

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
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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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## DRILL STEM TEST REPORT

Prepared For: **Arcadian Resources LLC**

313 E Kansas St  
Glen Elder, KS 67446

ATTN: Sean Deenihan

### **Culwell Farms #13-3**

### **13-5S-37W Cheyenne,KS**

Start Date: 2023.12.07 @ 11:41:00

End Date: 2023.12.07 @ 16:47:00

Job Ticket #: 70996                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.12.11 @ 11:44:34



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Arcadian Resources LLC

**13-5S-37W Cheyenne,KS**

313 E Kansas St  
Glen Elder, KS 67446

**Culwell Farms #13-3**

Job Ticket: 70996

**DST#: 1**

ATTN: Sean Deenihan

Test Start: 2023.12.07 @ 11:41:00

## GENERAL INFORMATION:

Formation: **LKC I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:46:00

Time Test Ended: 16:47:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Nathan Aneas

Unit No: 71

**Interval: 4380.00 ft (KB) To 4468.00 ft (KB) (TVD)**

Reference Elevations: 3382.00 ft (KB)

Total Depth: 4468.00 ft (KB) (TVD)

3375.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8353**

**Inside**

Press@RunDepth: 28.53 psig @ 4381.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.12.07

End Date: 2023.12.07

Last Calib.: 2023.12.07

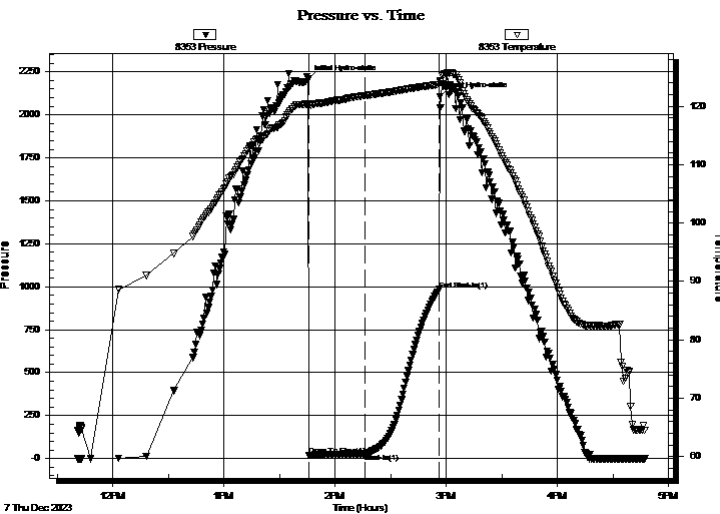
Start Time: 11:41:01

End Time: 16:47:00

Time On Btm: 2023.12.07 @ 13:45:30

Time Off Btm: 2023.12.07 @ 14:56:30

**TEST COMMENT:** 30:IF- Weak surface blow , built to 1/2" in 10 min, final is 3/4"  
30:IS- No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2207.67	120.40	Initial Hydro-static
1	19.52	120.12	Open To Flow (1)
31	28.53	121.83	Shut-In(1)
71	983.07	123.74	End Shut-In(1)
71	2105.81	124.14	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w /spots of oil in tool 100%M	0.02

## Gas Rates

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



# TRILOBITE TESTING, INC

## DRILL STEM TEST REPORT

Arcadian Resources LLC

**13-5S-37W Cheyenne,KS**

313 E Kansas St  
Glen Elder, KS 67446

**Culwell Farms #13-3**

Job Ticket: 70996

**DST#: 1**

ATTN: Sean Deenihan

Test Start: 2023.12.07 @ 11:41:00

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Formation: **LKC I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:46:00

Time Test Ended: 16:47:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Nathan Aneas

Unit No: 71

**Interval: 4380.00 ft (KB) To 4468.00 ft (KB) (TVD)**

Reference Elevations: 3382.00 ft (KB)

Total Depth: 4468.00 ft (KB) (TVD)

3375.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8676 Outside**

Press@RunDepth: psig @ 4381.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.12.07

End Date:

2023.12.07

Last Calib.:

2023.12.07

Start Time: 11:41:01

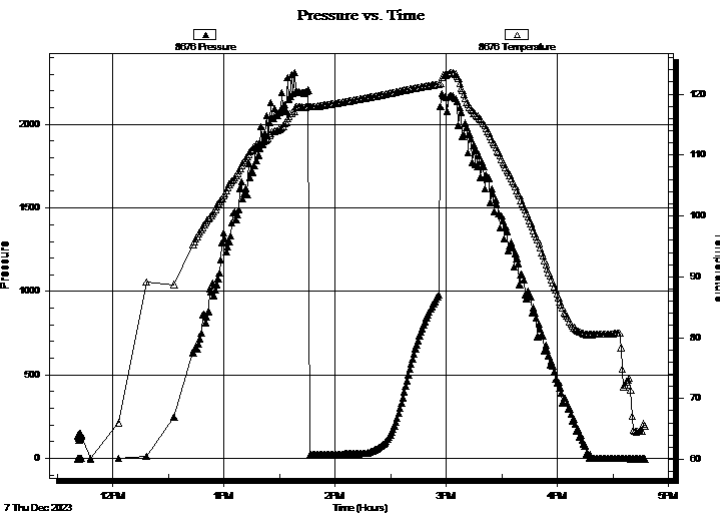
End Time:

16:47:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30:IF- Weak surface blow , built to 1/2" in 10 min, final is 3/4"  
30:IS- No blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w /spots of oil in tool 100%M	0.02

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Arcadian Resources LLC

**13-5S-37W Cheyenne,KS**

313 E Kansas St  
Glen Elder, KS 67446

**Culwell Farms #13-3**

Job Ticket: 70996

**DST#: 1**

ATTN: Sean Deenihan

Test Start: 2023.12.07 @ 11:41:00

## Tool Information

Drill Pipe:	Length: 4313.00 ft	Diameter: 3.80 inches	Volume: 60.50 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 62.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 77000.00 lb
			<u>Total Volume: 60.80 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 77000.00 lb
Depth to Top Packer:	4380.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.00 ft			
Tool Length:	121.00 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			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	
Stubb	1.00			4381.00	
Recorder	0.00	8353	Inside	4381.00	
Recorder	0.00	8676	Outside	4381.00	
Perforations	19.00			4400.00	
Change Over Sub	1.00			4401.00	
Blank Spacing	63.00			4464.00	
Change Over Sub	1.00			4465.00	
Bullnose	3.00			4468.00	88.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>121.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Arcadian Resources LLC

**13-5S-37W Cheyenne,KS**

313 E Kansas St  
Glen Elder, KS 67446

**Culwell Farms #13-3**

Job Ticket: 70996

**DST#: 1**

ATTN: Sean Deenihan

Test Start: 2023.12.07 @ 11:41:00

### 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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

#### Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w /spots of oil in tool 100%M	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

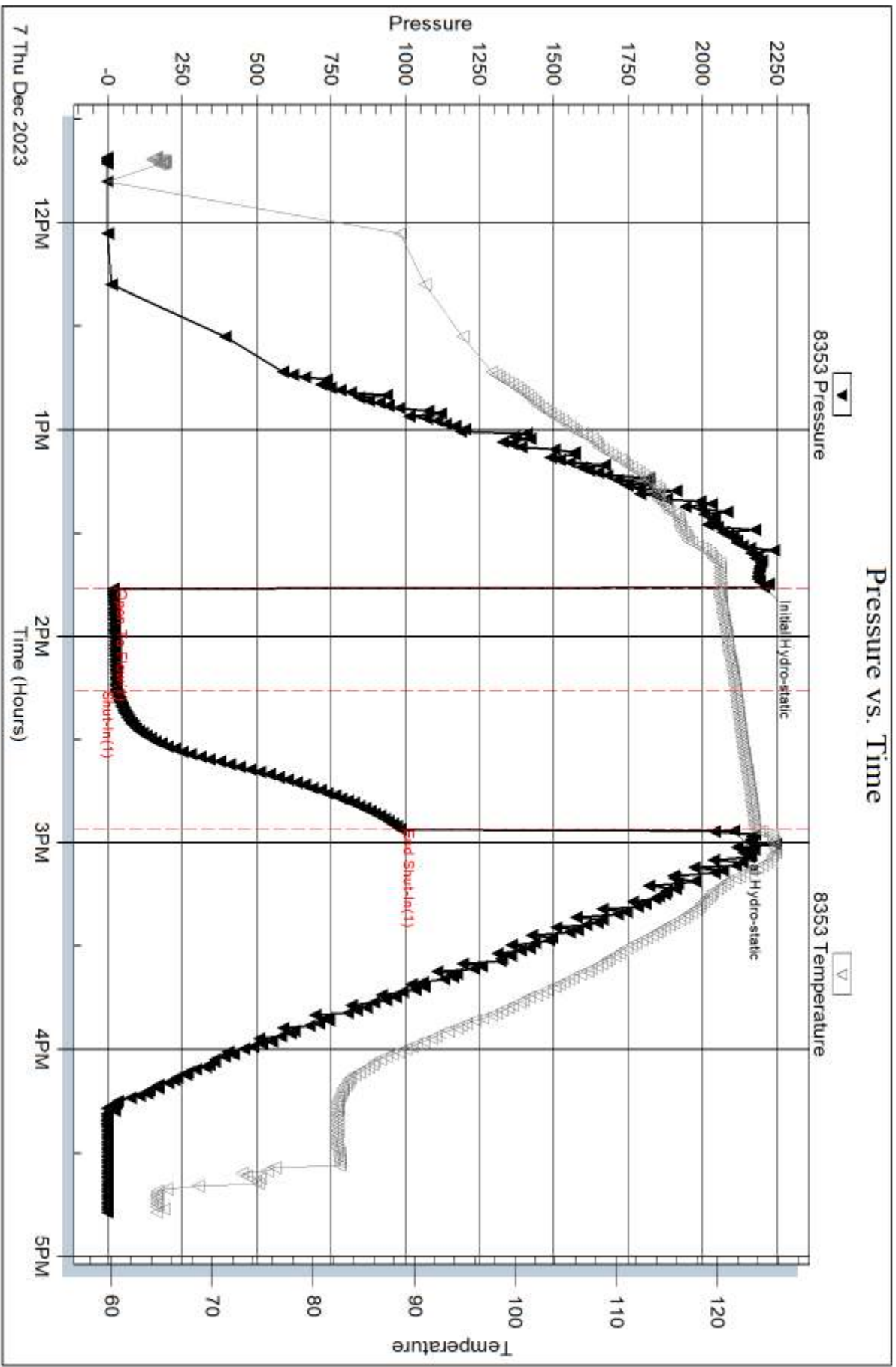
Serial #:

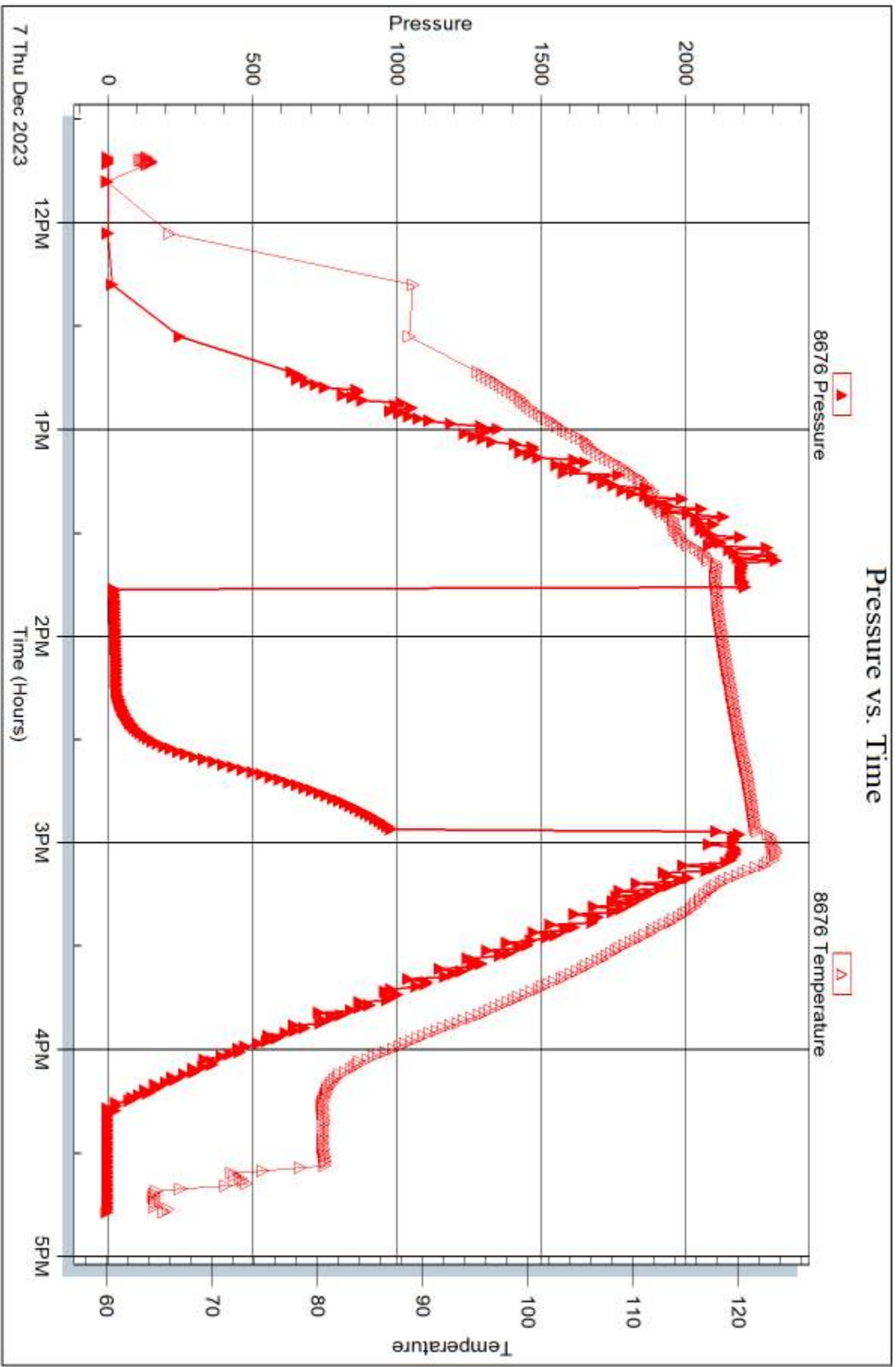
Laboratory Name:

Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **Arcadian Resources LLC**

313 E Kansas St  
Glen Elder, KS 67446

ATTN: Sean Deenihan

### **Culwell Farms #13-3**

### **13-5S-37W Cheyenne,KS**

Start Date: 2023.12.08 @ 06:45:00

End Date: 2023.12.08 @ 13:15:30

Job Ticket #: 70997                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.12.11 @ 11:44:04



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Arcadian Resources LLC

**13-5S-37W Cheyenne,KS**

313 E Kansas St  
Glen Elder, KS 67446

**Culwell Farms #13-3**

ATTN: Sean Deenihan

Job Ticket: 70997

**DST#: 2**

Test Start: 2023.12.08 @ 06:45:00

## GENERAL INFORMATION:

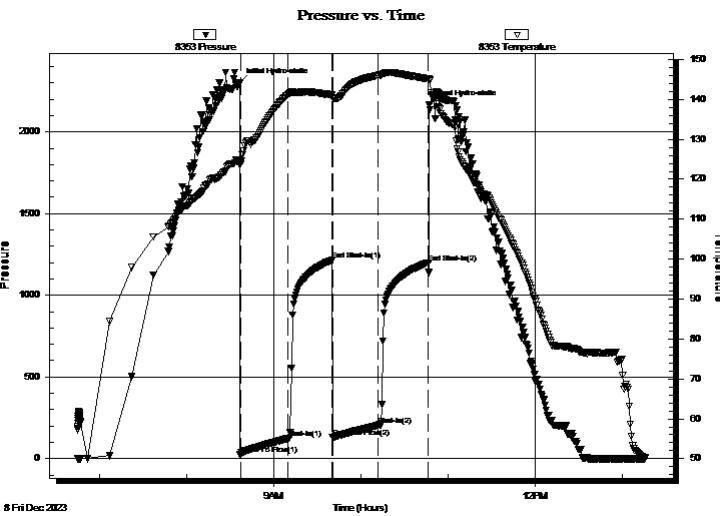
Formation: **Pawnee**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:37:00  
 Time Test Ended: 13:15:30  
 Interval: **4560.00 ft (KB) To 4660.00 ft (KB) (TVD)**  
 Total Depth: 4660.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Nathan Aneas  
 Unit No: 71  
 Reference Elevations: 3382.00 ft (KB)  
 3375.00 ft (CF)  
 KB to GR/CF: 7.00 ft

## Serial #: 8353

Inside

Press@RunDepth: 204.05 psig @ 4561.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2023.12.08 End Date: 2023.12.08 Last Calib.: 2023.12.08  
 Start Time: 06:45:01 End Time: 13:15:30 Time On Btm: 2023.12.08 @ 08:36:30  
 Time Off Btm: 2023.12.08 @ 10:47:00

TEST COMMENT: 30:IF- Fair surface blow , built to 4" in 10 min, final built to 5 3/4" then died to 5 1/2"  
 30:IS- No blow back  
 30:FF- Weak surface blow , built to 2 1/2" in 10 min, final is 4"  
 30:FS- No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2300.73	124.28	Initial Hydro-static
1	28.42	123.93	Open To Flow (1)
33	122.97	141.17	Shut-In(1)
64	1214.12	141.10	End Shut-In(1)
64	128.70	140.53	Open To Flow (2)
96	204.05	146.03	Shut-In(2)
130	1199.35	145.16	End Shut-In(2)
131	2169.12	144.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	MW 60%W 40%M	0.30
368.00	VSOMCW oil less than 1 % 65%W 35%M	5.16
10.00	SGWCO 75%O 23%W 2%G	0.14
0.00	GIP 32'	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

**13-5S-37W Cheyenne,KS**

313 E Kansas St  
Glen Elder, KS 67446

**Culwell Farms #13-3**

Job Ticket: 70997

**DST#: 2**

ATTN: Sean Deenihan

Test Start: 2023.12.08 @ 06:45:00

## Tool Information

Drill Pipe:	Length: 4473.00 ft	Diameter: 3.80 inches	Volume: 62.74 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 62.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 81000.00 lb
			<u>Total Volume: 63.04 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 79000.00 lb
Depth to Top Packer:	4560.00 ft			Final 81000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.00 ft			
Tool Length:	133.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

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

Change Over Sub	1.00			4528.00	
Shut In Tool	5.00			4533.00	
Hydraulic tool	5.00			4538.00	
Jars	5.00			4543.00	
EM Tool	4.00			4547.00	
Safety Joint	3.00			4550.00	
Packer	5.00			4555.00	33.00 Bottom Of Top Packer
Packer	5.00			4560.00	
Stubb	1.00			4561.00	
Recorder	0.00	8353	Inside	4561.00	
Recorder	0.00	8676	Outside	4561.00	
Perforations	30.00			4591.00	
Change Over Sub	1.00			4592.00	
Blank Spacing	64.00			4656.00	
Change Over Sub	1.00			4657.00	
Bullnose	3.00			4660.00	100.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>133.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Arcadian Resources LLC

**13-5S-37W Cheyenne,KS**

313 E Kansas St  
Glen Elder, KS 67446

**Culwell Farms #13-3**

Job Ticket: 70997

**DST#: 2**

ATTN: Sean Deenihan

Test Start: 2023.12.08 @ 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:

40000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: 0.28 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	MW 60%W 40%M	0.305
368.00	VSOMCW oil less than 1 % 65%W 35%M	5.162
10.00	SGWCO 75%O 23%W 2%G	0.140
0.00	GIP 32'	0.000

Total Length: 440.00 ft      Total Volume: 5.607 bbl

Num Fluid Samples: 0

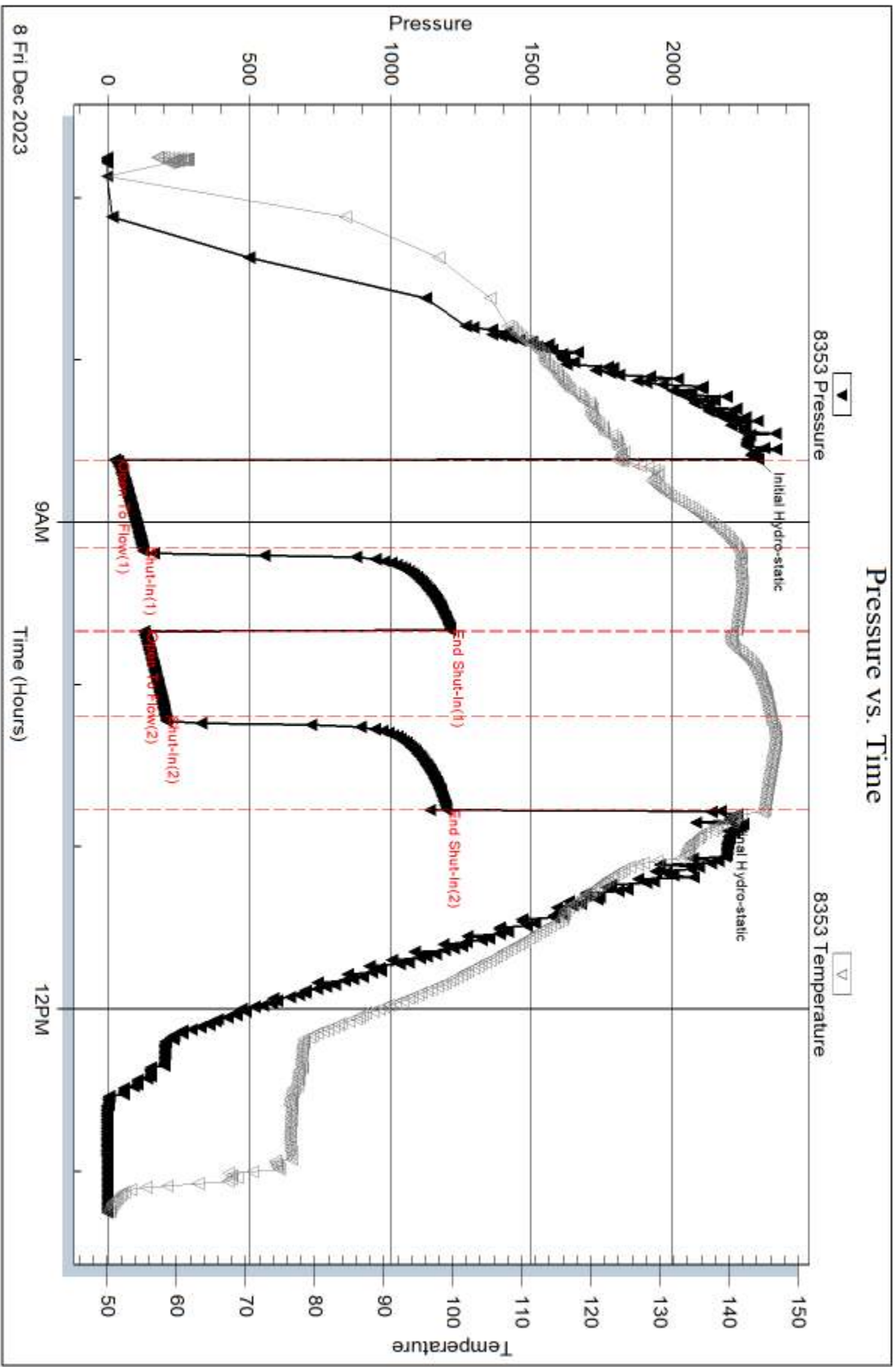
Num Gas Bombs: 0

Serial #:

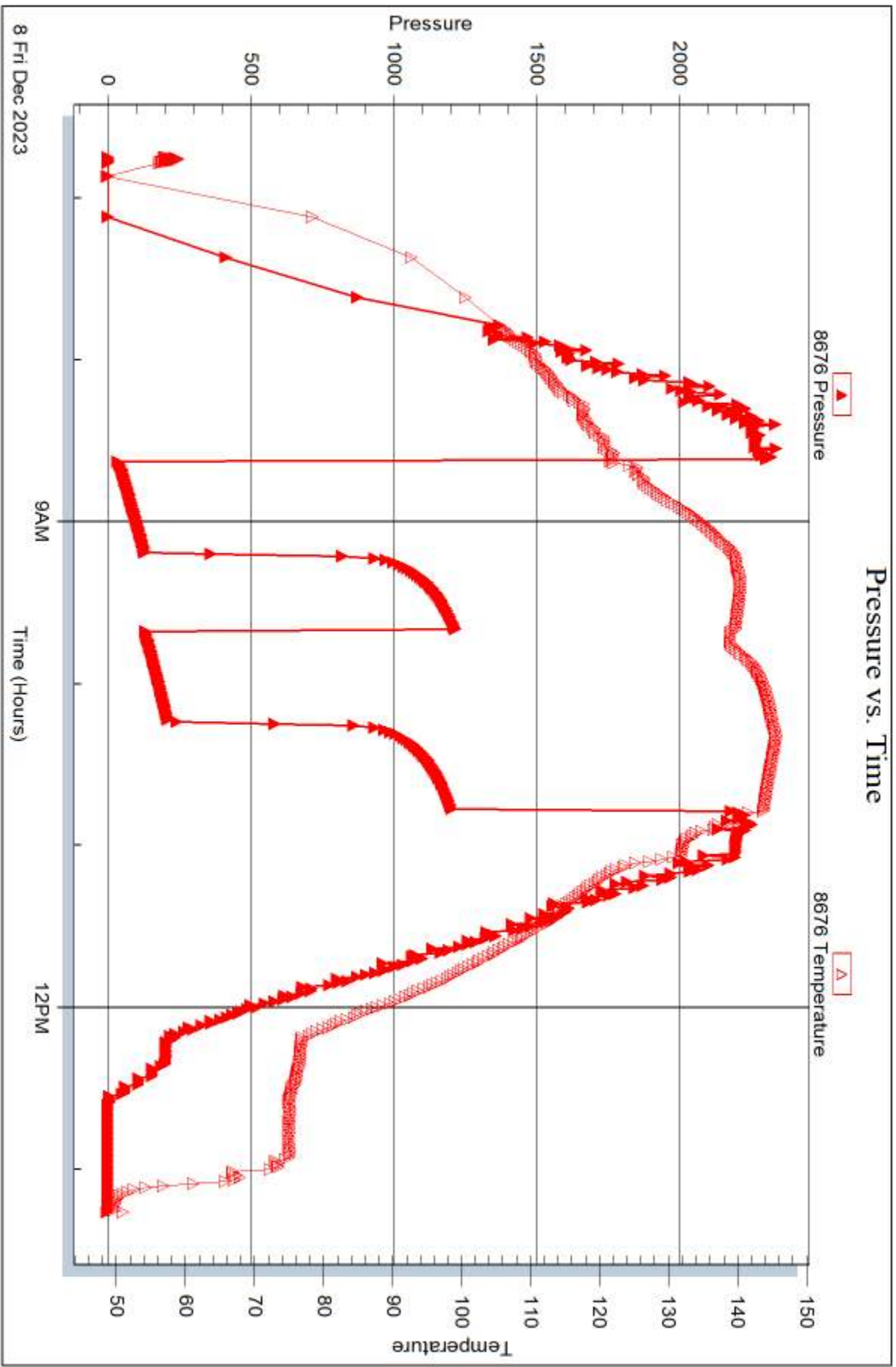
Laboratory Name:

Laboratory Location:

Recovery Comments: Didnt have enough oil sample to get a gravity









## DRILL STEM TEST REPORT

Prepared For: **Arcadian Resources LLC**

313 E Kansas St  
Glen Elder, KS 67446

ATTN: Sean Deenihan

### **Culwell Farms #13-3**

### **13-5S-37W Cheyenne,KS**

Start Date: 2023.12.08 @ 20:41:00

End Date: 2023.12.09 @ 02:33:00

Job Ticket #: 70998                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.12.11 @ 11:43:18



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Arcadian Resources LLC

**13-5S-37W Cheyenne,KS**

313 E Kansas St  
Glen Elder, KS 67446

**Culwell Farms #13-3**

Job Ticket: 70998

**DST#: 3**

ATTN: Sean Deenihan

Test Start: 2023.12.08 @ 20:41:00

## GENERAL INFORMATION:

Formation: **Cherokee Lime**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:27:15

Time Test Ended: 02:33:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Nathan Aneas

Unit No: 71

**Interval: 4710.00 ft (KB) To 4727.00 ft (KB) (TVD)**

Reference Elevations: 3382.00 ft (KB)

Total Depth: 4727.00 ft (KB) (TVD)

3375.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8353**

**Inside**

Press@RunDepth: 16.82 psig @ 4711.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.12.08

End Date: 2023.12.09

Last Calib.: 2023.12.09

Start Time: 20:41:01

End Time: 02:33:00

Time On Btm: 2023.12.08 @ 22:26:30

Time Off Btm: 2023.12.09 @ 00:33:30

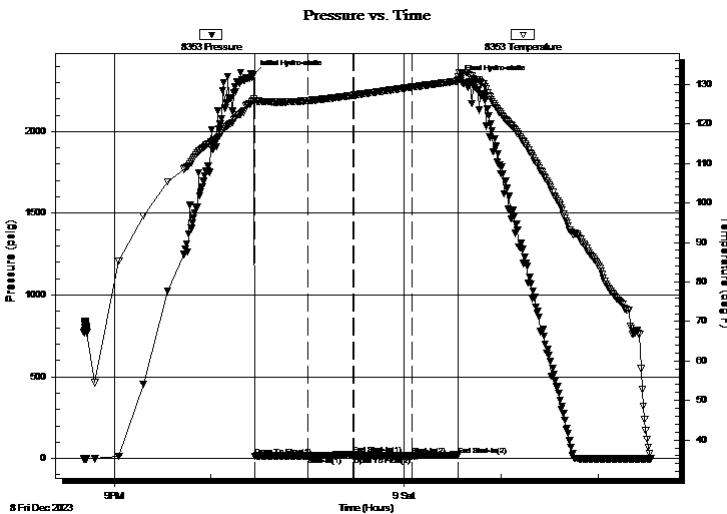
**TEST COMMENT:** 30:IF- Weak surface blow , built to 1/2" in 10 min, final is 1/2"

30:IS- No blow back

30:FF- No blow

30:FS- No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2347.67	126.24	Initial Hydro-static
1	15.08	125.81	Open To Flow (1)
34	16.14	125.88	Shut-In(1)
62	25.13	127.23	End Shut-In(1)
62	16.20	127.26	Open To Flow (2)
99	16.82	129.31	Shut-In(2)
127	21.95	130.84	End Shut-In(2)
127	2316.14	131.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud w /spots of oil in tool 100%M	0.00

## Gas Rates

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

\* Recovery from multiple tests



# DRILL STEM TEST REPORT

Arcadian Resources LLC

13-5S-37W Cheyenne,KS

313 E Kansas St  
Glen Elder, KS 67446

**Culwell Farms #13-3**

Job Ticket: 70998 **DST#: 3**

ATTN: Sean Deenihan

Test Start: 2023.12.08 @ 20:41:00

## GENERAL INFORMATION:

Formation: **Cherokee Lime**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:27:15

Time Test Ended: 02:33:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Nathan Aneas

Unit No: 71

Interval: **4710.00 ft (KB) To 4727.00 ft (KB) (TVD)**

Reference Elevations: 3382.00 ft (KB)

Total Depth: 4727.00 ft (KB) (TVD)

3375.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8676 Outside**

Press@RunDepth: psig @ 4711.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.12.08

End Date: 2023.12.09

Last Calib.: 2023.12.09

Start Time: 20:41:01

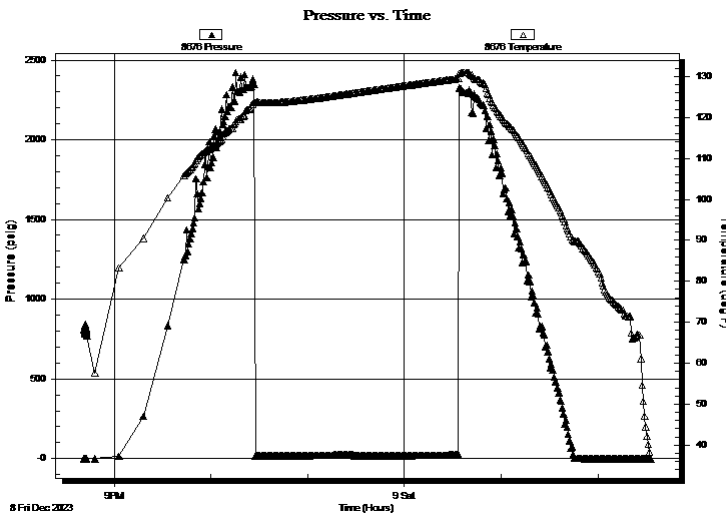
End Time: 02:33:15

Time On Btm:

Time Off Btm:

TEST COMMENT: 30:IF- Weak surface blow , built to 1/2" in 10 min, final is 1/2"  
30:IS- No blow back  
30:FF- No blow  
30:FS- No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud w /spots of oil in tool 100%M	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Arcadian Resources LLC

**13-5S-37W Cheyenne,KS**

313 E Kansas St  
Glen Elder, KS 67446

**Culwell Farms #13-3**

Job Ticket: 70998

**DST#: 3**

ATTN: Sean Deenihan

Test Start: 2023.12.08 @ 20:41:00

## Tool Information

Drill Pipe:	Length: 4633.00 ft	Diameter: 3.80 inches	Volume: 64.99 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 62.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 65.29 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4710.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	50.00 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			4678.00	
Shut In Tool	5.00			4683.00	
Hydraulic tool	5.00			4688.00	
Jars	5.00			4693.00	
EM Tool	4.00			4697.00	
Safety Joint	3.00			4700.00	
Packer	5.00			4705.00	33.00 Bottom Of Top Packer
Packer	5.00			4710.00	
Stubb	1.00			4711.00	
Recorder	0.00	8353	Inside	4711.00	
Recorder	0.00	8676	Outside	4711.00	
Perforations	13.00			4724.00	
Bullnose	3.00			4727.00	17.00 Bottom Packers & Anchor

**Total Tool Length: 50.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Arcadian Resources LLC

**13-5S-37W Cheyenne,KS**

313 E Kansas St  
Glen Elder, KS 67446

**Culwell Farms #13-3**

Job Ticket: 70998

**DST#: 3**

ATTN: Sean Deenihan

Test Start: 2023.12.08 @ 20:41:00

### 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:

ppm

Viscosity: 50.00 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: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud w /spots of oil in tool 100%M	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

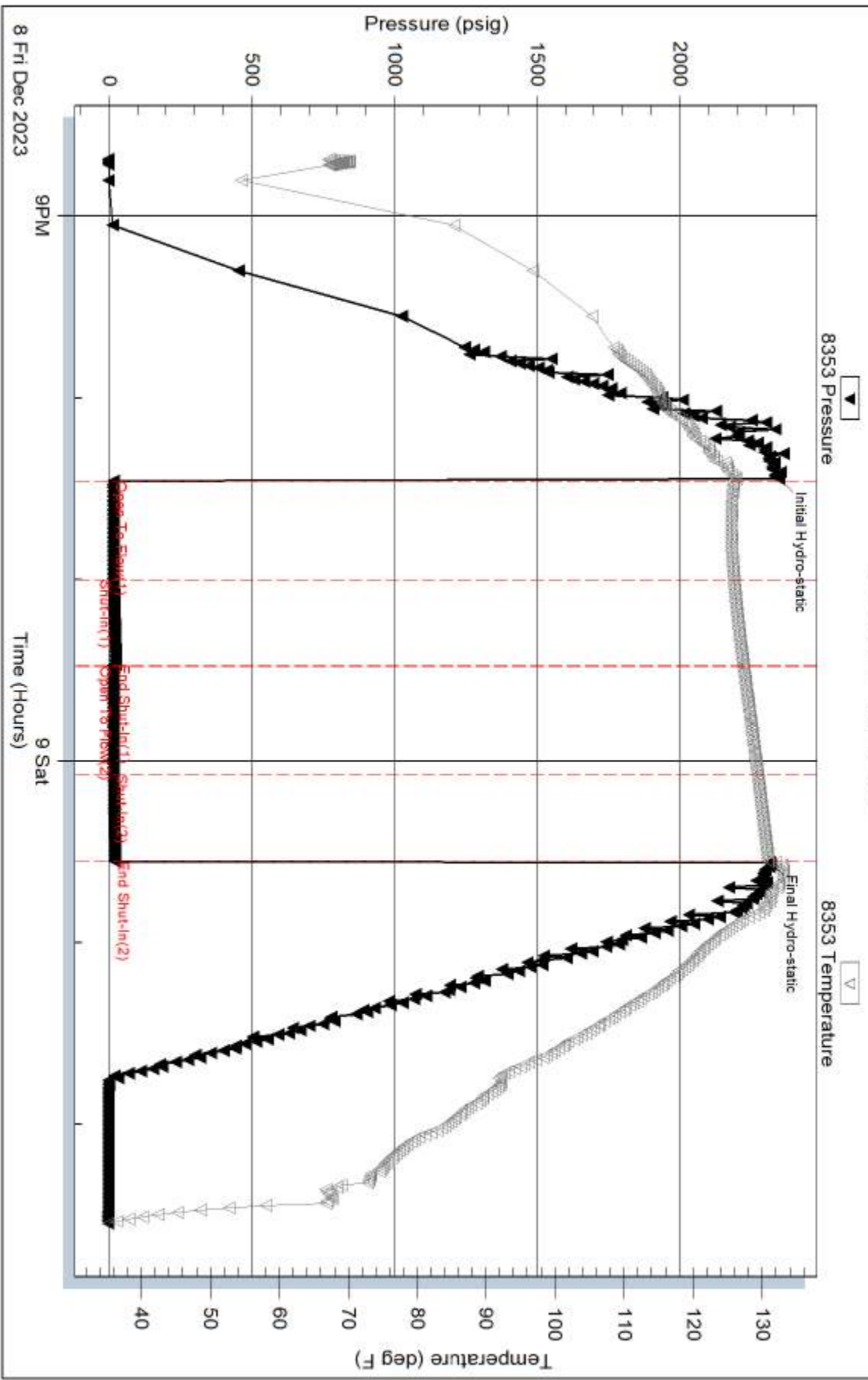
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

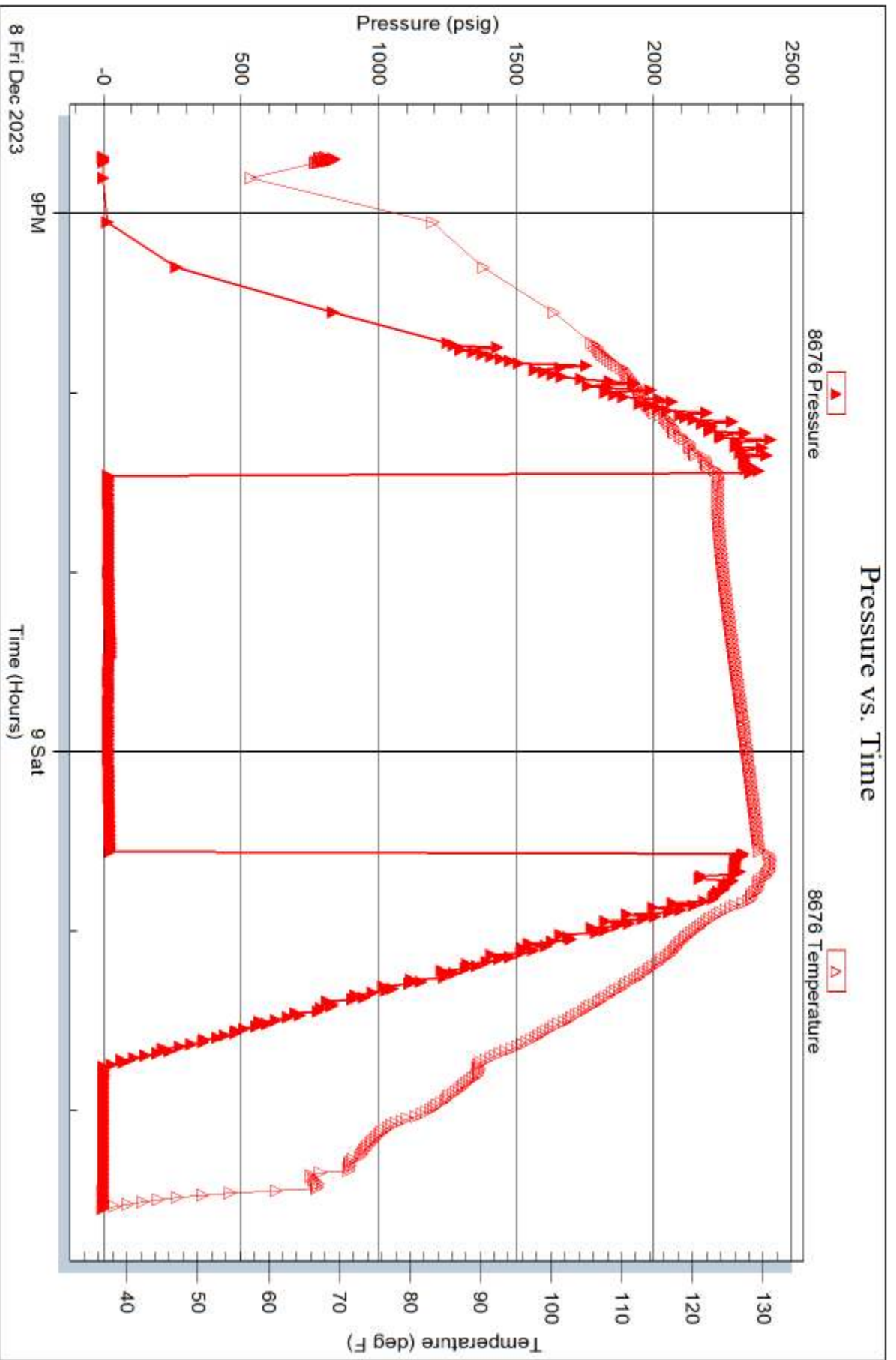


Serial #: 8676

Outside Arcadian Resources LLC

Oilwell Farms #13-3

DST Test Number: 3







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 70996

Well Name & No. Culwell Farms #13-3 Test No. 1 Date 12/7/23  
 Company Arcadian Resources LLC Elevation 3382 KB 3375 GL  
 Address 313 E Kansas St Glen Elder, KS 67446  
 Co. Rep / Geo Sean Deenihan Rig Double D #3  
 Location: Sec. 13 Twp 5s Rge. 37w Co. Cheyenne State KS

Interval Tested 4380-4468 Zone Tested LKC I-J  
 Anchor Length 88' Drill Pipe Run 4313 Mud Wt. 9.5  
 Top Packer Depth 4375 Drill Collars Run 62 Vis 58  
 Bottom Packer Depth 4380 Wt. Pipe Run \_\_\_\_\_ WL 4.8  
 Total Depth 4468 Chlorides 1000 ppm System LCM 3#

Blow Description IF- Weak surface blow, built to 1/2" in 10 min, Final is 3/4"  
ISF- No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>Mud w/spots of oil in tool</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 _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 5 BHT 123 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm  
 Initial Hydrostatic 2208  Test 1950  Ruined Shale Packer \_\_\_\_\_  
 Initial Flow 20 to 29  Jars 300  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 983  Circ Sub \_\_\_\_\_  Hotel \_\_\_\_\_  
 Final Flow \_\_\_\_\_ to \_\_\_\_\_  Hourly Standby \_\_\_\_\_  EM Tool Successful \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_  Mileage 118 RT 206.50  Accessibility \_\_\_\_\_  
 Final Hydrostatic 2106  Sampler \_\_\_\_\_  Gas Sample \_\_\_\_\_  
 T- On Location 09:50  Straddle \_\_\_\_\_  Oversized Hole \_\_\_\_\_  
 Initial Flow 30 T-Started 11:41  Shale Packer \_\_\_\_\_  Sub Total 0  
 Initial Shut-In 30 T-Open 13:46  Extra Packer \_\_\_\_\_  Total 2456.50  
 Final Flow \_\_\_\_\_ T-Pulled 14:55  Extra Recorder \_\_\_\_\_  Tool Loaded \_\_\_\_\_ @ \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_ T-Out 16:47  Day Standby \_\_\_\_\_  MP/DST Disc't \_\_\_\_\_  
 Comments \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damage of any kind of 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. 70997

Well Name & No. Culwell Farms #13-3 Test No. 2 Date 12/8/23  
 Company Arcadian Resources LLC Elevation 3382 KB 3375 GL  
 Address 313 E Kansas St Glen Elder, KS 67446  
 Co. Rep / Geo Sean Deenihan Rig Double D #3  
 Location: Sec. 13 Twp 5s Rge. 37w Co. Cheyenne State KS

Interval Tested 4560 - 4660 Zone Tested Pawnee  
 Anchor Length 100' Drill Pipe Run 4473 Mud Wt. 9.5  
 Top Packer Depth 4555 Drill Collars Run 62 Vis 58  
 Bottom Packer Depth 4560 Wt. Pipe Run \_\_\_\_\_ WL 8.8  
 Total Depth 4660 Chlorides 1000 ppm System LCM 3#

Blow Description IF-Fair surface blow, built to 4" in 10 min, Final built to 5 3/4" died to 5 1/2"

~~SI- No blow back~~

EF-Weak surface blow, built to 2 1/2" in 10 min, Final is 4"

~~BI- No blow back~~

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>MW</u>			<u>60</u>	<u>40</u>
<u>368</u>	<u>150M CW (oil is less than 1%)</u>			<u>65</u>	<u>35</u>
<u>10'</u>	<u>SGWCO</u>	<u>2</u>	<u>75</u>	<u>23</u>	
	<u>32' GIP</u>	<u>100</u>			

Rec Total 440' BHT 145° Gravity \_\_\_\_\_ API RW 275 @ 50 °F Chlorides 4000 ppm

Initial Hydrostatic 2301  Test 1950  Ruined Shale Packer \_\_\_\_\_  
 Initial Flow 28 to 123  Jars 300  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 1214  Circ Sub \_\_\_\_\_  Hotel \_\_\_\_\_  
 Final Flow 129 to 204  Hourly Standby \_\_\_\_\_  EM Tool Successful \_\_\_\_\_  
 Final Shut-In 1199  Mileage 118 RT 206.50  Accessibility \_\_\_\_\_  
 Final Hydrostatic 2169  Sampler \_\_\_\_\_  Gas Sample \_\_\_\_\_  
 T- On Location 05:53  Straddle \_\_\_\_\_  Oversized Hole \_\_\_\_\_  
 Initial Flow 30 T-Started 06:45  Shale Packer \_\_\_\_\_  Sub Total 0  
 Initial Shut-In 30 T-Open 08:37  Extra Packer \_\_\_\_\_  Total 2456.50  
 Final Flow 30 T-Pulled 10:45  Extra Recorder \_\_\_\_\_  Tool Loaded \_\_\_\_\_ @ \_\_\_\_\_  
 Final Shut-In 30 T-Out 13:15  Day Standby \_\_\_\_\_  MP/DST Disc't \_\_\_\_\_

Comments \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 70998

Well Name & No. Culwell Farms #13-3 Test No. 3 Date 12/8/23  
 Company Arcadian Resources LLC Elevation 3382 KB 3375 GL  
 Address 313 E Kansas St. Glen Elder, Kansas 67446  
 Co. Rep / Geo Sean Deenihan Rig Double D #3  
 Location: Sec. 13 Twp 5S Rge. 37W Co. Cheyenne State KS

Interval Tested 4710-4727 Zone Tested Cherokee Lime  
 Anchor Length 17' Drill Pipe Run 4633 Mud Wt. 9.1  
 Top Packer Depth 4705 Drill Collars Run 62 Vis 50  
 Bottom Packer Depth 4710 Wt. Pipe Run \_\_\_\_\_ WL 8.8  
 Total Depth 4727 Chlorides 1000 ppm System LCM 4#

Blow Description It-Weak surface blow, built to 1/2" in 10min, Final is 1/2"

ISI- No blow back

FR No blow

FST- No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Mud w/spots of oil in tool</u>				
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 1' BHT 130 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

Initial Hydrostatic 2348  Test 1950  Ruined Shale Packer \_\_\_\_\_  
 Initial Flow 15 to 16  Jars 300  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 25  Circ Sub \_\_\_\_\_  Hotel \_\_\_\_\_  
 Final Flow 16 to 17  Hourly Standby \_\_\_\_\_  EM Tool Successful -350  
 Final Shut-In 22  Mileage 118 RT  Accessibility \_\_\_\_\_  
 Final Hydrostatic 2316  Sampler 206.50 + 206.50  Gas Sample \_\_\_\_\_  
 T- On Location 19:30  Straddle \_\_\_\_\_  Oversized Hole \_\_\_\_\_  
 Initial Flow 30 T-Started 20:41  Shale Packer \_\_\_\_\_  Sub Total -350  
 Initial Shut-In 30 T-Open 22:27  Extra Packer \_\_\_\_\_  Total 2313  
 Final Flow 30 T-Pulled 00:35  Extra Recorder \_\_\_\_\_  Tool Loaded 12/9 @ 20:15  
 Final Shut-In 30 T-Out 02:34  Day Standby \_\_\_\_\_  MP/DST Disc't \_\_\_\_\_

Comments \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

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416 Main Street  
 P.O. Box 225  
 Victoria, KS 67671

Office (785) 639-3949  
 24 Hour Service Line (785) 639-7269

# Invoice

Date	Invoice #
12/4/2023	1138

Please Pay from this Invoice.  
 Remit Payment to:  
 416 Main Street PO BOX 225  
 Victoria, KS 67671  
 Billing Questions-Call Tianna at  
 (785) 639-3949  
 Email: franksoilfield@yahoo.com

KCC License Number  
 35469

Bill To
Arcadian Resources 313 E. Kansas St Glen Elder, KS 67446

County/State	Lease/Well#	Terms	Job Type
Cheyenne County, KS	Culwell Farms 13- <del>3</del> <sup>3</sup>	Net 30	Surface

Description	Quantity	Rate	Amount
Pump Charge	1	1,150.00	1,150.00
Mileage	76	6.50	494.00
12.30 tons at 76 miles	934.8	1.50	1,402.20
Surface Blend	250	25.50	6,375.00T
Salt	100	0.50	50.00T
Discount		-473.56	-473.56

*Thank-  
 you!*

Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.

**Subtotal** \$8,997.64

*We appreciate your business and look forward to serving you again!*

**Sales Tax (8.5%)** \$518.82

**Balance Due** \$9,516.46



# FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269  
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

TICKET NUMBER 1138  
 LOCATION ~~Victoria~~ Hovae  
 FOREMAN Jack Tall

## FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-4-23	35252	Coburn Farm 13-3	13	5	37	Cheyenne
CUSTOMER Anadrian Resources, LLC			TRUCK #			
MAILING ADDRESS 313 E Kansas St.			DRIVER			
CITY Glen Elder			TRUCK #			
STATE KS			DRIVER			
ZIP CODE 67446			TRUCK #			
			DRIVER			

JOB TYPE Surface HOLE SIZE \_\_\_\_\_ HOLE DEPTH \_\_\_\_\_ CASING SIZE & WEIGHT \_\_\_\_\_  
 CASING DEPTH \_\_\_\_\_ DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.8 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT 19.60 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting & set up. Mixed cement & displaced. Returned cement to pit  
Thanks!!!

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PC002	1	PUMP CHARGE <u>Surface</u>	\$1150.00	\$1150.00
M001	76	MILEAGE	\$6.50	\$494.00
M002	170.90 hrs	TMD	\$1402.20	\$1402.20
CP004	250 sk	Class A 3% w/ 28 gal/l	\$25.50	\$6375.00
CP003	100 lbs	Salt	\$4.50	\$450.00
			sub total	\$9471.20
			less 5% disc.	\$473.56
			sub total	\$8997.64
			SALES TAX	518.82
			<b>ESTIMATED TOTAL</b>	<b>9516.46</b>

AUTHORIZATION \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



416 Main Street  
 P.O. Box 225  
 Victoria, KS 67671  
 Office (785) 639-3949  
 24 Hour Service Line (785) 639-7269

# Invoice

Date	Invoice #
12/10/2023	1144

Please Pay from this Invoice.  
 Remit Payment to:  
 416 Main Street PO BOX 225  
 Victoria, KS 67671  
 Billing Questions-Call Tianna at  
 (785) 639-3949  
 Email: franksoilfield@yahoo.com

KCC License Number  
 35469

Bill To
Arcadian Resources 313 E. Kansas St Glen Elder, KS 67446

County/State	Lease/Well#	Terms	Job Type
Cheyenne County, KS	Culwell Farms 13-3	Net 30	PTA

Description	Quantity	Rate	Amount
Pump Charge	1	1,500.00	1,500.00
Mileage	76	6.50	494.00
11.56 tons at 76 miles	878.56	1.50	1,317.84
60/40 4% gel 1/4# floseal	255	17.35	4,424.25T
8-5/8 Wooden Plug	1	165.00	165.00T
Discount		-395.05	-395.05

Thank you!

Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.

*We appreciate your business and look forward to serving you again!*

<b>Subtotal</b>	\$7,506.04
<b>Sales Tax (8.5%)</b>	\$370.58
<b>Balance Due</b>	\$7,876.62



# FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269  
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

TICKET NUMBER 1144  
 LOCATION Hoyie  
 FOREMAN Preston

## FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY			
12-10-23		Culwell Farms #13-3	13	5	37	Cheyenne			
CUSTOMER Arception Resources, LLC		TRUCK #		DRIVER		TRUCK #		DRIVER	
MAILING ADDRESS		103		Preston D					
CITY		201		Census D					
STATE		ZIP CODE							

JOB TYPE PTA HOLE SIZE 7 7/8" HOLE DEPTH 5014' CASING SIZE & WEIGHT \_\_\_\_\_  
 CASING DEPTH \_\_\_\_\_ DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting, Rig up on Double D. Plug as ordered  
1st plug - 3125' - 50 sacks  
2nd plug - 2100' - 100 sacks  
3rd plug - 375' - 50 sacks  
4th plug - 40' - 10 sacks  
mouse hole - 15 sacks  
scr hole - 30 sacks  
*Thanks Preston + crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
FC005	1	PUMP CHARGE	\$1500.00	\$1500.00
M001	76	MILEAGE	\$6.50	\$494.00
M002	11.56 tons	Ton Mileage Delivery	\$1317.84	\$1317.84
CE010	255	10/40 port 4% gal 1/4" flow seal	\$17.35	\$4424.25
FE035	1	5 3/8" weeder plug	\$165.00	\$165.00
			sub total	\$7901.09
			less 5% disc	\$395.05
			subtotal	\$7506.04
			SALES TAX	370.58
			ESTIMATED TOTAL	7876.62

AUTHORIZATION [Signature] TITLE \_\_\_\_\_ DATE 12-10-23

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



# Sean Deenihan

## Petroleum Geologist

### GEOLOGIST'S REPORT

#### DRILLING TIME AND SAMPLE LOG

COMPANY **Arcadian Resources, LLC**  
 LEASE **Cullwell Farms #13-3**

FIELD **Cullwell Farms #13-3**  
 LOCATION **854' FNL & 2058' FFL**

SEC **I3** TWPSP **5S** RGE **37W**

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

CONTRACTOR **Double D Drilling**

SPUD **12/8/23** COMP **12/20/23**

RTD **5014'** LTD **5014'**

MUD UP **3300'** TYPE MUD **Chemical**

SAMPLES SAVED FROM **3600'** TO **RTD**  
 DRILLING TIME KEPT FROM **3600'** TO **RTD**  
 SAMPLES EXAMINED FROM **3400'** TO **RTD**

CONDUCTOR **CASING**  
 SURFACE **8-5/8"** at **326'**  
 PRODUCTION **ELECTRICAL SURVEYS**

GEOLOGICAL SUPERVISION FROM **3400'**

REFERENCE WELL **CND/DLI.**

Measurements Are All From Kelly Bushing

ELEVATIONS **KB\_3377'**

DF \_\_\_\_\_

GL **3371'**

Formation **Heebner Sh** 4307 (-830)

Formation **Lansing** 4361 (-883)

Formation **Stark Shale** 4458 (-1081)

Formation **Pawnee** 4636 (-1259)

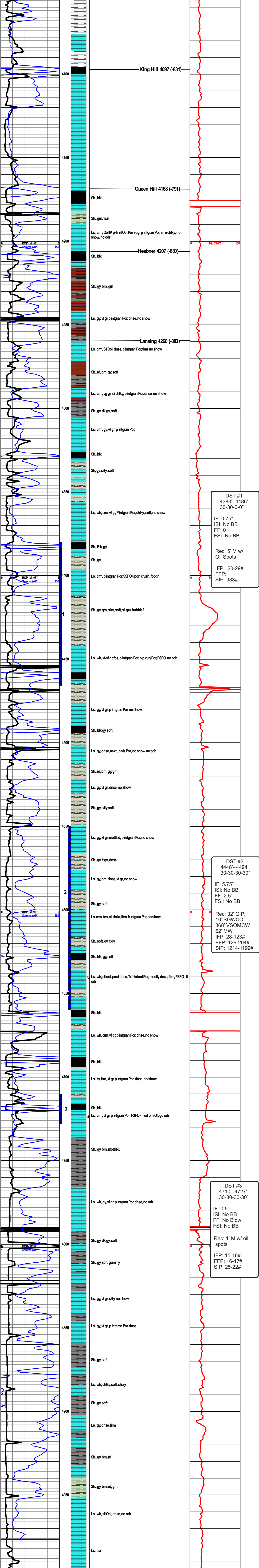
Formation **Ft. Scott** 4696 (-1319)



REMARKS The Cullwell Farms #13-3 had negative DST results and poor sample shows. Therefore, the decision was made to plug this hole.

Respectfully Submitted,

Sean P. Deenihan



RTD: 5014'  
 LTD: 5014'

**Arcadian Resources, LLC**  
 Cullwell Farms. #13-3  
 13-5S-37W  
 Cheyenne County, KS

KB: 3377'