

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](mailto: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
--	---

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) (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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Form	ACO1 - Well Completion
Operator	Arcadian Resources, LLC
Well Name	FISHER 27-1
Doc ID	1711350

All Electric Logs Run

Compensated Density/Neutron Log
Dual Induction Log
Micro Log
Bond Log





## DRILL STEM TEST REPORT

Prepared For: **Arcadian Resources LLC**

313 E Kansas St  
Glen Elder, KS 67446

ATTN: Sean Deenihan

### **Fisher #27-1**

#### **27/5s/37w Cheyenne KS**

Start Date: 2023.01.23 @ 22:45:00

End Date: 2023.01.24 @ 08:40:35

Job Ticket #: 68848                      DST #: 1

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

Printed: 2023.01.30 @ 14:56:46



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Arcadian Resources LLC

**27/5s/37w Cheyenne KS**

313 E Kansas St  
Glen Elder, KS 67446

**Fisher #27-1**

Job Ticket: 68848

**DST#: 1**

ATTN: Sean Deenihan

Test Start: 2023.01.23 @ 22:45:00

## GENERAL INFORMATION:

Formation: **Lans. "H - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:15:51

Time Test Ended: 08:40:35

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 73

**Interval: 4264.00 ft (KB) To 4354.00 ft (KB) (TVD)**

Reference Elevations: 3275.00 ft (KB)

Total Depth: 4354.00 ft (KB) (TVD)

3270.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6771**

**Inside**

Press@RunDepth: 548.81 psig @ 4265.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.01.23

End Date:

2023.01.24

Last Calib.:

2023.01.24

Start Time: 22:45:01

End Time:

08:40:35

Time On Btm:

2023.01.24 @ 02:15:36

Time Off Btm:

2023.01.24 @ 04:22:21

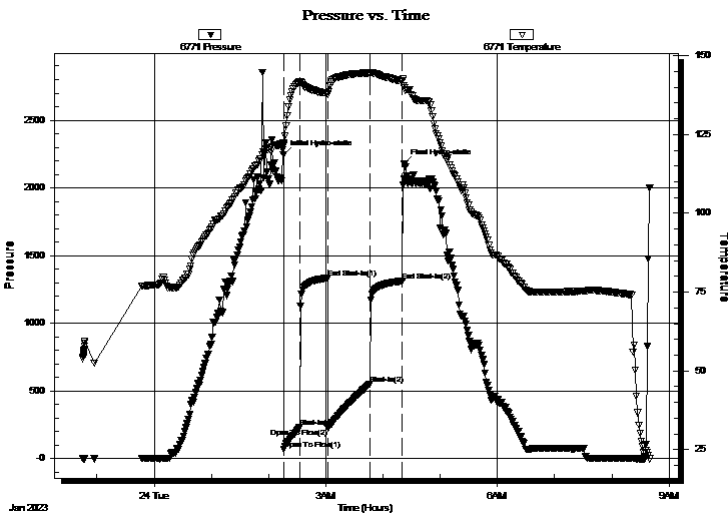
**TEST COMMENT:** 15 - IF: Blow built to BOB (11" Diesel) in 4 3/4 min., built to 30 1/2"

30 - IS: Blow back built to 1/4" then died back to surface blow

45 - FF: Blow built to BOB in 5 1/4 min., built to 67 1/4"

30 - FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2246.16	122.23	Initial Hydro-static
1	67.52	121.59	Open To Flow (1)
17	230.03	141.74	Shut-In(1)
47	1332.12	137.80	End Shut-In(1)
47	226.92	137.74	Open To Flow (2)
91	548.81	144.52	Shut-In(2)
125	1312.02	142.13	End Shut-In(2)
127	2180.53	139.94	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1072.00	Water 97%w , 3%m	13.94
160.00	MCW 70%w , 30%m	2.24
0.00	GIP = 30'	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Arcadian Resources LLC

**27/5s/37w Cheyenne KS**

313 E Kansas St  
Glen Elder, KS 67446

**Fisher #27-1**

Job Ticket: 68848

**DST#: 1**

ATTN: Sean Deenihan

Test Start: 2023.01.23 @ 22:45:00

## Tool Information

Drill Pipe:	Length: 4129.00 ft	Diameter: 3.80 inches	Volume: 57.92 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume: 58.51 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4264.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	123.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4232.00	
Shut In Tool	5.00			4237.00	
Hydraulic tool	5.00			4242.00	
Jars	5.00			4247.00	
EM Tool	4.00			4251.00	
Safety Joint	3.00			4254.00	
Packer	5.00			4259.00	33.00 Bottom Of Top Packer
Packer	5.00			4264.00	
Packer - Shale	0.00			4264.00	
Stubb	1.00			4265.00	
Recorder	0.00	6771	Inside	4265.00	
Recorder	0.00	8367	Outside	4265.00	
Perforations	20.00			4285.00	
Blank Spacing	65.00			4350.00	
Perforations	1.00			4351.00	
Bullnose	3.00			4354.00	90.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>123.00</b>				





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Arcadian Resources LLC

**27/5s/37w Cheyenne KS**

313 E Kansas St  
Glen Elder, KS 67446

**Fisher #27-1**

Job Ticket: 68848

**DST#: 1**

ATTN: Sean Deenihan

Test Start: 2023.01.23 @ 22:45:00

## 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:

23000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1072.00	Water 97%w , 3%m	13.944
160.00	MCW 70%w , 30%m	2.244
0.00	GIP = 30'	0.000

Total Length: 1232.00 ft      Total Volume: 16.188 bbl

Num Fluid Samples: 0

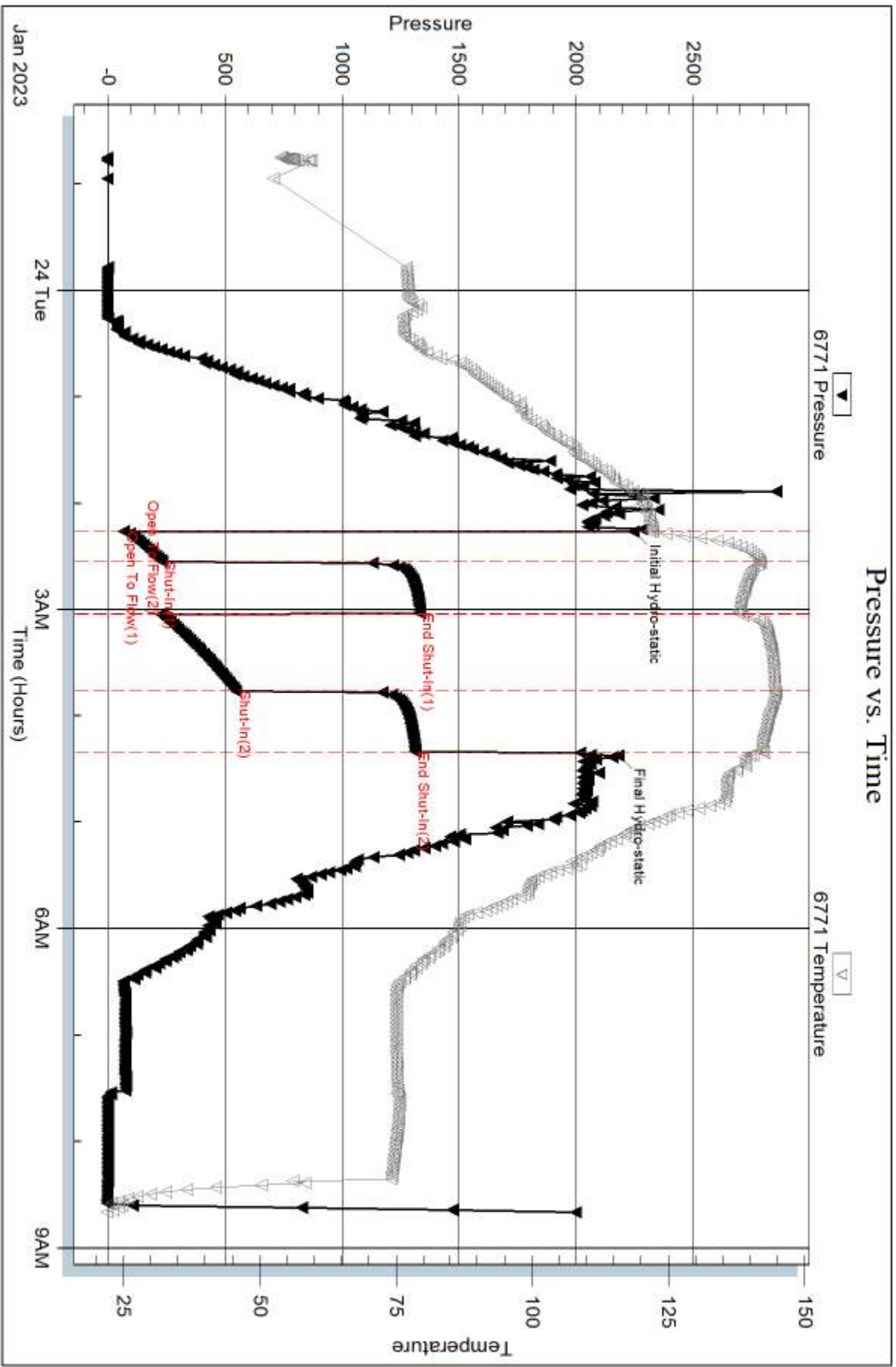
Num Gas Bombs: 0

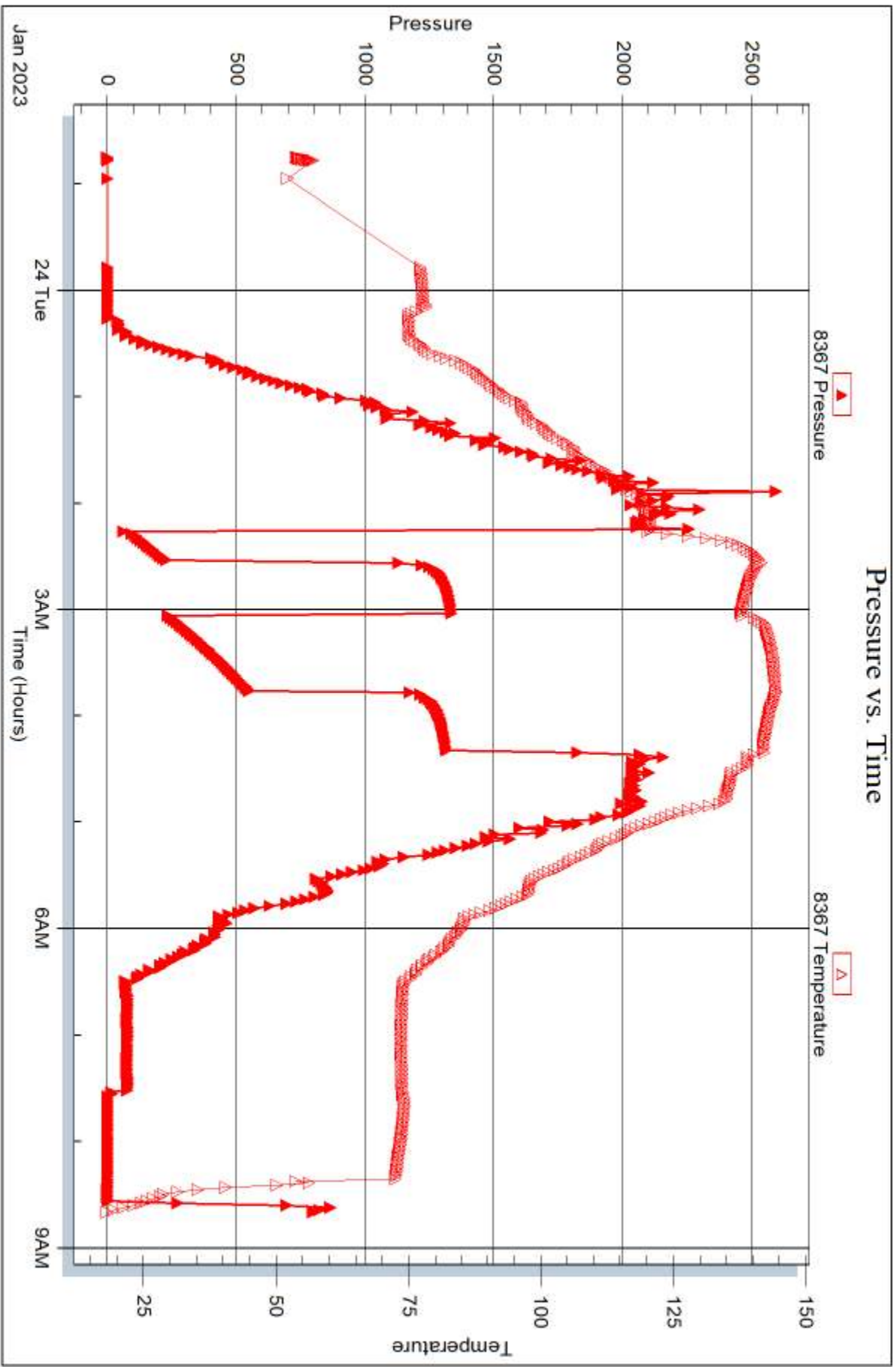
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .390 ohms @ 52.4 deg F Chlorides = 23,000 ppm







## DRILL STEM TEST REPORT

Prepared For: **Arcadian Resources LLC**

313 E Kansas St  
Glen Elder, KS 67446

ATTN: Sean Deenihan

### **Fisher #27-1**

#### **27/5s/37w Cheyenne KS**

Start Date: 2023.01.28 @ 06:45:00

End Date: 2023.01.28 @ 13:57:30

Job Ticket #: 69993                      DST #: 2

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

Printed: 2023.01.30 @ 14:56:15



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Arcadian Resources LLC

**27/5s/37w Cheyenne KS**

313 E Kansas St  
Glen Elder, KS 67446

**Fisher #27-1**

Job Ticket: 69993

**DST#: 2**

ATTN: Sean Deenihan

Test Start: 2023.01.28 @ 06:45:00

## GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:24:00

Time Test Ended: 13:57:30

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

**Interval: 4460.00 ft (KB) To 4542.00 ft (KB) (TVD)**

Reference Elevations: 3275.00 ft (KB)

Total Depth: 4542.00 ft (KB) (TVD)

3270.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8320 Outside**

Press@RunDepth: 28.23 psig @ 4461.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.01.28

End Date:

2023.01.28

Last Calib.:

2023.01.28

Start Time: 06:45:05

End Time:

13:57:29

Time On Btm:

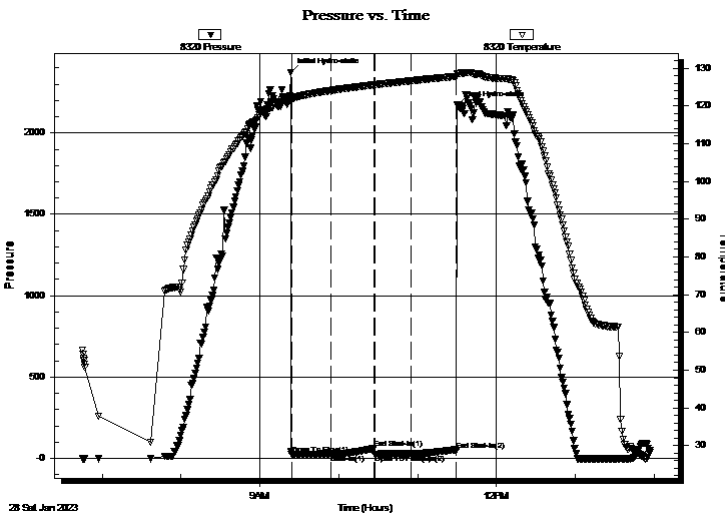
2023.01.28 @ 09:23:30

Time Off Btm:

2023.01.28 @ 11:30:15

TEST COMMENT: IF-30-2 Inches  
IS-30-No return  
FF-30-No Blow  
FS-30-No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2372.27	122.36	Initial Hydro-static
1	26.52	121.87	Open To Flow (1)
31	27.97	124.06	Shut-In(1)
64	62.43	125.56	End Shut-In(1)
64	26.39	125.57	Open To Flow (2)
92	28.23	126.63	Shut-In(2)
127	52.13	127.82	End Shut-In(2)
127	2170.19	128.51	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud	0.14

\* 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

**27/5s/37w Cheyenne KS**

313 E Kansas St  
Glen Elder, KS 67446

**Fisher #27-1**

Job Ticket: 69993

**DST#: 2**

ATTN: Sean Deenihan

Test Start: 2023.01.28 @ 06:45:00

## Tool Information

Drill Pipe:	Length: 4438.00 ft	Diameter: 3.80 inches	Volume: 62.25 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: 100000.0 lb
			<u>Total Volume: 62.25 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4460.00 ft			Final 6000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	113.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4430.00	
Shut In Tool	5.00			4435.00	
Hydraulic tool	5.00			4440.00	
Jars	5.00			4445.00	
EM Tool	3.00			4448.00	
Safety Joint	3.00			4451.00	
Packer	5.00			4456.00	31.00 Bottom Of Top Packer
Packer	4.00			4460.00	
Stubb	1.00			4461.00	
Recorder	0.00	8368	Inside	4461.00	
Recorder	0.00	8320	Outside	4461.00	
Perforations	4.00			4465.00	
Change Over Sub	1.00			4466.00	
Drill Pipe	63.00			4529.00	
Change Over Sub	1.00			4530.00	
Perforations	9.00			4539.00	
Bullnose	3.00			4542.00	82.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>113.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Arcadian Resources LLC

**27/5s/37w Cheyenne KS**

313 E Kansas St  
Glen Elder, KS 67446

**Fisher #27-1**

Job Ticket: 69993

**DST#: 2**

ATTN: Sean Deenihan

Test Start: 2023.01.28 @ 06:45:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	mud	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbf

Num Fluid Samples: 0

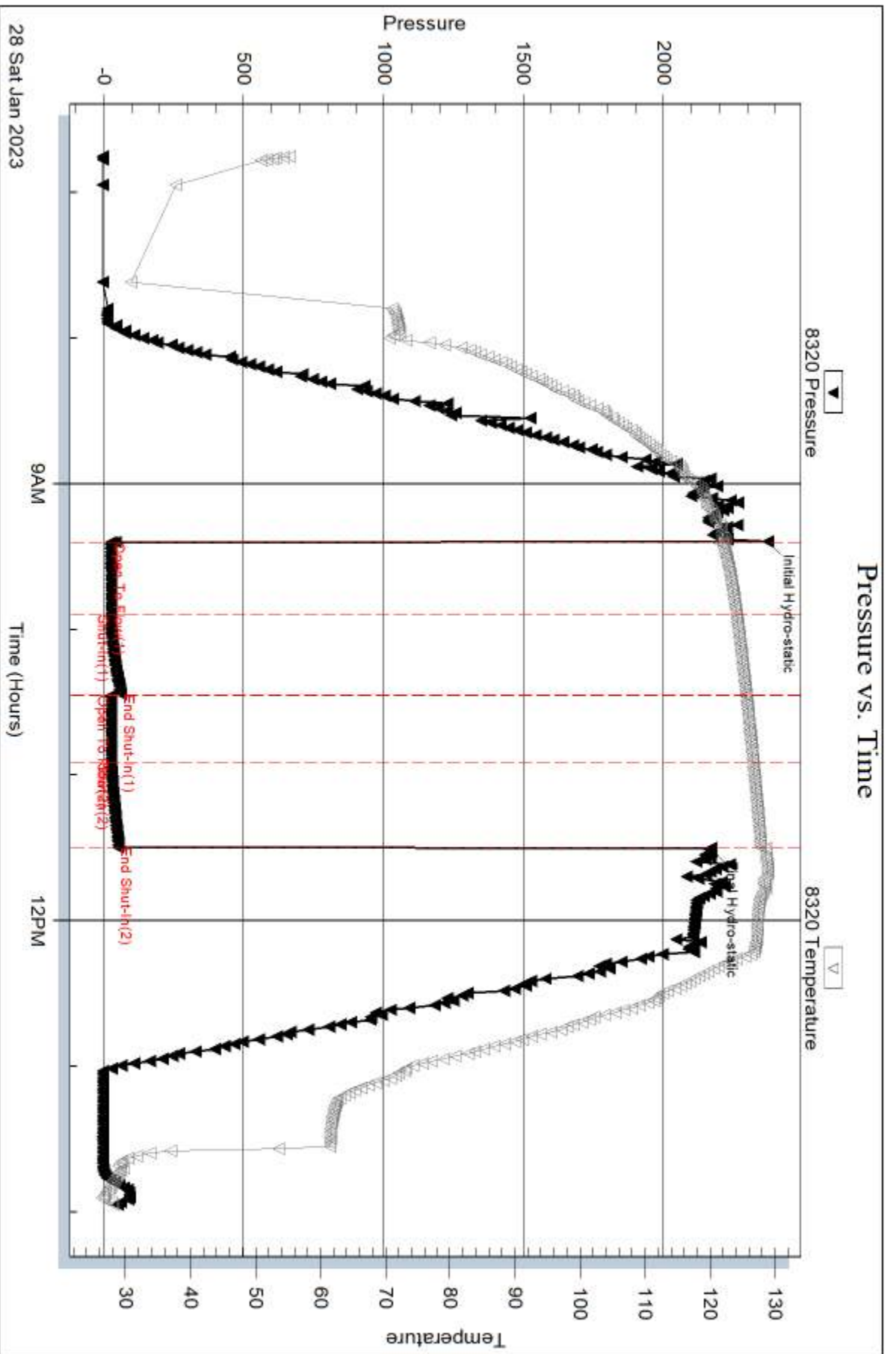
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Arcadian Resources LLC**

313 E Kansas St  
Glen Elder, KS 67446

ATTN: Sean Deenihan

### **Fisher #27-1**

#### **27/5s/37w Cheyenne KS**

Start Date: 2023.01.29 @ 02:00:00

End Date: 2023.01.29 @ 14:48:30

Job Ticket #: 69994                      DST #: 3

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

Printed: 2023.01.30 @ 14:55:17



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Arcadian Resources LLC

**27/5s/37w Cheyenne KS**

313 E Kansas St  
Glen Elder, KS 67446

**Fisher #27-1**

Job Ticket: 69994

**DST#: 3**

ATTN: Sean Deenihan

Test Start: 2023.01.29 @ 02:00:00

## GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:10:15

Time Test Ended: 14:48:30

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

**Interval: 4520.00 ft (KB) To 4586.00 ft (KB) (TVD)**

Reference Elevations: 3275.00 ft (KB)

Total Depth: 4586.00 ft (KB) (TVD)

3270.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8320 Outside**

Press@RunDepth: 1210.22 psig @ 4522.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.01.29

End Date:

2023.01.29

Last Calib.:

2023.01.29

Start Time: 02:00:05

End Time:

14:48:30

Time On Btm:

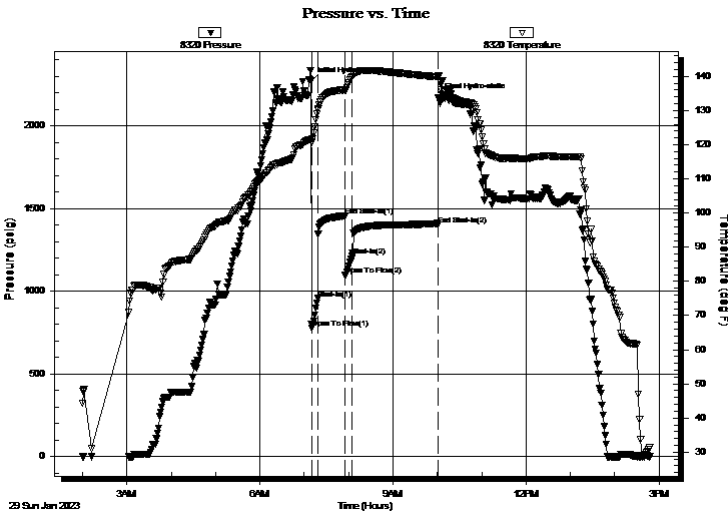
2023.01.29 @ 07:08:30

Time Off Btm:

2023.01.29 @ 10:01:15

**TEST COMMENT:** IF-10-248 Inches blow  
IS-30-32-Inches return  
FF-10-73 Inches blow  
FS-60-32 Inches return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2270.51	121.46	Initial Hydro-static
2	777.39	120.99	Open To Flow (1)
10	954.89	130.26	Shut-In(1)
46	1453.33	136.08	End Shut-In(1)
47	1099.09	135.94	Open To Flow (2)
57	1210.22	140.02	Shut-In(2)
173	1402.65	139.85	End Shut-In(2)
173	2171.95	140.18	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3400.00	GO 5% GAS 95% OIL	47.69
0.00	1100 GAS	0.00

\* 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

**27/5s/37w Cheyenne KS**

313 E Kansas St  
Glen Elder, KS 67446

**Fisher #27-1**

Job Ticket: 69994

**DST#: 3**

ATTN: Sean Deenihan

Test Start: 2023.01.29 @ 02:00:00

## Tool Information

Drill Pipe:	Length: 4502.00 ft	Diameter: 3.80 inches	Volume: 63.15 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: 63.15 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 62999.00 lb
Depth to Top Packer:	4520.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	97.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4490.00	
Shut In Tool	5.00			4495.00	
Hydraulic tool	5.00			4500.00	
Jars	5.00			4505.00	
EM Tool	3.00			4508.00	
Safety Joint	3.00			4511.00	
Packer	5.00			4516.00	31.00 Bottom Of Top Packer
Packer	4.00			4520.00	
Stubb	1.00			4521.00	
Perforations	1.00			4522.00	
Recorder	0.00	8368	Inside	4522.00	
Recorder	0.00	8320	Outside	4522.00	
Change Over Sub	1.00			4523.00	
Drill Pipe	63.00			4586.00	66.00 Bottom Packers & Anchor

**Total Tool Length: 97.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Arcadian Resources LLC

**27/5s/37w Cheyenne KS**

313 E Kansas St  
Glen Elder, KS 67446

**Fisher #27-1**

Job Ticket: 69994

**DST#: 3**

ATTN: Sean Deenihan

Test Start: 2023.01.29 @ 02:00:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3400.00	GO 5%GAS 95%OIL	47.693
0.00	1100 GAS	0.000

Total Length: 3400.00 ft      Total Volume: 47.693 bbl

Num Fluid Samples: 0

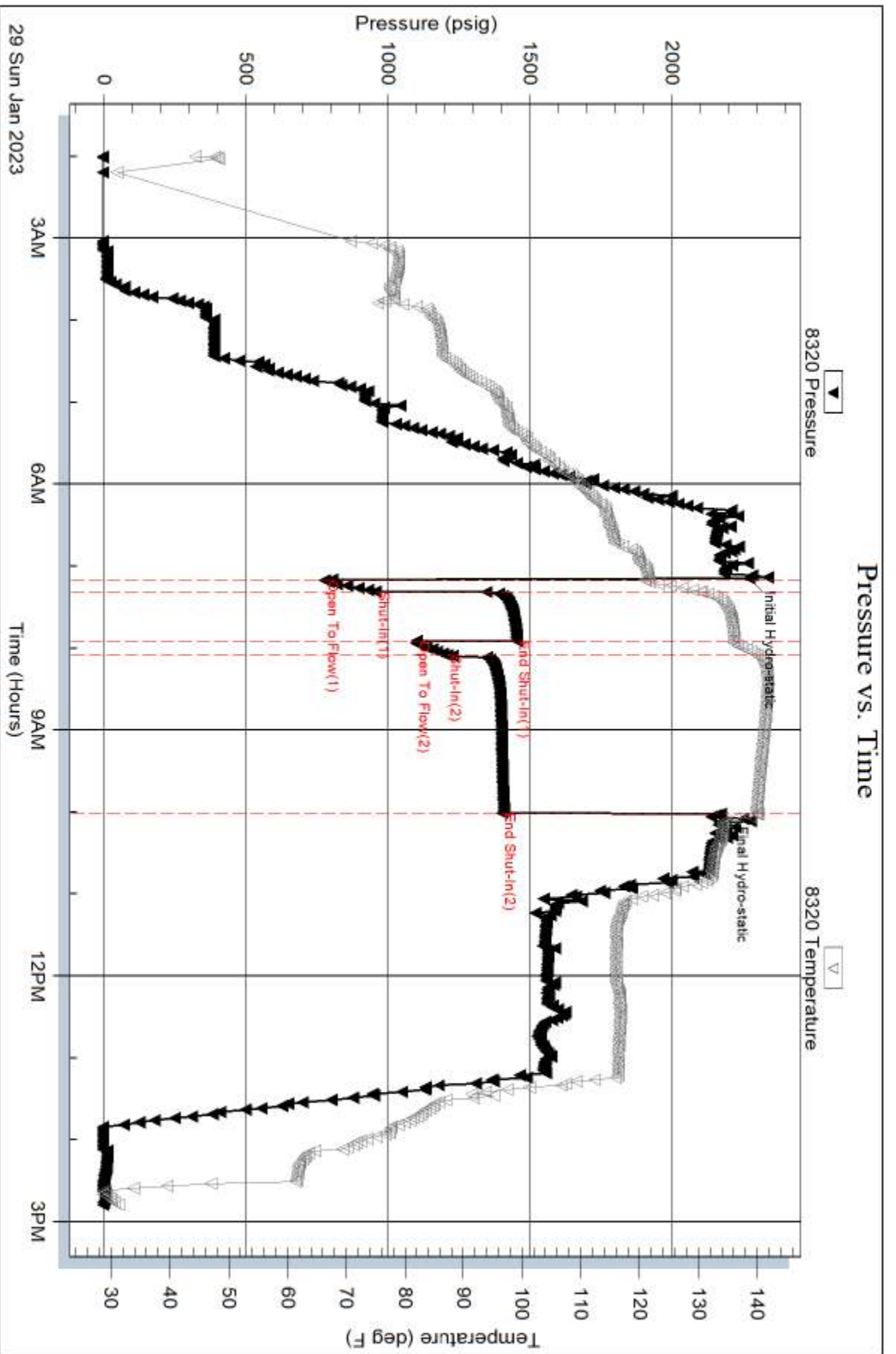
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



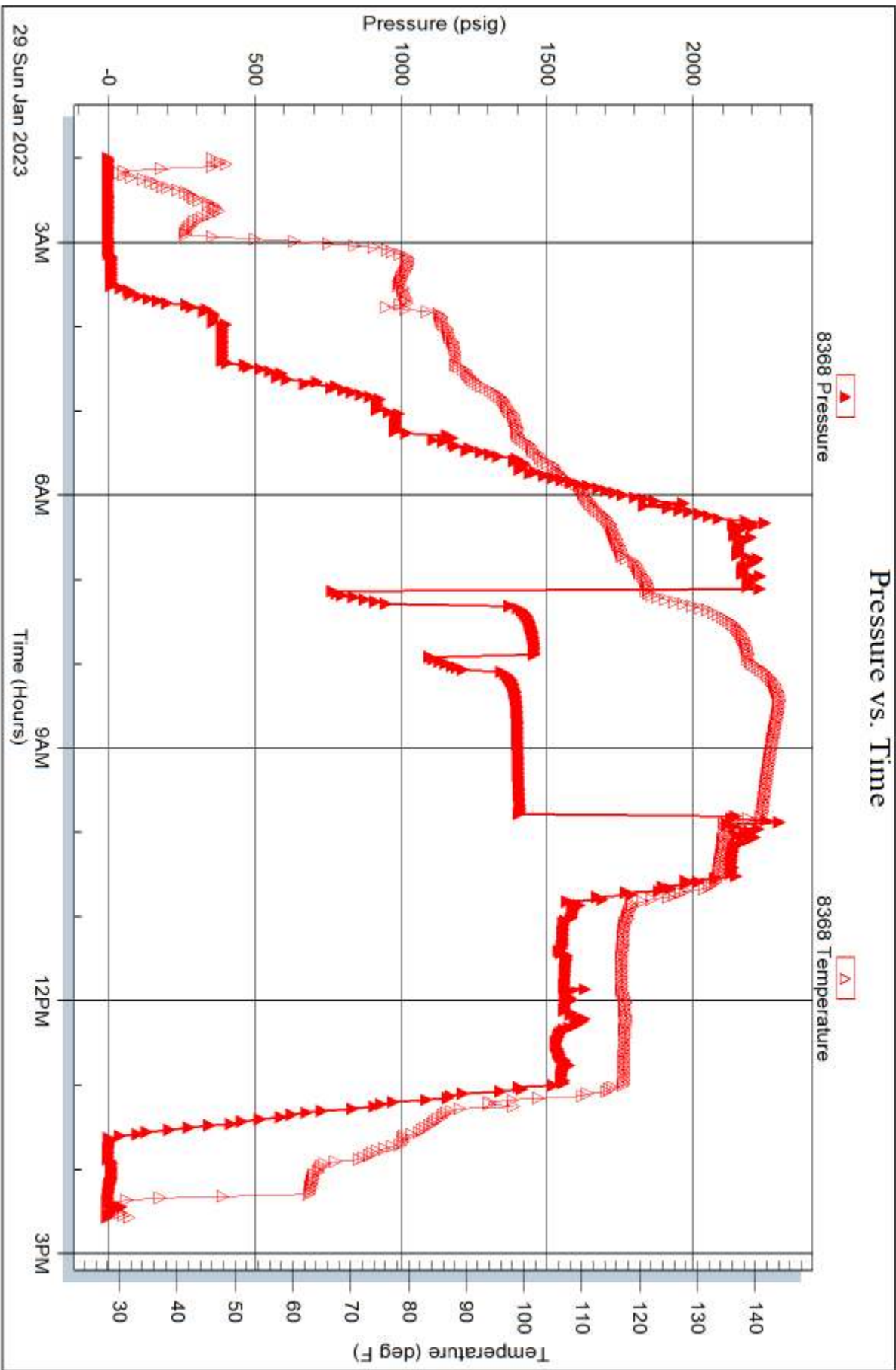
Serial #: 8368

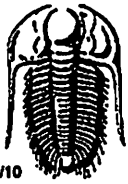
Inside

Arcadian Resources LLC

Fisher #27-1

DST Test Number: 3





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68848

Well Name & No. Fisher #27-1 Test No. 1 Date 1-23-23  
 Company Arcadian Resources LLC Elevation 3275 KB 3270 GL  
 Address 313 E Kansas St Glen Elder KS 67446  
 Co. Rep / Geo. Sean Deenihan Rig White Knight  
 Location: Sec. 27 Twp 5s Rge. 37w Co. Cheyenne State KS

Interval Tested 4264 - 4354 Zone Tested Lans "H-J"  
 Anchor Length 90 Drill Pipe Run 4129 Mud Wt. 9.4  
 Top Packer Depth 4259 Drill Collars Run 120 Vls 55  
 Bottom Packer Depth 4264 (Shale) Wt. Pipe Run - WL 9.6  
 Total Depth 4354 Chlorides 1000 ppm System LCM 1 1/2  
 Blow Description IF: Blow built to BOB (1" Diesel) in 4 3/4 min, built to 30 1/2"  
ISI: Blowback built to 1/4" then died back to surface blow  
FF: Blow built to BOB in 5 1/4 min, built to 67 1/4"  
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<del>1000</del> 160	MCW		70	30	
<del>1072</del> 1072	Water		97	3	
	GIP=30'				

Rec Total 1232 BHT 142 Gravity API RW .390 @ 52.4°F Chlorides 23,000 ppm  
 (A) Initial Hydrostatic 2246  Test 1950  
 (B) First Initial Flow 68  Jars 300  
 (C) First Final Flow 230  Safety Joint  
 (D) Initial Shut-In 1332  Circ Sub  
 (E) Second Initial Flow 227  Hourly Standby  
 (F) Second Final Flow 549  Mileage 128 RT x 14 x 224  
 (G) Final Shut-In 1312  Sampler  
 (H) Final Hydrostatic 2181  Straddle  
 Shale Packer 250  
 Extra Packer  
 Extra Recorder  
 Day Standby 1d 5h  
 Accessibility  
 Sub Total 3396  
 T-On Location 11:00/21:30 1/2  
 T-Started 22:45  
 T-Open 2:15  
 T-Pulled 4:20  
 T-Out 8:40 1/24  
 Comments tools loaded @ 13:45 1/25  
 EM Tool  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 500  
 Total 3896  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative James Winder  
 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.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **69993**

Well Name & No. Fisher #27-1 Test No. 2 Date Jan 28, 23  
 Company Arcadian Resources Elevation 3275 KB 3270 GL  
 Address 1313 E Kansas St Glen Elder  
 Co. Rep / Geo. Sean Deenihan Rig Rig White Knight  
 Location: Sec. 27 Twp 5S Rge. 37W Co. Cheyenne State KS

Interval Tested 4460-4542 Zone Tested Altamont, Pawnee  
 Anchor Length 82 Drill Pipe Run 4436 Mud Wt. 9.5  
 Top Packer Depth 4455 Drill Collars Run - Vis 52  
 Bottom Packer Depth 4460 Wt. Pipe Run - WL 8.8  
 Total Depth 4542 Chlorides 1000 ppm System LCM 2H

Blow Description IS - 30 - 2 inches  
ISI - 30 - No Return  
FS - 30 - No Blow  
FST - 30 - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 127 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2372  Test 1950 T-On Location 4:45  
 (B) First Initial Flow 27  Jars 300 T-Started 6:45  
 (C) First Final Flow 28  Safety Joint T-Open 9:30  
 (D) Initial Shut-In 62  Circ Sub T-Pulled 11:30  
 (E) Second Initial Flow 24  Hourly Standby T-Out 2:00  
 (F) Second Final Flow 28  Mileage 16x2 224 Comments \_\_\_\_\_  
 (G) Final Shut-In 42  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2170  Straddle \_\_\_\_\_

Initial Open 30  Shale Packer 250  EM Tool Successful  
 Ruined Shale Packer -175  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby 1d Sub Total -175 + 800  
 Accessibility \_\_\_\_\_ Total 3349  
 Sub Total 2724 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Sean Deenihan

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **69994**

Well Name & No. Fisher #27-1 Test No. 3 Date \_\_\_\_\_  
 Company Arcadian Resources Elevation 5275 KB 3270 GL \_\_\_\_\_  
 Address 1313 E Kansas St Glen Elder  
 Co. Rep / Geo. Sean Wickham Rig White Knight  
 Location: Sec. 27 Twp 55 Rge. 37W Co. \_\_\_\_\_ State \_\_\_\_\_

Interval Tested 4520 - 4586 Zone Tested Ft. Scott  
 Anchor Length 66 Drill Pipe Run 4502 Mud Wt. 9.6  
 Top Packer Depth 4515 Drill Collars Run - Vls 48  
 Bottom Packer Depth 4520 Wt. Pipe Run - WL 8.8  
 Total Depth 4586 Chlorides 1200 ppm System LCM 2#

Blow Description IF - 10 - 248 inches Blow  
FSI - 30 - 32 inches Return  
FF - 10 - 73 inches Blow  
FSI - 60 - 32 inches Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>3400</u>	<u>5</u>	<u>95</u>			
<u>1100</u>	<u>100</u>				

Rec Total 4500 BHT 141 Gravity 39 API RW @ 15 °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2270</u>	<input checked="" type="checkbox"/> Test 1950	T-On Location <u>12:30</u>
(B) First Initial Flow <u>777</u>	<input checked="" type="checkbox"/> Jars 300	T-Started <u>2:00</u>
(C) First Final Flow <u>954</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>7:10</u>
(D) Initial Shut-In <u>1453</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>9:10</u>
(E) Second Initial Flow <u>1099</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>3:00</u>
(F) Second Final Flow <u>1210</u>	<input checked="" type="checkbox"/> Mileage <u>66x2</u> 224	Comments _____
(G) Final Shut-In <u>1402</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2172</u>	<input type="checkbox"/> Straddle	
Initial Open <u>10</u>	<input checked="" type="checkbox"/> Shale Packer 250	<input checked="" type="checkbox"/> EM Tool -300
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Shale Packer
Final Flow <u>10</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Packer
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>-300</u>
	<input type="checkbox"/> Accessibility	Total <u>2424</u>
	Sub Total <u>2724</u>	MP/DST Disc't _____

Approved By \_\_\_\_\_ Our Representative Terrance Wickham

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.



# Sean Deenihan

## Petroleum Geologist

### GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY **Arcadian Resources, LLC**

LEASE **Fisher #27-1**

FIELD **Wei Beaver**

LOCATION **330° FSL & 1141° FWL**

SEC **27** TWPSP **SS** RGE **37W**

COUNTY **Cheyenne** STATE **Kansas**

CONTRACTOR **White Knight Drilling**

SPUD **1/16/23** COMP **2/1/23**

RTD **4745'** LTD **4746'**

MUD UP **3100'** TYPE MUD **Chemical**

SAMPLES SAVED FROM **3400'** TO **RTD**

DRILLING TIME KEPT FROM **3400'** TO **RTD**

SAMPLES EXAMINED FROM **3400'** TO **RTD**

GEOLOGICAL SUPERVISION FROM **3400'**

REFERENCE WELL **CND/DIL. MIC**

ELEVATIONS  
KB **3275'**

DF \_\_\_\_\_

GL **3268'**

Measurements Are All From Kelly Bushing

CASING

CONDUCTOR \_\_\_\_\_

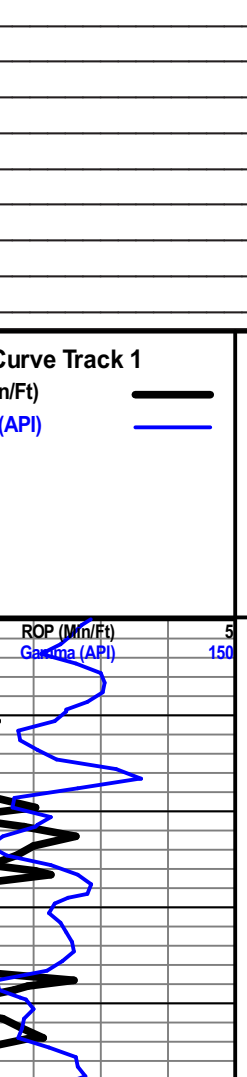
SURFACE **8'-5/8"** at **266'**

PRODUCTION **5.3"** at **TD'**

ELECTRICAL SURVEYS

ELI \_\_\_\_\_

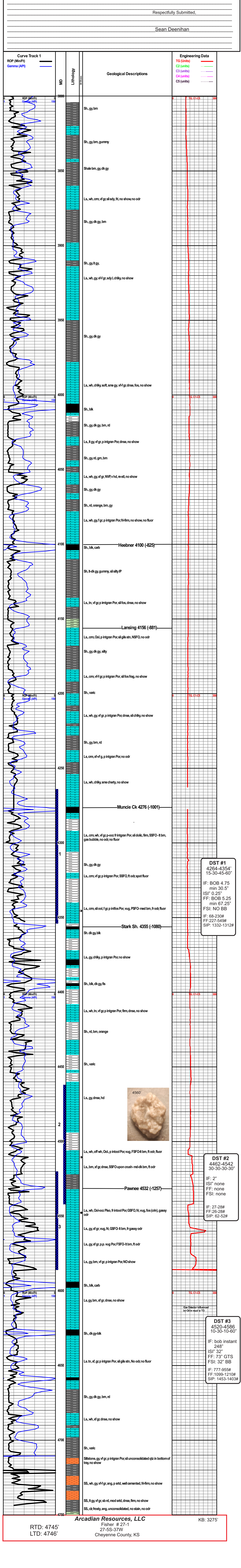
Formation	Sample Tops	E-log Tops	Struct. Fes.
Hebner Sh.		4100' (-825)	
Lansing		4156' (-881)	
Stark Shale		4355' (-1080)	
Muncie		4469' (-1194)	
Pawnee		4533' (-1258)	
Cherokee Sh.		4627' (-1352)	



REMARKS The Fisher #27-1 will be further evaluated for commercial oil potential. The Pawnee had good sample shows of oil, a large gas kick, and great DST results.

Respectfully Submitted,

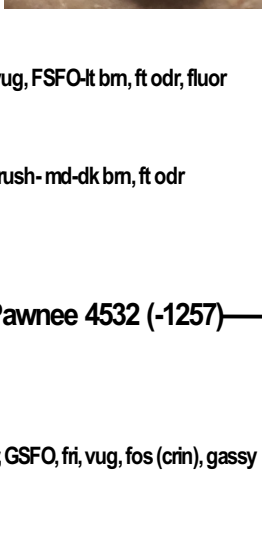
Sean Deenihan



**DST #1**  
4264-4354'  
15-30-45-60"  
IF: BOB 4.75  
min 30.5"  
ISI" 0.25"  
FF: BOB 5.25  
min 67.25"  
FSI: NO BB

**DST #2**  
4462-4542  
30-30-30-30"  
IF: 2"  
ISI" none  
FF: none  
FSI: none

**DST #3**  
4520-4586  
10-30-10-60"  
IF: bob instant  
248"  
ISI" 32"  
FF: 73" GTS  
FSI: 32" BB



RTD: 4745'  
LTD: 4746'

**Arcadian Resources, LLC**  
Fisher # 27-1  
27-5S-37W  
Cheyenne County, KS

KB: 3275'









**CEMENT TREATMENT REPORT**

<b>Customer:</b> Arcadian Resources	<b>Well:</b> Fisher #27-1	<b>Ticket:</b> WP 3892
<b>City, State:</b> Brewster KS	<b>County:</b> Cheyenne KS	<b>Date:</b> 1/31/2023
<b>Field Rep:</b> John Bradshaw	<b>S-T-R:</b> 27-5S-37W	<b>Service:</b> Longstring

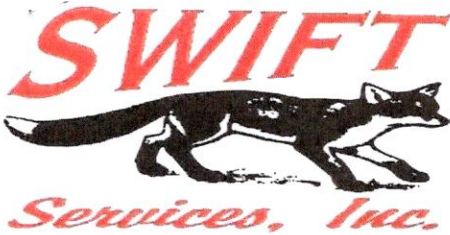
Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	4745 ft
Casing Size:	5 1/2 in
Casing Depth:	4743 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	112.1 bbls

Calculated Slurry - Lead	
Blend:	H-Con
Weight:	11.7 ppg
Water / Sx:	6.1 gal / sx
Yield:	2.69 ft <sup>3</sup> / sx
Annular Bbls / Ft.:	0.0309 bbls / ft.
Depth:	4743 ft
Annular Volume:	146.6 bbls
Excess:	
Total Slurry:	191.6 bbls
Total Sacks:	400 sx

Calculated Slurry - Tail	
Blend:	H-LD
Weight:	14.8 ppg
Water / Sx:	6.5 gal / sx
Yield:	1.51 ft <sup>3</sup> / sx
Annular Bbls / Ft.:	0.0309 bbls / ft.
Depth:	4743 ft
Annular Volume:	146.5587 bbls
Excess:	
Total Slurry:	53.7 bbls
Total Sacks:	200 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
12:28 PM			-	-	Arrived on location casing on bottom and rig was circulating mud on arrival
12:38 PM				-	Safety meeting
12:48 PM				-	Rigged up
4:28 PM	5.0	200.0	10.0	10.0	Water ahead
4:31 PM	5.0	250.0	12.0	22.0	Pumped 500 gallons mud flush
4:35 PM	4.0	220.0	10.0	32.0	Water behind
4:45 PM	3.0	100.0	14.3	46.3	Mixed 30 sacks cement for rat hole plug
4:49 PM	6.0	150.0	191.6	237.9	Mixed 400 sacks H-Con Lead cement @ 11.7 ppg
6:00 PM	5.7	120.0	53.7	291.6	Mixed 200 sacks H-LD Tail cement @ 14.8 ppg
6:26 PM				291.6	Shut down, loaded plug, cleared pump and lines
6:33 PM	6.5	100.0	102.1	393.7	Begin displacement with 2% KCL in first 40 bbls
6:51 AM	3.0	1,100.0	10.0		Slowed down to 3.0 bpm 10 bbls to go
6:55 PM		2,200.0			Plug down @ 1300 landing psi and 2200 bump psi with 20 bbls/42 sacks cement circulated to pit
6:57 PM					Released pressure, plug held with .7 bbl back to tank
6:59 PM					Washed up and rigged down
7:53 PM					Left location

CREW		UNIT	SUMMARY		
Cementer:	John	73	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Spencer	528-520	4.8 bpm	493 psi	404 bbls
Bulk #1:	Christen	194-250			
Bulk #2:	Kale	242			



P. O. Box 466  
 Ness City, KS 67560  
 Off: 785-798-2300

# Invoice

DATE	INVOICE #
1/16/2023	35852

BILL TO
Arcadian Resources 313 E. Kansas Glen Elder, KS 67446

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#27-1	Fisher	Cheyenne	White Knight Drlg	Oil	Development	Cement Surface	Jonathan
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				120	Miles	7.00	840.00
576D-S	Pump Charge - Shallow Surface (< 500 Ft.)				1	Job	1,100.00	1,100.00
290	D-Air				2	Gallon(s)	42.00	84.00T
325	Standard Cement				170	Sacks	15.00	2,550.00T
278	Calcium Chloride				8	Sack(s)	40.00	320.00T
279	Bentonite Gel				6	Sack(s)	40.00	240.00T
581D	Service Charge Cement				170	Sacks	2.00	340.00
583D	Drayage				1,000.8	Ton Miles	1.00	1,000.80
	Subtotal							6,474.80
	Sales Tax Cheyenne County						8.50%	271.49
<b>We Appreciate Your Business!</b>							<b>Total</b>	\$6,746.29





CHARGE TO: Acadium Oil Co  
 ADDRESS  
 CITY, STATE, ZIP CODE

TICKET 35852

WELL/PROJECT NO. 27-1  
 CONTRACTOR White Knight Drilling  
 WELL CATEGORY Development  
 RIG NAME/NO. Chryseme  
 JOB PURPOSE Cement Surface

PAGE 1 OF 1

SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	SURVEY			UNIT PRICE	AMOUNT	
		LOC	ACCT	DF			QTY.	U/M	AGRE			UNDECIDED
575					MILEAGE #113	120	mi			7.00	840.00	
5763					Drum Charge - Surface	1	EA			110.00	110.00	
295					D-A.V	2	gal			42.00	84.00	
325					Standard Cement	170	SKS			15.00	2550.00	
278					Calcium Chloride	8	SKS			40.00	320.00	
279					Bentonite Gel	6	SKS			40.00	240.00	
581					Service Charge Cement	170	SKS			2.00	340.00	
583					Drayage	1000	BTM			1.00	1000.00	
LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.					REMIT PAYMENT TO:			PAGE TOTAL			6,474.00	
MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.					SWIFT SERVICES, INC.			DATE			OWNER	
DATE SIGNED					P.O. BOX 466			2/11/03			Summe	
TIME SIGNED					NESS CITY, KS 67560			ORDER NO.			WELL LOCATION	
<input type="checkbox"/> A.M. <input type="checkbox"/> P.M.					785-798-2300			WELL PERMIT NO.				

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR [Signature] APPROVAL [Signature]

ARE YOU SATISFIED WITH OUR SERVICE?  YES  NO

CUSTOMER DID NOT WISH TO RESPOND

TOTAL 674.00

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 01/16/23	PAGE NO. 1
TICKET NO. 35852	

CUSTOMER Arcadian Oil	WELL NO. 27-1	LEASE Fisher	JOB TYPE Surface
--------------------------	------------------	-----------------	---------------------

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1430							On location, rig drilling.
								25622' of 8 5/8 x 23# 10' Landing JT Set @ 2160.22'
	1530							Start Pipe
	1630							Break Circulation on Bottom
	1645							Hook up to Swift
	1650	4	5			300		Pump water ahead
		4						Start Cement
		4	41			300		Finish Cement, start Displacement
		4	50					Cement Circulating
		4	56 1/2			300		Finish Displacement, Shut Down
	1715							Shut in, Release Truck
								Wash up
								Rack up
	1730							Job Complete
								Thanks Jon, Joe, & John J.