

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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# Sean Deenihan

## Petroleum Geologist

### GEOLOGIST'S REPORT

#### DRILLING TIME AND SAMPLE LOG

COMPANY **Arcadian Resources, LLC**

LEASE **Malone #1-22**

FIELD **Wildcat**

LOCATION **1061' F.N.E. & 2236' F.W.L.**

SEC **22** TWP **5S** RGE **32W**

COUNTY **Rawlins** STATE **Kansas**

CONTRACTOR **White Knight Drilling**

SPUD **11/24/21** COMP **12/2/21**

RTD **4600'** LTD **4600'**

MUD UP **3400'** TYPE MUD **Chemical**

SAMPLES SAVED FROM **3700'** TO **RTD**

DRILLING TIME KEPT FROM **3800'** TO **RTD**

SAMPLES EXAMINED FROM **3700'** TO **RTD**

GEOLOGICAL SUPERVISION FROM **3700'**

REFERENCE WELL **Almut #1-15**

PRODUCTION **8-5/8" at 218'**

CONDUCTOR **Electrical Surveys Midwest**

MEASUREMENTS ARE ALL FROM **Kelly Bushing**

CASING **GL 3010'**

DF **KB 3015'**

ELEVATIONS **KB 3015'**

GL **3010'**

Measurements Are All From Kelly Bushing

CASING **GL 3010'**

DF **KB 3015'**

ELEVATIONS **KB 3015'**

GL **3010'**

Measurements Are All From Kelly Bushing

CASING **GL 3010'**

DF **KB 3015'**

ELEVATIONS **KB 3015'**

GL **3010'**

Measurements Are All From Kelly Bushing

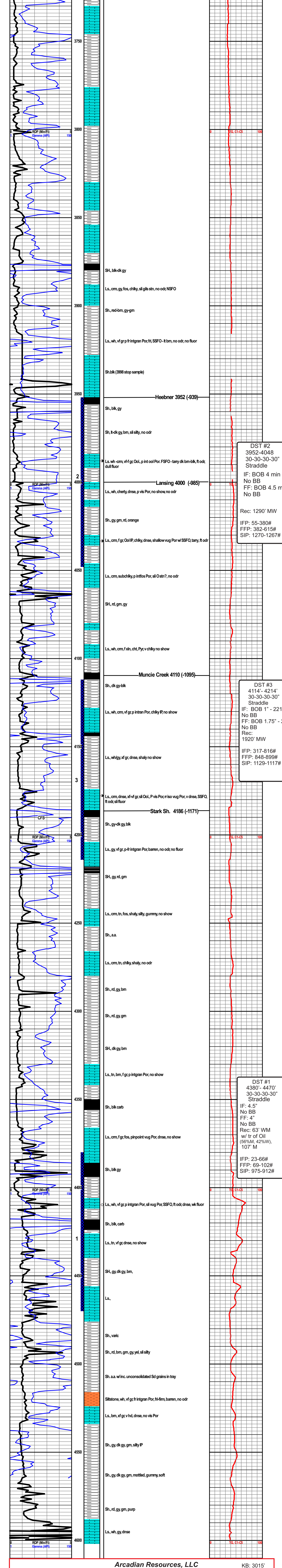
CASING **GL 3010'**

DF **KB 3015'**

REMARKS **The Malone #1-22 was plugged and abandoned based on all the data.**

Respectfully Submitted,

Sean P. Deenihan



DST #2  
3952-4048  
30-30-30-30"  
Straddle  
IF: BOB 4 min  
No BB  
FF: BOB 4.5 min  
No BB  
Rec: 1290' MW  
IFP: 55-380#  
FFP: 382-615#  
SIP: 1270-1267#

DST #3  
4114- 4214'  
30-30-30-30"  
Straddle  
IF: BOB 1" - 221"  
No BB  
FF: BOB 1.75" - 26"  
No BB  
Rec: 1920' MW  
IFP: 317-816#  
FFP: 848-899#  
SIP: 1129-1117#

DST #1  
4380' - 4470'  
30-30-30-30"  
Straddle  
IF: 4.5"  
No BB  
FF: 4"  
No BB  
Rec: 63' WM  
w/ tr of Oil  
(56%M, 42%W),  
107' M  
IFP: 23-66#  
FFP: 69-102#  
SIP: 975-912#

**Arcadian Resources, LLC** KB: 3015'  
Malone # 1-12  
22-5S-32W  
Rawlins Co., KS

RTD: 4600'  
LTD: 4600'



## DRILL STEM TEST REPORT

Prepared For: **Arcadian Resources LLC**

313 E Kansas St  
Glen Elder, KS 67446

ATTN: Sean Deenihan

### **Malone #1-22**

#### **22-5s-32w Rawlins,KS**

Start Date: 2021.12.01 @ 19:28:00

End Date: 2021.12.02 @ 03:39:36

Job Ticket #: 68536                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2021.12.08 @ 15:02:40



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Arcadian Resources LLC

**22-5s-32w Rawlins, KS**

313 E Kansas St  
Glen Elder, KS 67446

**Malone #1-22**

Job Ticket: 68536

**DST#: 1**

ATTN: Sean Deenihan

Test Start: 2021.12.01 @ 19:28:00

## GENERAL INFORMATION:

Formation: **Myrick Station**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:24:36

Time Test Ended: 03:39:36

Test Type: Conventional Straddle (Initial)

Tester: James Winder

Unit No: 73

**Interval: 4380.00 ft (KB) To 4470.00 ft (KB) (TVD)**

Reference Elevations: 3015.00 ft (KB)

Total Depth: 4600.00 ft (KB) (TVD)

3010.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6771**

**Inside**

Press@RunDepth: 101.83 psig @ 4381.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.12.01

End Date:

2021.12.02

Last Calib.:

2021.12.02

Start Time: 19:28:01

End Time:

03:39:36

Time On Btm:

2021.12.01 @ 22:24:06

Time Off Btm:

2021.12.02 @ 00:27:36

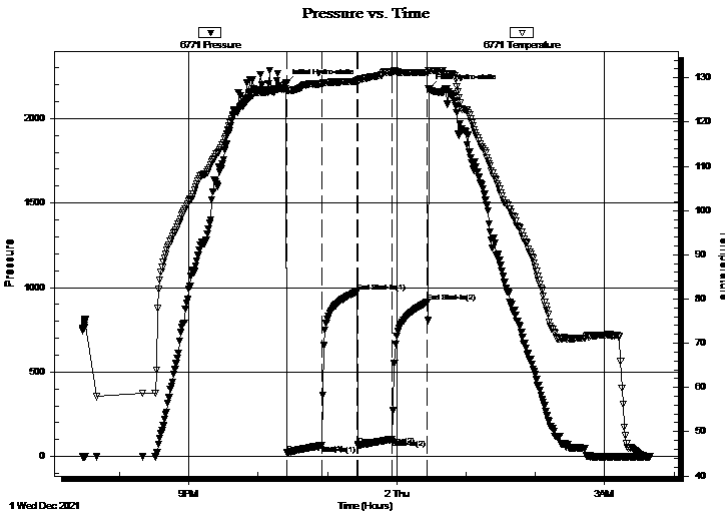
TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 4 1/2"

30 - IS: No blow back

30 - FF: Blow built to 4"

30 - FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2207.07	127.57	Initial Hydro-static
1	22.54	127.19	Open To Flow (1)
31	66.22	128.74	Shut-In(1)
62	975.28	129.26	End Shut-In(1)
62	68.52	128.95	Open To Flow (2)
92	101.83	131.36	Shut-In(2)
123	912.46	131.21	End Shut-In(2)
124	2174.32	131.62	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	WM w /trace oil 58%w, 42%w	0.88
107.00	Mud 100%	1.50

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)









**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Arcadian Resources LLC

**22-5s-32w Rawlins,KS**

313 E Kansas St  
Glen Elder, KS 67446

**Malone #1-22**

Job Ticket: 68536

**DST#: 1**

ATTN: Sean Deenihan

Test Start: 2021.12.01 @ 19:28:00

## Tool Information

Drill Pipe:	Length: 4375.00 ft	Diameter: 3.80 inches	Volume: 61.37 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 61.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4380.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	4470.00 ft			
Interval between Packers:	90.00 ft			
Tool Length:	252.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4348.00	
Shut In Tool	5.00			4353.00	
Hydraulic tool	5.00			4358.00	
Jars	5.00			4363.00	
EM Tool	4.00			4367.00	
Safety Joint	3.00			4370.00	
Packer	5.00			4375.00	33.00 Bottom Of Top Packer
Packer	5.00			4380.00	
Packer - Shale	0.00			4380.00	
Stubb	1.00			4381.00	
Recorder	0.00	6771	Inside	4381.00	
Recorder	0.00	8367	Outside	4381.00	
Perforations	14.00			4395.00	
Blank Spacing	65.00			4460.00	
Perforations	5.00			4465.00	
Blank Off Sub	1.00			4466.00	
Blank Spacing	4.00			4470.00	90.00 Tool Interval
Packer	0.00			4470.00	
Packer - Shale	0.00			4470.00	
Stubb	1.00			4471.00	
Recorder	0.00	8700	Below	4471.00	
Perforations	1.00			4472.00	
Blank Spacing	127.00			4599.00	129.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>252.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Arcadian Resources LLC

**22-5s-32w Rawlins,KS**

313 E Kansas St  
Glen Elder, KS 67446

**Malone #1-22**

Job Ticket: 68536

**DST#: 1**

ATTN: Sean Deenihan

Test Start: 2021.12.01 @ 19:28:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

9000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	WM w /trace oil 58% m, 42% w	0.884
107.00	Mud 100%	1.501

Total Length: 170.00 ft      Total Volume: 2.385 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

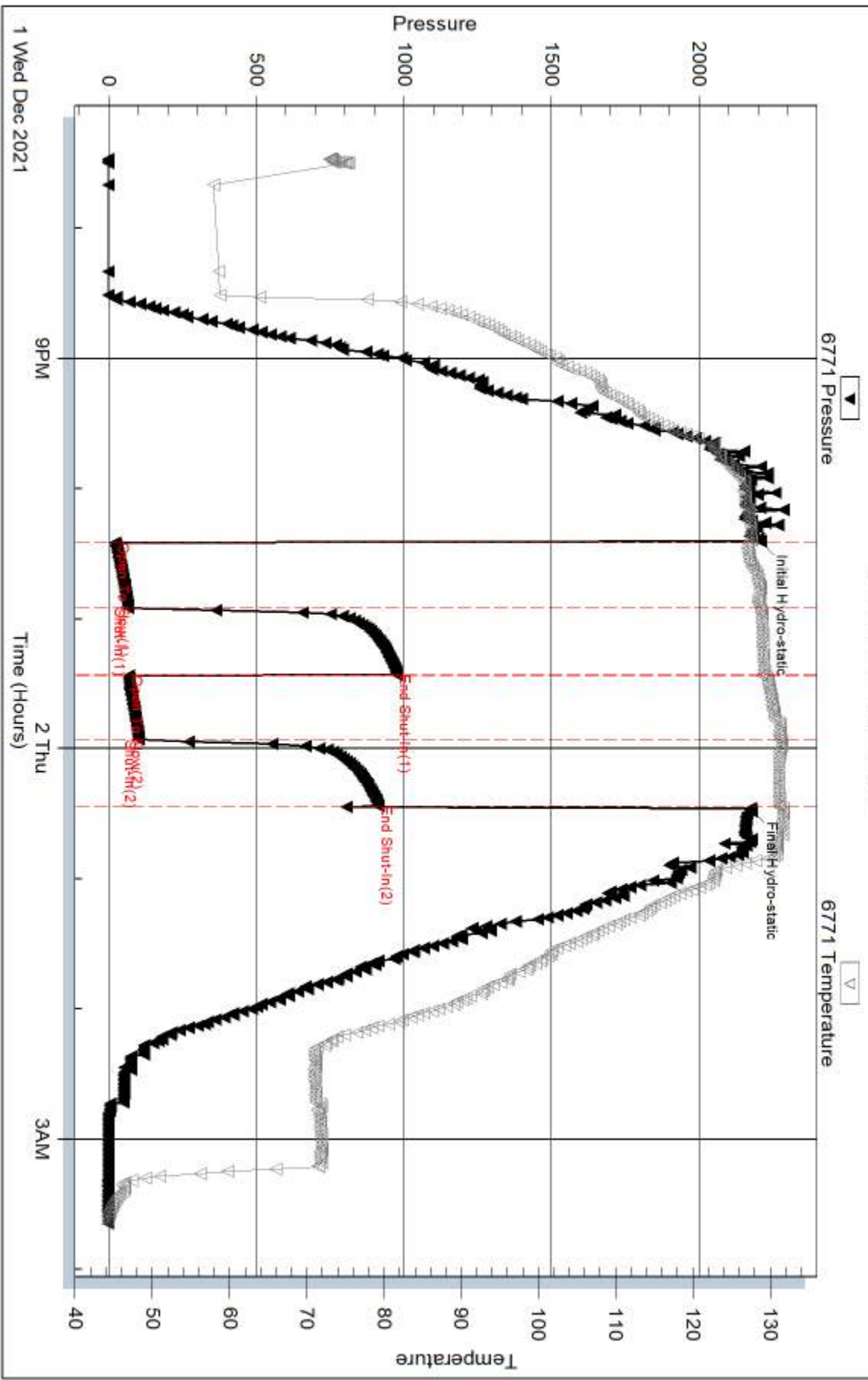
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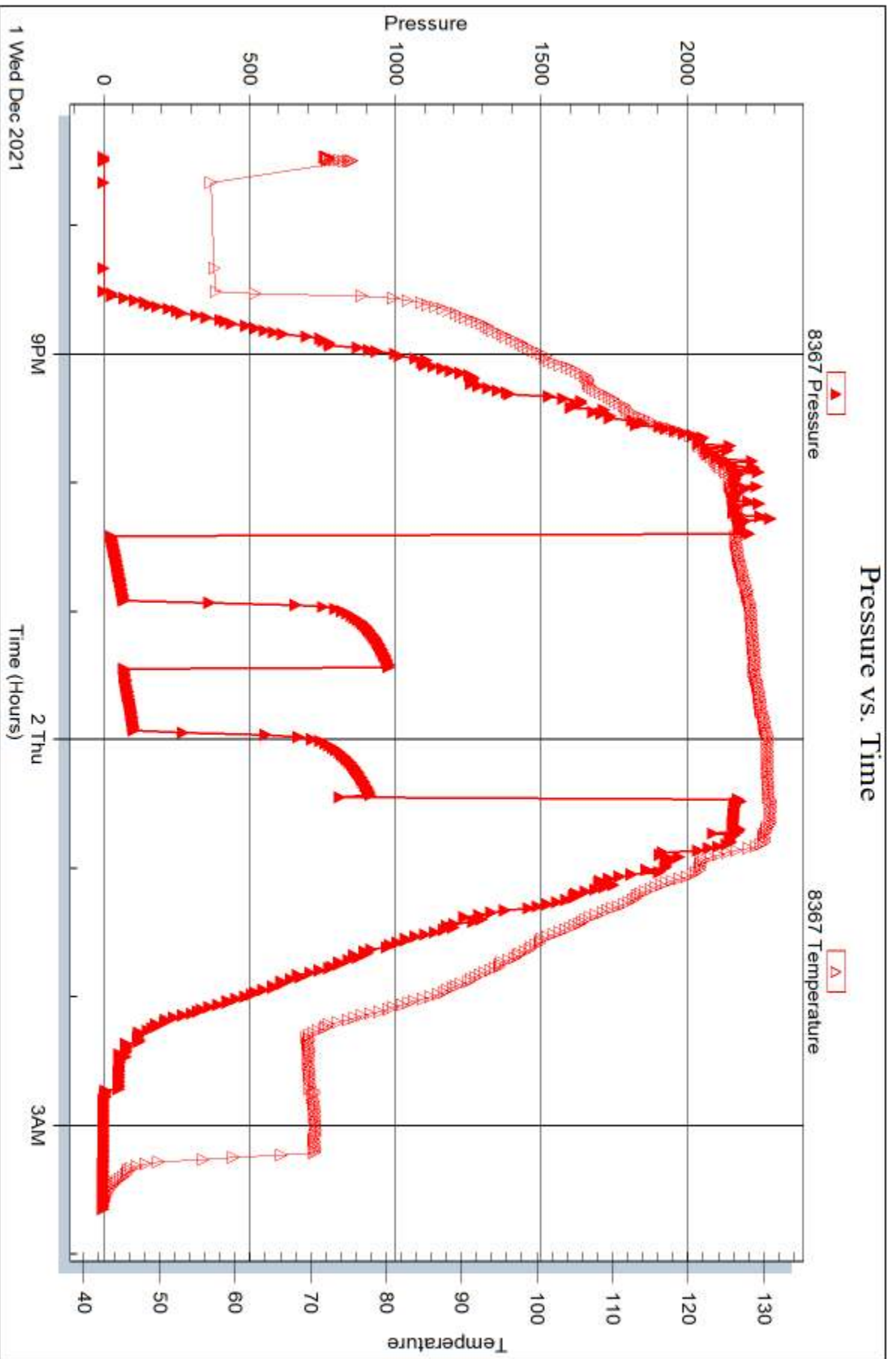
Laboratory Name:

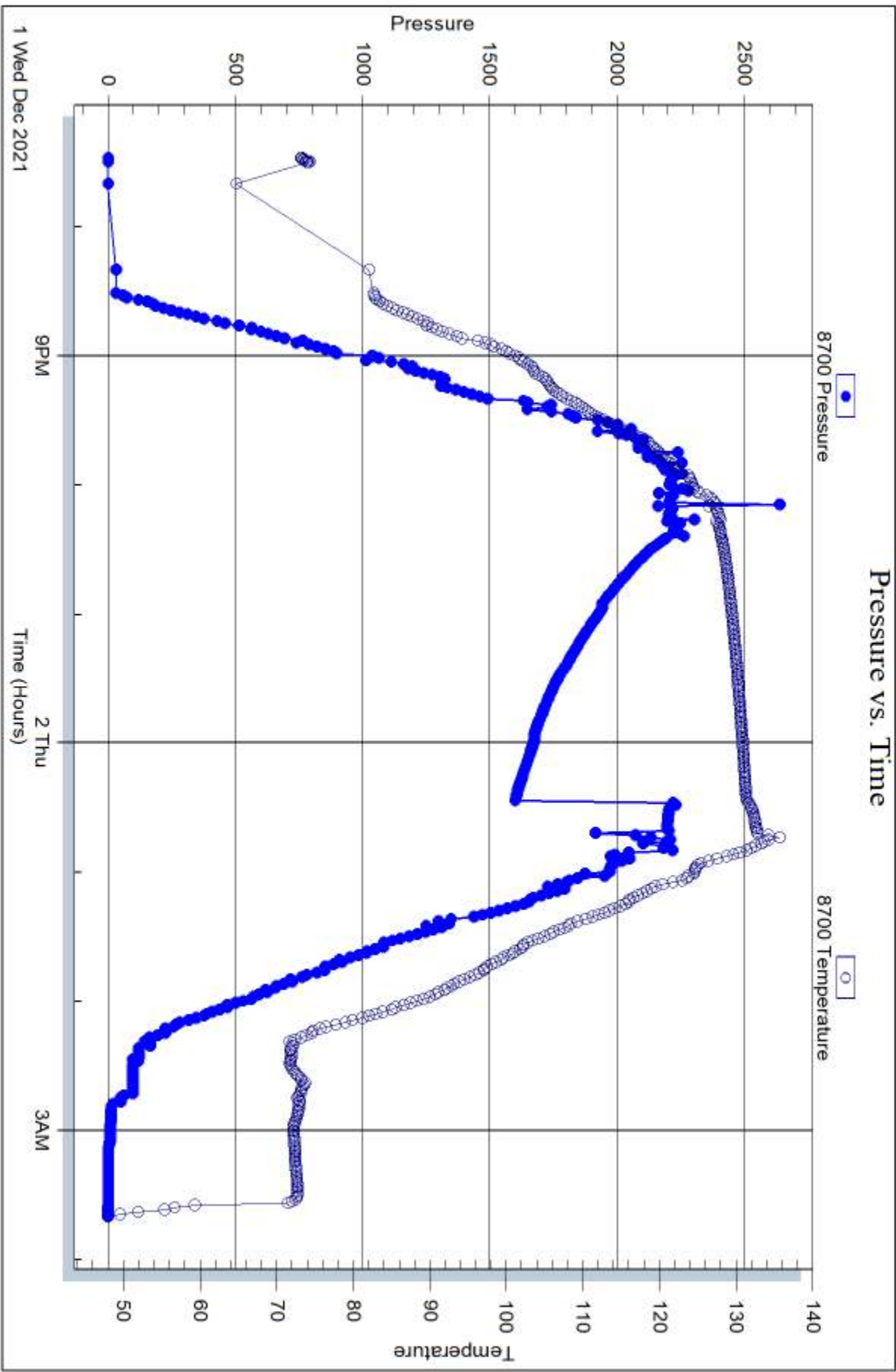
Laboratory Location:

Recovery Comments: RW = .867 ohms @ 54.2 deg F Chlorides = 9,000 ppm

# Pressure vs. Time









## DRILL STEM TEST REPORT

Prepared For: **Arcadian Resources LLC**

313 E Kansas St  
Glen Elder, KS 67446

ATTN: Sean Deenihan

### **Malone #1-22**

#### **22-5s-32w Rawlins,KS**

Start Date: 2021.12.02 @ 04:40:00

End Date: 2021.12.02 @ 12:12:06

Job Ticket #: 68537                      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2021.12.08 @ 15:02:06



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Arcadian Resources LLC

**22-5s-32w Rawlins,KS**

313 E Kansas St  
Glen Elder, KS 67446

**Malone #1-22**

Job Ticket: 68537

**DST#: 2**

ATTN: Sean Deenihan

Test Start: 2021.12.02 @ 04:40:00

## GENERAL INFORMATION:

Formation: **Toronto - LKC "D"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:36:36  
 Time Test Ended: 12:12:06  
 Interval: **3952.00 ft (KB) To 4058.00 ft (KB) (TVD)**  
 Total Depth: 4058.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Straddle (Reset)  
 Tester: James Winder  
 Unit No: 73  
 Reference Elevations: 3015.00 ft (KB)  
 3010.00 ft (CF)  
 KB to GR/CF: 5.00 ft

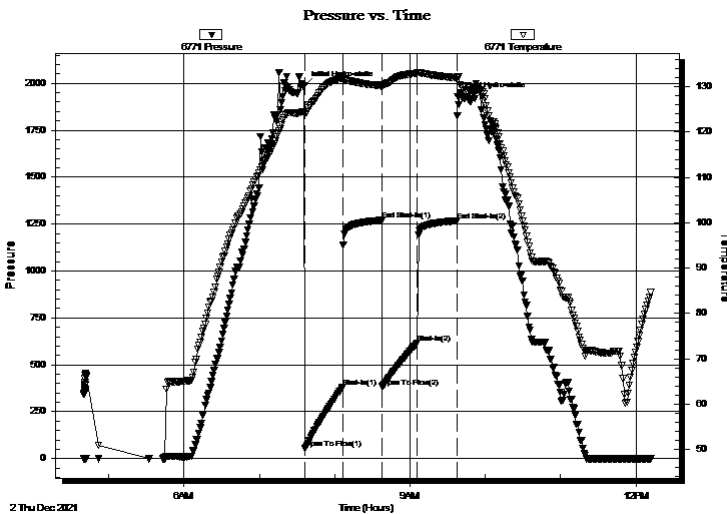
## Serial #: 6771

Inside

Press@RunDepth: 615.05 psig @ 3953.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2021.12.02 End Date: 2021.12.02 Last Calib.: 2021.12.02  
 Start Time: 04:40:01 End Time: 12:12:06 Time On Btm: 2021.12.02 @ 07:36:06  
 Time Off Btm: 2021.12.02 @ 09:38:06

TEST COMMENT: 30 - IF: Blow built to BOB (11") at 3 3/4 min., built to 76"  
 30 - IS: No blow back  
 30 - FF: Blow built to BOB at 4 1/2 min., built to 64"  
 30 - FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1985.50	124.51	Initial Hydro-static
1	54.56	124.07	Open To Flow (1)
31	380.15	131.89	Shut-In(1)
62	1270.05	130.21	End Shut-In(1)
62	381.89	130.18	Open To Flow (2)
90	615.05	132.97	Shut-In(2)
122	1267.08	131.90	End Shut-In(2)
122	1930.54	132.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1020.00	SMCW 93%w, 7%m	14.31
270.00	MW 57%w, 43%m	3.79

\* Recovery from multiple tests

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)









**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Arcadian Resources LLC

**22-5s-32w Rawlins,KS**

313 E Kansas St  
Glen Elder, KS 67446

**Malone #1-22**

Job Ticket: 68537

**DST#: 2**

ATTN: Sean Deenihan

Test Start: 2021.12.02 @ 04:40:00

## Tool Information

Drill Pipe:	Length: 3932.00 ft	Diameter: 3.80 inches	Volume: 55.16 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 55.16 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3952.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	4058.00 ft			
Interval between Packers:	106.00 ft			
Tool Length:	681.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3920.00	
Shut In Tool	5.00			3925.00	
Hydraulic tool	5.00			3930.00	
Jars	5.00			3935.00	
EM Tool	4.00			3939.00	
Safety Joint	3.00			3942.00	
Packer	5.00			3947.00	33.00 Bottom Of Top Packer
Packer	5.00			3952.00	
Packer - Shale	0.00			3952.00	
Stubb	1.00			3953.00	
Recorder	0.00	6771	Inside	3953.00	
Recorder	0.00	8367	Outside	3953.00	
Perforations	30.00			3983.00	
Blank Spacing	65.00			4048.00	
Perforations	5.00			4053.00	
Blank Off Sub	1.00			4054.00	
Blank Spacing	4.00			4058.00	106.00 Tool Interval
Packer	0.00			4058.00	
Packer - Shale	0.00			4058.00	
Stubb	1.00			4059.00	
Recorder	0.00	8700	Below	4059.00	
Perforations	1.00			4060.00	
Blank Spacing	540.00			4600.00	542.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>681.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Arcadian Resources LLC

**22-5s-32w Rawlins,KS**

313 E Kansas St  
Glen Elder, KS 67446

**Malone #1-22**

Job Ticket: 68537

**DST#: 2**

ATTN: Sean Deenihan

Test Start: 2021.12.02 @ 04:40:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

26000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
1020.00	SMCW 93%w , 7%m	14.308
270.00	MW 57%w , 43%m	3.787

Total Length: 1290.00 ft      Total Volume: 18.095 bbf

Num Fluid Samples: 0

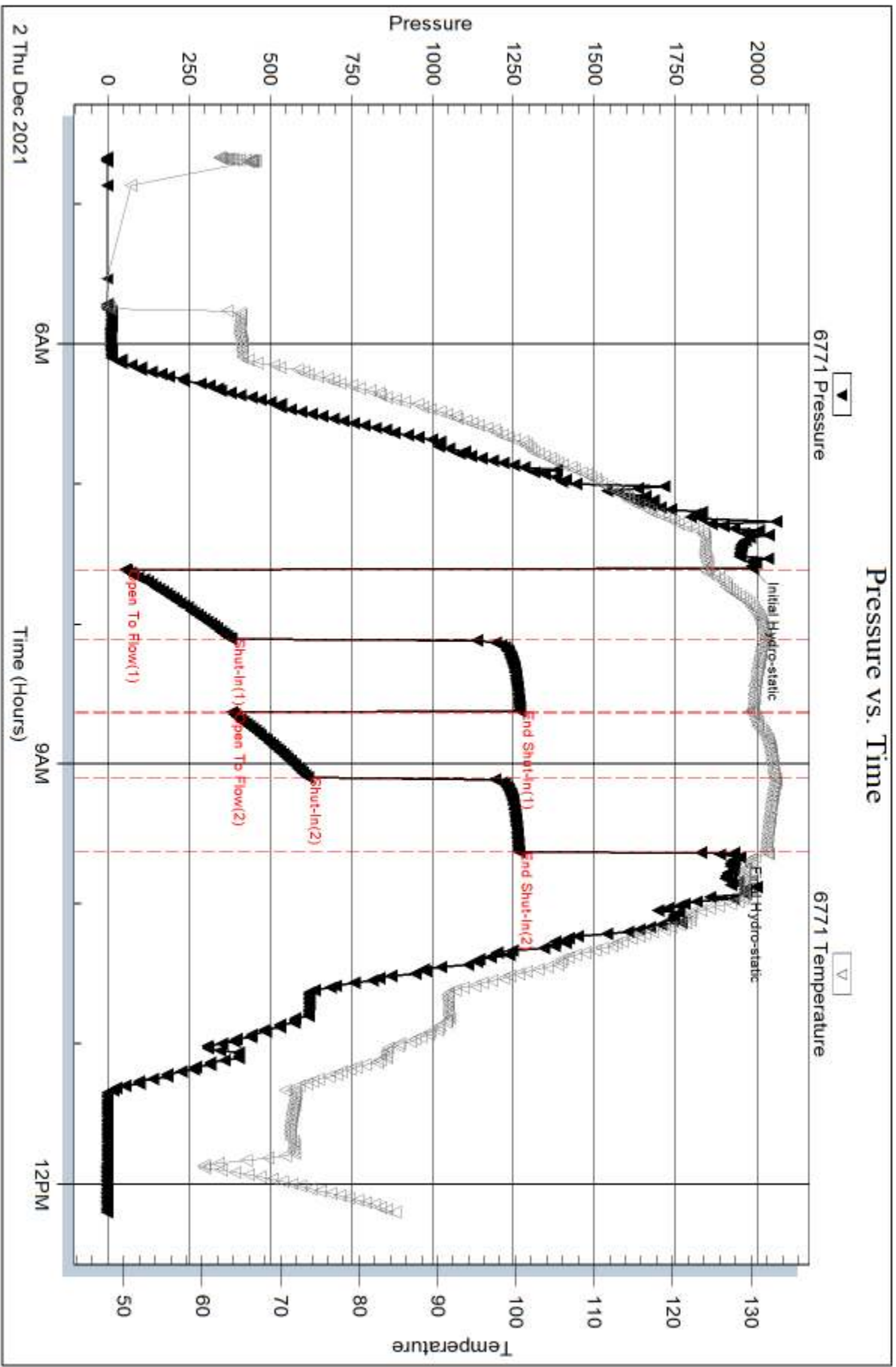
Num Gas Bombs: 0

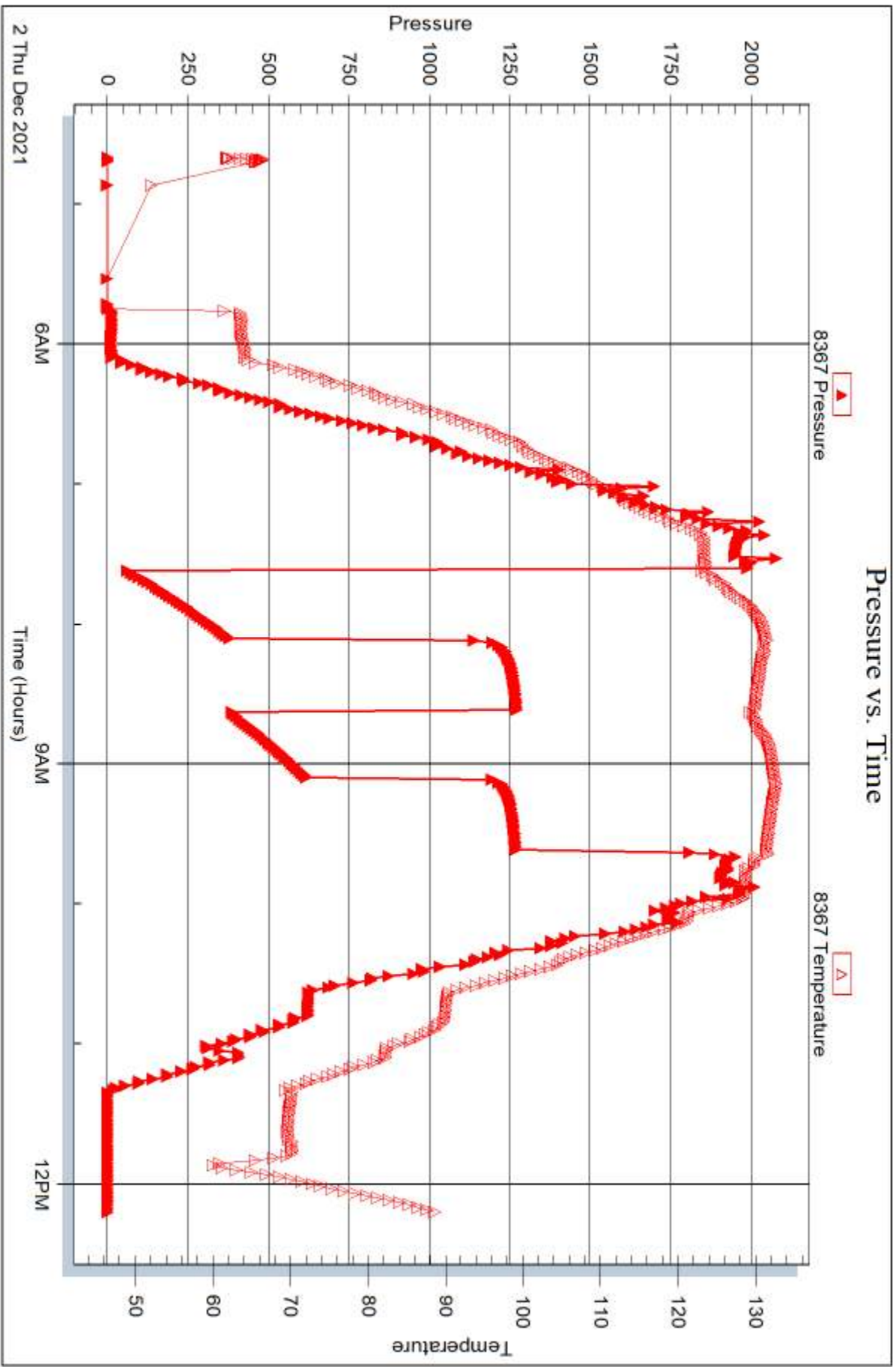
Serial #:

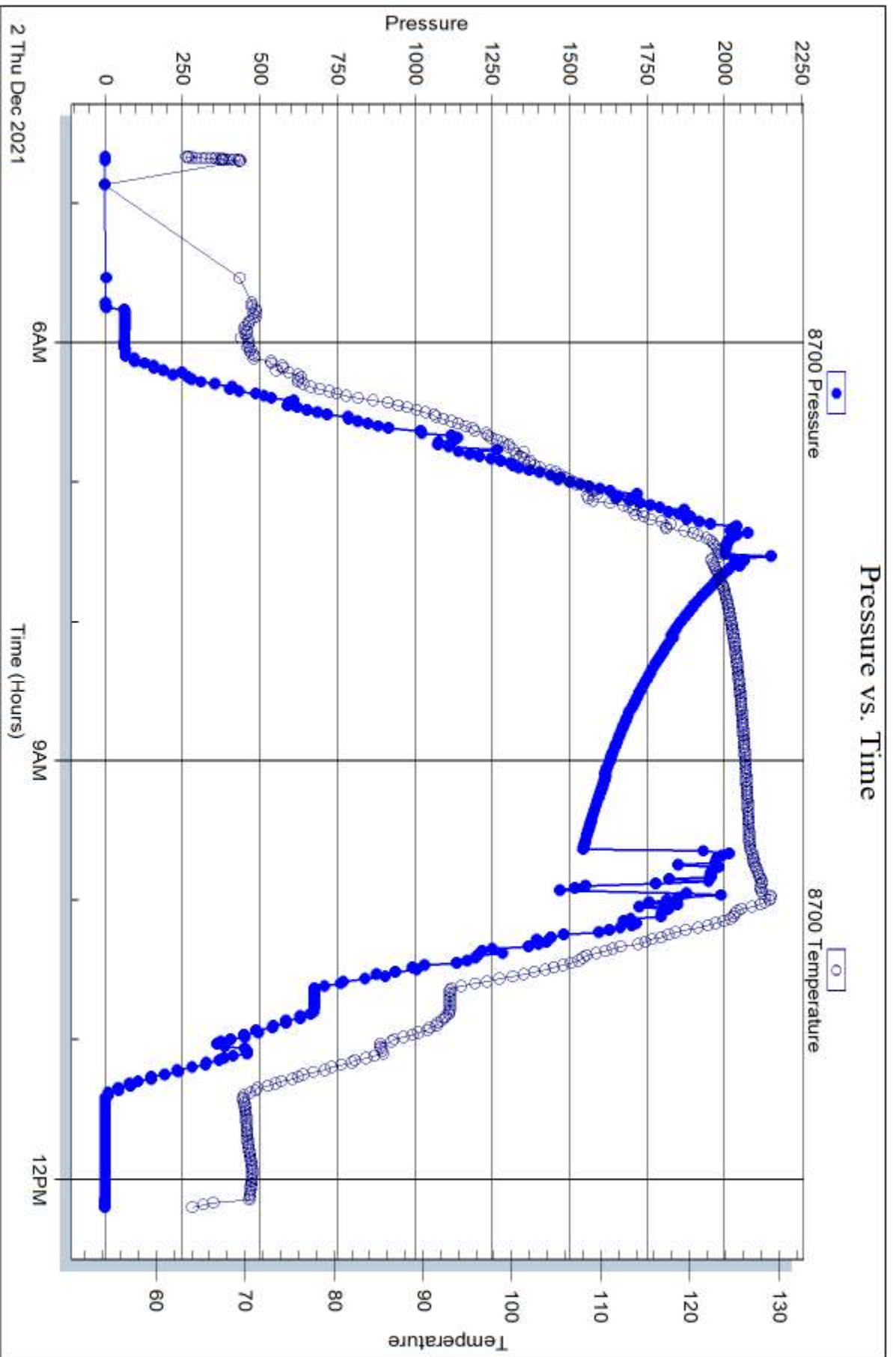
Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .279 ohms @ 71 Deg F Chlorides = 26,000 ppm









## DRILL STEM TEST REPORT

Prepared For: **Arcadian Resources LLC**

313 E Kansas St  
Glen Elder, KS 67446

ATTN: Sean Deenihan

### **Malone #1-22**

#### **22-5s-32w Rawlins,KS**

Start Date: 2021.12.02 @ 12:57:00

End Date: 2021.12.02 @ 18:14:21

Job Ticket #: 68538                      DST #: 3

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2021.12.08 @ 14:54:12



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Arcadian Resources LLC

**22-5s-32w Rawlins,KS**

313 E Kansas St  
Glen Elder, KS 67446

**Malone #1-22**

Job Ticket: 68538

**DST#: 3**

ATTN: Sean Deenihan

Test Start: 2021.12.02 @ 12:57:00

## GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:23:21

Time Test Ended: 18:14:21

Test Type: Conventional Straddle (Reset)

Tester: James Winder

Unit No: 73

**Interval: 4114.00 ft (KB) To 4214.00 ft (KB) (TVD)**

Reference Elevations: 3015.00 ft (KB)

Total Depth: 4600.00 ft (KB) (TVD)

3010.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6771**

**Inside**

Press@RunDepth: 898.50 psig @ 4115.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.12.02

End Date: 2021.12.02

Last Calib.: 2021.12.02

Start Time: 12:57:01

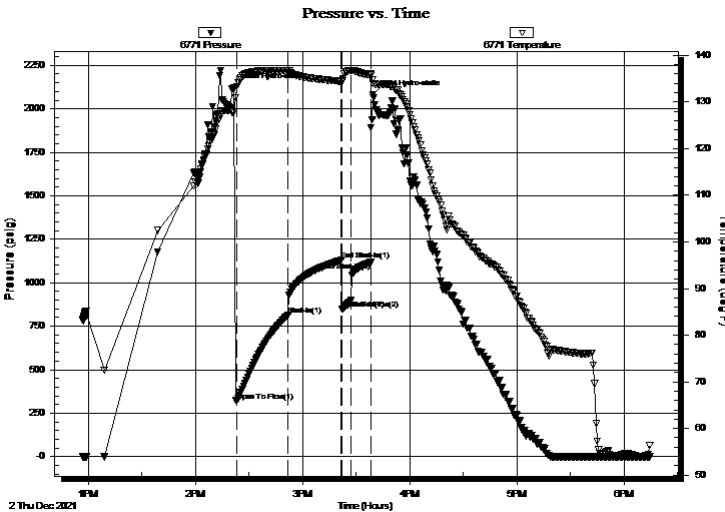
End Time: 18:14:21

Time On Btm: 2021.12.02 @ 14:21:51

Time Off Btm: 2021.12.02 @ 15:39:36

**TEST COMMENT:** 30 - IF: Blow built to BOB (11") at 1 min., built to 221"  
30 - IS: Very weak surface blow, bled off a bit more, No blow  
5 - FF: Blow built to BOB at 1 3/4 min., built to 26"  
15 - FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2120.41	127.91	Initial Hydro-static
2	317.12	133.26	Open To Flow (1)
31	816.01	136.71	Shut-In(1)
60	1129.29	134.42	End Shut-In(1)
61	847.52	134.52	Open To Flow (2)
66	898.50	136.75	Shut-In(2)
77	1117.20	135.79	End Shut-In(2)
78	2084.12	134.00	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1655.00	Water 98%w, 2%m	23.22
125.00	MCW 83%w, 17%m	1.75
140.00	MCW 64%w, 36%m	1.96

\* Recovery from multiple tests

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)









**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Arcadian Resources LLC

**22-5s-32w Rawlins,KS**

313 E Kansas St  
Glen Elder, KS 67446

**Malone #1-22**

Job Ticket: 68538

**DST#: 3**

ATTN: Sean Deenihan

Test Start: 2021.12.02 @ 12:57:00

## Tool Information

Drill Pipe:	Length: 4090.00 ft	Diameter: 3.80 inches	Volume: 57.37 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 57.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4114.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	4214.00 ft			
Interval between Packers:	100.00 ft			
Tool Length:	518.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4082.00		
Shut In Tool	5.00			4087.00		
Hydraulic tool	5.00			4092.00		
Jars	5.00			4097.00		
Gap Sub	4.00			4101.00		
Safety Joint	3.00			4104.00		
Packer	5.00			4109.00	33.00	Bottom Of Top Packer
Packer	5.00			4114.00		
Packer - Shale	0.00			4114.00		
Stubb	1.00			4115.00		
Recorder	0.00	6771	Inside	4115.00		
Recorder	0.00	8367	Outside	4115.00		
Perforations	24.00			4139.00		
Blank Spacing	65.00			4204.00		
Perforations	5.00			4209.00		
Blank Off Sub	1.00			4210.00		
Blank Spacing	4.00			4214.00	100.00	Tool Interval
Packer	0.00			4214.00		
Packer - Shale	0.00			4214.00		
Stubb	1.00			4215.00		
Recorder	0.00	8700	Below	4215.00		
Perforations	4.00			4219.00		
Blank Spacing	380.00			4599.00	385.00	Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>518.00</b>					



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Arcadian Resources LLC

**22-5s-32w Rawlins,KS**

313 E Kansas St  
Glen Elder, KS 67446

**Malone #1-22**

Job Ticket: 68538

**DST#: 3**

ATTN: Sean Deenihan

Test Start: 2021.12.02 @ 12:57:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

25000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1655.00	Water 98%w , 2%m	23.215
125.00	MCW 83%w , 17%m	1.753
140.00	MCW 64%w , 36%m	1.964

Total Length: 1920.00 ft      Total Volume: 26.932 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

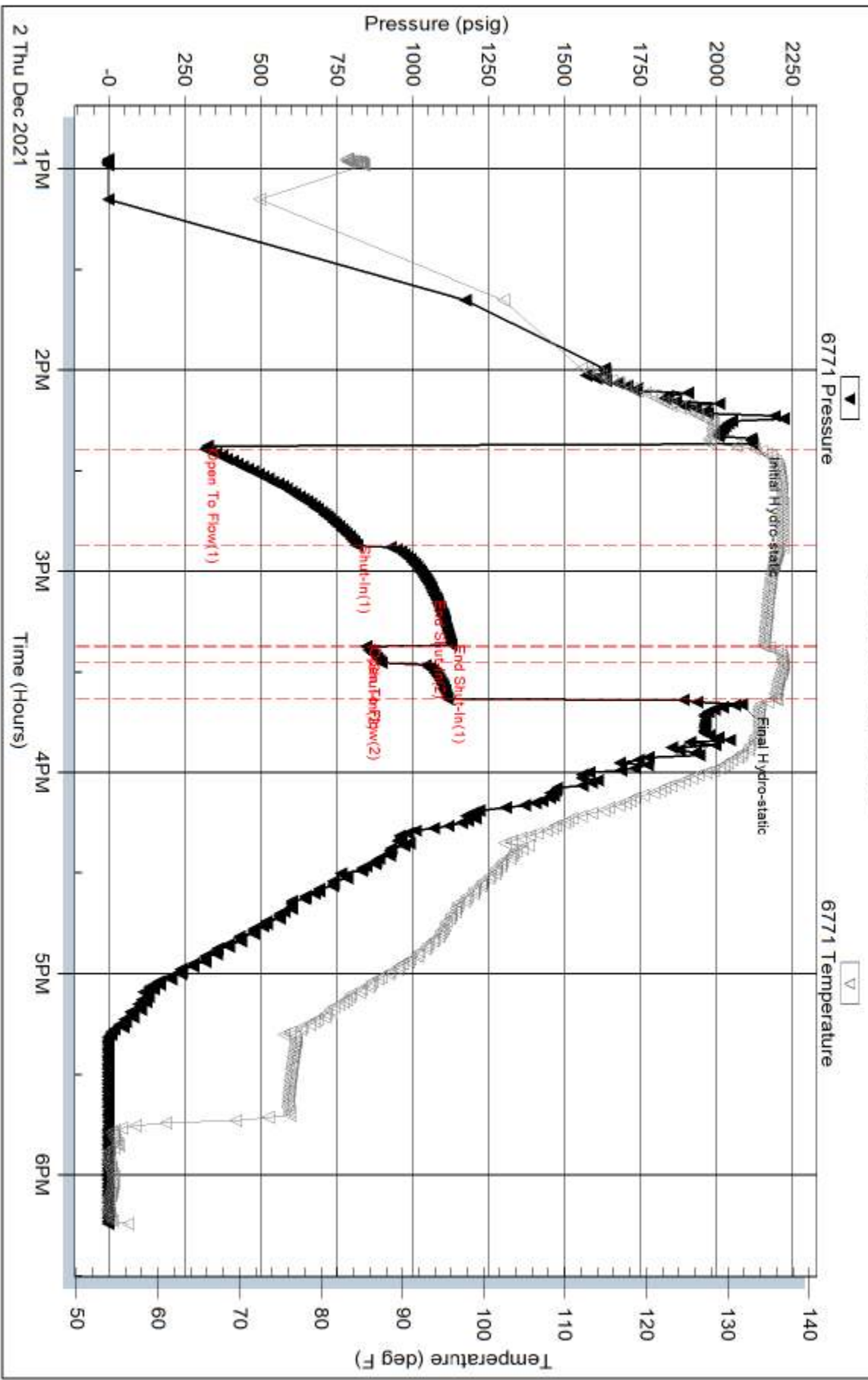
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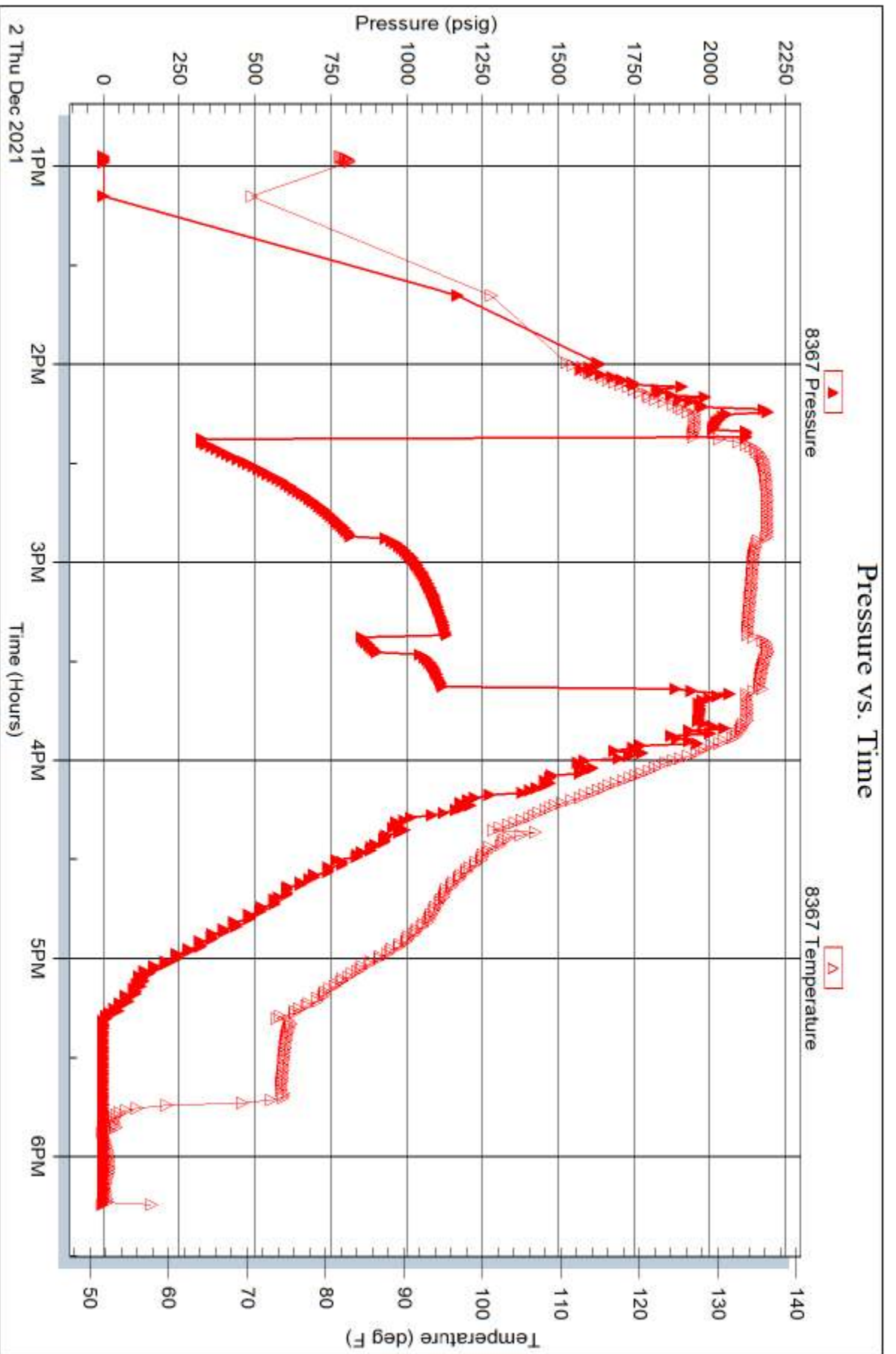
Laboratory Name:

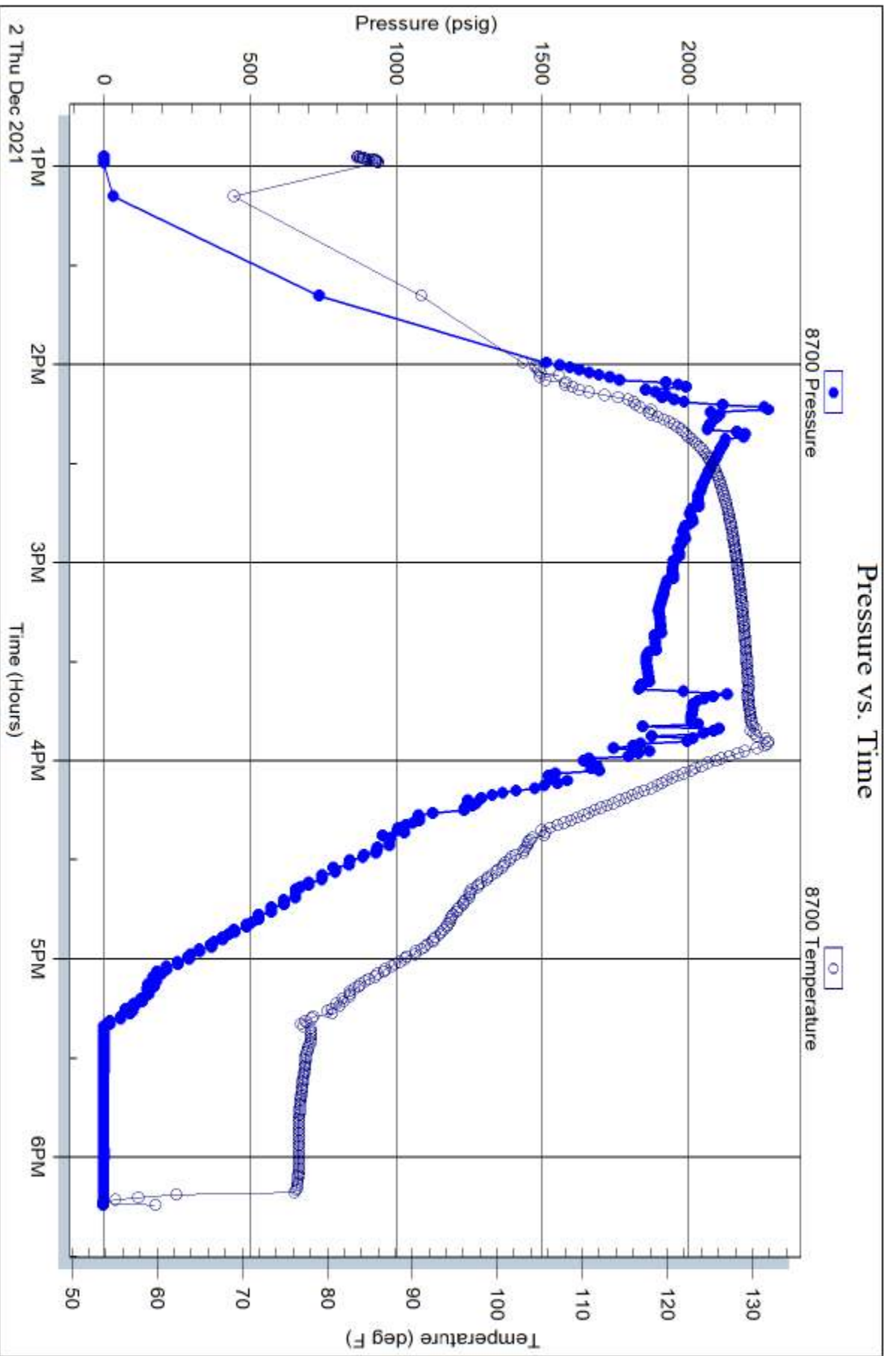
Laboratory Location:

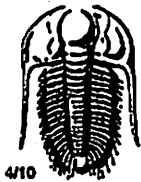
Recovery Comments: RW = .281 ohms @ 71 deg F Chlorides = 25,000 ppm

### Pressure vs. Time









# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68536

Well Name & No. Malone #1-22 Test No. 1 Date 12-1-21  
 Company Arcadian Resources LLC Elevation 3015 KB 3010 GL  
 Address 313 E Kansas St Glen Elder KS 67446  
 Co. Rep / Geo. Sean Deenihan Rig White Knight  
 Location: Sec. 22 Twp 5s Rge. 32w Co. Rawlins State KS

Interval Tested 4380 - 4470 Zone Tested Myrick Station  
 Anchor Length 90 Anchor 130 Tail Drill Pipe Run 4375 Mud Wt. 9.4  
 Top Packer Depth 4375 - 4380 (shale) Drill Collars Run - Vls 50  
 Bottom Packer Depth 4470 (shale) Wt. Pipe Run - WL 8.8  
 Total Depth 4600 Chlorides 500 ppm System LCM 1  
 Blow Description IF: 1/4" Blow at open, built to 4 1/2"  
ISI: No blowback  
FF: Blow built to 4"  
FSI: No blowback

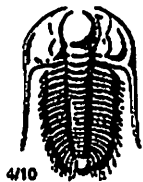
Rec	Feet of	%gas	%oil	%water	%mud
<u>107</u>	<u>Mud w/trace oil</u>	<u>trace</u>		<u>100</u>	
<u>63</u>	<u>WM w/trace oil</u>	<u>trace</u>	<u>42</u>	<u>58</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 170 BHT 131 Gravity \_\_\_\_\_ API RW .867 @ 54.2°F Chlorides 9,000 ppm  
 (A) Initial Hydrostatic 2207  Test 1450 T-On Location 17:00 12/1  
 (B) First Initial Flow 23  Jars 250 T-Started 19:28  
 (C) First Final Flow 66  Safety Joint 75 T-Open 22:24  
 (D) Initial Shut-In 975  Circ Sub \_\_\_\_\_ T-Pulled 00:26  
 (E) Second Initial Flow 69  Hourly Standby \_\_\_\_\_ T-Out 3:40 12/2  
 (F) Second Final Flow 102  Mileage 76RT 95 Comments \_\_\_\_\_  
 (G) Final Shut-In 912  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2174  Straddle 600  EM Tool 350  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 2970 Sub Total 350  
 Total 3320 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative James Winkler

Triobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68537

Well Name & No. Malone #1-22 Test No. 2 Date 12-2-21  
 Company Arcadian Resources LLC Elevation 3015 KB 3010 GL  
 Address 313 E Kansas St. Glen Elder KS 67446  
 Co. Rep / Geo. Sean Deenihan Rig White Knight  
 Location: Sec. 22 Twp 5s Rge. 32w Co. Rawlins State KS

Interval Tested 3952-4058 Zone Tested Toronto - LKC-D  
 Anchor Length 106 Anchor 542 Tail Drill Pipe Run 3932 Mud Wt. 9.4  
 Top Packer Depth 3947 - 3952 (shale) Drill Collars Run - Vis 50  
 Bottom Packer Depth 4058 (shale) Wt. Pipe Run - WL 8.7  
 Total Depth 4600 Chlorides 500 ppm System LCM 1

Blow Description IF: Blow built to BOB (11") at 3 3/4 min., built to 76"  
ISI: No blowback  
FF: Blow built to BOB at 4 1/2 min., built to 64"  
FSI: No blowback

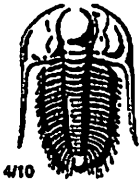
Rec	Feet of	%gas	%oil	%water	%mud
<u>270</u>	<u>MW</u>		<u>57</u>	<u>43</u>	
<u>1020</u>	<u>SMCW</u>		<u>93</u>	<u>7</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1290 BHT 132 Gravity API RW-279 @ 71 °F Chlorides 26,000 ppm

(A) Initial Hydrostatic <u>1986</u>	<input checked="" type="checkbox"/> Test <u>1450</u>	T-On Location <u>4:05</u>
(B) First Initial Flow <u>55</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>4:40</u>
(C) First Final Flow <u>380</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>7:36</u>
(D) Initial Shut-In <u>1270</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>9:37</u>
(E) Second Initial Flow <u>382</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>12:10</u>
(F) Second Final Flow <u>615</u>	<input type="checkbox"/> Mileage <u>NA</u>	Comments
(G) Final Shut-In <u>1267</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1931</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>X2 500</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>350</u>
	<input type="checkbox"/> Accessibility	Total <u>3225</u>
	Sub Total <u>2875</u>	MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative James Wicks

TriLOBITE Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRIOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68538

Well Name & No. Malone #1-22 Test No. 3 Date 12-2-21  
 Company Arcadian Resources LLC Elevation 3015 KB 3010 GL  
 Address 313 E Kansas St Glen Elder KS 67446  
 Co. Rep / Geo. Sean Deenihan Rig White Knight  
 Location: Sec. 22 Twp 5s Rge. 32w Co. Rawlins State KS

Interval Tested 4114 - 4214 Zone Tested LKC "J"  
 Anchor Length 100 Anchor 386 Tail Drill Pipe Run 4090 Mud Wt. 9.4  
 Top Packer Depth 4109 - 4114 (shale) Drill Collars Run - Vis 50  
 Bottom Packer Depth 4214 (shale) Wt. Pipe Run - WL 8.8  
 Total Depth 4600 Chlorides 500 ppm System LCM 1

Blow Description IF: Blow built to BOB(11") at 1min, built to 221"  
ISI: Very weak surface blow, bled off a bit more, No blow  
FF: Blow built to BOB at 1 3/4 min, built to 26"  
FST:

Rec	Feet of	%gas	%oil	%water	%mud
<u>140</u>	<u>mcw</u>		<u>64</u>	<u>36</u>	
<u>125</u>	<u>mcw</u>		<u>83</u>	<u>17</u>	
<u>1655</u>	<u>Water</u>		<u>98</u>	<u>2</u>	

Rec Total 1920 BHT 136 Gravity \_\_\_\_\_ API RW 281 @ 71 °F Chlorides 25,000 ppm

(A) Initial Hydrostatic 2120  
 (B) First Initial Flow 317  
 (C) First Final Flow 816  
 (D) Initial Shut-In 1129  
 (E) Second Initial Flow 848  
 (F) Second Final Flow 899  
 (G) Final Shut-In 1117  
 (H) Final Hydrostatic 2084

Test 1450  
 Jars 250  
 Safety Joint 75  
 Circ Sub \_\_\_\_\_  
 Hourly Standby \_\_\_\_\_  
 Mileage NA  
 Sampler \_\_\_\_\_  
 Straddle 600  
 Shale Packer X2 500  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 2875

T-On Location 12:35  
 T-Started 12:57  
 T-Open 14:23  
 T-Pulled 15:38  
 T-Out 18:10  
 Comments \_\_\_\_\_  
 EM Tool didn't run  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 2875  
 MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 5  
 Final Shut-In 15

Approved By \_\_\_\_\_

Our Representative James Vink

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