KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

All blanks must be complete

TEMPORARY ABANDONMENT WELL APPLICATION

OPERATOR: License#				API No. 15						
Name:					Spot Description:					
Address 1:					· · Sec Twp S. R E W					
Address 2:								feet from N /	=	
City:	State:	Zip:	+		feet from E / W Line of Section					
Contact Person:					GPS Location: Lat:, Long:, Long: Datum: NAD27 NAD83 WGS84					
Phone:()									GL	КВ
Contact Person Email:					County:					
Field Contact Person:					Well Type: (a	check one) 🗌 (OilGas	OGwswO	ther:	
Field Contact Person Phor					SWD Pe	rmit #:		_ ENHR Permit	#:	
						rage Permit #: _				
					Spud Date: -			Date Shut-In:		
	Conductor	Surfa	ice	Proc	luction	Intermedia	ate	Liner	Tubing	,
Size										
Setting Depth										
Amount of Cement										
Top of Cement										
Bottom of Cement										
Casing Fluid Level from St	urfaço:		How Dotor	minod?				Date	. .	
0										
Casing Squeeze(s):	p) (bottom)	/		5m,	(top) (0	(bottom)		Sacks of cement. Date		
Do you have a valid Oil & 0	Gas Lease? 🗌 Yes 🛛	No								
Depth and Type:	in Hole at	Tools in Ho	le at	Cas	ing Leaks:	Yes 🗌 No	Depth of ca	asing leak(s):		
Type Completion: AL								(depth)		1 comon
Packer Type:	Size: _			Inch S	iet at:		_ Feet			
Total Depth:	th: Plug Back Depth: I			Plug Back Method:						
Geological Date:										
Formation Name	Formation Top Formation Base		Completion Information							
1	At:	to	Feet	Perfor	ation Interval _	to	Feet or	Open Hole Interval	to	Feet
		to	Feet	Derfer		4.0	Foot of		4.0	Foot
2	At:		Feet	Perior	ation interval -	to	Feet O	r Open Hole Interval -	to	Feel

Submitted Electronically

Do NOT Write in This Space - KCC USE ONLY	Date Tested:	Results:	Date Plugged:	Date Repaired:	Date Put Back in Service:
Review Completed by:		Comments:			
TA Approved: 🗌 Yes 🗌 [Denied Date:				

Mail to the Appropriate KCC Conservation Office:

	KCC District Office #1 - 210 E. Frontview, Suite A, Dodge City, KS 67801	Phone 620.682.7933
	KCC District Office #2 - 3450 N. Rock Road, Building 600, Suite 601, Wichita, KS 67226	Phone 316.337.7400
	KCC District Office #3 - 137 E. 21st St., Chanute, KS 66720	Phone 620.902.6450
	KCC District Office #4 - 2301 E. 13th Street, Hays, KS 67601-2651	Phone 785.261.6250

Sage Technologies, Inc.

Well Name: Michaelis #1 Company: Arrowhead Exploration Test Date: Dec 08, 2020 Formation: Lansing-KC Location: Barton County

Fluid Level and Well Analysis Report

Michaelis #1

Arrowhead Exploration

Lansing-KC

Barton County

Dec 08, 2020

Michaelis #1 2nd shot.dat

Page

1 of 7

Well Name: Michaelis #1 Company: Arrowhead Exploration Test Date: Dec 08, 2020

Casing Pressure (psia)



Formation: Lansing-KC Location: Barton County

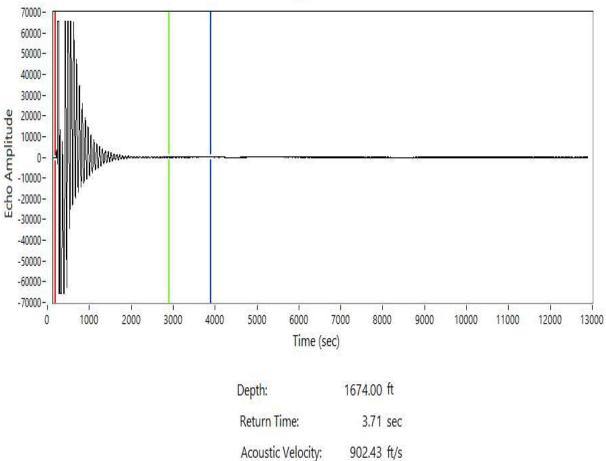
Casing Pressure Buildup 0 -0.1 -0.2 -0.3 -0.4 -0.5 -0.6 -0.7 -0.8--0.9--1--1 Time (sec) Initial Time: 0 Minutes 0 Seconds Initial Casing Pressure: 0 psia Final Time: 0 Minutes 0 Seconds Final Casing Pressure: 0 psia Casing Size: 4.50 in Fluid Level: 1674.00 ft Casing Weight: 13.50 lb/ft Gas Rate: 0.00 mcf/day Tubing Size: 2.37 in Perforation Temp: 124.00 Deg F SpG Gas: 0.80

Page 2 of 7



Well Name: Michaelis #1 Company: Arrowhead Exploration Test Date: Dec 08, 2020 Formation: Lansing-KC Location: Barton County

Echo



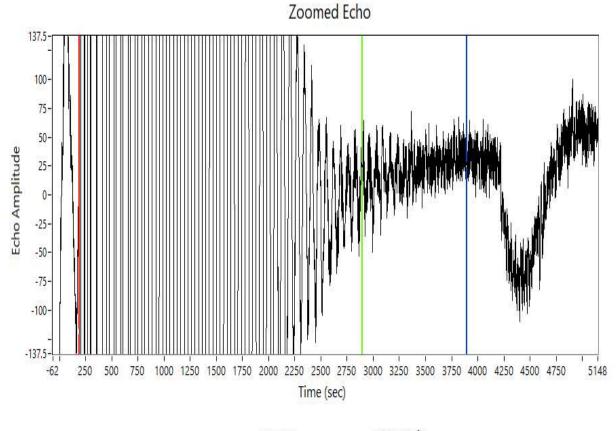
Average Joint Length: 31.00 ft Number of Joints: 54.00

Michaelis #1 2nd shot.dat

Page 3 of 7



Well Name: Michaelis #1 Company: Arrowhead Exploration Test Date: Dec 08, 2020 Formation: Lansing-KC Location: Barton County



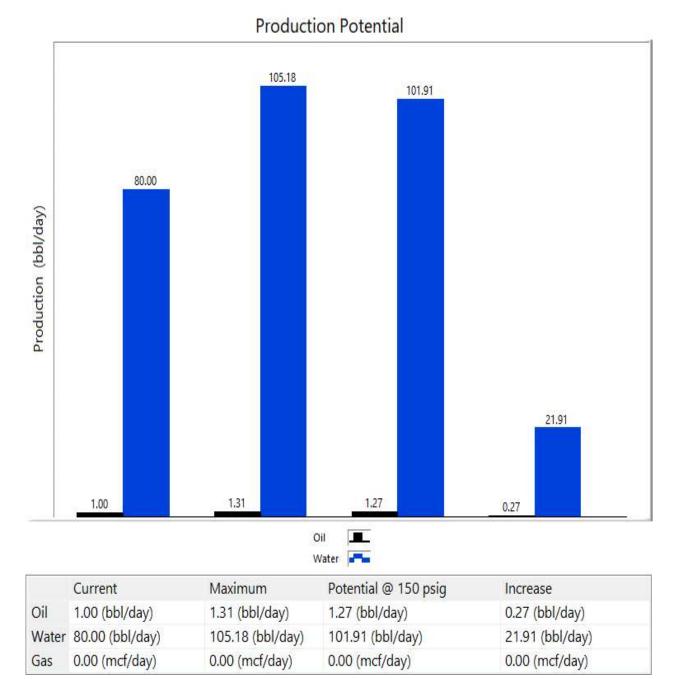
1674.00 ft
3. <mark>71 sec</mark>
902.43 ft/s
31.00 ft
54.00

Michaelis #1 2nd shot.dat

Page 4 of 7



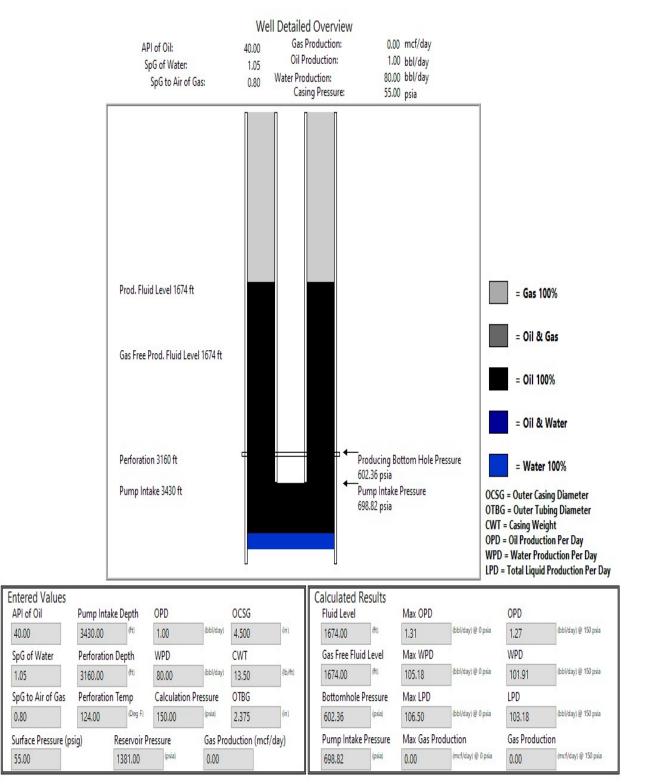
Well Name: Michaelis #1 Company: Arrowhead Exploration Test Date: Dec 08, 2020 Formation: Lansing-KC Location: Barton County





Well Name: Michaelis #1 Company: Arrowhead Exploration Test Date: Dec 08, 2020

Formation: Lansing-KC Location: Barton County



Michaelis #1 2nd shot.dat

Page 6 of 7

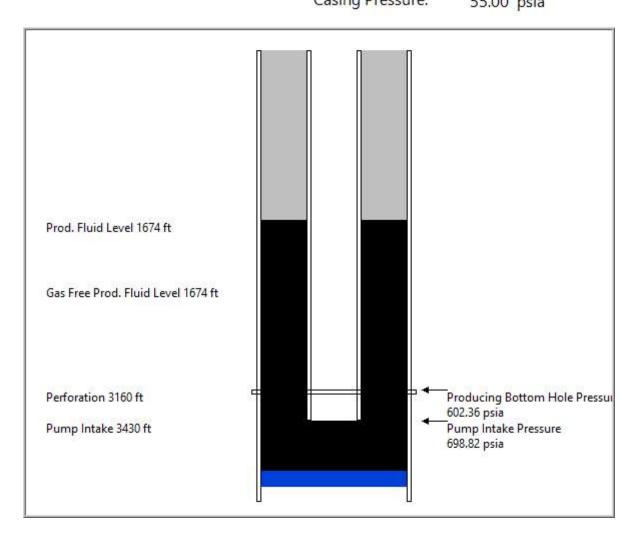
Sage Technologies, Inc. P.O. Box 1466



Well Name: Michaelis #1 Company: Arrowhead Exploration Test Date: Dec 08, 2020 Formation: Lansing-KC Location: Barton County

Well Diagram

API of Oil:	40.00	Gas Production:	0.00 mcf/day
SpG of Water:	<mark>1.05</mark>	Oil Production:	1.00 bbl/day
SpG to Air of Gas:	0.80	Water Production:	80.00 bbl/day
		Casing Pressure:	55.00 psia



Page 7 of 7



Phone: 785-261-6250 Fax: 785-625-0564 http://kcc.ks.gov/

Andrew J. French, Chairperson Dwight D. Keen, Commissioner Susan K. Duffy, Commissioner Laura Kelly, Governor

February 10, 2021

Matt Morris Arrowhead Exploration, LLC 2919 HALL ST. HAYS, KS 67601-1818

Re: Temporary Abandonment API 15-009-21389-00-00 MICHAELIS 1 NW/4 Sec.02-16S-15W Barton County, Kansas

Dear Matt Morris:

"Your temporary abandonment (TA) application for the well listed above has been approved. In accordance with K.A.R. 82-3-111 the TA status of this well will expire 02/10/2022.

* If you return this well to service or plug it, please notify the District Office.

* If you sell this well you are required to file a Transfer of Operator form, T-1.

* If the well will remain temporarily abandoned, you must submit a new TA application, CP-111, before 02/10/2022.

You may contact me at the number above if you have questions.

Very truly yours,

RICHARD WILLIAMS"