

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) (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	VALLIN 2-1
Doc ID	1735079

All Electric Logs Run

DIL
DUCP
MEL
GRCBL



DRILL STEM TEST REPORT

Prepared For: **Arcadian Resources LLC**

313 E Kansas St
Glen Elder, KS 67446

ATTN: Sean Deenihan

Vallin #2-1

2-5s-37w Cheyenne,KS

Start Date: 2023.05.31 @ 20:13:00

End Date: 2023.06.01 @ 04:49:35

Job Ticket #: 70393 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.06.05 @ 17:14:39



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Arcadian Resources LLC

2-5s-37w Cheyenne, KS

313 E Kansas St
Glen Elder, KS 67446

Vallin #2-1

ATTN: Sean Deenihan

Job Ticket: 70393

DST#: 1

Test Start: 2023.05.31 @ 20:13:00

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:38:51

Time Test Ended: 04:49:35

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 83

Interval: 4452.00 ft (KB) To 4509.00 ft (KB) (TVD)

Reference Elevations: 3405.00 ft (KB)

Total Depth: 4509.00 ft (KB) (TVD)

3400.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6771

Inside

Press@RunDepth: 879.73 psig @ 4453.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.05.31

End Date:

2023.06.01

Last Calib.:

2023.06.01

Start Time: 20:13:01

End Time:

04:49:35

Time On Btm:

2023.05.31 @ 22:38:21

Time Off Btm:

2023.06.01 @ 00:41:51

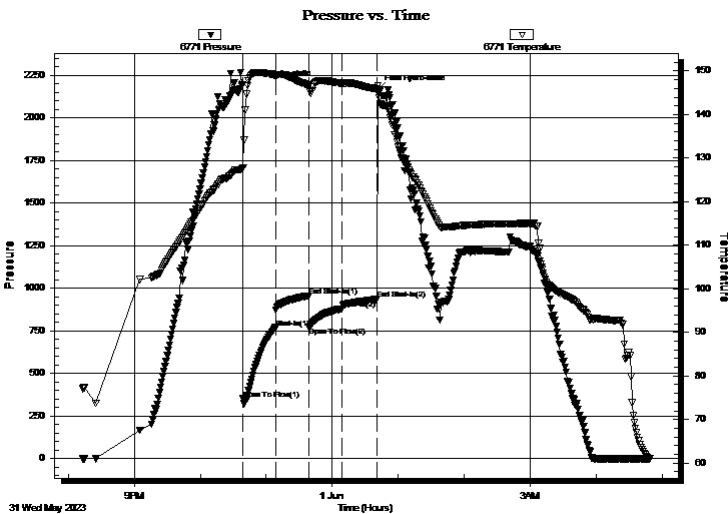
TEST COMMENT: 30 - IF: Blow built to BOB (11") at 50 sec., built to 314 3/4"

30 - ISI: Bled off for 8 min., Blow back built to BOB in 5 min., built to 34 1/4"

30 - FF: Blow built to BOB at 1 3/4 min., built to 17"

30 - FSI: Blow back built to 10" GTS at end of close

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2195.14	127.50	Initial Hydro-static
1	351.15	127.78	Open To Flow (1)
30	768.75	148.99	Shut-In(1)
61	956.11	146.73	End Shut-In(1)
61	772.04	146.57	Open To Flow (2)
91	879.73	147.12	Shut-In(2)
123	935.33	145.81	End Shut-In(2)
124	2167.73	146.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	GOM 44% m, 37% o, 19% g	1.49
2329.00	Rev Out VSMCGO 74% o, 22% g, 4% m	32.67
0.00	GIP = 1988	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Arcadian Resources LLC

2-5s-37w Cheyenne,KS

313 E Kansas St
Glen Elder, KS 67446

Vallin #2-1

Job Ticket: 70393

DST#: 1

ATTN: Sean Deenihan

Test Start: 2023.05.31 @ 20:13:00

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:38:51

Time Test Ended: 04:49:35

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 83

Interval: 4452.00 ft (KB) To 4509.00 ft (KB) (TVD)

Reference Elevations: 3405.00 ft (KB)

Total Depth: 4509.00 ft (KB) (TVD)

3400.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8367 Outside

Press@RunDepth: psig @ 4453.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.05.31

End Date:

2023.06.01

Last Calib.:

2023.06.01

Start Time: 20:13:01

End Time:

04:49:35

Time On Btm:

Time Off Btm:

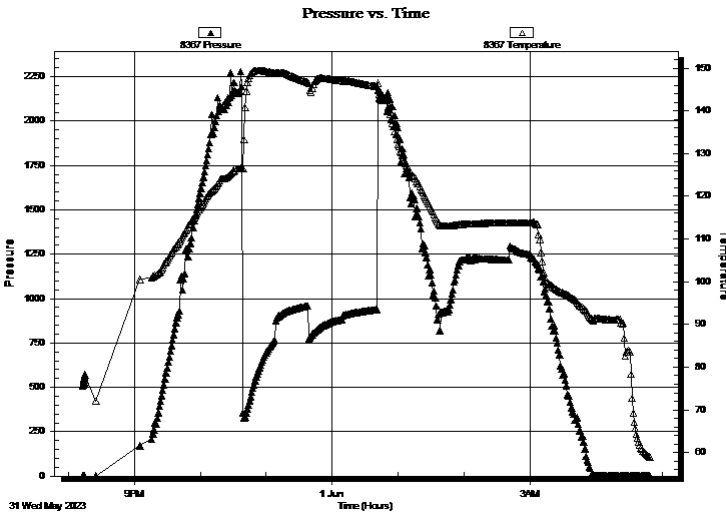
TEST COMMENT: 30 - IF: Blow built to BOB (11") at 50 sec., built to 314 3/4"

30 - ISI: Bled off for 8 min., Blow back built to BOB in 5 min., built to 34 1/4"

30 - FF: Blow built to BOB at 1 3/4 min., built to 17"

30 - FSI: Blow back built to 10" GTS at end of close

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
126.00	GOM 44% m, 37% o, 19% g	1.49
2329.00	Rev Out VSMCGO 74% o, 22% g, 4% m	32.67
0.00	GIP = 1988	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Arcadian Resources LLC

2-5s-37w Cheyenne,KS

313 E Kansas St
Glen Elder, KS 67446

Vallin #2-1

Job Ticket: 70393

DST#: 1

ATTN: Sean Deenihan

Test Start: 2023.05.31 @ 20:13:00

Tool Information

Drill Pipe:	Length: 4412.00 ft	Diameter: 3.80 inches	Volume: 61.89 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	100000.0 lb
			<u>Total Volume: 62.04 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	80000.00 lb
Depth to Top Packer:	4452.00 ft			Final	88000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	57.00 ft				
Tool Length:	90.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: left 1/4" valve to blow bucket open on FF to check for gas

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4420.00	
Shut In Tool	5.00			4425.00	
Hydraulic tool	5.00			4430.00	
Jars	5.00			4435.00	
EM Tool	4.00			4439.00	
Safety Joint	3.00			4442.00	
Packer	5.00			4447.00	33.00 Bottom Of Top Packer
Packer	5.00			4452.00	
Stubb	1.00			4453.00	
Recorder	0.00	6771	Inside	4453.00	
Recorder	0.00	8367	Outside	4453.00	
Perforations	20.00			4473.00	
Blank Spacing	33.00			4506.00	
Bullnose	3.00			4509.00	57.00 Bottom Packers & Anchor

Total Tool Length: 90.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Arcadian Resources LLC

2-5s-37w Cheyenne,KS

313 E Kansas St
Glen Elder, KS 67446

Vallin #2-1

Job Ticket: 70393

DST#: 1

ATTN: Sean Deenihan

Test Start: 2023.05.31 @ 20:13:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38.4 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

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
126.00	GOM 44% <i>m</i> , 37% <i>o</i> , 19% <i>g</i>	1.485
2329.00	Rev Out VSMCGO 74% <i>o</i> , 22% <i>g</i> , 4% <i>m</i>	32.670
0.00	GIP = 1988	0.000

Total Length: 2455.00 ft Total Volume: 34.155 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

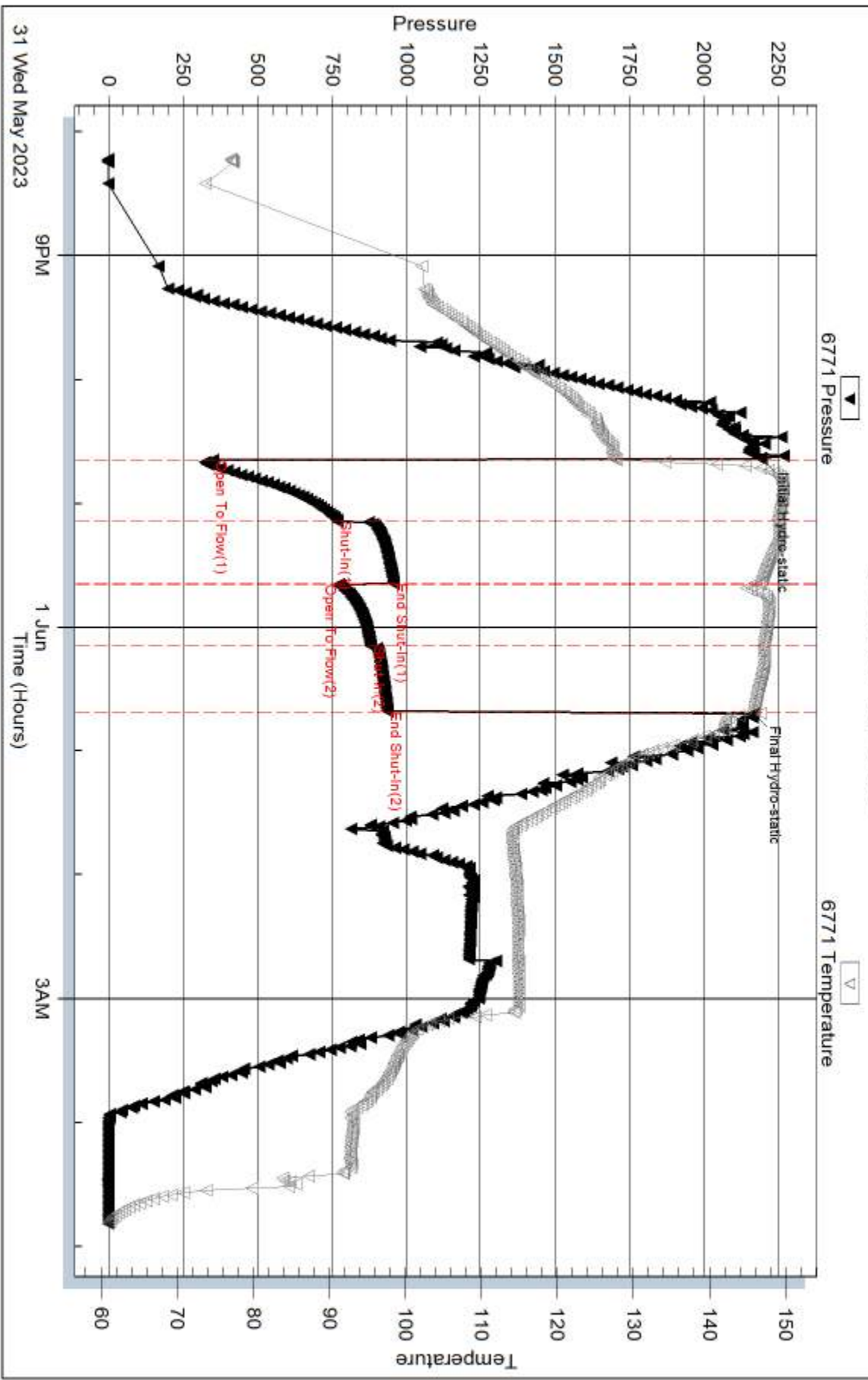
Serial #:

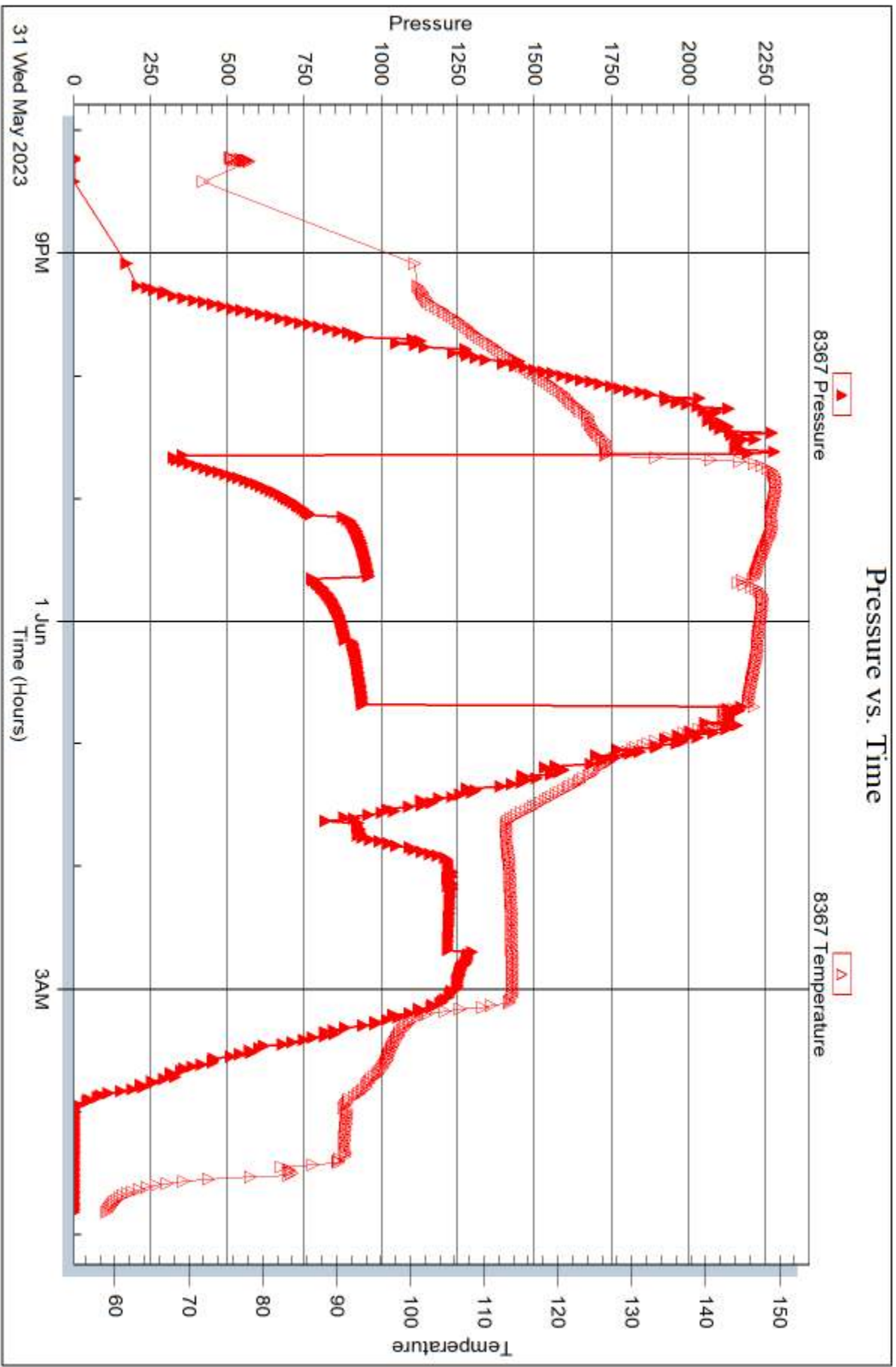
Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 38.8 api @ 64 deg F Corrected Gravity = 38.4 api

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Arcadian Resources LLC**

313 E Kansas St
Glen Elder, KS 67446

ATTN: Sean Deenihan

Vallin #2-1

2-5s-37w Cheyenne,KS

Start Date: 2023.06.01 @ 17:09:00

End Date: 2023.06.02 @ 01:08:51

Job Ticket #: 70394 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.06.05 @ 17:14:11



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Arcadian Resources LLC

2-5s-37w Cheyenne,KS

313 E Kansas St
Glen Elder, KS 67446

Vallin #2-1

Job Ticket: 70394

DST#: 2

ATTN: Sean Deenihan

Test Start: 2023.06.01 @ 17:09:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:21:21

Time Test Ended: 01:08:51

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 4652.00 ft (KB) To 4720.00 ft (KB) (TVD)

Reference Elevations: 3405.00 ft (KB)

Total Depth: 4720.00 ft (KB) (TVD)

3400.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6771 Inside

Press@RunDepth: 45.35 psig @ 4653.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.06.01 End Date: 2023.06.02

Last Calib.: 2023.06.02

Start Time: 17:09:01 End Time: 01:08:51

Time On Btm: 2023.06.01 @ 20:20:51

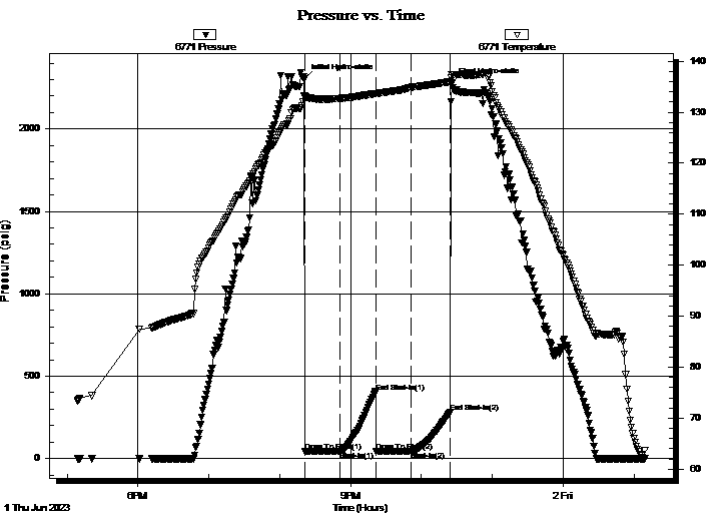
Time Off Btm: 2023.06.01 @ 22:25:36

TEST COMMENT: 30 - IF: 2 3/4" Surge blow at open, died back to 2 1/4"

30 - IS: No blow

30 - FF: No blow

30 - FS: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2303.61	133.21	Initial Hydro-static
1	43.81	132.96	Open To Flow (1)
31	44.55	132.71	Shut-In(1)
61	405.24	133.65	End Shut-In(1)
61	44.60	133.60	Open To Flow (2)
91	45.35	134.90	Shut-In(2)
124	280.20	135.96	End Shut-In(2)
125	2282.32	137.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
58.00	Mud w /trace oil 100%m	0.53

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Arcadian Resources LLC

2-5s-37w Cheyenne,KS

313 E Kansas St
Glen Elder, KS 67446

Vallin #2-1

Job Ticket: 70394

DST#: 2

ATTN: Sean Deenihan

Test Start: 2023.06.01 @ 17:09:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:21:21

Time Test Ended: 01:08:51

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 4652.00 ft (KB) To 4720.00 ft (KB) (TVD)

Reference Elevations: 3405.00 ft (KB)

Total Depth: 4720.00 ft (KB) (TVD)

3400.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8367 **Outside**

Press@RunDepth: psig @ 4653.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.06.01

End Date:

2023.06.02

Last Calib.:

2023.06.02

Start Time: 17:09:01

End Time:

01:08:51

Time On Btm:

Time Off Btm:

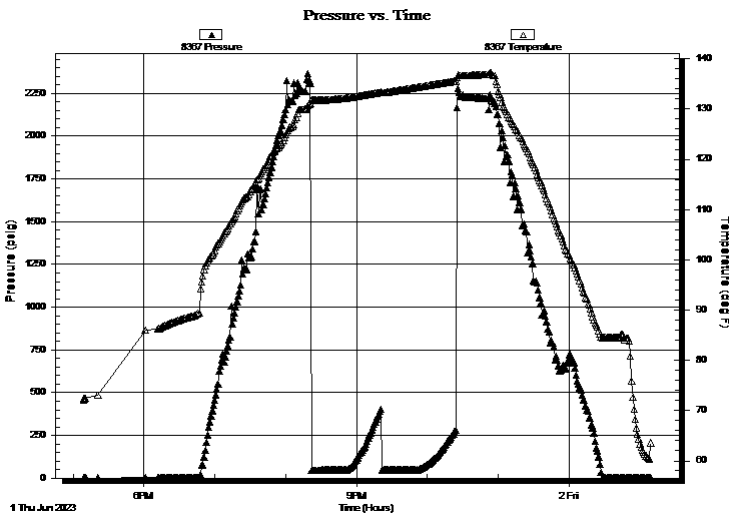
TEST COMMENT: 30 - IF: 2 3/4" Surge blow at open, died back to 2 1/4"

30 - ISI: No blow

30 - FF: No blow

30 - FSI: No blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
58.00	Mud w /trace oil 100% m	0.53

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

2-5s-37w Cheyenne,KS

313 E Kansas St
Glen Elder, KS 67446

Vallin #2-1

Job Ticket: 70394

DST#: 2

ATTN: Sean Deenihan

Test Start: 2023.06.01 @ 17:09:00

Tool Information

Drill Pipe:	Length: 4600.00 ft	Diameter: 3.80 inches	Volume: 64.53 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 64.68 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	81000.00 lb
Depth to Top Packer:	4652.00 ft			Final	81000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	68.00 ft				
Tool Length:	101.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: tool chased 1' - 2' to bottom at open, lost 10' mud - 2 3/4" surge blow at open

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4620.00	
Shut In Tool	5.00			4625.00	
Hydraulic tool	5.00			4630.00	
Jars	5.00			4635.00	
EM Tool	4.00			4639.00	
Safety Joint	3.00			4642.00	
Packer	5.00			4647.00	33.00 Bottom Of Top Packer
Packer	5.00			4652.00	
Stubb	1.00			4653.00	
Recorder	0.00	6771	Inside	4653.00	
Recorder	0.00	8367	Outside	4653.00	
Perforations	30.00			4683.00	
Blank Spacing	34.00			4717.00	
Bullnose	3.00			4720.00	68.00 Bottom Packers & Anchor

Total Tool Length: 101.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Arcadian Resources LLC

2-5s-37w Cheyenne,KS

313 E Kansas St
Glen Elder, KS 67446

Vallin #2-1

Job Ticket: 70394

DST#: 2

ATTN: Sean Deenihan

Test Start: 2023.06.01 @ 17:09:00

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: 7.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
58.00	Mud w /trace oil 100%m	0.531

Total Length: 58.00 ft Total Volume: 0.531 bbl

Num Fluid Samples: 0

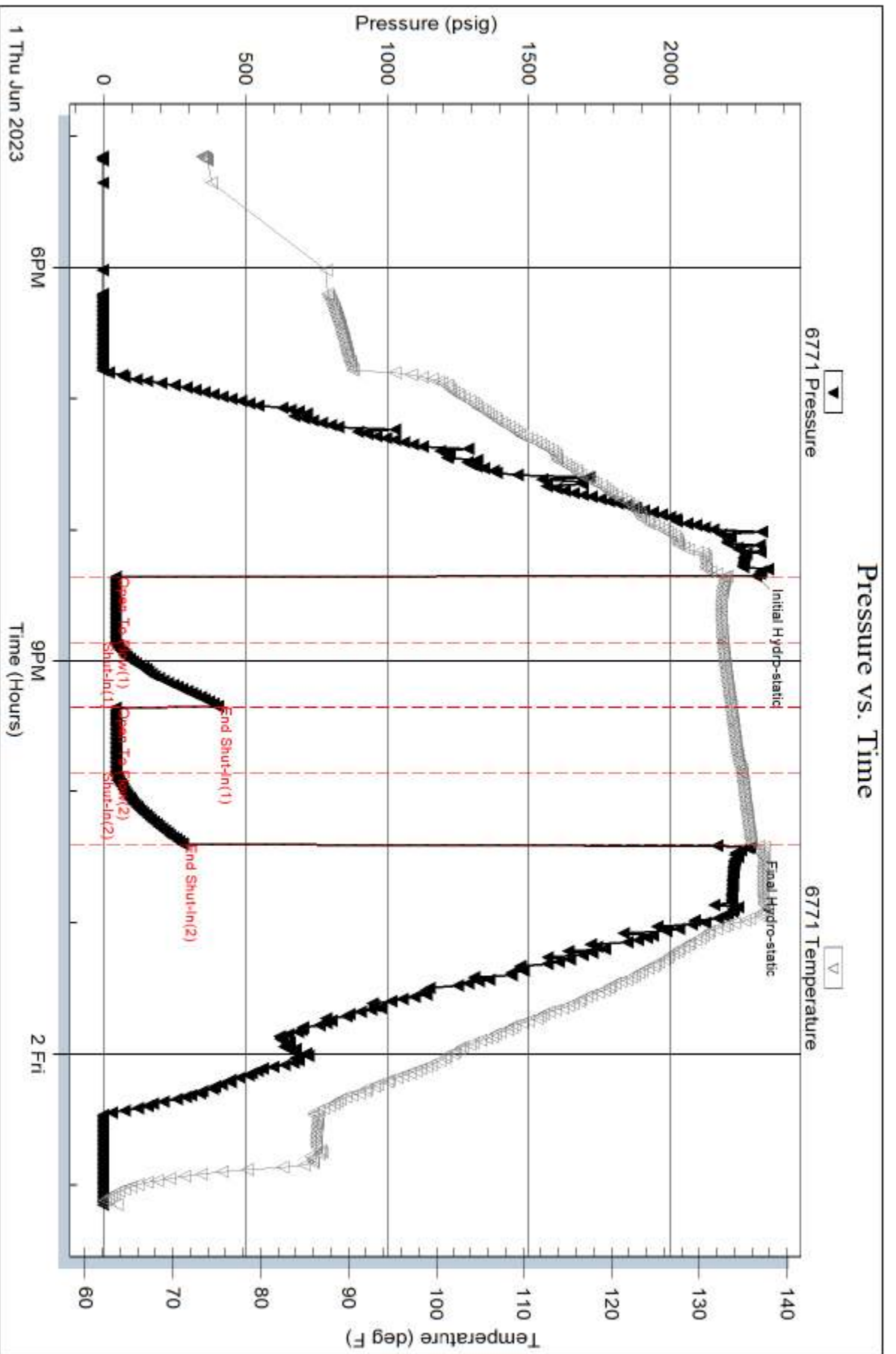
Num Gas Bombs: 0

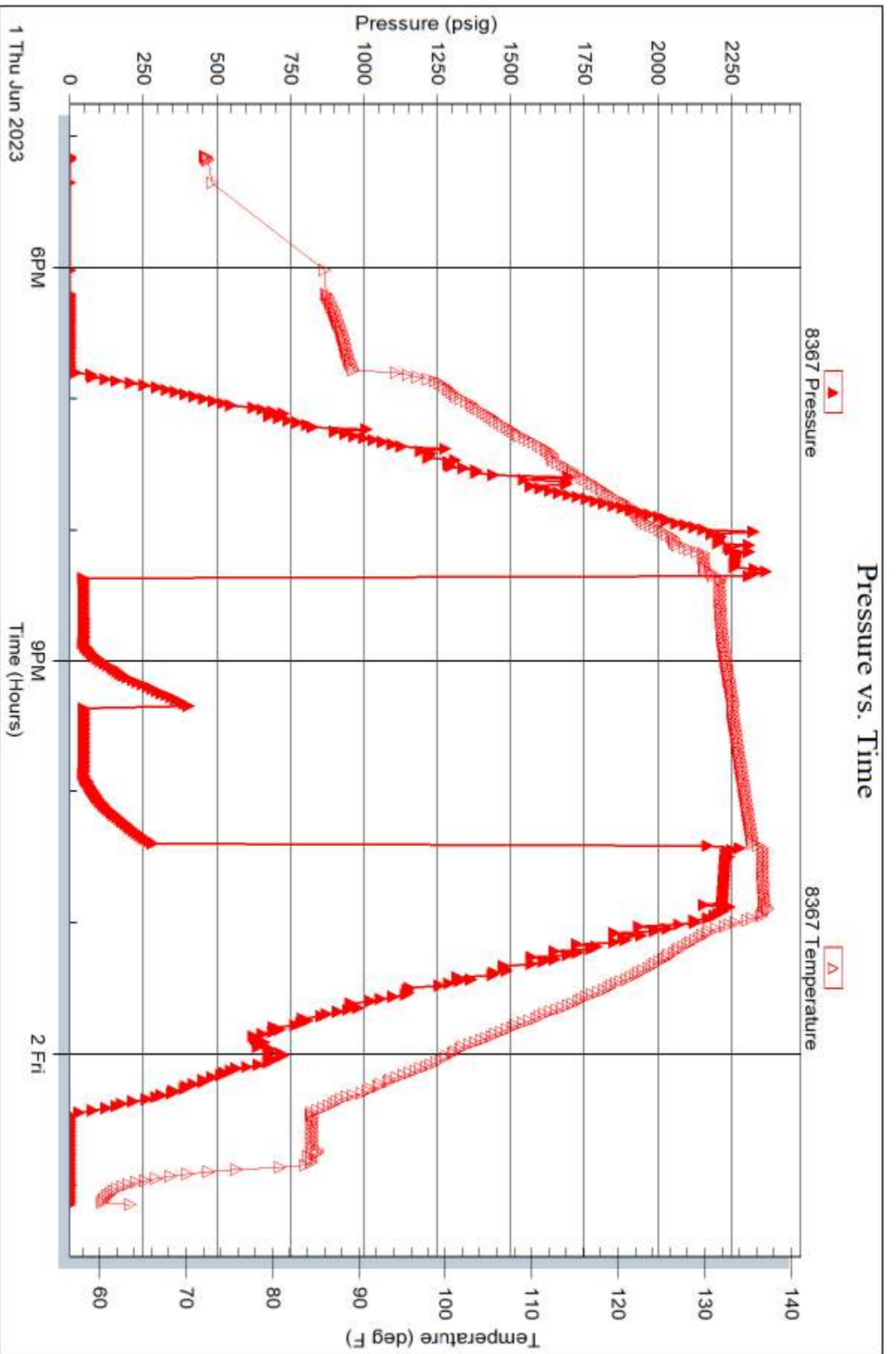
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70393

Well Name & No. Vallin #2-1 Test No. 1 Date 5-31-23
 Company Arcadian Resources LLC Elevation 3405 KB 3400 GL
 Address 313 E Kansas St Glen Elder KS 67446
 Co. Rep / Geo Sean Deenihan Rig Double D
 Location: Sec. 2 Twp 5s Rge. 37w Co. Cheyenne State KS

Interval Tested 4452-4509 Zone Tested LKC "J"
 Anchor Length 57 Drill Pipe Run 4412 Mud Wt. 9.2
 Top Packer Depth 4447 Drill Collars Run 31 Vis 53
 Bottom Packer Depth 4452 Wt. Pipe Run - WL 8
 Total Depth 4509 Chlorides 1000 ppm System LCM 2

Blow Description IF: Blow built to BOB at 50 sec, built to 314 3/4"
ISI: Bled off for 8 min, Blowback built to BOB at 5 min, built to 314 1/4"
FF: Blow built to BOB at 1 3/4 min, built to 17"
FST: Blowback built to 10" STS at end of close

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>Rev at 2329</u>	Feet of <u>VSMCGO</u>	<u>22</u>	<u>74</u>	<u>4</u>	<u>4</u>
Rec <u>Below 5' 126</u>	Feet of <u>GOM</u>	<u>19</u>	<u>37</u>	<u>44</u>	<u>44</u>
Rec _____	Feet of <u>GIP = 1988</u>	_____	_____	_____	_____
Rec _____	Feet of _____	_____	_____	_____	_____
Rec _____	Feet of _____	_____	_____	_____	_____
Rec _____	Feet of _____	_____	_____	_____	_____
Rec _____	Feet of _____	_____	_____	_____	_____

Rec Total 2455 BHT 146 Gravity 38.4 API RW _____ @ _____ *F Chlorides _____ ppm

Initial Hydrostatic 2195 Test 1950 Ruined Shale Packer _____
 Initial Flow 351 to 769 Jars 300 Ruined Packer _____
 Initial Shut-In 956 Circ Sub 50 Hotel _____
 Final Flow 772 to 880 Hourly Standby _____ EM Tool Successful -350
 Final Shut-In 935 Mileage 120 RT 210 Accessibility _____
 Final Hydrostatic 2168 Sampler _____ Gas Sample _____
 T-On Location 14:00 5/31 Straddle _____ Sub Total -350
 Initial Flow 30 T-Started 20:13 Shale Packer _____ Total 2160
 Initial Shut-In 30 T-Open 22:38 Extra Packer _____ Tool Loaded @ _____
 Final Flow 30 T-Pulled 00:41 Extra Recorder _____ MP/DST Disc't _____
 Final Shut-In 30 T-Out 4:45 6/1 Day Standby _____

Comments 1/4" valve to blow bucket left open on FF to check for Gas
Rig had to run another short trip

Approved By _____ Our Representative Sean Deenihan

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. 70394

Well Name & No. Vallin #2-1 Test No. 2 Date 6-1-23
 Company Arcadian Resources LLC Elevation 3405 KB 3400 GL
 Address 313 E Kansas St Glen Elder KS 67446
 Co. Rep / Geo Sean Deenthan Rig Double D
 Location: Sec. 2 Twp 5s Rge. 37w Co. Cheyenne State KS

Interval Tested 4652-4720 Zone Tested Pawnee
 Anchor Length 68 Drill Pipe Run 4600 Mud Wt. 9.4
 Top Packer Depth 4647 Drill Collars Run 31 Vis 50
 Bottom Packer Depth 4652 Wt. Pipe Run - WL 7.8
 Total Depth 4720 Chlorides 1200 ppm System LCM 1
 Blow Description IF: 2 3/4" Surge blow at open, died back to 2 1/4"
ISI: No blow
FF: No blow
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>58</u>	<u>mud w/trace oil</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 58 BHT 136 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 Initial Hydrostatic 2304 Test 1950 Ruined Shale Packer _____
 Initial Flow 44 to 45 Jars 300 Ruined Packer _____
 Initial Shut-In _____ 405 Circ Sub _____ Hotel _____
 Final Flow 45 to 45 Hourly Standby _____ EM Tool Successful -350
 Final Shut-In _____ 280 Mileage 120 RT x 2 ²¹⁰⁺²¹⁰ Accessibility _____
 Final Hydrostatic 2282 Sampler _____ Gas Sample _____
 T-On Location 16:15 6/1 Straddle _____ Sub Total -350
 Initial Flow 30 T-Started 17:09 Shale Packer _____ Total 2320
 Initial Shut-In 30 T-Open _____ Extra Packer _____ Tool Loaded _____ @ _____
 Final Flow 30 T-Pulled _____ Extra Recorder _____ MP/DST Disc't _____
 Final Shut-In 30 T-Out 1:05 6/2 Day Standby _____
 Comments tool chased 1'-2' at open - lost 10' mud

Approved By _____ Our Representative James Winder

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.



HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:
ARCADIAN RESOURCES LLC
313 E KANSAS ST
GLEN ELDER, KS 67446

Invoice Date: 5/26/2023
Invoice #: 0368633
Lease Name: Vallin
Well #: 2-1
County: Cheyenne, Ks
Job Number: WP4336
District: Oakley

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
H-325	250.000	22.500	5,625.00
Liquid Defoamer	1.000	75.000	75.00
Light Eq Mileage	65.000	2.000	130.00
Heavy Eq Mileage	130.000	4.000	520.00
Ton Mileage	764.000	1.500	1,146.00
Depth Charge 0'-500'	1.000	1,000.000	1,000.00
Cement Blending & Mixing	250.000	1.400	350.00
Cement Service-After 4 Hours	2.000	350.000	700.00
High Overhead Connection Chg	1.000	300.000	300.00
Service Supervisor	1.000	275.000	275.00

Total 10,121.00

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



Customer Arcadian Resources		Lease & Well # Vallin #2-1	Date 5/26/2023
Service District Oakley,KS		County & State Cheyenne,KS	Legals S/T/R 2-5S-37W
Job Type Surface	<input checked="checked" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD
		New Well?	<input checked="checked" type="checkbox"/> YES <input type="checkbox"/> No
		Job # WP4336	

Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
Equipment #	Driver		
945	Spencer	<input type="checkbox"/> Hard hat	<input type="checkbox"/> Gloves
230	Michael	<input type="checkbox"/> H2S Monitor	<input type="checkbox"/> Eye Protection
205	Lupe	<input type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection
		<input type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE
		<input type="checkbox"/> Hearing Protection	<input type="checkbox"/> Fire Extinguisher
		<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
		<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
		<input type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations
		<input type="checkbox"/> Overhead Hazards	<input type="checkbox"/> Muster Point/Medical Locations
<input type="checkbox"/> Additional concerns or issues noted below			

Comments	

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
CP015	H-325	sack	250.00	\$5,625.00
CP137	Liquid Defoamer	gal	1.00	\$75.00
M015	Light Equipment Mileage	mi	65.00	\$130.00
M010	Heavy Equipment Mileage	mi	130.00	\$520.00
M020	Ton Mileage	tm	764.00	\$1,146.00
D010	Depth Charge: 0'-500'	job	1.00	\$1,000.00
C060	Cement Blending & Mixing Service	sack	250.00	\$350.00
C030	Cement Service - Standby	hr	2.00	\$700.00
C075	High Overhead Connection Charge - Over 6 Feet	job	1.00	\$300.00
R061	Service Supervisor	day	1.00	\$275.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?				Net:	\$10,121.00		
		Total Taxable	\$ -	Tax Rate:			
Based on this job, how likely is it you would recommend HSI to a colleague? <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely				Sale Tax:		\$ -	
				Total:		\$ 10,121.00	
				HSI Representative: <i>Spencer Savage</i>			

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X _____ **CUSTOMER AUTHORIZATION SIGNATURE**



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

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

Invoice

Date	Invoice #
6/3/2023	0961

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	Vallin 2-1	Net 30	Long String

Description	Quantity	Rate	Amount
Pump Charge	1	2,500.00	2,500.00
Mileage	75	6.50	487.50
34.85 tons at 75 miles	2,613.75	1.50	3,920.62
Medium Truck Miloase	75	1.50	112.50T
Thixo blend OWC	200	29.55	5,910.00T
60/40 8% gel 1/4# Flo-Seal	500	17.95	8,975.00T
5-1/2" Guide Shoe AFU	1	600.00	600.00T
5-1/2" Latchdown Plug & Assembly	1	695.00	695.00T
5-1/2" Turbalizer Centralizers	14	108.00	1,512.00T
5-1/2" Basket	5	385.00	1,925.00T
5 1/2 Stop Ring	5	35.00	175.00T
Mud Flush	500	1.00	500.00T
KCL	6	30.00	180.00T
Head & Manifold Charge	1	200.00	200.00T
Discount		-1,384.63	-1,384.63

Thank you!

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

Subtotal \$26,307.99

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

Sales Tax (8.5%) \$1,678.35

Balance Due \$27,986.34

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 0961
 LOCATION Hoxie
 FOREMAN Tam Williams

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-3-23	35292	Vallin 2-1	2	SS	37w	Cherokee
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 Long string HOLE SIZE 7 7/8" HOLE DEPTH 4920' CASING SIZE & WEIGHT 5 1/2" ~~17~~ 17"
 CASING DEPTH 4919' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Ran float equipment. Had to circulate down last 19'. Hooked up head & manifold, circulate 1 1/2 hrs. Mix 500 gal mud flush followed by 20 Bbl KCL water. Mix 500 sa 15 MH 30RH + 455 sy down hole. Mix 200 QWC. Wash up & displace plug with 40 Bbl KCL then water. Plug down at 2:15pm

Cement did circulate 35 Bbl

Thanks Tom + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
P6004	1	PUMP CHARGE Long string	\$2500 ⁰⁰	\$2500 ⁰⁰
m001	75 miles	MILEAGE	\$6 ⁵⁰	\$487 ⁵⁰
m002	34.85 tons	Ton Mileage Delivered	\$3920 ⁴²	\$3920 ⁴²
m004	75 miles	Medium truck charge	\$1 ⁵⁰	\$112 ⁵⁰
CB030	200 sy	chass A 100gale 29001 Gynlos 5th	29.55	\$5910 ⁰⁰
CB021	500 sy	60140 890 1/2" 5/8" flo seal	\$17 ⁹⁵	\$8975 ⁰⁰
FE0033	1	5 1/2" AFU Guide shoe	\$600 ⁰⁰	\$600 ⁰⁰
FE051	1	5 1/2" datch down plug assy	\$195 ⁰⁰	\$195 ⁰⁰
FE014	14	5 1/2" turbolizer	\$108 ⁰⁰	\$1512 ⁰⁰
FE022	5	5 1/2" boyket	\$385 ⁰⁰	\$1925 ⁰⁰
FE102	5	5 1/2" stop ring	\$35 ⁰⁰	\$175 ⁰⁰
CP013	500 gal	Mud Flush	\$1 ⁰⁰	\$500 ⁰⁰
CP014	6 gal	KCL	\$30 ⁰⁰	\$180 ⁰⁰
FE003	1	5 1/2" head & manifold	\$200 ⁰⁰	\$200 ⁰⁰
			sub total	\$27792 ⁴²
			less 5% disc.	\$1,384 ⁶³
			sub total	\$26,407 ⁹⁹
			SALES TAX	\$1678.35
			ESTIMATED TOTAL	\$27986.34

AUTHORIZATION Bradford Baker TITLE _____ DATE 6-3-23

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 **Vallin #2-1**

FIELD **Well Bayner**

LOCATION **990' FSL & 2310' FWL**

SEC **2** TWPSP **5S** RGE **37W**

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

CONTRACTOR **White Knight Drilling**

RTD **5/26/23** COMP **6/3/23**

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

SAMPLES SAVED FROM **3800'** TO **RTD**

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

SAMPLES EXAMINED FROM **3800'** TO **RTD**

GEOLOGICAL SUPERVISION FROM **3400'**

REFERENCE WELL **CND/DIL MIC**

ELEVATIONS
KB 3404'

DF _____

GL 3398'

Measurements Are All From Kelly Bushing

CASING

CONDUCTOR _____

SURFACE 8-5/8" at 367'

PRODUCTION 5.5"

ELECTRICAL SURVEYS

ELI _____

CND/DIL MIC

Formation

Sample Tops

E-log Tops

Struct. Pos.

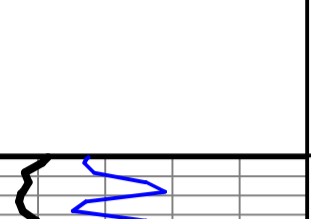
Heebner Sh. 4248 (-844)

Lansing 4338(-924)

Stark Shale 4496 (-1092)

Pawnee 4674 (-1270)

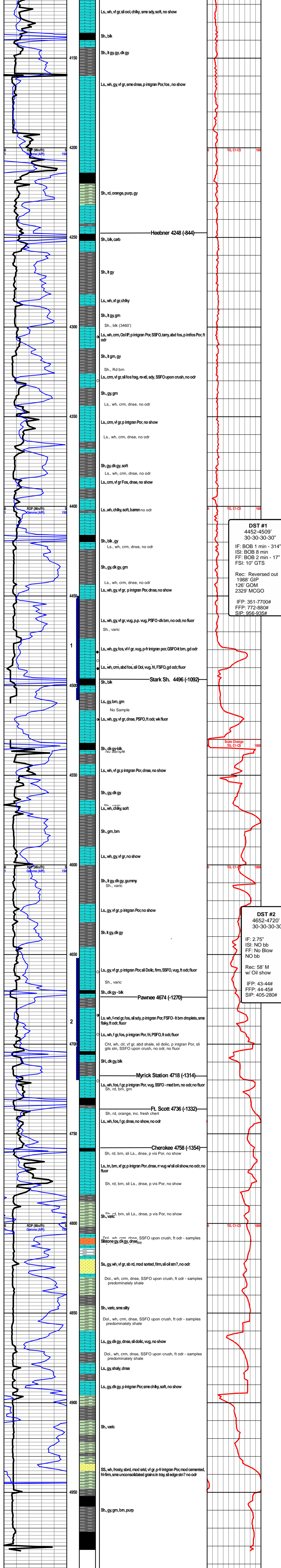
Cherokee Sh 4758 (-1354)



REMARKS The Vallin #2-1 will be further evaluated through 5.5" casing.

Respectfully Submitted,

Sean Deenihan



DST #1
4452-4509'
30-30-30-30"
IF: BOB 1 min - 314"
ISI: BOB 8 min
FF: BOB 2 min - 17"
FSI: 10" GTS

Rec: Reversed out
1988' GIP
126' GOM
2329' MCGO

IFP: 351-7700#
FFP: 772-880#
SIP: 956-935#

DST #2
4652-4720'
30-30-30-30"
IF: 2.75"
ISI: NO bb
FF: No Blow
NO bb

Rec: 58' M
w/ Oil show

IFP: 43-44#
FFP: 44-45#
SIP: 405-280#

Arcadian Resources, LLC
Vallin #2- 1
2- 5S-37W
Cheyenne County, KS

KB: 3404'

RTD: 4982'
LTD: 4982'