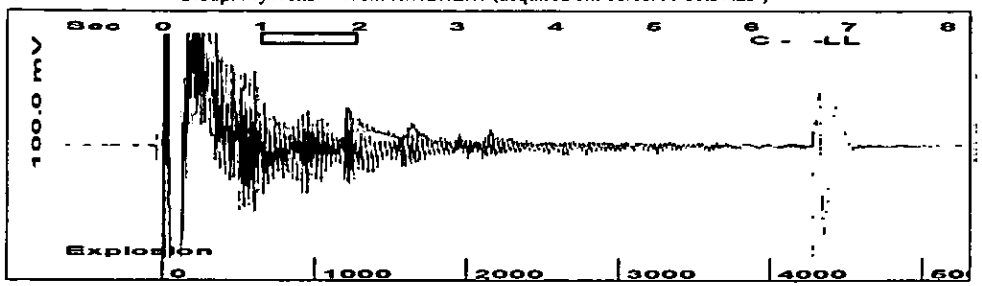
Pump Intake Pressure
155.3 psi (g)
Producing BHP
154.9 psi (g)
Static BHP
-*- psi (g)

Group: MyWells Well: Kircher #2 (acquired on: 08/03/11 15:29:12)



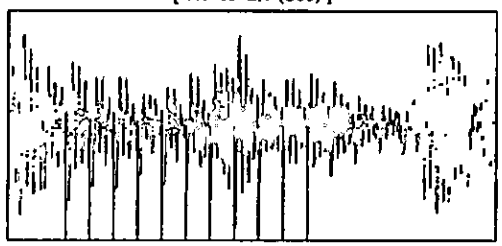
Acoustic Velocity	1335.6	ft/s	Joints counted	135	
Joints Per Second	21.8164	jts/sec	Joints to liquid level	145.276	
Depth to liquid level	4446.88	ft	Filter Width	19.8341	23.8341
Automatic Collar Count	Yes		Time to 1st Collar	0.26	6.448

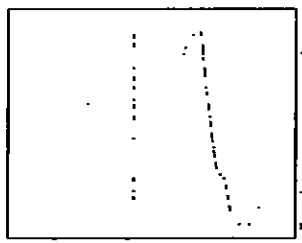
Group: MyWells Well: KIRCHER1 (acquired on: 08/05/11 08:39:25)



Filter Type	High Pass	Automatic Collar Count	Yes	Time	6.626 sec
Manual Acoustic Velo	1260.48 ft/s	Manual JTS/sec	20.1613	Joints	136.775 Jts
				Depth	4275.59 ft

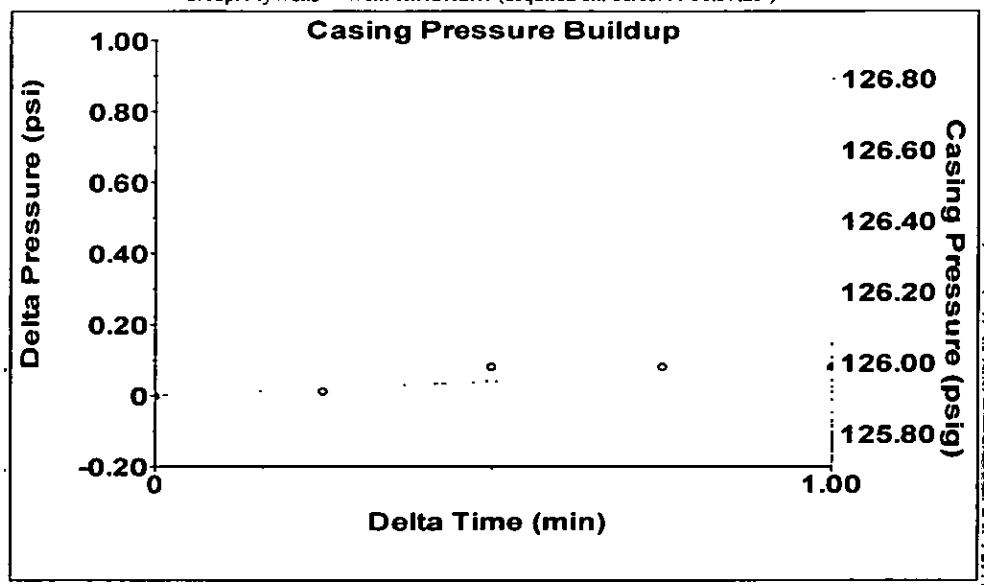
[1.0 to 2.0 (Sec)]





Analysis Method: Automatic

Group: MyWells Well: KIRCHER1 (acquired on: 08/05/11 08:39:25)



Change in Pressure	0.08 psi	PT4212 Range	0 - 1500 psi
Change in Time	1.00 min		

Group: MyWells Well: KIRCHER1 (acquired on: 08/05/11 08:39:25)

Production	Current	Potential	
Oil	1	-*-	BBL/D
Water	35	-*-	BBL/D
Gas	86	-*-	Mscf/D

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

Oil	28	deg.API
Water	1.05	Sp.Gr.H2O
Gas	0.70	Sp.Gr.AIR

Acoustic Velocity 1290.55 ft/s

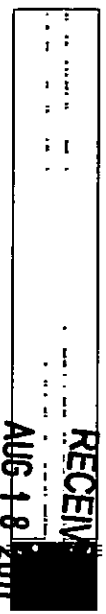
Casing Pressure
125.9 psi (g)
Casing Pressure Buildup
0.1 psi
1.00 min
Gas/Liquid Interface Pressure
141.0 psi (g)

Liquid Level
Main Depth to Liquid Level
4275.59 ft

Formation Depth
4380 ft

Producing

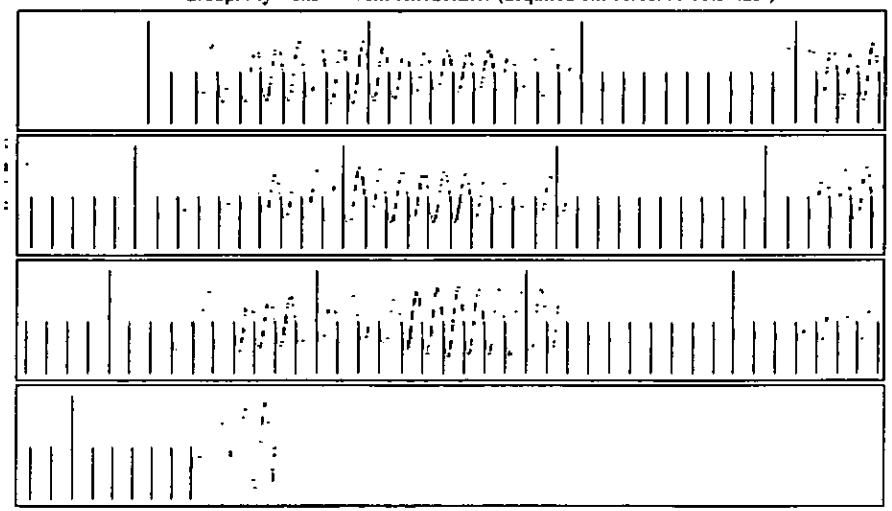
Annular Gas Flow
3 Mscf/D
%% Liquid
88 %



Pump Intake Pressure
153.1 psi (g)
Producing BHP
183.1 psi (g)
Static BHP
-*- psi (g)

Pump Intake Depth (MD)	4314	ft
Total Gaseous Liquid Column HT (TVD)	38	ft
Equivalent Gas Free Liquid HT (TVD)	34	ft

Group: MyWells Well: KIRCHER1 (acquired on: 08/05/11 08:39:25)



Acoustic Velocity	1290.55	ft/s	Joints counted	126	
Joints Per Second	20.6422	jts/sec	Joints to liquid level	136.775	
Depth to liquid level	4275.59	ft	Filter Width	18.1613	22.1613
Automatic Collar Count	Yes		Time to 1st Collar	0.3	6.404