

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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DRILL STEM TEST REPORT

Prepared For: **Arcadian Resources LLC**

313 E Kansas Street
Glen Elder, KS 67446

ATTN: Sean Deenihan

C.S.K. #2-2

2-5S-37W Cheyenne,KS

Start Date: 2023.12.18 @ 04:10:00

End Date: 2023.12.18 @ 10:50:09

Job Ticket #: 70043 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.12.21 @ 11:04:16



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Arcadian Resources LLC

2-5S-37W Cheyenne, KS

313 E Kansas Street
Glen Elder, KS 67446

C.S.K. #2-2

ATTN: Sean Deenihan

Job Ticket: 70043

DST#: 1

Test Start: 2023.12.18 @ 04:10:00

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:36:30

Time Test Ended: 10:50:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

Interval: 4448.00 ft (KB) To 4494.00 ft (KB) (TVD)

Reference Elevations: 3409.00 ft (KB)

Total Depth: 4494.00 ft (KB) (TVD)

3402.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8734 Outside

Press@RunDepth: 44.91 psig @ 4449.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.12.18

End Date:

2023.12.18

Last Calib.: 2023.12.18

Start Time: 04:10:01

End Time:

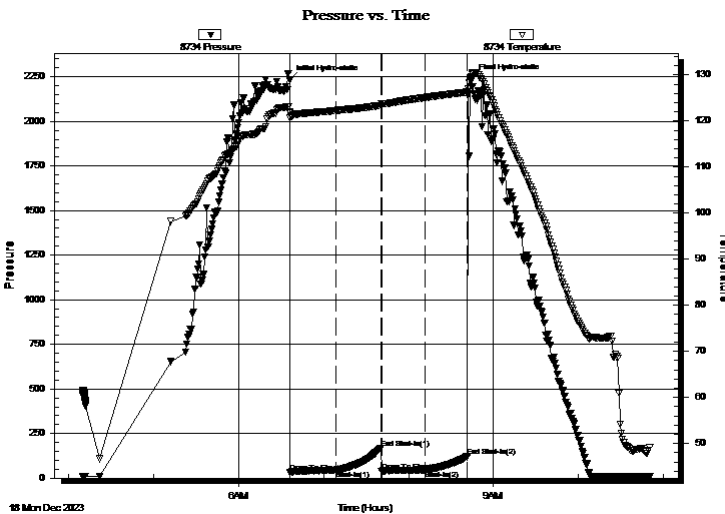
10:50:10

Time On Btm: 2023.12.18 @ 06:36:20

Time Off Btm: 2023.12.18 @ 08:44:50

TEST COMMENT: 30-IF-Blow built to 1 3/4"
30-ISI-No return
30-FF-Blow built to 1 1/2"
30-FSI-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2231.30	121.88	Initial Hydro-static
1	32.45	120.76	Open To Flow (1)
33	42.82	122.27	Shut-In(1)
64	170.12	123.41	End Shut-In(1)
65	36.80	123.64	Open To Flow (2)
96	44.91	125.11	Shut-In(2)
126	121.33	126.29	End Shut-In(2)
129	2237.41	130.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	HOCM 25%O, 75%M	0.28

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 Street
Glen Elder, KS 67446

C.S.K. #2-2

Job Ticket: 70043

DST#: 1

ATTN: Sean Deenihan

Test Start: 2023.12.18 @ 04:10:00

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:36:30

Time Test Ended: 10:50:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

Interval: 4448.00 ft (KB) To 4494.00 ft (KB) (TVD)

Total Depth: 4494.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3409.00 ft (KB)

3402.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8959 Inside

Press@RunDepth: psig @ 4449.00 ft (KB)

Start Date: 2023.12.18

End Date:

2023.12.18

Start Time: 04:10:01

End Time:

10:50:00

Capacity: 8000.00 psig

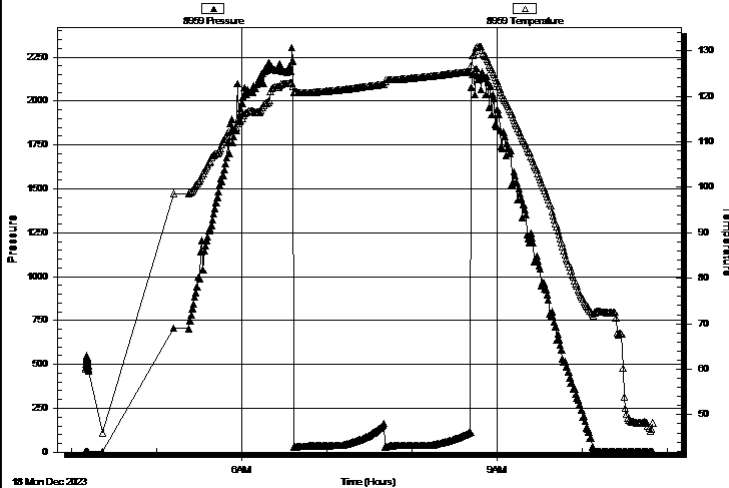
Last Calib.: 2023.12.18

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-Blow built to 1 3/4"
30-ISI-No return
30-FF-Blow built to 1 1/2"
30-FSI-No return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
40.00	HOCM 25%O, 75%M	0.28

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 Street
Glen Elder, KS 67446

C.S.K. #2-2

Job Ticket: 70043

DST#: 1

ATTN: Sean Deenihan

Test Start: 2023.12.18 @ 04:10:00

Tool Information

Drill Pipe:	Length: 4407.00 ft	Diameter: 3.80 inches	Volume: 61.82 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: 96000.00 lb
			<u>Total Volume: 61.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4448.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	79.00 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			4416.00	
Shut In Tool	5.00			4421.00	
Hydraulic tool	5.00	1113		4426.00	
Jars	5.00	01-07		4431.00	
EM Tool	5.00			4436.00	
Safety Joint	3.00	-001		4439.00	
Packer	5.00			4444.00	33.00 Bottom Of Top Packer
Packer	4.00			4448.00	
Stubb	1.00			4449.00	
Recorder	0.00	8959	Inside	4449.00	
Recorder	0.00	8734	Outside	4449.00	
Perforations	6.00			4455.00	
Change Over Sub	1.00			4456.00	
Drill Pipe	32.00			4488.00	
Change Over Sub	1.00			4489.00	
Bullnose	5.00			4494.00	46.00 Bottom Packers & Anchor
Total Tool Length:	79.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Arcadian Resources LLC

2-5S-37W Cheyenne,KS

313 E Kansas Street
Glen Elder, KS 67446

C.S.K. #2-2

Job Ticket: 70043

DST#: 1

ATTN: Sean Deenihan

Test Start: 2023.12.18 @ 04:10:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	HOCM 25%O, 75%M	0.279

Total Length: 40.00 ft Total Volume: 0.279 bbl

Num Fluid Samples: 0

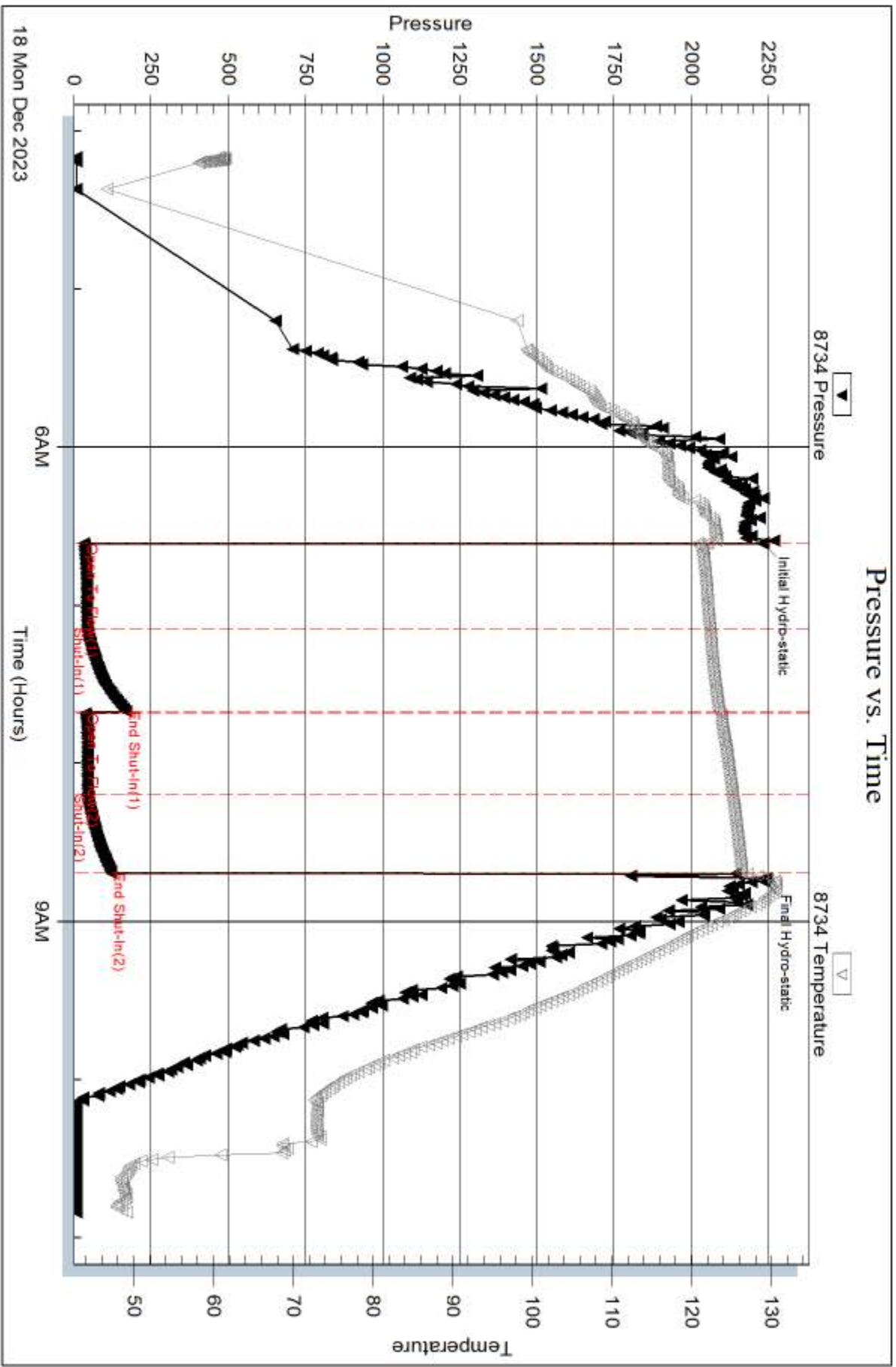
Num Gas Bombs: 0

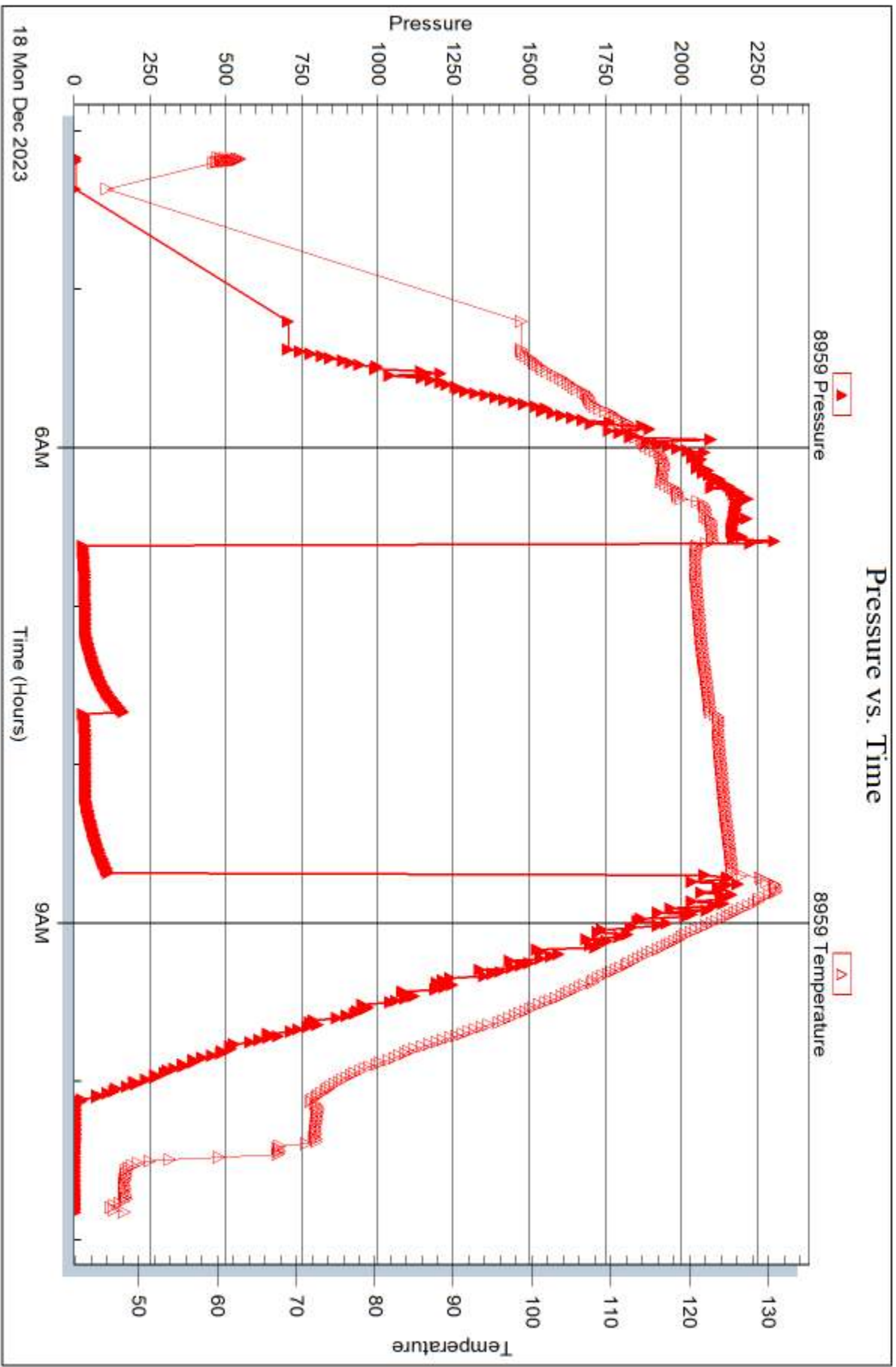
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Arcadian Resources LLC**

313 E Kansas Street
Glen Elder, KS 67446

ATTN: Sean Deenihan

C.S.K. #2-2

2-5S-37W Cheyenne,KS

Start Date: 2023.12.19 @ 01:00:00

End Date: 2023.12.19 @ 07:13:20

Job Ticket #: 70044 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.12.21 @ 10:32:06



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Arcadian Resources LLC

2-5S-37W Cheyenne, KS

313 E Kansas Street
Glen Elder, KS 67446

C.S.K. #2-2

Job Ticket: 70044

DST#: 2

ATTN: Sean Deenihan

Test Start: 2023.12.19 @ 01:00:00

GENERAL INFORMATION:

Formation: **" LKC K - Pawnee "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:00:10

Time Test Ended: 07:13:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 4492.00 ft (KB) To 4690.00 ft (KB) (TVD)

Reference Elevations: 3409.00 ft (KB)

Total Depth: 4690.00 ft (KB) (TVD)

3402.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8734 Outside

Press@RunDepth: 643.25 psig @ 4493.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.12.19

End Date: 2023.12.19

Last Calib.: 2023.12.19

Start Time: 01:00:01

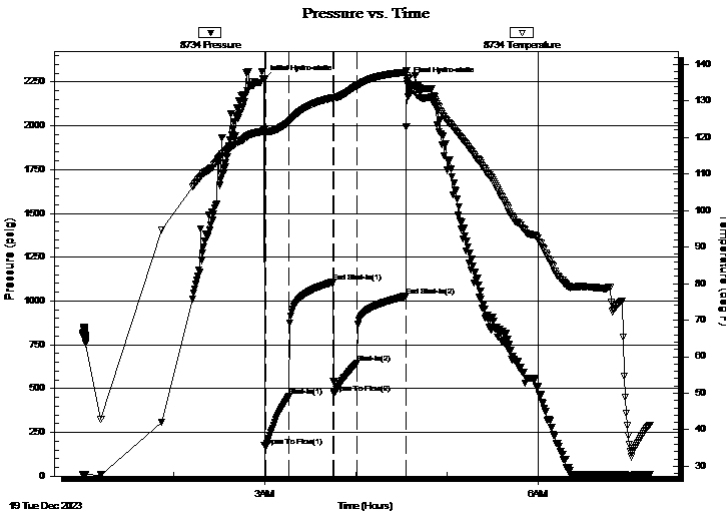
End Time: 07:13:20

Time On Btm: 2023.12.19 @ 02:59:20

Time Off Btm: 2023.12.19 @ 04:33:30

TEST COMMENT: 15-IF-B.O.B (11 inches) @ 1 mins (Blow built to 67 1/2")
30-ISI-No return
15-FF-B.O.B @ 4 mins (Blow built to 39 1/4")
30-FSI-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2265.23	122.09	Initial Hydro-static
1	167.46	121.58	Open To Flow (1)
17	454.08	124.21	Shut-In (1)
46	1106.57	130.89	End Shut-In (1)
46	475.46	130.79	Open To Flow (2)
61	643.25	134.21	Shut-In (2)
94	1028.67	137.88	End Shut-In (2)
95	2254.69	136.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
440.00	SMCW 5%M, 95%W	5.89
490.00	GMCW 10%G, 20% M, 70%W	6.87
315.00	100% Mud	4.42

* Recovery from multiple tests

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 Street
Glen Elder, KS 67446

C.S.K. #2-2

Job Ticket: 70044

DST#: 2

ATTN: Sean Deenihan

Test Start: 2023.12.19 @ 01:00:00

GENERAL INFORMATION:

Formation: **" LKC K - Pawnee "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:00:10

Time Test Ended: 07:13:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: **4492.00 ft (KB) To 4690.00 ft (KB) (TVD)**

Total Depth: 4690.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3409.00 ft (KB)

3402.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8959 Inside

Press@RunDepth: psig @ 4493.00 ft (KB)

Start Date: 2023.12.19

End Date:

2023.12.19

Start Time: 01:00:01

End Time:

07:13:20

Capacity: 8000.00 psig

Last Calib.:

2023.12.19

Time On Btm:

Time Off Btm:

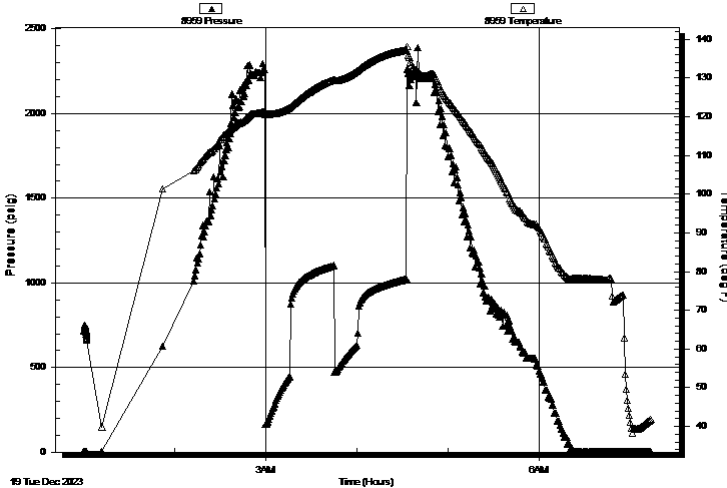
TEST COMMENT: 15-IF-B.O.B (11 inches) @ 1 mins (Blow built to 67 1/2")

30-ISI-No return

15-FF-B.O.B @ 4 mins (Blow built to 39 1/4")

30-FSI-No return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
440.00	SMCW 5%M, 95%W	5.89
490.00	GMCW 10%G, 20% M, 70%W	6.87
315.00	100% Mud	4.42

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 Street
Glen Elder, KS 67446

C.S.K. #2-2

Job Ticket: 70044

DST#: 2

ATTN: Sean Deenihan

Test Start: 2023.12.19 @ 01:00:00

Tool Information

Drill Pipe:	Length: 4441.00 ft	Diameter: 3.80 inches	Volume: 62.30 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: 62.45 bbl</u>	Tool Chased	6.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	78000.00 lb
Depth to Top Packer:	4492.00 ft			Final	86000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	198.00 ft				
Tool Length:	231.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Pushed through 6' of fill, Opened tool and slid 6' to bottom

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4460.00	
Shut In Tool	5.00			4465.00	
Hydraulic tool	5.00	1113		4470.00	
Jars	5.00	01-07		4475.00	
EM Tool	5.00			4480.00	
Safety Joint	3.00	-001		4483.00	
Packer	5.00			4488.00	33.00 Bottom Of Top Packer
Packer	4.00			4492.00	
Stubb	1.00			4493.00	
Recorder	0.00	8959	Inside	4493.00	
Recorder	0.00	8734	Outside	4493.00	
Perforations	1.00			4494.00	
Change Over Sub	1.00			4495.00	
Drill Pipe	189.00			4684.00	
Change Over Sub	1.00			4685.00	
Bullnose	5.00			4690.00	198.00 Bottom Packers & Anchor
Total Tool Length:	231.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Arcadian Resources LLC

2-5S-37W Cheyenne,KS

313 E Kansas Street
Glen Elder, KS 67446

C.S.K. #2-2

Job Ticket: 70044

DST#: 2

ATTN: Sean Deenihan

Test Start: 2023.12.19 @ 01:00:00

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:

20000 ppm

Viscosity: 73.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
440.00	SMCW 5%M, 95%W	5.890
490.00	GMCW 10%G, 20% M, 70%W	6.873
315.00	100% Mud	4.419

Total Length: 1245.00 ft Total Volume: 17.182 bbl

Num Fluid Samples: 0

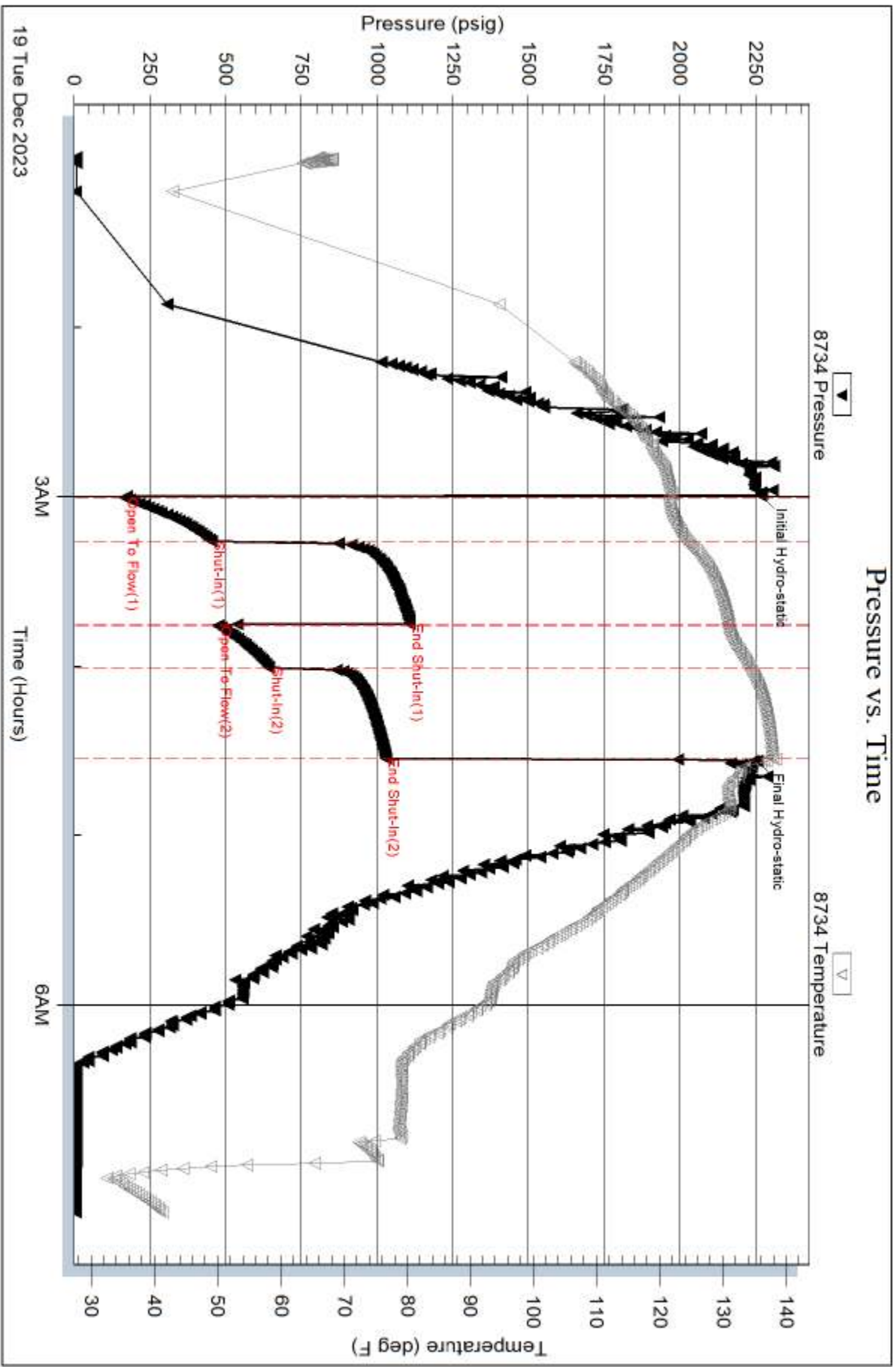
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .481 @ 50.5 degs= 20,000PPM



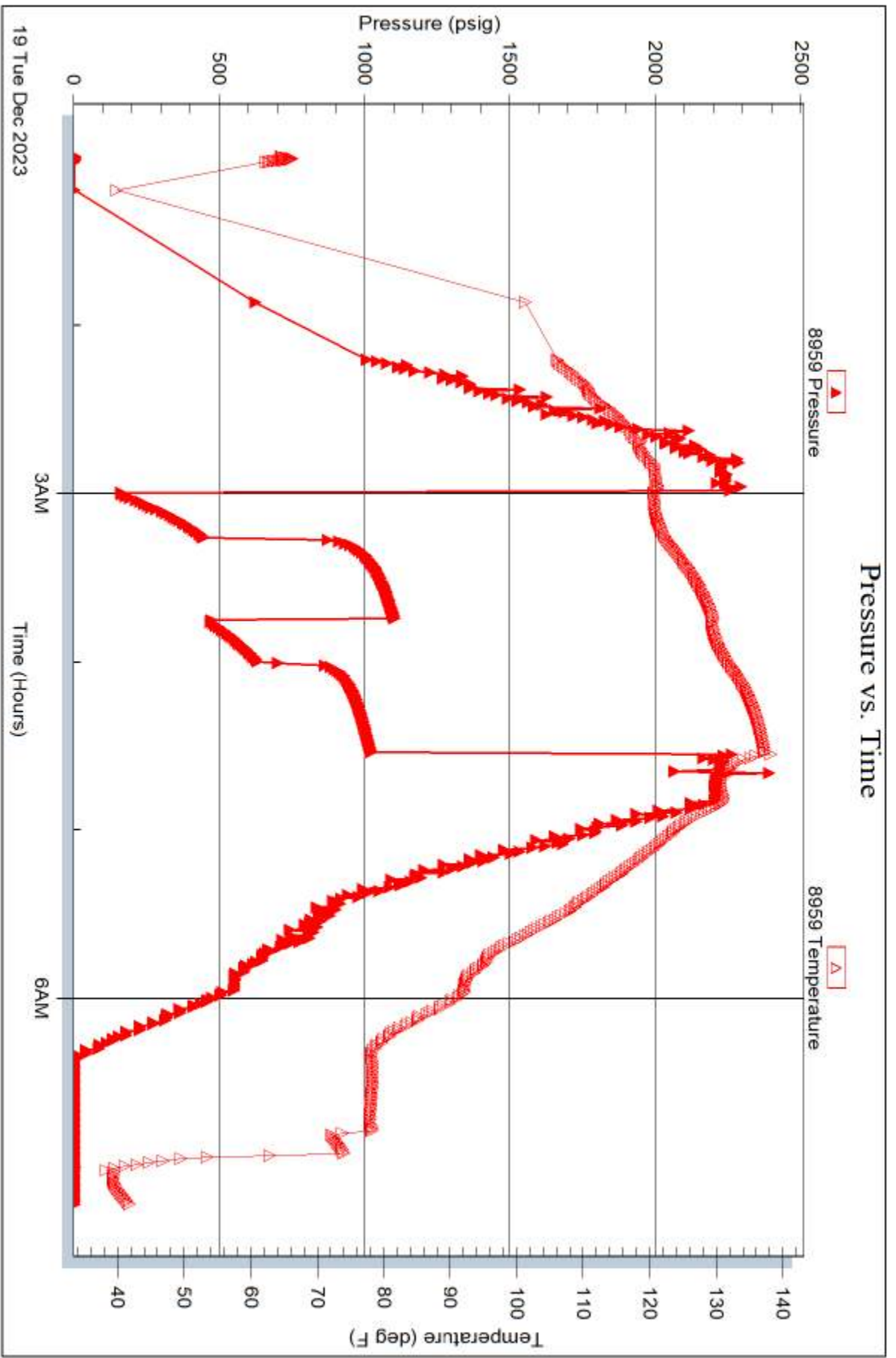
Serial #: 8959

Inside

Arcadian Resources LLC

C.S.K.#2:2

DST Test Number: 2



Trilobe Testing, Inc

Ref. No: 70044

Printed: 2023.12.21 @ 10:32:07



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70043

Well Name & No. C.S.K #2-2 Test No. 1 Date 12-18-23
 Company Arcadian Resources LLC Elevation 3409 KB 3402 GL
 Address 313 E Kansas Street Glen Elder, KS 67446
 Co. Rep / Geo Sean Desjardins Rig Double D's #5
 Location: Sec. 2 Twp SE. Rge. 37W. Co. Cheyenne State KS.

Interval Tested 4448-4494 Zone Tested Lansing "J"
 Anchor Length 46' Drill Pipe Run 4407 Mud Wt. 9.1
 Top Packer Depth 4443 Drill Collars Run 31 Vis 56
 Bottom Packer Depth 4448 Wt. Pipe Run — WL 7.6
 Total Depth 4494 Chlorides 700 ppm System LCM 3#

Blow Description IF - Blow built to 1 3/4"
ISE - No return.
FF - Blow built to 1 1/2"
FST - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>HSCM</u>	<u>25</u>		<u>75</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 40 BHT 130 Gravity — API RW — @ — *F Chlorides — ppm

Initial Hydrostatic 2231 Test 1950 Ruined Shale Packer
 Initial Flow 32 to 43 Jars 300 Ruined Packer (Bottom) 460
 Initial Shut-In 170 Circ Sub — Hotel
 Final Flow 37 to 45 Hourly Standby — EM Tool Successful
 Final Shut-In 121 Mileage 224RT 59mi 103.25 Accessibility
 Final Hydrostatic 2237 Sampler 43mi 75.25 Gas Sample
 T- On Location 02:45 Straddle — Sub Total 460
 Initial Flow 30 T-Started 04:10 Shale Packer — Total 2888.50
 Initial Shut-In 30 T-Open 06:37 Extra Packer — Tool Loaded — @ —
 Final Flow 30 T-Pulled 08:37 Extra Recorder — MP/DST Disc't
 Final Shut-In 30 T-Out 10:50 Day Standby —

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. 70044

Well Name & No. C.S.K. #23 Test No. 2 Date 12-19-23
 Company Arcadian Resources LLC Elevation 3409 KB 3402 GL
 Address 313 E Kansas Street Glen Elder, KS 67446
 Co. Rep / Geo Sean Deshahan Rig Double D's #3
 Location: Sec. 2 Twp 5S Rge 37W Co. Clayenne State KS

Interval Tested 4492 - 4690 Zone Tested Lansing "K" - Powder
 Anchor Length 198 Drill Pipe Run 4441 Mud Wt. 9.1
 Top Packer Depth 4487 Drill Collars Run 31 Vis 73
 Bottom Packer Depth 4492 Wt. Pipe Run — WL 8.8
 Total Depth 4690 Chlorides 800 ppm System LCM 4#

Blow Description IF - B.O.B (11 inches) @ 1 min (blow built to 67 1/2")
ISI - No return.
FF - B.O.B @ 4 mins (blow built to 39 1/4")
FSI - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>440</u>	<u>SMCW</u>		<u>95</u>	<u>5</u>	
<u>490</u>	<u>GMCW</u>	<u>10</u>	<u>70</u>	<u>20</u>	
<u>315</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	Feet of	%gas	%oil	%water	%mud

Rec Total 1245 BHT 137 Gravity — API RW .481 @ 50.5 °F Chlorides 20,000 ppm
 Initial Hydrostatic 2265 Test 1950 Ruined Shale Packer
 Initial Flow 167 to 454 Jars 300 Ruined Packer
 Initial Shut-In 1107 Circ Sub Hotel
 Final Flow 475 to 643 Hourly Standby EM Tool Successful
 Final Shut-In 1029 Mileage SBRT F/Hotel Accessibility
 Final Hydrostatic 2255 Sampler 150.50 + 75.25 + 103.25 Gas Sample
 T-On Location 00:30 Straddle Sub Total 0
 Initial Flow 15 T-Started 01:00 Shale Packer Total 2579
 Initial Shut-In 30 T-Open 03:00 Extra Packer Tool Loaded 12-10 @ 06:15
 Final Flow 15 T-Pulled 04:30 Extra Recorder MP/DST Disc't
 Final Shut-In 30 T-Out 07:14 Day Standby

Comments Pushed through 6' of fill, opened tool & slid 6' to bottom.

Approved By _____ Our Representative A. Peterson

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Sean Deenihan

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **Arcadian Resources, LLC**
 LEASE **C.S.K. #2-2**

ELEVATIONS
 KB 3407'

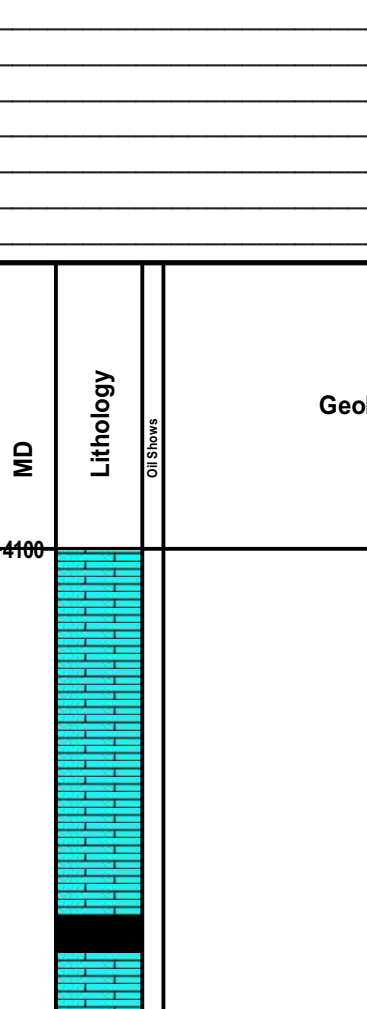
FIELD
 LOCATION **340' FSL & 1620' FWL**
 SEC **2** TWPSP **5S** RGE **37W**
 COUNTY **Cheyenne** STATE **Kansas**

CONTRACTOR **Double D Drilling**
 SPUD **12/8/23** COMP **12/20/23**
 RTD **4979'** LTD **4982'**
 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
 SURFACE **8-5/8"** at 354'
 PRODUCTION
 ELECTRICAL SURVEYS
 REFERENCE WELL **CND/DIL**

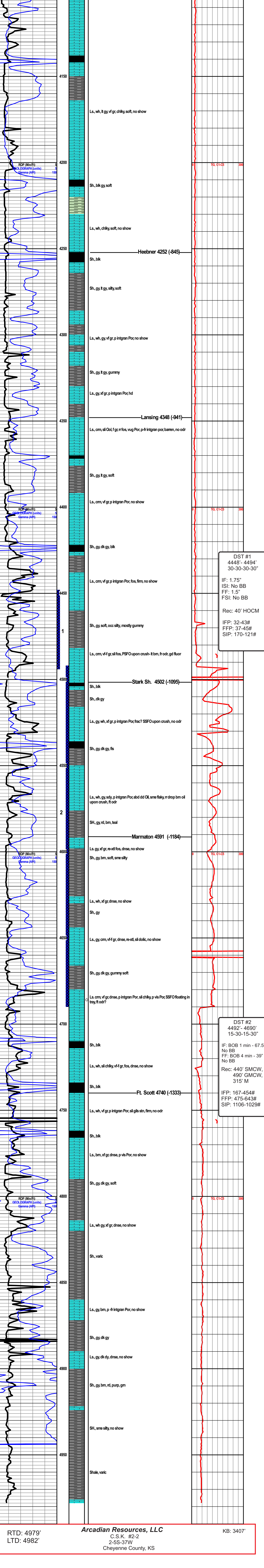
Formation	Sample Tops	E-log Tops	Struct. Fes.
Heebner Sh.		4252 (-845)	
Lansing		4348 (-941)	
Stark Shale		4502 (-1095)	
Marmaton		4591 (-1184)	
Ft. Scott		4740 (-1333)	



REMARKS The CSK #2-2 had negative DST results and poor sample shows. Therefore, the decision was made to plug this hole.

Respectfully Submitted,

Sean P. Deenihan



RTD: 4979'
 LTD: 4982'

Arcadian Resources, LLC
 C.S.K. #2-2
 2-5S-37W
 Cheyenne County, KS

KB: 3407'



CEMENT TREATMENT REPORT

Customer:	ARCADIAN RESOURCES	Well:	CSK 2-2	Ticket:	WP 4991
City, State:	BIRD CITY,KS	County:	CHEYENNE,KS	Date:	12/13/2023
Field Rep:	BRAD PARKER	S-T-R:	SEC 2-5S-37W	Service:	SURFACE

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	354.82 ft
Casing Size:	8 5/8 in
Casing Depth:	352 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	19.0 bbls

Calculated Slurry - Lead	
Blend:	H-325
Weight:	14.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.41 ft ³ / sx
Annular Bbls / Ft.:	0.0735 bbs / ft.
Depth:	354.82 ft
Annular Volume:	26.1 bbls
Excess:	
Total Slurry:	65.0 bbls
Total Sacks:	260 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

TIME	RATE	PSI	STAGE	TOTAL	REMARKS
			BBLs	BBLs	
8:30 AM			-	-	ARRIVE ON LOCATION
8:32 AM					RIG UP SAFETY MEETING
10:05 AM	3.0	140.0	5.0	5.0	5BBL OF FW SPACER
10:08 AM	5.0	200.0	65.0	70.0	PUMP 65BBL CMT H-325 260 SKS
10:23 AM	5.0	120.0	19.0	89.0	DISPLACEMENT 8.34 19BBL
10:30 AM				89.0	WASH UP PUMP
10:45 AM				89.0	RIG DOWN
11:00 AM				89.0	DEPART LOCATION
				89.0	
				89.0	
				89.0	
				89.0	

CREW		UNIT	SUMMARY		
Cementer:	ROGER GASTON	945	Average Rate	Average Pressure	Total Fluid
Pump Operator:	JOSE V	208	4.3 bpm	153 psi	89 bbls
Bulk #1:	JOSE T	180-250			
Bulk #2:					

Hurricane Services, Inc.
 250 N. Water St., Suite #200
 Wichita, KS 67202



Customer		ARCADIAN RESOURCES	Lease & Well #	CSK 2-2	Date	12/13/2023
Service District		OAKLEY, KS	County & State	CHEYENNE, KS	Legals S/T/R	SEC 2-5S-37W
Job Type		SURFACE	<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	Ticket #
Equipment #		Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
945		ROGER GASTON	<input checked="" type="checkbox"/> Hard hat <input checked="" type="checkbox"/> Gloves <input type="checkbox"/> Lockout/Tagout <input checked="" type="checkbox"/> Warning Signs & Flagging			
208		JOSE V	<input checked="" type="checkbox"/> H2S Monitor <input checked="" type="checkbox"/> Eye Protection <input type="checkbox"/> Required Permits <input type="checkbox"/> Fall Protection			
180-250		JOSE T	<input checked="" type="checkbox"/> Safety Footwear <input type="checkbox"/> Respiratory Protection <input checked="" type="checkbox"/> Slip/Trip/Fall Hazards <input type="checkbox"/> Specific Job Sequence/Expectations			
			<input checked="" type="checkbox"/> FRC/Protective Clothing <input type="checkbox"/> Additional Chemical/Acid PPE <input checked="" type="checkbox"/> Overhead Hazards <input checked="" type="checkbox"/> Muster Point/Medical Locations			
			<input checked="" type="checkbox"/> Hearing Protection <input checked="" type="checkbox"/> Fire Extinguisher <input type="checkbox"/> Additional concerns or issues noted below			
Comments						
Product/ Service Code						
	Description	Unit of Measure	Quantity			Net Amount
CP015	H-325	sack	260.00			\$5,850.00
M015	Light Equipment Mileage	mi	130.00			\$260.00
M010	Heavy Equipment Mileage	mi	130.00			\$520.00
M020	Ton Mileage	tm	796.00			\$1,194.00
D010	Depth Charge: 0'-500'	job	1.00			\$1,000.00
C060	Cement Blending & Mixing Service	sack	260.00			\$364.00
C035	Cement Data Acquisition	job	1.00			\$250.00
R061	Service Supervisor	day	1.00			\$275.00
Customer Section: On the following scale how would you rate Hurricane Services Inc. ?				Net: \$9,713.00 Total Taxable \$ - Tax Rate: State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.		
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"/>				Sale Tax: \$ - Total: \$ 9,713.00		
Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely				HSI Representative: <i>B.D.</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**