

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 Recompletion Date _____ 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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Form	ACO1 - Well Completion
Operator	Arcadian Resources, LLC
Well Name	JERONE 1-31
Doc ID	1457524

Tops

Name	Top	Datum
Anhydrite	2726	409
Anhydrite Base	2756	379
Topeka	3888	-753
Heebner Shale	4088	-953
Toronto	4112	-977
Lansing	4128	-993
Stark Shale	4338	-1203
Base KC	4401	-1266
Marmaton	4422	-1287
Altamont "A"	4447	-1312
Pawnee	4529	-1394
Myrick Station	4560	-1425
Fort Scott	4588	-1453
Cherokee Shale	4619	-1484
Johnson	4654	-1519
Mississippian	4706	-1571
Driller Depth	4787	-1650
Log Depth	4790	-1653



DRILL STEM TEST REPORT

Prepared For: **Arcadian Resources, LLC**

1302 Olive St.
Concordia, KS 66901

ATTN: Jeremy Schuartz

Jerone #1-31

31-8s-32w Thomas,KS

Start Date: 2018.10.13 @ 20:30:00

End Date: 2018.10.14 @ 03:50:30

Job Ticket #: 64342 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.10.22 @ 10:15:23



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Arcadian Resources, LLC

31-8s-32w Thomas,KS

1302 Olive St.
Concordia, KS 66901

Jerone #1-31

Job Ticket: 64342

DST#: 1

ATTN: Jeremy Schuartz

Test Start: 2018.10.13 @ 20:30:00

GENERAL INFORMATION:

Formation: **LKC I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:20:30

Time Test Ended: 03:50:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: 4283.00 ft (KB) To 4242.00 ft (KB) (TVD)

Reference Elevations: 3135.00 ft (KB)

Total Depth: 4242.00 ft (KB) (TVD)

3127.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8319

Inside

Press@RunDepth: 23.92 psig @ 4284.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.10.13

End Date:

2018.10.14

Last Calib.: 2018.10.14

Start Time: 20:30:05

End Time:

03:50:29

Time On Btm: 2018.10.13 @ 23:20:00

Time Off Btm: 2018.10.14 @ 01:21:30

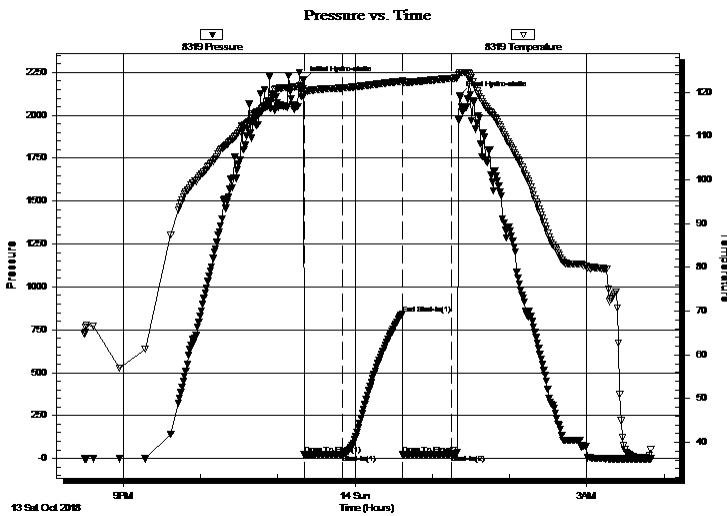
TEST COMMENT: IF: 1/4" blow, receded to Surface.

IS: No return.

FF: No blow.

FS: Pulled test.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2200.75	120.78	Initial Hydro-static
1	22.14	119.47	Open To Flow (1)
30	23.92	120.96	Shut-In(1)
77	843.48	122.53	End Shut-In(1)
78	24.59	122.30	Open To Flow (2)
115	25.15	123.15	Shut-In(2)
122	2112.96	124.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Arcadian Resources, LLC

31-8s-32w Thomas,KS

1302 Olive St.
Concordia, KS 66901

Jerone #1-31

Job Ticket: 64342

DST#: 1

ATTN: Jeremy Schuartz

Test Start: 2018.10.13 @ 20:30:00

Tool Information

Drill Pipe:	Length: 4138.00 ft	Diameter: 3.80 inches	Volume: 58.05 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 58.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4283.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	89.00 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			4254.00	
Shut In Tool	5.00			4259.00	
Hydraulic tool	5.00			4264.00	
Jars	5.00			4269.00	
EM Tool	3.00			4272.00	
Safety Joint	2.00			4274.00	
Packer	5.00			4279.00	30.00 Bottom Of Top Packer
Packer	4.00			4283.00	
Stubb	1.00			4284.00	
Recorder	0.00	8319	Inside	4284.00	
Recorder	0.00	8522	Outside	4284.00	
Perforations	22.00			4306.00	
Change Over Sub	1.00			4307.00	
Drill Pipe	31.00			4338.00	
Change Over Sub	1.00			4339.00	
Bullnose	3.00			4342.00	59.00 Bottom Packers & Anchor
Total Tool Length:	89.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Arcadian Resources, LLC

31-8s-32w Thomas,KS

1302 Olive St.
Concordia, KS 66901

Jerone #1-31

Job Ticket: 64342

DST#: 1

ATTN: Jeremy Schuartz

Test Start: 2018.10.13 @ 20:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 0.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

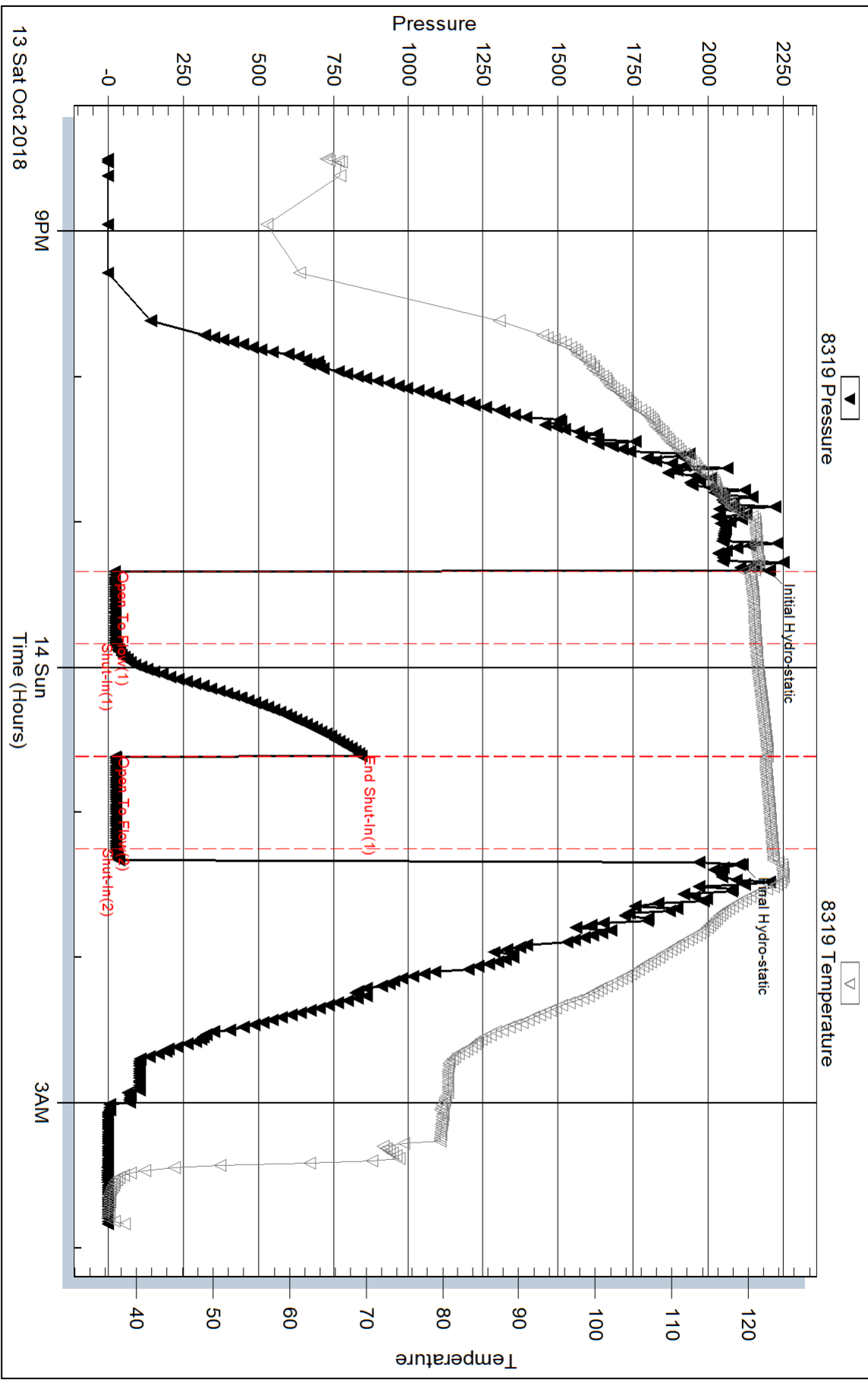
Serial #:

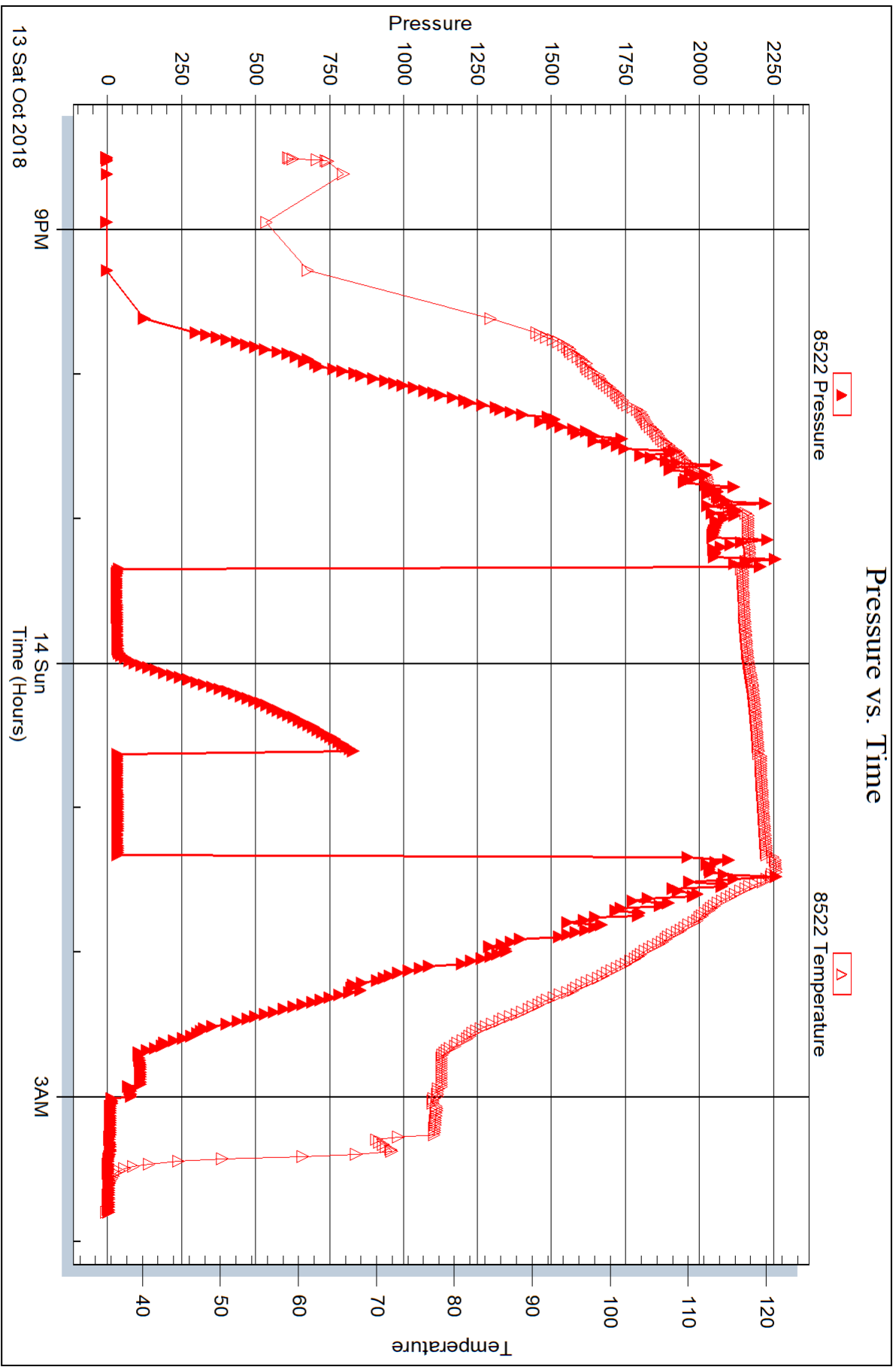
Laboratory Name:

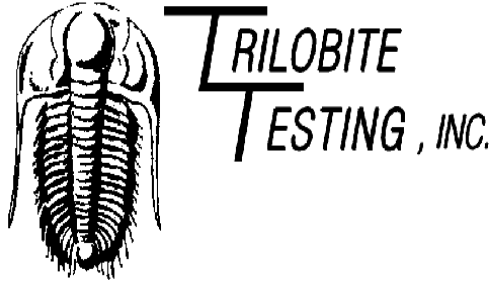
Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Arcadian Resources, LLC**

1302 Olive St.
Concordia, KS 66901

ATTN: Jeremy Schuartz

Jerone #1-31

31-8s-32w Thomas,KS

Start Date: 2018.10.15 @ 03:45:00

End Date: 2018.10.15 @ 11:06:30

Job Ticket #: 64343 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.10.22 @ 10:14:40



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Arcadian Resources, LLC

31-8s-32w Thomas,KS

1302 Olive St.
Concordia, KS 66901

Jerone #1-31

Job Ticket: 64343

DST#: 2

ATTN: Jeremy Schuartz

Test Start: 2018.10.15 @ 03:45:00

GENERAL INFORMATION:

Formation: **Altamont C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:11:45

Time Test Ended: 11:06:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4463.00 ft (KB) To 4512.00 ft (KB) (TVD)

Reference Elevations: 3135.00 ft (KB)

Total Depth: 4512.00 ft (KB) (TVD)

3127.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8522 Outside

Press@RunDepth: 36.71 psig @ 4464.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.10.15

End Date:

2018.10.15

Last Calib.: 2018.10.15

Start Time: 03:45:05

End Time:

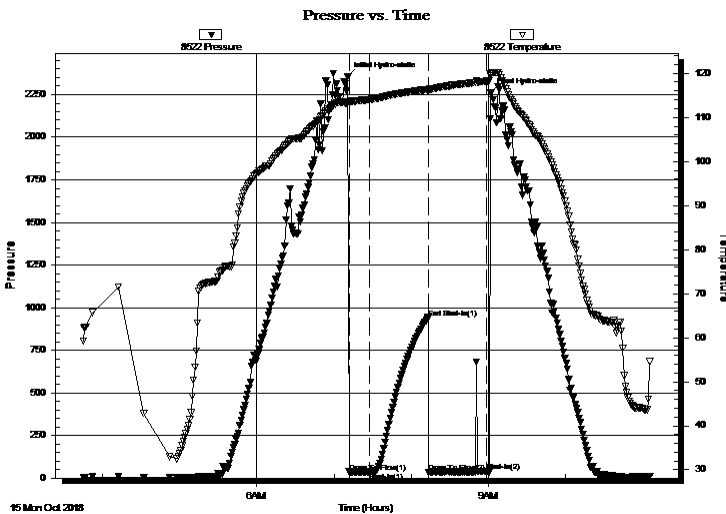
11:06:29

Time On Btm: 2018.10.15 @ 07:10:45

Time Off Btm: 2018.10.15 @ 09:02:00

TEST COMMENT: IF: 3/4" blow .
IS: No return.
FF: No blow .
Pulled test

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2356.31	113.45	Initial Hydro-static
1	36.07	113.59	Open To Flow (1)
17	36.71	114.04	Shut-In(1)
63	942.25	116.37	End Shut-In(1)
63	34.55	115.83	Open To Flow (2)
109	40.17	118.22	Shut-In(2)
112	2260.21	120.01	Final Hydro-static

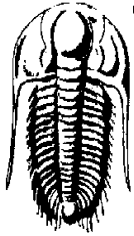
Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100m	0.05

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

31-8s-32w Thomas,KS

1302 Olive St.
Concordia, KS 66901

Jerone #1-31

Job Ticket: 64343

DST#: 2

ATTN: Jeremy Schuartz

Test Start: 2018.10.15 @ 03:45:00

Tool Information

Drill Pipe:	Length: 4327.00 ft	Diameter: 3.80 inches	Volume: 60.70 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 61.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4463.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 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			4434.00	
Shut In Tool	5.00			4439.00	
Hydraulic tool	5.00			4444.00	
Jars	5.00			4449.00	
EM Tool	3.00			4452.00	
Safety Joint	2.00			4454.00	
Packer	5.00			4459.00	30.00 Bottom Of Top Packer
Packer	4.00			4463.00	
Stubb	1.00			4464.00	
Recorder	0.00	8319	Inside	4464.00	
Recorder	0.00	8522	Outside	4464.00	
Perforations	12.00			4476.00	
Change Over Sub	1.00			4477.00	
Drill Pipe	31.00			4508.00	
Change Over Sub	1.00			4509.00	
Bullnose	3.00			4512.00	49.00 Bottom Packers & Anchor
Total Tool Length:	79.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Arcadian Resources, LLC

31-8s-32w Thomas,KS

1302 Olive St.
Concordia, KS 66901

Jerone #1-31

Job Ticket: 64343

DST#: 2

ATTN: Jeremy Schuartz

Test Start: 2018.10.15 @ 03:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 0.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

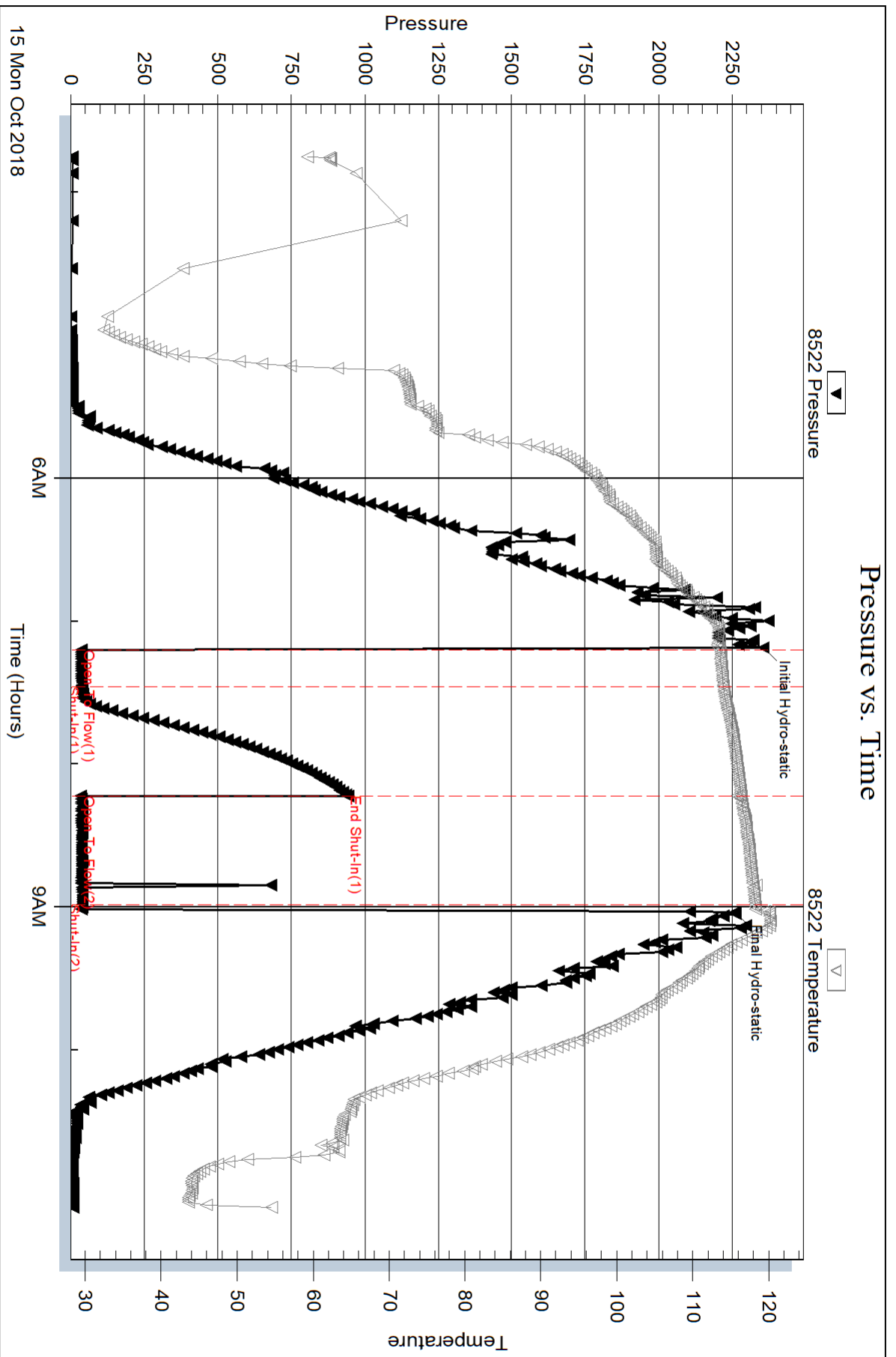
Num Gas Bombs: 0

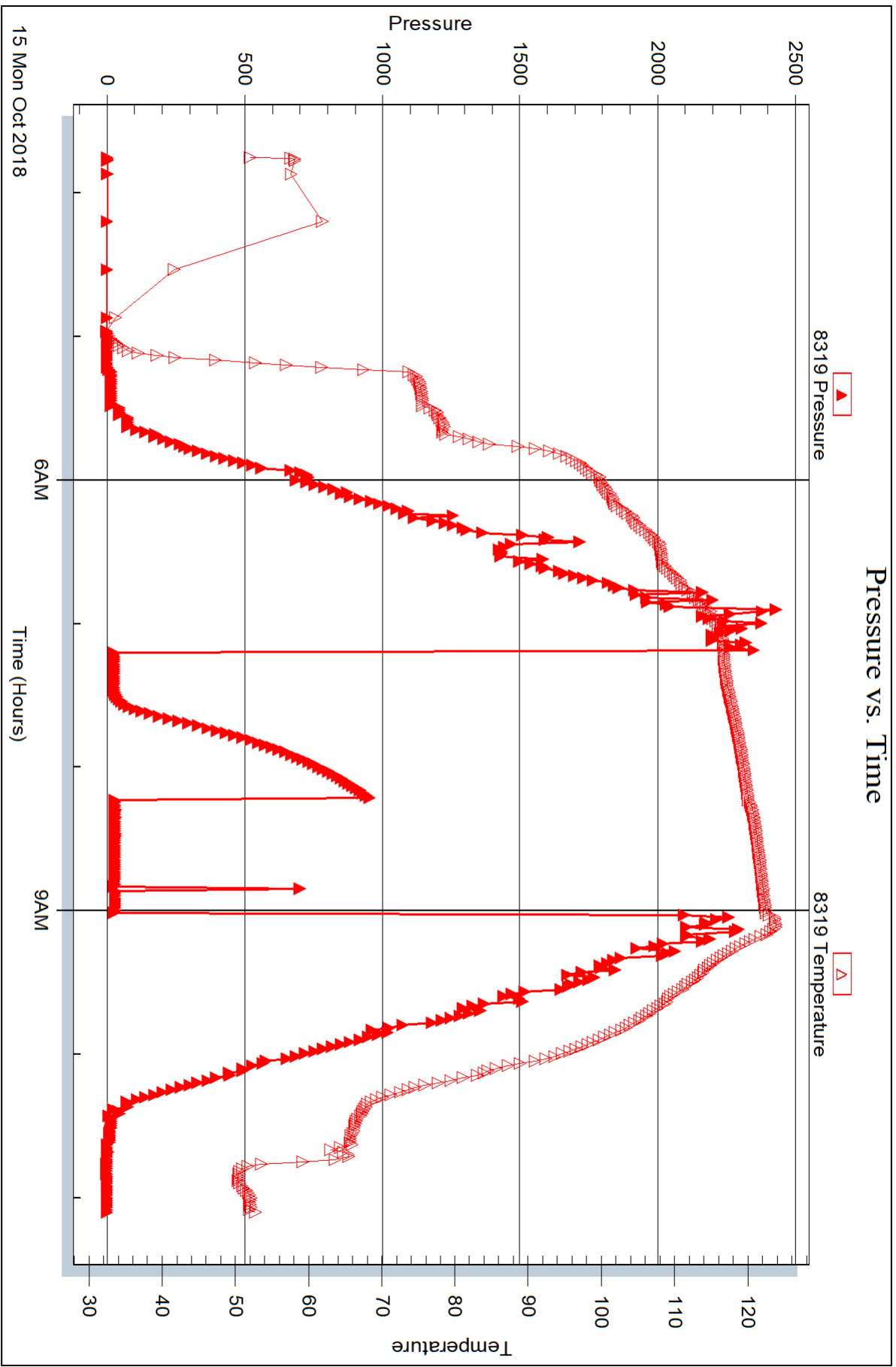
Serial #:

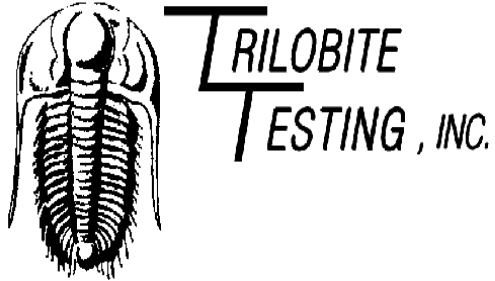
Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Arcadian Resources, LLC**

1302 Olive St.
Concordia, KS 66901

ATTN: Jeremy Schuartz

Jerone #1-31

31-8s-32w Thomas,KS

Start Date: 2018.10.16 @ 11:37:00

End Date: 2018.10.16 @ 19:34:30

Job Ticket #: 64343 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.10.22 @ 10:14:15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Arcadian Resources, LLC

31-8s-32w Thomas,KS

1302 Olive St.
Concordia, KS 66901

Jerone #1-31

Job Ticket: 64343

DST#: 3

ATTN: Jeremy Schuartz

Test Start: 2018.10.16 @ 11:37:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:43:15

Time Test Ended: 19:34:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4637.00 ft (KB) To 4675.00 ft (KB) (TVD)

Reference Elevations: 3135.00 ft (KB)

Total Depth: 4675.00 ft (KB) (TVD)

3127.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8522 Outside

Press@RunDepth: 38.31 psig @ 4638.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.10.16

End Date:

2018.10.16

Last Calib.: 2018.10.16

Start Time: 11:37:05

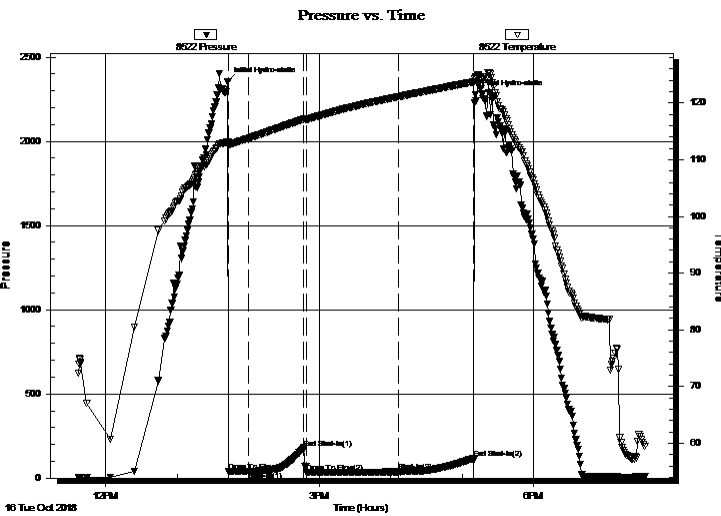
End Time:

19:34:29

Time On Btm: 2018.10.16 @ 13:42:45

Time Off Btm: 2018.10.16 @ 17:11:00

TEST COMMENT: IF: 1/2" blow.
IS: No return.
FF: No blow.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2355.96	113.16	Initial Hydro-static
1	39.93	112.56	Open To Flow (1)
18	38.29	113.74	Shut-In(1)
64	180.08	117.14	End Shut-In(1)
67	34.63	117.05	Open To Flow (2)
144	38.31	121.08	Shut-In(2)
207	117.19	123.68	End Shut-In(2)
209	2278.27	124.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m	0.02

* 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

31-8s-32w Thomas,KS

1302 Olive St.
Concordia, KS 66901

Jerone #1-31

Job Ticket: 64343

DST#: 3

ATTN: Jeremy Schuartz

Test Start: 2018.10.16 @ 11:37:00

Tool Information

Drill Pipe:	Length: 4520.00 ft	Diameter: 3.80 inches	Volume: 63.40 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 63.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4637.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	68.00 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			4608.00	
Shut In Tool	5.00			4613.00	
Hydraulic tool	5.00			4618.00	
Jars	5.00			4623.00	
EM Tool	3.00			4626.00	
Safety Joint	2.00			4628.00	
Packer	5.00			4633.00	30.00 Bottom Of Top Packer
Packer	4.00			4637.00	
Stubb	1.00			4638.00	
Recorder	0.00	8319	Inside	4638.00	
Recorder	0.00	8522	Outside	4638.00	
Perforations	2.00			4640.00	
Change Over Sub	0.50			4640.50	
Drill Pipe	31.00			4671.50	
Change Over Sub	0.50			4672.00	
Bullnose	3.00			4675.00	38.00 Bottom Packers & Anchor
Total Tool Length:	68.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Arcadian Resources, LLC

31-8s-32w Thomas,KS

1302 Olive St.
Concordia, KS 66901

Jerone #1-31

Job Ticket: 64343

DST#: 3

ATTN: Jeremy Schuartz

Test Start: 2018.10.16 @ 11:37:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 0.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

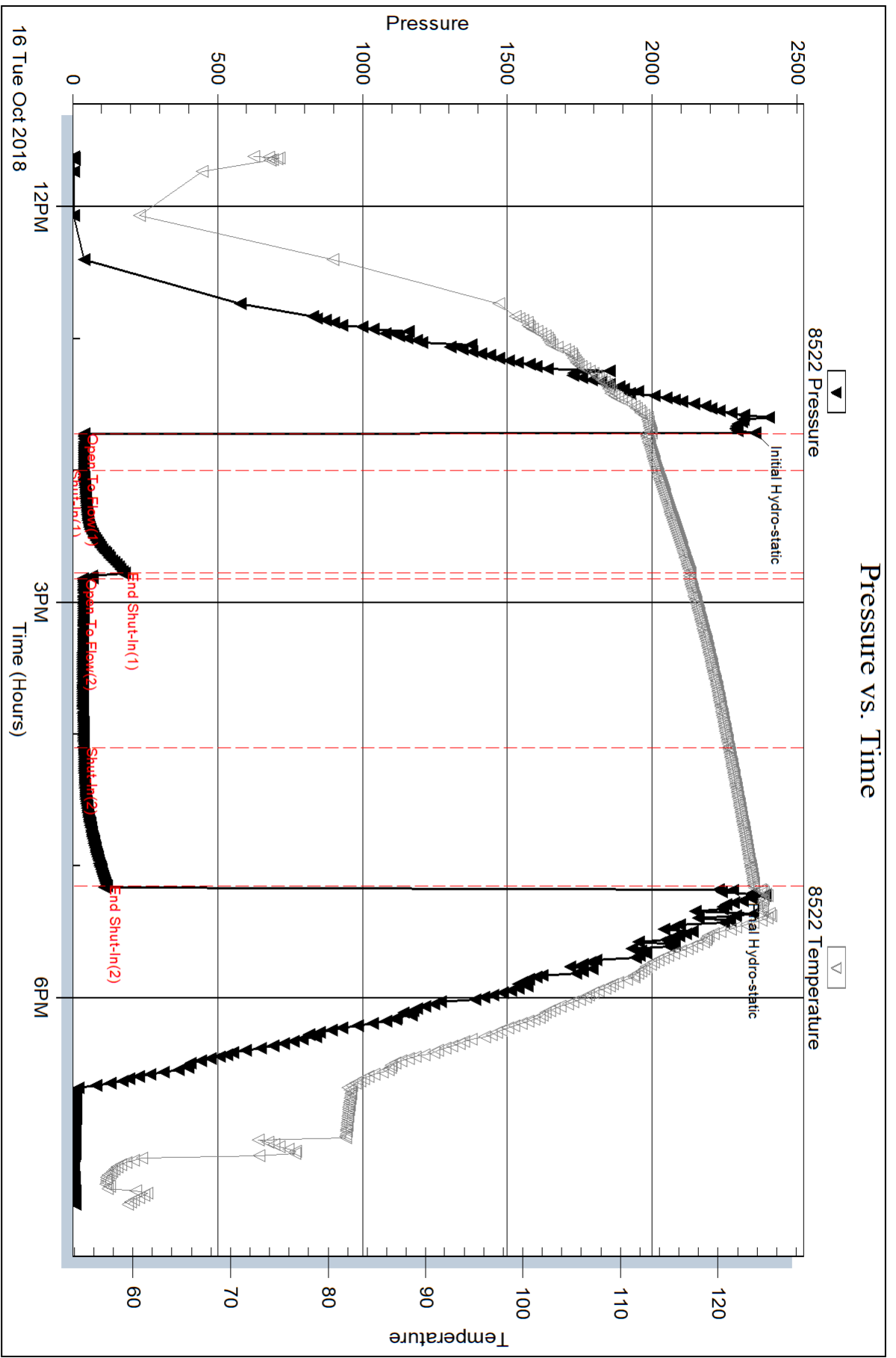
Num Gas Bombs: 0

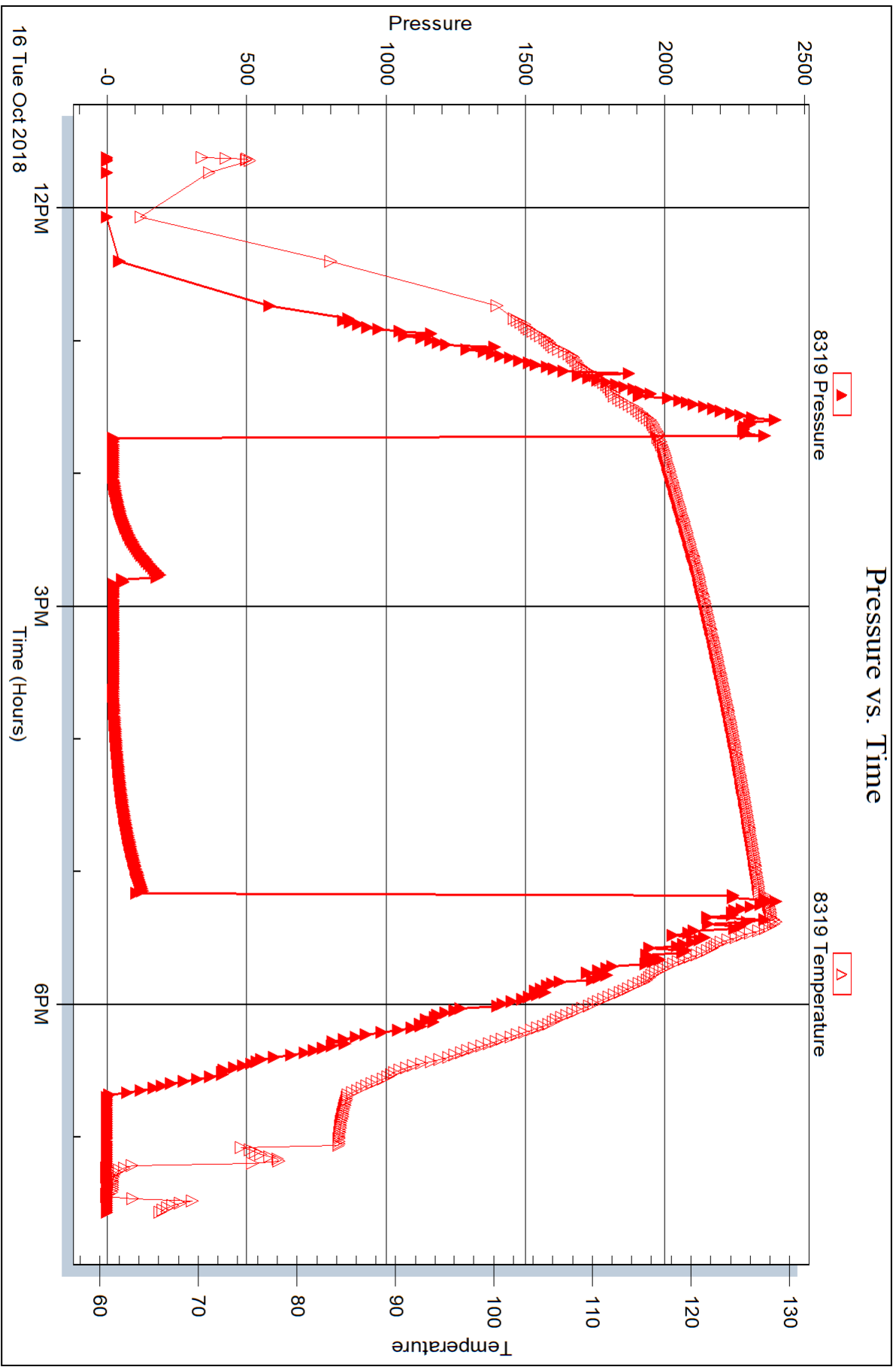
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64342**

Well Name & No. Jerone # 1-31 Test No. 1 Date 10/14/2018
 Company Arcadian Resources, LLC Elevation 3135 KB 3127 GL
 Address 1302 Olive St Concordia, Ks 66901
 Co. Rep / Geo. Jeremy Schwartz Rig STP
 Location: Sec. 31 Twp. 8s Rge. 32 W Co. Thomas State KS

Interval Tested 4283 4342 Zone Tested LKC I-J
 Anchor Length 59' Drill Pipe Run 4138 Mud Wt. 913
 Top Packer Depth 4278 ~~4283~~ Drill Collars Run 120 Vis 5.3
 Bottom Packer Depth 4283 Wt. Pipe Run 0 WL 8.8
 Total Depth 4342 Chlorides 500 ppm System LCM 2#

Blow Description IF 1/4" blow,
ISI No return
FF No blow Flushed tool
FST No return.

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

Rec Total 5 BHT 123 Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic <u>2201</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1745</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2030</u>
(C) First Final Flow <u>24</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2319</u>
(D) Initial Shut-In <u>843</u>	<input checked="" type="checkbox"/> Circ Sub <u>M/C</u>	T-Pulled <u>0110</u>
(E) Second Initial Flow <u>25</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0348</u>
(F) Second Final Flow <u>25</u>	<input checked="" type="checkbox"/> Mileage <u>129 RT 129</u>	Comments
(G) Final Shut-In	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2113</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input checked="" type="checkbox"/> Extra Recorder <u>EM 350</u>	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
Final Shut-In <u>Pulled</u>	<input type="checkbox"/> Accessibility	Total <u>1604</u>
	Sub Total <u>1604</u>	MP/DST Disc't

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64343**

Well Name & No. Jerone #1-31 Test No. 2 Date 10/15/2018
 Company Acadian Resources, LLC Elevation 3135 KB 3127 GL
 Address 1302 Olive St Concordia, Ks 66901
 Co. Rep / Geo. Jeremy Schwartz Rig STP
 Location: Sec. 31 Twp. 8s Rge. 32w Co. Thomas State Ks

Interval Tested 4463-4512 Zone Tested Altamont C
 Anchor Length 49 Drill Pipe Run 4327 Mud Wt. 9.3
 Top Packer Depth 4458 Drill Collars Run 120 Vis 57
 Bottom Packer Depth 4463 Wt. Pipe Run 8 WL 8.8
 Total Depth 4512 Chlorides 1500 ppm System LCM 2

Blow Description IF: 3/4" blow
ISI: No return.
FF: No blow
FSI: Pulled test

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

Rec Total 10 BHT 118 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2356</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0315</u>
(B) First Initial Flow <u>36</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0345</u>
(C) First Final Flow <u>37</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0712</u>
(D) Initial Shut-In <u>942</u>	<input checked="" type="checkbox"/> Circ Sub	T-Pulled <u>0905</u>
(E) Second Initial Flow <u>35</u>	<input checked="" type="checkbox"/> Hourly Standby <u>NO</u>	T-Out <u>1106</u>
(F) Second Final Flow <u>40</u>	<input checked="" type="checkbox"/> Mileage <u>129 RT</u> 129	Comments
(G) Final Shut-In <u>—</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2280</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>15</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input checked="" type="checkbox"/> Extra Recorder <u>EM Tool</u> 350	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1604</u>
Final Shut-In <u>Pulled</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1604</u>	

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64344**

Well Name & No. Jerone #1-31 Test No. 3 Date 10/16/2018
 Company Arcadian Resources, LLC Elevation 3135 KB 3127 GL
 Address 302 Olive St Concordia, Ks 66901
 Co. Rep / Geo. Jeremy Schwartz Rig STP
 Location: Sec. 31 Twp. 8s Rge. 32w Co. Thomas State Ks

Interval Tested 4637 4675 Zone Tested Johnson
 Anchor Length 39 Drill Pipe Run 5520 Mud Wt. 9.3
 Top Packer Depth 4632 Drill Collars Run 120 Vis 54
 Bottom Packer Depth 4637 Wt. Pipe Run — WL 7.6
 Total Depth 4675 Chlorides 500 ppm System LCM 2#
 Blow Description IF: 1/2" blow
ISI: No return
FF: No blow
FSI: No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>NO D 100 M</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 5 BHT 121 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2356</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1100</u>
(B) First Initial Flow <u>40</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1137</u>
(C) First Final Flow <u>38</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1322</u>
(D) Initial Shut-In <u>180</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>1705</u>
(E) Second Initial Flow <u>35</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1934</u>
(F) Second Final Flow <u>38</u>	<input checked="" type="checkbox"/> Mileage <u>129 RT + 129</u> 129+129	Comments <u>FD Tool</u>
(G) Final Shut-In <u>118</u>	<input type="checkbox"/> Sampler	<u>2300 10/17</u>
(H) Final Hydrostatic <u>2278</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input checked="" type="checkbox"/> Extra Recorder <u>EM Tool 350</u>	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1733</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1733</u>	

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ROCK TYPES



ACCESSORIES

MINERAL
△ Chert White

FOSSIL
○ Oolite
⊕ Oomoldic

STRINGER
~ Chert
▨ Dolomite
▨ Limestone
▨ Sandstone
▨ Siltstone

TEXTURE
C Chalky

OTHER SYMBOLS

MISC

- DR Daily Report
- Digital Photo
- Document
- Folder
- Link
- Vertical Log File
- Horizontal Log File
- Core Log File
- Drill Cuttings Rpt

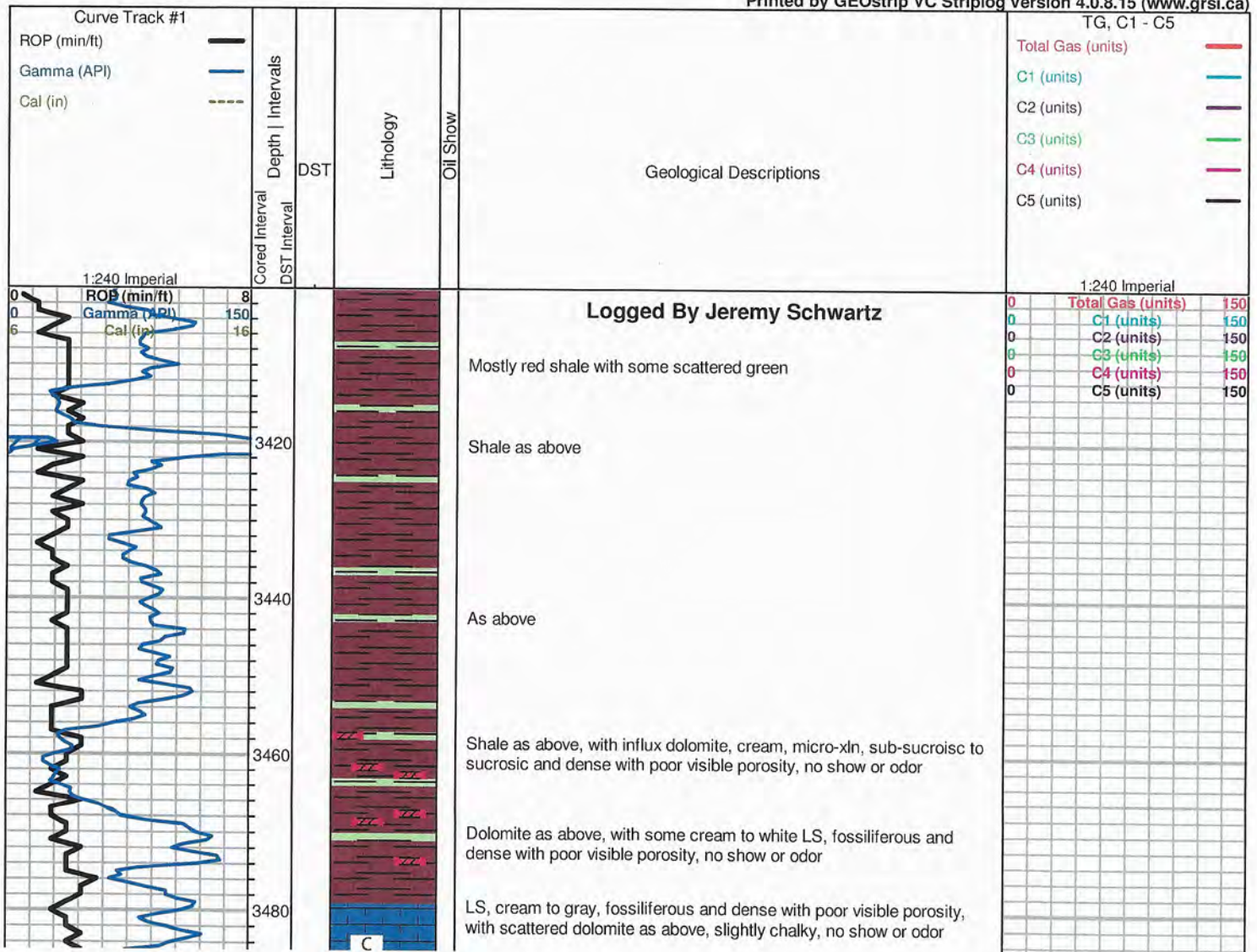
Oil Show

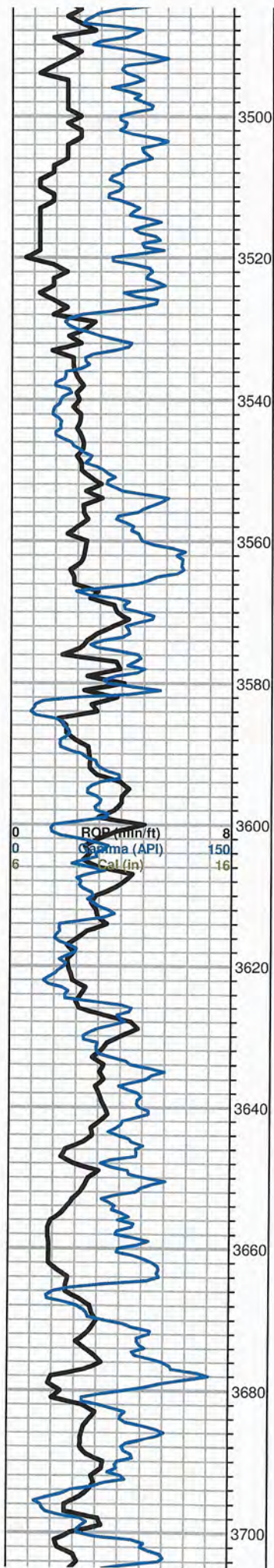
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- D Dead Oil Stn
- Fluorescence
- * Gas

DST

- DST Int
- DST alt
- Core
- tail pipe

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)





Influx red shale with trace green, no show or odor

As above, some red shale silty/sandy

As above, no show or odor

Influx cream to white LS, fossiliferous and dense with poor visible porosity, some chalky, no show or odor

Influx gray shale with scattered black and brown chert, no show or odor

Mostly gray shale with some black chert

Shale and chert as above, with slight influx cream to gray LS, micro-xln, fossiliferous to lithographic and dense with poor visible porosity, no show or odor

gray and red shale with scattered cream LS as above, chalky, no show or odor

Mostly red shale with some gray, some silty/sandy

LS, cream to gray, fossiliferous to lithographic with poor visible porosity, some chalky, fairly chalky sample, no show or odor

LS, gray to cream, some mottled, micro-xln, fossiliferous and dense with poor visible porosity, fairly chalky, no show or odor

Mostly red shale

Influx LS, gray with some scattered cream, some mottled, micro-xln, fossiliferous and dense with poor visible porosity, no show or odor

Gray to cream LS as above, no show or odor

Influx red shale

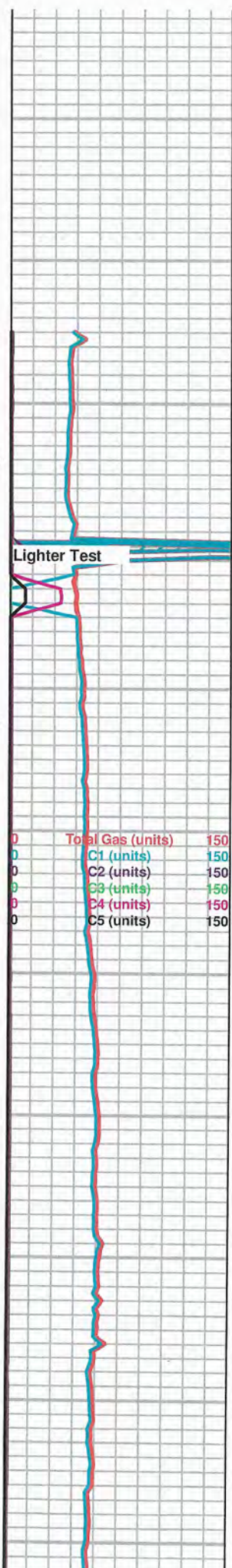
LS, cream to light gray, micro-xln, lithographic to fossiliferous with poor visible porosity, no show or odor

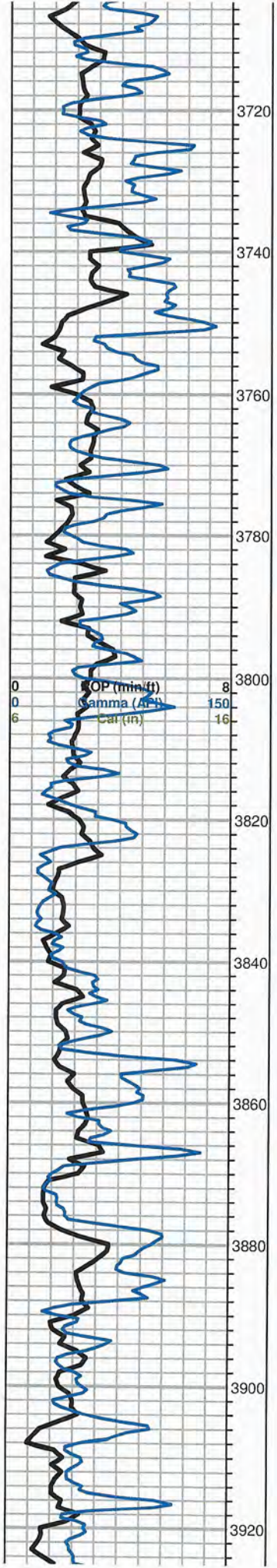
LS, gray to cream, mostly fossiliferous and dense with poor visible porosity, slightly chalky, no show or odor

LS as above, no show or odor

LS, mostly cream with some scattered gray and trace brown, micro-xln, lithographic to fossiliferous and dense with poor visible porosity, no show or odor

LS, mostly light gray, micro-xln, lithographic with poor visible porosity, no show or odor





LS as above, slightly chalky, no show or odor

LS, light gray to cream, micro-xln, mostly lithographic with poor visible porosity, no show or odor

LS as above, slightly chalky, no show or odor

LS, gray with some scattered cream and brown, lithographic with poor visible porosity, no show or odor

LS as above, no show or odor

LS, gray to brown with some scattered cream, micro-xln, lithographic and dense with poor visible porosity, no show or odor

LS, gray to cream, micro-xln, mostly lithographic with poor visible porosity, with some scattered white to cream, fossiliferous, chalky in part with scattered dead flaky to tarry black stain, NSFO upon break, fairly chalky sample, no fluor., or odor

LS, gray to cream with some scattered brown, micro-xln, lithographic to fossiliferous with poor visible porosity, slightly chalky, no show or odor

LS, cream, micro-xln, mostly lithographic with poor visible porosity, fairly chalky, no show or odor

LS as above, fairly chalky, no show or odor

LS, cream to white, micro-xln, lithographic with some scattered fossiliferous and oolitic, poor visible porosity, chalky, no show or odor

LS, cream to light gray, micro-xln, lithographic to fossiliferous, noticeably less chalky, no show or odor

LS, gray to cream, micro-xln, fossiliferous to lithographic with poor visible porosity, no show or odor

LS as above, no show or odor

LS, cream to light gray, micro-xln, lithographic to fossiliferous and dense with poor visible porosity, no show or odor

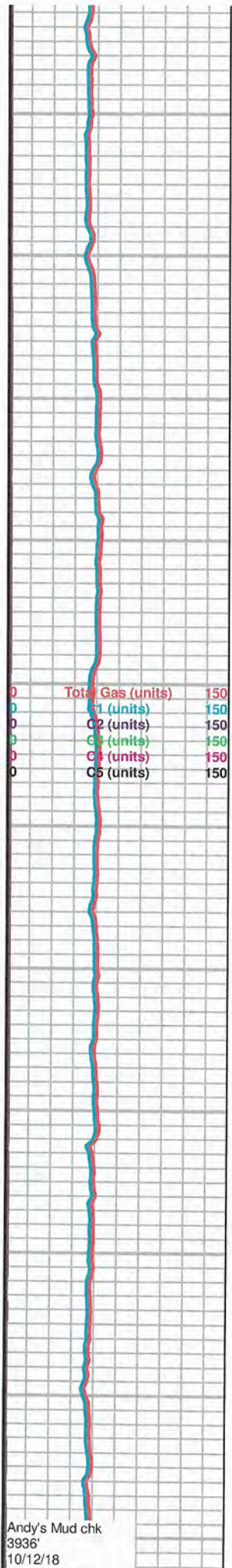
Topeka 3886 (-751)

LS, cream to light gray, micro-xln, lithographic to fossiliferous with poor visible porosity, no show or odor

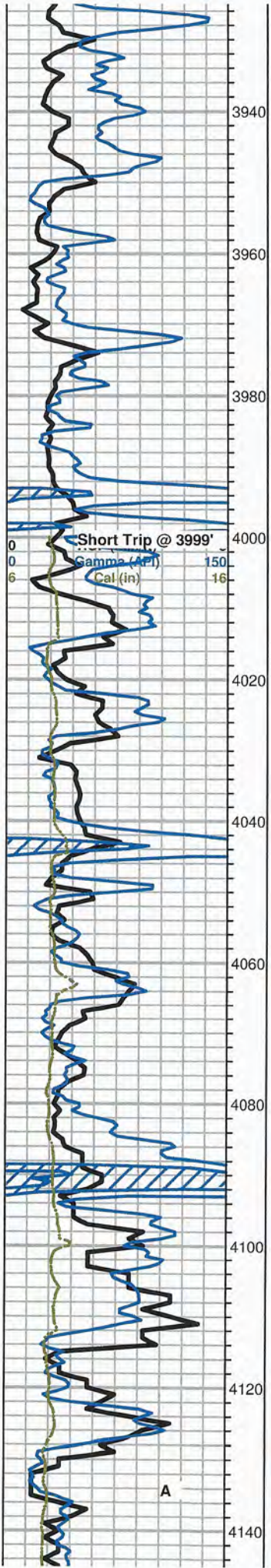
LS as above, slightly chalky, no show or odor

LS as above, slightly less chalky, no show or odor

LS, cream to light gray with some scattered white, micro-xln, lithographic to fossiliferous with poor visible porosity, some chalky in part, fairly chalky, no show or odor



Andy's Mud chk
3936'
10/12/18



part, fairly cherty, no show or odor

LS, cream, micro-xln, lithographic to fossiliferous with poor visible porosity, no show or odor

LS as above, with slight influx red, maroon, and gray shale, no show or odor

LS, cream to light gray, micro-xln, fossiliferous with poor visible porosity, very chalky, no show or odor

LS as above, very chalky, no show or odor

LS, cream to light gray and gray, micro-xln, lithographic to fossiliferous with poor visible porosity, fairly chalky, no show or odor

LS, mostly cream with some scattered light gray, micro-xln, lithographic to fossiliferous with poor visible porosity, fairly chalky, no show or odor

LS, cream, micro-xln, mostly fossiliferous with poor visible porosity, some chalky, slightly chalky sample, no show or odor

LS as above, with influx red and gray shale, no show or odor

LS, cream with some scattered white, micro-xln, fossiliferous to lithographic with poor visible porosity, some chalky, slightly chalky sample, no show or odor

LS, cream to light gray, micro-xln, mostly lithographic with poor visible porosity, slightly chalky sample, no show or odor

LS, cream to gray with some white, micro-xln, lithographic to fossiliferous with poor visible porosity, slightly chalky, no show or odor

LS as above, with slight influx cream to light gray crypto xln, poor visible porosity, no show or odor

LS, cream to gray, micro-xln, lithographic to fossiliferous with poor visible porosity, slightly chalky, no show or odor

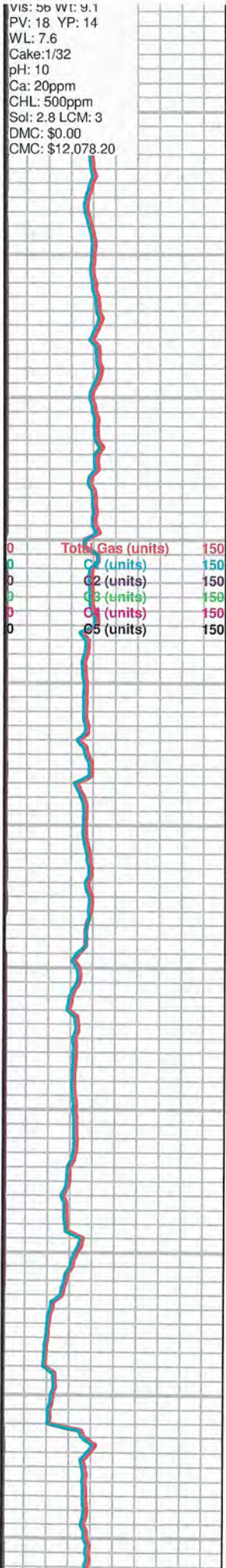
LS as above, fairly chalky, no show or odor

Heebner 4089 (-954)
Shale, black carbonaceous

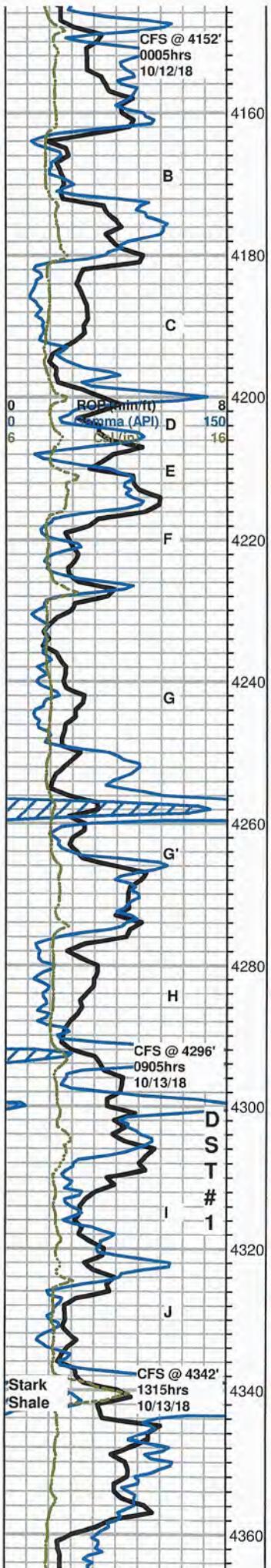
Toronto 4114 (-979)
LS, cream to white, micro-xln, mostly lithographic with poor visible porosity, fairly chalky, no show or odor

Lansing 4129 (-994)
LS, cream to light gray and white, micro-xln, mostly lithographic to slightly fossiliferous with poor visible porosity, some very scattered oolitic to oomoldic, dense with overall poor oomold porosity and barren, chalky, no show, fluor., or odor

4152' 30" LS, cream, micro-xln, mostly lithographic, some scattered oomoldic



VIS: 56 Wt: 9.1
PV: 18 YP: 14
WL: 7.6
Cake: 1/32
pH: 10
Ca: 20ppm
CHL: 500ppm
Sol: 2.8 LCM: 3
DMC: \$0.00
CMC: \$12,078.20



7102 00 LS, cream, micro-xln, mostly lithographic, some scattered oomoldic with mostly poor visible porosity, barren, chalky, no show or odor

4152' 60" LS as above, few chips cream, micro-xln, lithographic with few scattered small vugs, one chip with a large vug, with oomoldic as above, some very scattered fair oomold porosity, chalky, no show or odor

LS, cream to gray with some scattered white, micro-xln, mostly lithographic with poor visible porosity, slightly chalky, no show or odor

LS, gray to cream, micro-xln, mostly lithographic with poor visible porosity, slightly chalky, no show or odor

LS as above, slightly chalky, no show or odor

LS, mostly gray with some scattered cream, micro-xln, lithographic with poor visible porosity, no show or odor

LS, cream to white with some gray, some chalky in part, trace oolitic to oomoldic with poor oomold porosity, dense and barren, no show or odor

LS, white to cream with some scattered light gray, lithographic and dense with poor visible porosity, slightly chalky, no show or odor


LS, mostly same as above, slightly chalky, no show or odor

LS as above, with slight influx dark gray to brown, dense with poor visible porosity, very chalky, no show or odor

LS, brown to gray with some cream, micro-xln, lithographic to slightly fossiliferous and dense with poor visible porosity, no show or odor

LS, cream with some scattered white, micro-xln, mostly lithographic and dense with poor visible porosity, with some scattered green shale, slightly chalky, no show or odor

LS, light gray to cream with some scattered white, micro-xln, mostly lithographic and dense with poor visible porosity, fairly chalky, no show or odor

 Arcadian Jerone 1-31dst 1.jpg

4296' 30" & 60" LS, mostly same as above, fairly chalky, no show or odor

LS, cream to gray with some scattered white, mostly lithographic with poor visible porosity and barren, with some scattered chips cream to gray, some chalky in part, with very scattered to scattered mostly poor pinpoint porosity and scattered black stain around areas of porosity, upon break some chips show areas of fair inter-xln porosity with brown stain, NSFO, very slow weak cut with dull yellow fluor., one chip very slowly bleeding free oil to surface, too dense to break, fairly chalky sample, no odor in wet cup

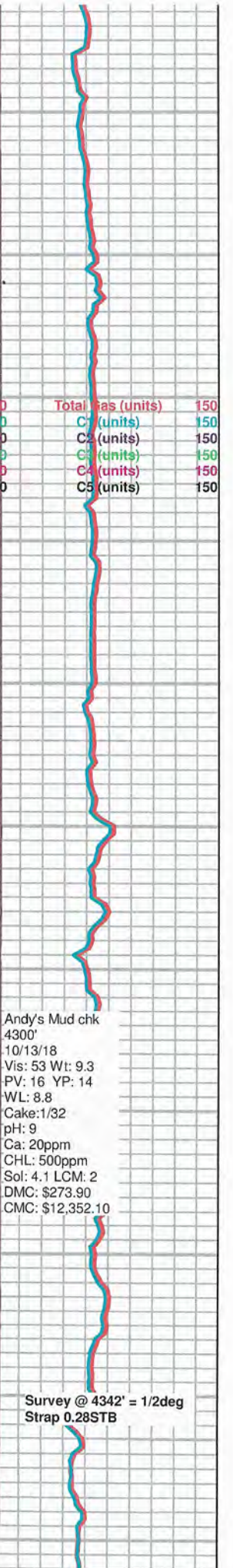
~4320' LS, cream to gray with some scattered white, mostly lithographic and dense with poor visible porosity, few very scattered chips with stain as above, one chip with scattered fair pinpoint porosity and scattered stain, slowly bleeding free oil to surface, upon agitation and break chip has GSFO, chalky, no odor

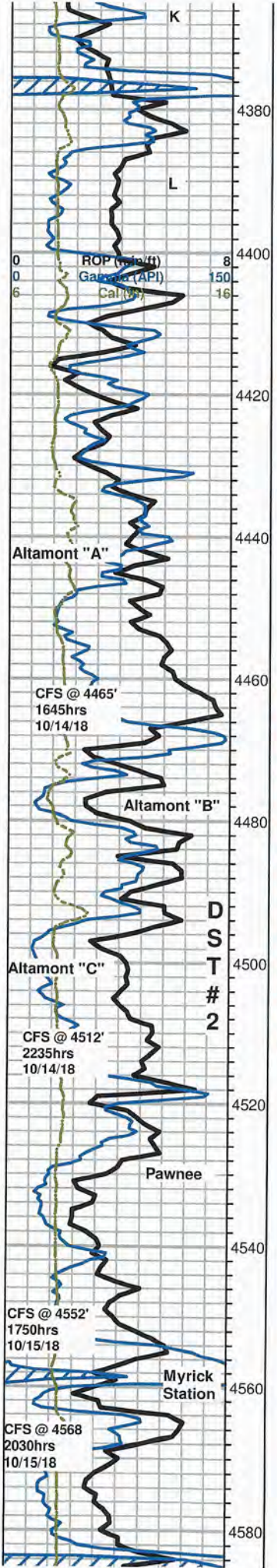
4342' 30" LS, cream to gray, micro-xln, lithographic and dense with poor visible porosity, no show or odor

4342' 60" As above, no show or odor

4350' Shale, gray to black and red

LS, cream to white, micro-xln, mostly lithographic with poor visible





porosity, some chalky, slightly chalky sample, no show or odor

LS as above, with influx gray, red, and trace green shale, no show or odor

LS, cream to light gray with some very scattered white, micro-crypto xkn, lithographic and dense with poor visible porosity, slightly chalky, no show or odor

BKC 4402 (-1267)

Shale, gray, red, black, and trace green

Shale as above, with some scattered SS, light gray to white, vf-f grained, mostly sub-rounded to rounded and well sorted, some fairly well cemented, some friable, barren, NSFO or odor

Marmaton 4424 (-1289)

LS, light gray to cream and white, micro-xln, mostly lithographic with poor visible porosity, slightly chalky, no show or odor

LS, cream to white, micro-xln, lithographic with poor visible porosity, some chalky, slightly chalky sample, no show, fluor., or odor

LS, light gray to cream, micro-xln, lithographic and dense with poor visible porosity, no show, fluor., or odor

LS as above, with influx gray LS, silty, dense to fairly soft, no show, fluor., or odor

4465' 30" & 45" LS and silty LS as above, with slight influx maroon, red, and gray shale, no show, fluor., or odor

Mostly gray, red, maroon, and trace green shale, with some scattered cream to gray and brown LS, lithographic with poor visible porosity, no show or odor

LS, mostly light gray with some scattered cream and white, micro-xln, lithographic with poor visible porosity, some chalky in part, fairly chalky sample, no show or odor

Arcadian Jerone 1-31 dst 2.jpg

4512' 30" LS, mostly same as above, with some very scattered chips cream to white with few scattered small vugs to slightly vuggy areas with stain mostly confined to areas of porosity, few small chips with fair vuggy porosity and mostly saturated to saturated brown stain, some chalky in part, upon break chips have S-FSFO, chips with show have mostly even dull yellow fluor., slow streaming cut with bright white fluor., no odor

4512' 60" Mostly same as above, noticeable less shows, found several small chips cream, oolitic with mostly poor visible porosity and scattered inter-oolite staining, upon break several chips have GSFO, no odor

Mostly gray and red shale with trace green, with some scattered LS, cream, micro-xln, lithographic with poor visible porosity, with some scattered white, chalky in part, and trace tan chert, no show or odor

LS, cream to light gray with some scattered brown, micro-xln, mostly lithographic with poor visible porosity, some white chalky in part, with some very scattered white chert, no show or odor

4552' 30" LS, gray to cream, micro-xln, fossiliferous to lithographic with poor visible porosity, few very scattered small chips white and chalky, with very scattered spotty black stain, upon break SSFO, with some scattered white to brown chert, no fluor., or odor

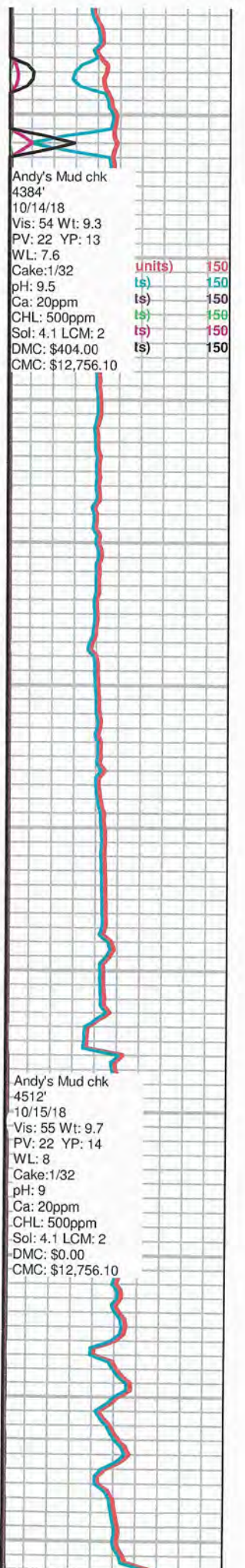
4552' 60" LS, brown to dark gray with some cream, micro-xln, lithographic to fossiliferous with trace oolitic, dense with poor visible porosity, with scattered white chert, no show or odor

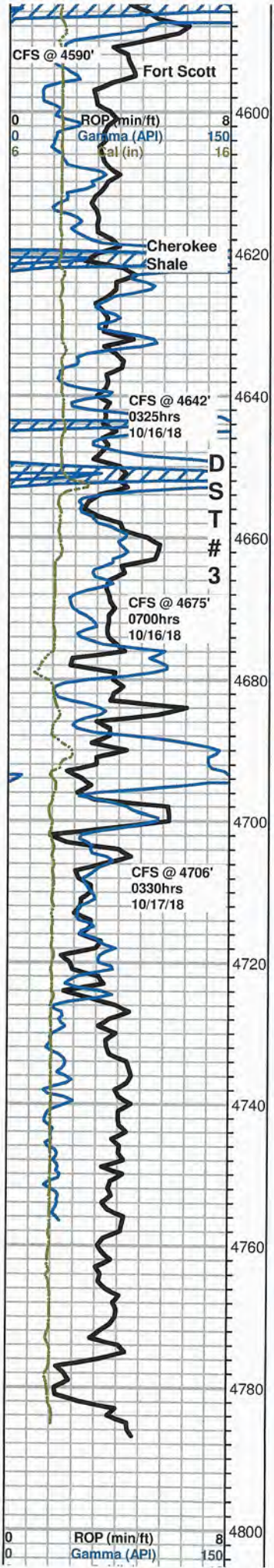
~4555' LS, mostly same as above, found one small chips cream, oolitic with poor visible porosity and very scattered inter-oolite stain, SSFO upon break, no odor

4568' 30" LS, gray to brown with some cream, micro-xln, fossiliferous to lithographic and dense with poor visible porosity, no odor

4568; 60" Mostly same as above, found few very scattered small chips white, chalky, with trace black stain and poor visible porosity, SSFO upon break, as well as one small chip cream, with areas of fair vuggy porosity and stain mostly confined to porosity, no odor

LS, cream, micro-xln, mostly lithographic with poor visible porosity, some





chalky, with some scattered gray to brown and white chert, influx black shale, no odor

4590' 30" & 60" LS, mostly cream, micro-xln, lithographic with poor visible porosity, some chalky, slightly chalky sample, with some scattered white to light gray chert, no shows, scattered dull fluor., no cut, no odor

LS, light gray to cream, micro-xln, lithographic with poor visible porosity, no show or odor

LS, brown to gray and cream, micro-xln, lithographic and dense with poor visible porosity, some very scattered secondary re-crystallization, with some brown to black chert and scattered black shale, no show or odor

LS, light gray to cream, micro-xln, mostly lithographic and dense with poor visible porosity, no show, scattered dull yellow fluor., no odor

4642' 30" LS, mostly cream with some scattered light gray, micro-xln, lithographic with poor visible porosity, no show or odor

4642' 60" LS as above, no show, scattered dull yellow fluor., no odor

LS, cream to gray with some scattered brown, micro-xln, lithographic with poor visible porosity, no show, very scattered dull yellow fluor., no odor

Arcadian Jerone 1-31dst 3.jpg

LS, brown to cream, micro-xln, some lithographic with scattered vugs to areas of slightly vuggy porosity with stain mostly confined to porosity, some heavy black droplets bleeding to surface, upon break mostly N-SSFO, some with fair show gas bubbles, some chips too dense to break, slow streaming cut with milky white fluor., also with some chalky in part with scattered tarry black to wet black stain and occasional heavy black free oil droplets bleeding to surface, scattered dull fluor., FSFO in tray, fair odor

4675' stop sample, Mostly same as above, with increasing shows, upon break some show fair inter-xln porosity with saturated stain and S-FSFO, GSFO in tray, good odor

4675' 30" LS as above, shows noticeably decreasing, FSFO in tray, good odor

4675' 60" LS, cream to gray, micro-xln, lithographic with poor visible porosity, mostly barren, few scattered shows as above, gassy, poor fleeting odor

~4690' Mostly gray shale with cream LS, abundant LCM from mud system, fairly chalky sample, no show, fluor., or odor

Mississippian 4706 (-1571)

~4706' 30" Mix of LS, shale, and some scattered white to cream chert, with SS, gray to clear, most fine with some scattered medium quartz grains, mostly sub-rounded and well sorted, friable, with scattered dead black gislonitic stain, some clusters have very scattered areas of wet, tarry black stain, pyritic, very slow weak cut in some with dull milky white fluor., NSFO, no fluor., in tray, no odor

4706' 60" Mostly same as above, with slight influx medium-coarse grained SS clusters, mostly sub-rounded and poorly sorted, fairly well-cemented, with scattered dead black gislonitic to very scattered wet, tarry black stain, NSFO upon break, also with influx cream to white and trace orange chert, some fresh and sharp, some weathered, no fluor., or odor

~4710' Mostly same as above, with slight influx cream to light gray LS, lithographic with poor visible porosity, also with slight influx white SS clusters, v-f-grained, sub-rounded to sub-angular, most friable, some fairly well cemented and dense, chalky, barren, no show, fluor., or odor

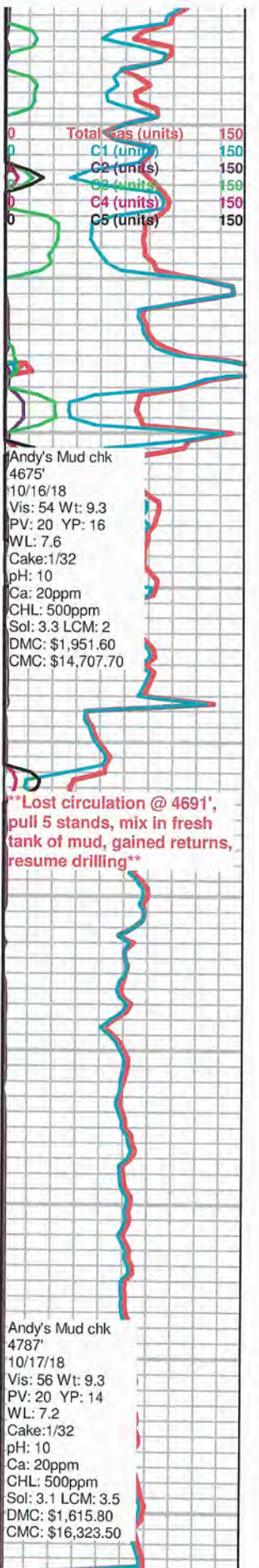
~4720' LS, mostly gray with some scattered cream, lithographic and dense with poor visible porosity, no show, fluor., or odor

~4730' Mostly same as above, with some scattered white. chalky in part, no show, fluor., or odor

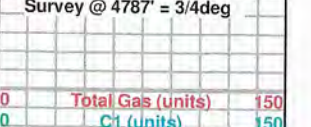
~4740' LS, gray to cream, micro-xln, lithographic and dense with poor visible porosity, with scattered light gray to translucent with trace orange chert, no show, fluor., or odor

~4750'~4770' LS, gray to brown with some scattered cream, lithographic and dense with poor visible porosity, very scattered tan to white and translucent chert, no show or odor

LS, mostly cream to gray with influx dark gray, micro-xln, mostly lithographic and very dense with poor visible porosity, no show or odor



Rotary TD 4787' @ 0945hrs 10/17/18
Eli Wireline Services Logging TD @ 4790'
Complete Logging Operations @ 2030hrs 10/17/18
Geologist Jeremy Schwartz off location @ 2130hrs 10/17/18





Schippers Oilfield Services LLC

1255 E HWY 24
Hoxie, KS 67740

Phone # 785-675-8974
Fax # 785-675-9938

sosllc@ruraltel.net

Invoice

Date 10/8/2018
Invoice # 642

PAID
10/24/2018

Bill To

ARCADIAN RESOURCE, LLC
1302 OLIVE STREET
CONCORDIA, KS 66901

Ship To

P.O. # JEROME 1-31
Terms Net 30

Ship Date 10/8/2018
Due Date 11/7/2018
Other

Item	Description	Qty	Price	Amount
Cement	Common	200	18.00	3,600.00T
Gel		4	22.00	88.00T
chloride	calcium chloride	10	52.00	520.00T
Handling of mater...	per sack	214	2.10	449.40
Mileage and labor		35	17.12	599.20
PUMP TRUCK CHA...	TRI-PLEX PUMP CHARGE		1,350.00	1,350.00
PUMPTRUCK MILE...	ONE WAY TO LOCATION	35	6.00	210.00

Take 25% Discount if paid with in 20 days. Deduct from total

Subtotal	\$6,816.60
Sales Tax (8.0%)	\$336.64
Total	\$7,153.24
Payments/Credits	-\$7,153.24
Balance Due	\$0.00

Schippers Oilfield Services LLC



Schippers Oilfield Services LLC

1255 E HWY 24
Hoxie, KS 67740

Phone # 785-675-8974
Fax # 785-675-9938

sosllc@ruraltel.net

Invoice

Date 10/18/2018
Invoice # 643

PAID
10/24/2018

Bill To
ARCADIAN RESOURCE, LLC 1302 OLIVE STREET CONCORDIA, KS 66901

Ship To

P.O. # JEROME 1-31
Terms Net 30

Ship Date 10/18/2018
Due Date 11/17/2018
Other

Item	Description	Qty	Price	Amount
Cement	Common	144	18.00	2,592.00T
Pozmix		96	10.00	960.00T
Gel		8	22.00	176.00T
Flo Seal		60	2.25	135.00T
Handling of mater...	per sack	248	2.10	520.80
Mileage and labor		35	19.84	694.40T
PUMP TRUCK CHA...	TRI-PLEX PUMP CHARGE		1,850.00	1,850.00
PUMPTRUCK MILE...	ONE WAY TO LOCATION	35	6.00	210.00

Take 25% Discount if paid with in 20 days. Deduct from total

Subtotal	\$7,138.20
Sales Tax (8.0%)	\$364.59
Total	\$7,502.79
Payments/Credits	-\$7,502.79
Balance Due	\$0.00

Schippers Oilfield Services LLC

REMIT TO
RR PBOX 90 D
HOXIE, KS 67740

SCHIPPERS OIL FIELD SERVICE L.L.C.

Nº 000643

DATE <u>10/18/16</u> SEC. <u>31</u>	RANGE/TWP. <u>8-32</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE: <u>Jerone</u>		WELL# <u>F-31</u>		COUNTY <u>HH</u>	STATE <u>KS</u>

CONTRACTOR <u>STP</u>	OWNER <u>Arcadian</u>		
TYPE OF JOB <u>Rotary Plug</u>			
HOLE SIZE	T.D. <u>4787</u>	CEMENT	
CASING SIZE	DEPTH	AMOUNT ORDERED	<u>240</u>
TUBING SIZE	DEPTH		
DRILL PIPE <u>4 1/2</u>	DEPTH		
TOOL	DEPTH		
PRES. MAX	MINIMUM	COMMON	<u>144 @ 18"</u>
DISPLACEMENT	SHOE JOINT	POZMIX	<u>96 @ 10"</u>
CEMENT LEFT IN CSG.		GEL	<u>8 @ 22"</u>
PERFS		CHLORIDE	@
		ASC	@
EQUIPMENT			@
		<u>Flo-seal</u>	<u>60 @ 2.35</u>
PUMP TRUCK			@
#			@
BULK TRUCK			@
#			@
BULK TRUCK			@
#			@
		HANDLING	<u>248 @ 200 219 520⁰⁰</u>
		MILEAGE	<u>35 @ 19⁰⁰</u>
		TOTAL	

REMARKS	SERVICE <u>Rotary Plug</u>	
<u>1st 2740' 50sx</u>	DEPT OF JOB	@
<u>2nd 1930' 100sx</u>	PUMP TRUCK CHARGE	@ <u>1850⁰⁰</u>
<u>3rd 315' 50sx</u>	EXTRA FOOTAGE	@
<u>4th 40' 10sx</u>	MILEAGE	<u>35 @ 6⁰⁰</u>
<u>Rot Hole 30sx</u>	MANIFOLD	@
<u>Plugged 6:45 AM</u>		@
	TOTAL	

CHARGES TO: <u>Arcadian Resources</u>	
STREET	STATE
CITY	ZIP

To: Schippers Oil Field Services L.L.C.
You are hereby requested to rent cementing equipment and furnish staff to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "TERMS AND CONDITIONS" listed on the reverse side.

PLUG & FLOAT EQUIPMENT	
	@
	@
	@
	@
	@
	@
	TOTAL
TAX	
TOTAL CHARGE	
DISCOUNT (IF PAID IN 20 DAYS)	

Louie
SIGNATURE

PRINTED NAME