

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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Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	SEWING 1-31
Doc ID	1600226

All Electric Logs Run

Compensated Nuutron
Dual Induction
Micro
Sonic

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	SEWING 1-31
Doc ID	1600226

Tops

Name	Top	Datum
HEEBNER SHALE	3584	-1578
BROWN LIME	3730	-1724
LANSING	3748	-1742
BKC	3994	-1988
MISSISSIPPIAN	4157	-2151
KINDERHOOK	4197	-2191
VIOLA	4240	-2234
SIMPSON SHALE	4370	-2364
ARBUCKLE	4422	-2416
LTD	4436	-2430



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shelby Resources LLC
3700 Quebec St.
Suite 100 PMB 376
Denver, CO 80207
ATTN: Jeremy Schwartz

31/24S/14W

Sewing 1-31

Job Ticket: 67645

DST#: 1

Test Start: 2021.11.10 @ 00:13:00

GENERAL INFORMATION:

Formation: **Lansing B**

Deviated: No Whipstock: 2008.00 ft (KB)

Time Tool Opened: 03:06:32

Time Test Ended: 08:57:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 3763.00 ft (KB) To 3807.00 ft (KB) (TVD)

Reference Elevations: 2008.00 ft (KB)

Total Depth: 3807.00 ft (KB) (TVD)

1998.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8672 Inside

Press@RunDepth: 48.36 psig @ 3765.00 ft (KB)

Capacity: psig

Start Date: 2021.11.10

End Date:

2021.11.10

Last Calib.:

2021.11.10

Start Time: 00:13:01

End Time:

08:57:02

Time On Btm:

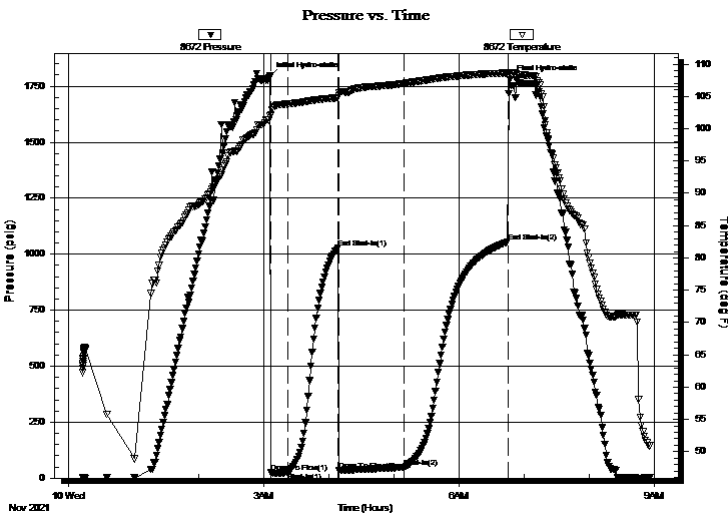
2021.11.10 @ 03:06:02

Time Off Btm:

2021.11.10 @ 06:47:17

TEST COMMENT: IF: 15 min., Strong building blow, 10.5 inches
IS: 45 min., No blow back
FF: 60 min., Strong building blow, 10 inches
FS: 90 min., No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1794.95	102.05	Initial Hydro-static
1	24.41	102.18	Open To Flow (1)
17	25.74	103.84	Shut-In(1)
63	1028.62	104.80	End Shut-In(1)
64	35.46	105.09	Open To Flow (2)
124	48.36	107.02	Shut-In(2)
219	1054.79	108.67	End Shut-In(2)
222	1778.63	108.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	gassy oily mud 95%M,3%O,2%G	0.87
0.00	500' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

31/24S/14W

3700 Quebec St.
Suite 100 PMB 376
Denver, CO 80207

Sewing 1-31

Job Ticket: 67645

DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2021.11.10 @ 00:13:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	gassy oily mud 95%M,3%O,2%G	0.870
0.00	500' GIP	0.000

Total Length: 62.00 ft Total Volume: 0.870 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

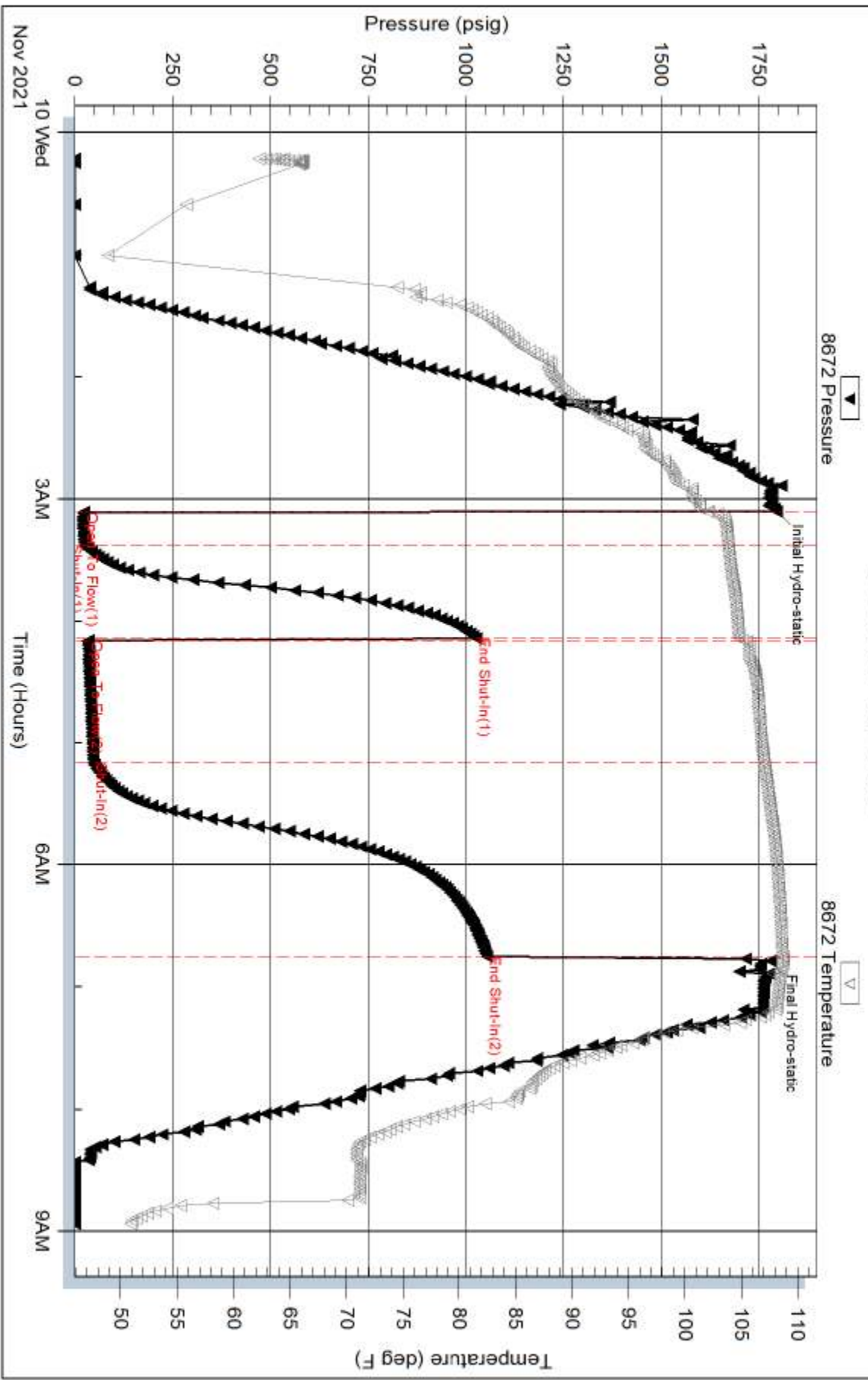
Serial #:

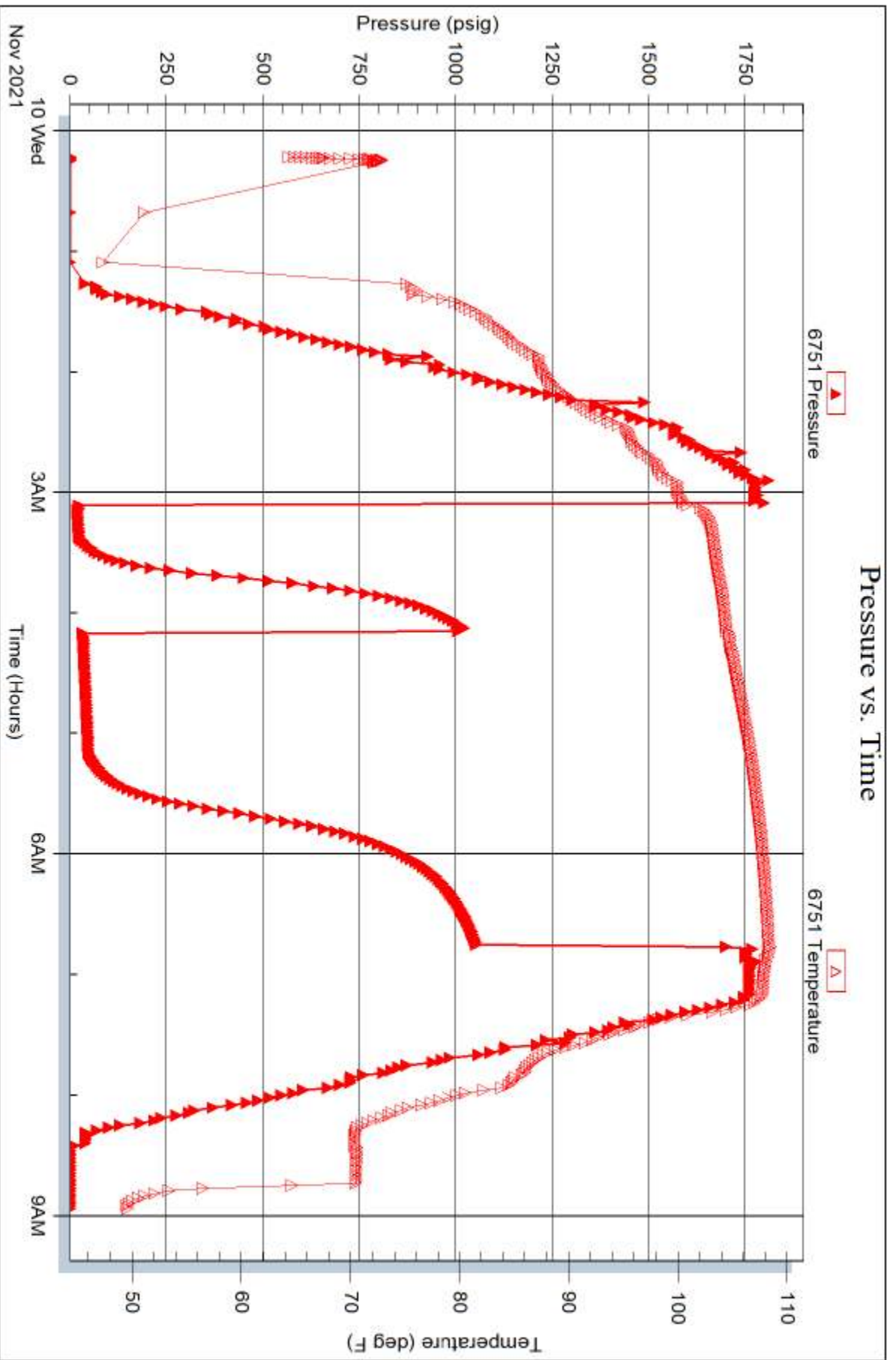
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shelby Resources LLC
3700 Quebec St.
Suite 100 PMB 376
Denver, CO 80207
ATTN: Jeremy Schwartz

31/24S/14W

Sewing 1-31

Job Ticket: 67646

DST#: 2

Test Start: 2021.11.10 @ 17:24:00

GENERAL INFORMATION:

Formation: **Lansing F**

Deviated: No Whipstock: 2008.00 ft (KB)

Time Tool Opened: 19:29:02

Time Test Ended: 01:10:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 3811.00 ft (KB) To 3830.00 ft (KB) (TVD)

Total Depth: 3830.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2008.00 ft (KB)

1998.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8672 Inside

Press@RunDepth: 257.71 psig @ 3813.00 ft (KB)

Start Date: 2021.11.10

End Date: 2021.11.11

Start Time: 17:24:01

End Time: 01:10:02

Capacity: psig

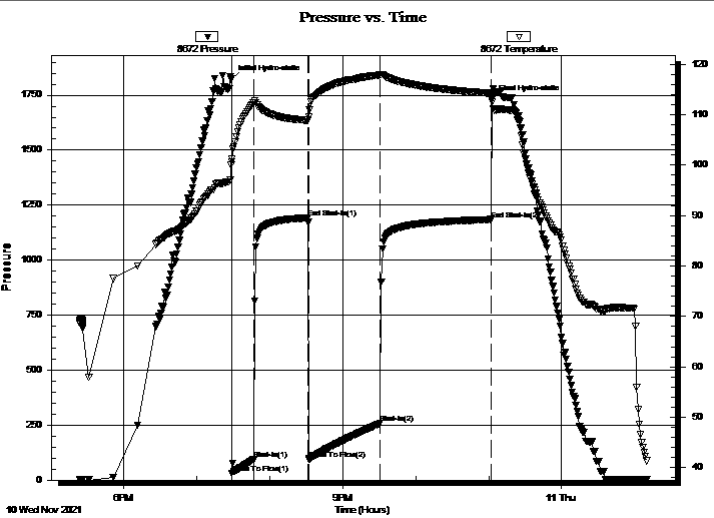
Last Calib.: 1899.12.30

Time On Btm: 2021.11.10 @ 19:28:32

Time Off Btm: 2021.11.10 @ 23:03:02

TEST COMMENT: IF: 15 min., BOB 12 min., strong building blow , 15.5 inches
IS: 45 min., no blow back
FF: 60 min., BOB 20 min., strong building blow , 35 inches
FSI: 90 min., no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1822.46	100.14	Initial Hydro-static
1	30.79	100.64	Open To Flow (1)
19	93.89	112.40	Shut-In(1)
63	1191.91	108.88	End Shut-In(1)
64	95.71	109.51	Open To Flow (2)
123	257.71	117.88	Shut-In(2)
214	1184.78	114.22	End Shut-In(2)
215	1731.30	112.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
465.00	gassy water 5%G,95%W	6.52

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

31/24S/14W

3700 Quebec St.
Suite 100 PMB 376
Denver, CO 80207

Sewing 1-31

Job Ticket: 67646

DST#: 2

ATTN: Jeremy Schwartz

Test Start: 2021.11.10 @ 17:24:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

38000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.49 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
465.00	gassy water 5%G,95%W	6.523

Total Length: 465.00 ft Total Volume: 6.523 bbl

Num Fluid Samples: 0

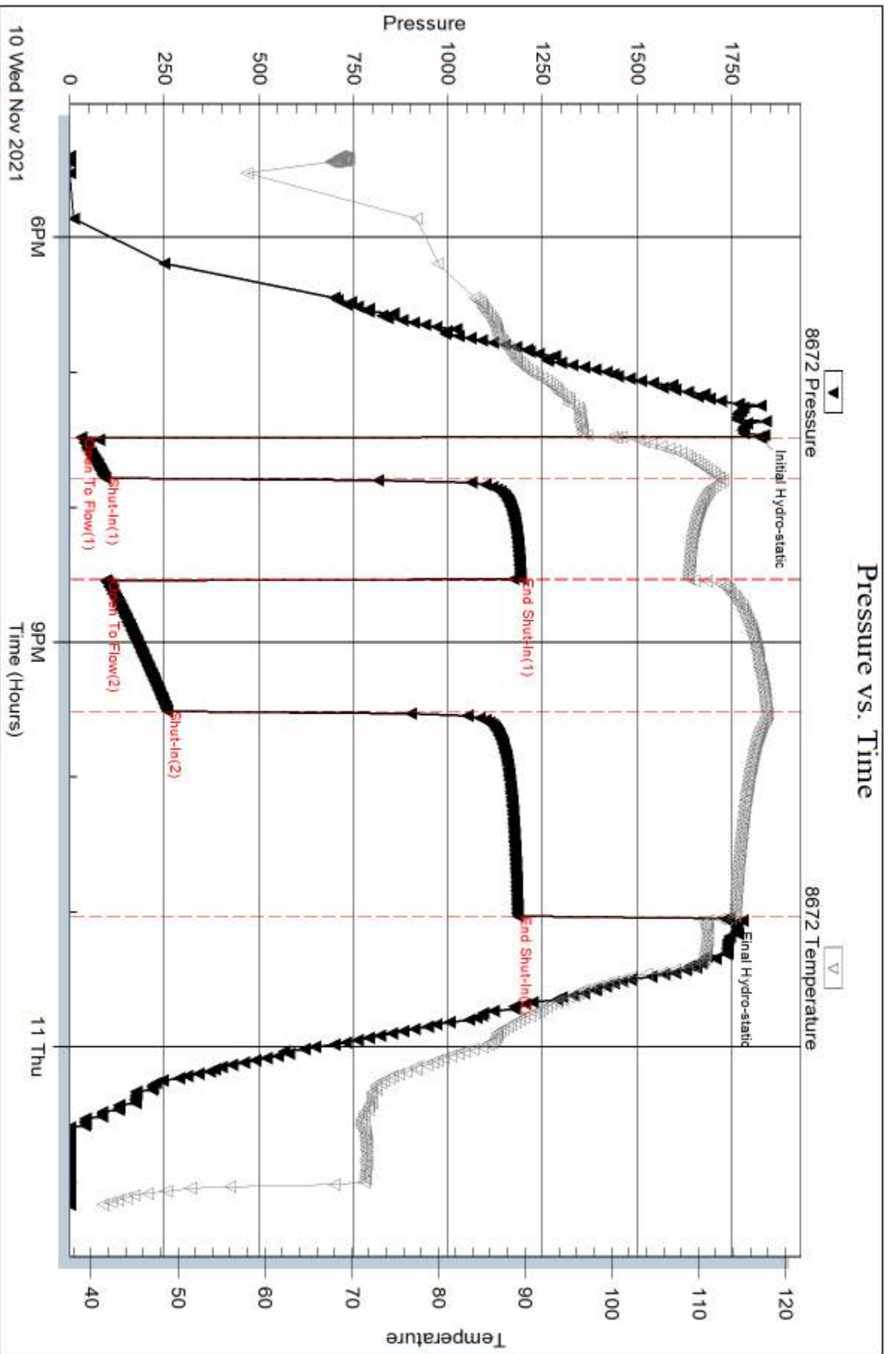
Num Gas Bombs: 0

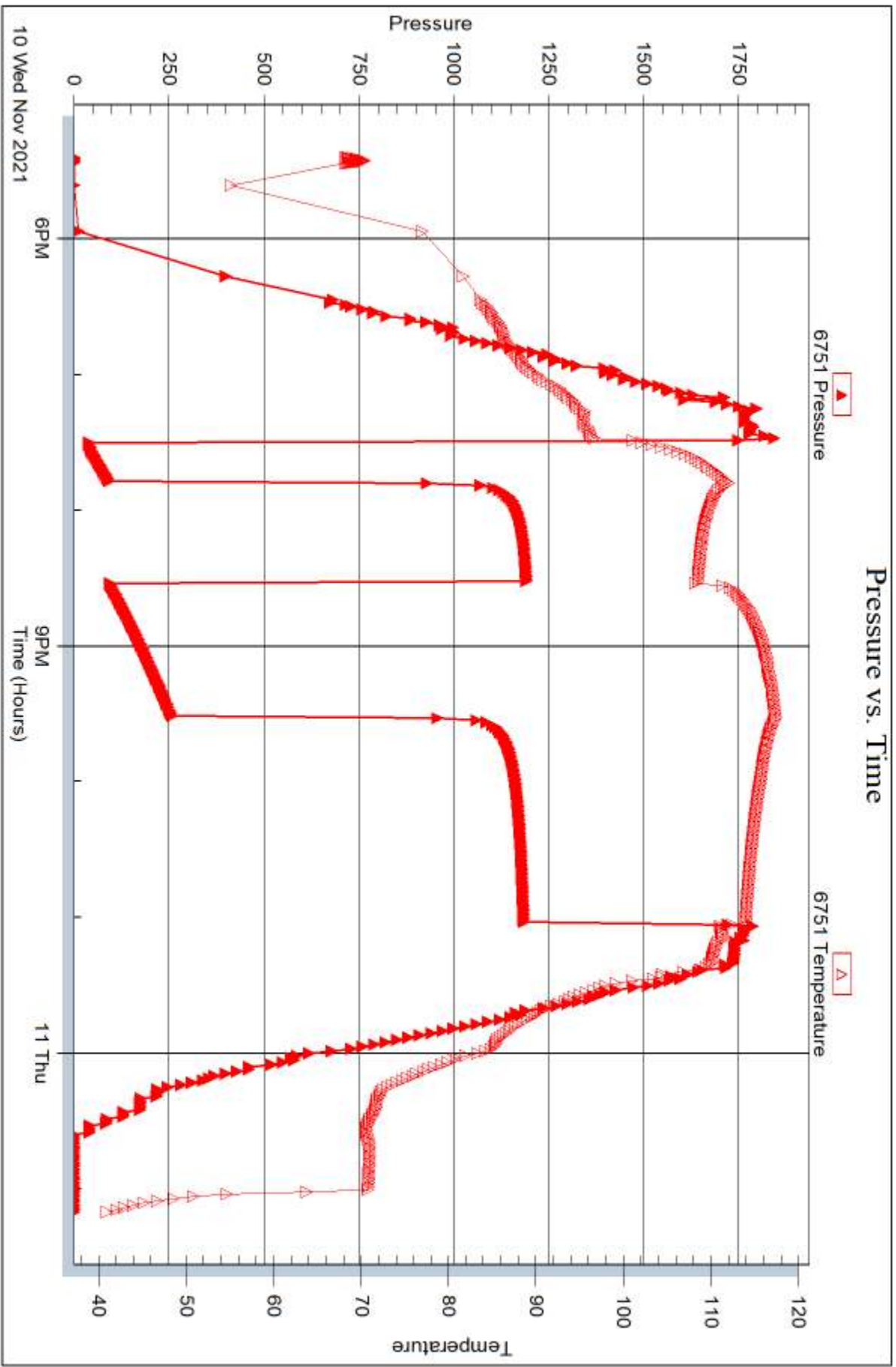
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.264@50F=38000







**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shelby Resources LLC
3700 Quebec St.
Suite 100 PMB 376
Denver, CO 80207
ATTN: Jeremy Schwartz

31/24S/14W

Sewing 1-31

Job Ticket: 67647

DST#: 3

Test Start: 2021.11.11 @ 15:17:00

GENERAL INFORMATION:

Formation: **Lansing(k)**

Deviated: No Whipstock: 2008.00 ft (KB)

Time Tool Opened: 17:30:17

Time Test Ended: 21:55:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 3951.00 ft (KB) To 3972.00 ft (KB) (TVD)

Reference Elevations: 2008.00 ft (KB)

Total Depth: 3972.00 ft (KB) (TVD)

1998.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8672

Inside

Press@RunDepth: 17.20 psig @ 3953.00 ft (KB)

Capacity: psig

Start Date: 2021.11.11

End Date:

2021.11.11

Last Calib.: 1899.12.30

Start Time: 15:17:01

End Time:

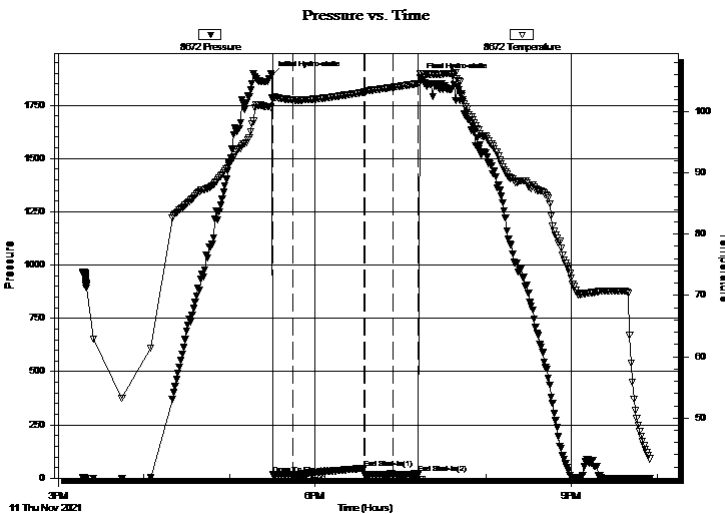
21:55:02

Time On Btm: 2021.11.11 @ 17:29:47

Time Off Btm: 2021.11.11 @ 19:13:47

TEST COMMENT: IF:15 min,w eak surface blow
IS:45 min, no blow back
FF: 25 min,w eak surface blow , died in 5 min
FS: 5 min, no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1888.62	102.21	Initial Hydro-static
1	17.49	102.03	Open To Flow (1)
15	18.05	101.88	Shut-In(1)
65	46.62	103.14	End Shut-In(1)
65	15.29	103.16	Open To Flow (2)
86	17.20	103.94	Shut-In(2)
103	20.32	104.58	End Shut-In(2)
104	1879.00	106.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	oil spotted mud 100%M	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

31/24S/14W

3700 Quebec St.
Suite 100 PMB 376
Denver, CO 80207

Sewing 1-31

Job Ticket: 67647

DST#: 3

ATTN: Jeremy Schwartz

Test Start: 2021.11.11 @ 15:17:00

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: 41.00 sec/qt

Cushion Volume: bbl

Water Loss: 9.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 7500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	oil spotted mud 100%M	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

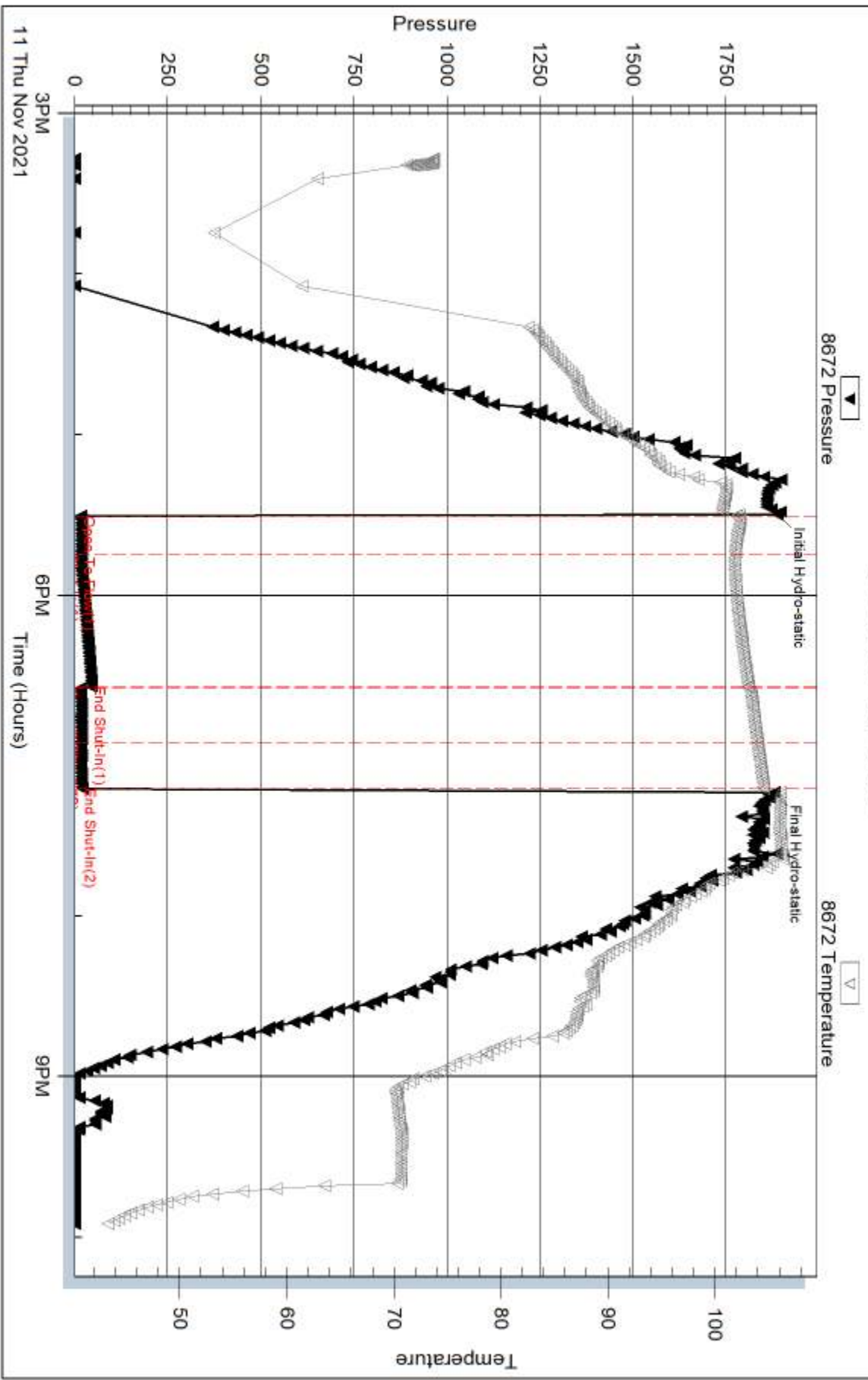
Serial #:

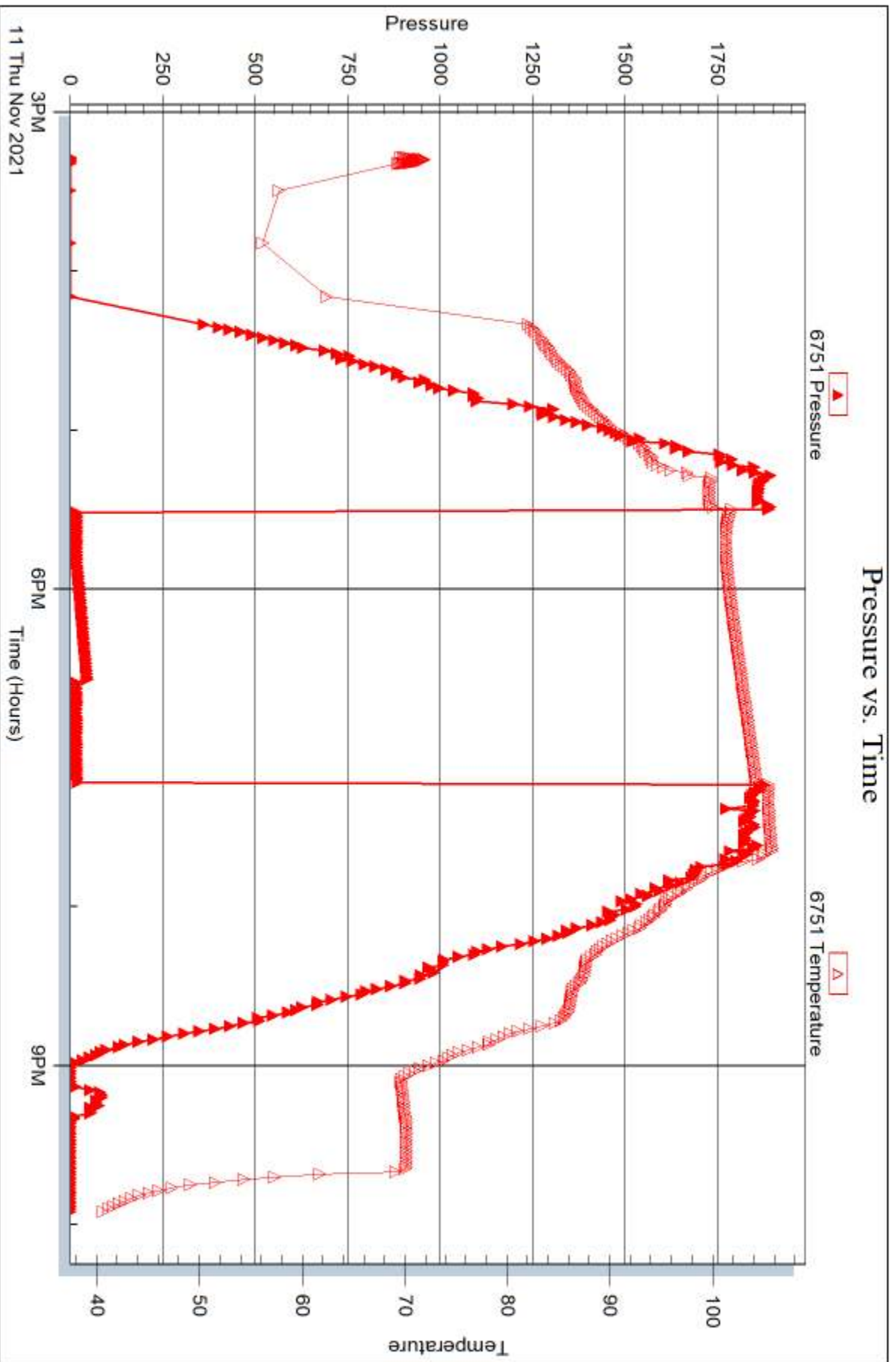
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shelby Resources LLC
3700 Quebec St.
Suite 100 PMB 376
Denver, CO 80207
ATTN: Jeremy Schwartz

31/24S/14W

Sewing 1-31

Job Ticket: 67648

DST#: 4

Test Start: 2021.11.12 @ 21:55:00

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: 2008.00 ft (KB)

Time Tool Opened: 00:38:47

Time Test Ended: 06:25:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 4131.00 ft (KB) To 4175.00 ft (KB) (TVD)

Total Depth: 4175.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2008.00 ft (KB)

1998.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8672 Inside

Press@RunDepth: 29.07 psig @ 4133.00 ft (KB)

Start Date: 2021.11.12

End Date: 2021.11.13

Start Time: 21:55:01

End Time: 06:25:02

Capacity: psig

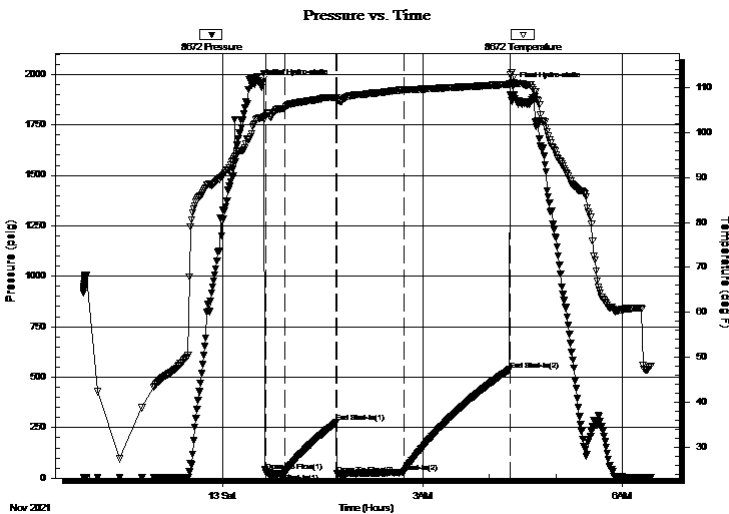
Last Calib.: 1899.12.30

Time On Btm: 2021.11.13 @ 00:33:17

Time Off Btm: 2021.11.13 @ 04:21:02

TEST COMMENT: IF:15 min,BOB 1 min, strong building blow , 39 inches
IS: 45 min, no blow back
FF: 60 min, BOB ASAO strong dieing blow
FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1952.94	103.25	Initial Hydro-static
6	31.64	103.53	Open To Flow (1)
23	22.29	105.32	Shut-In(1)
69	275.24	107.79	End Shut-In(1)
70	20.41	107.83	Open To Flow (2)
130	29.07	109.50	Shut-In(2)
225	537.20	110.75	End Shut-In(2)
228	1940.92	112.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

31/24S/14W

3700 Quebec St.
Suite 100 PMB 376
Denver, CO 80207

Sewing 1-31

Job Ticket: 67648

DST#: 4

ATTN: Jeremy Schwartz

Test Start: 2021.11.12 @ 21:55:00

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: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GIP	0.000

Total Length: ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

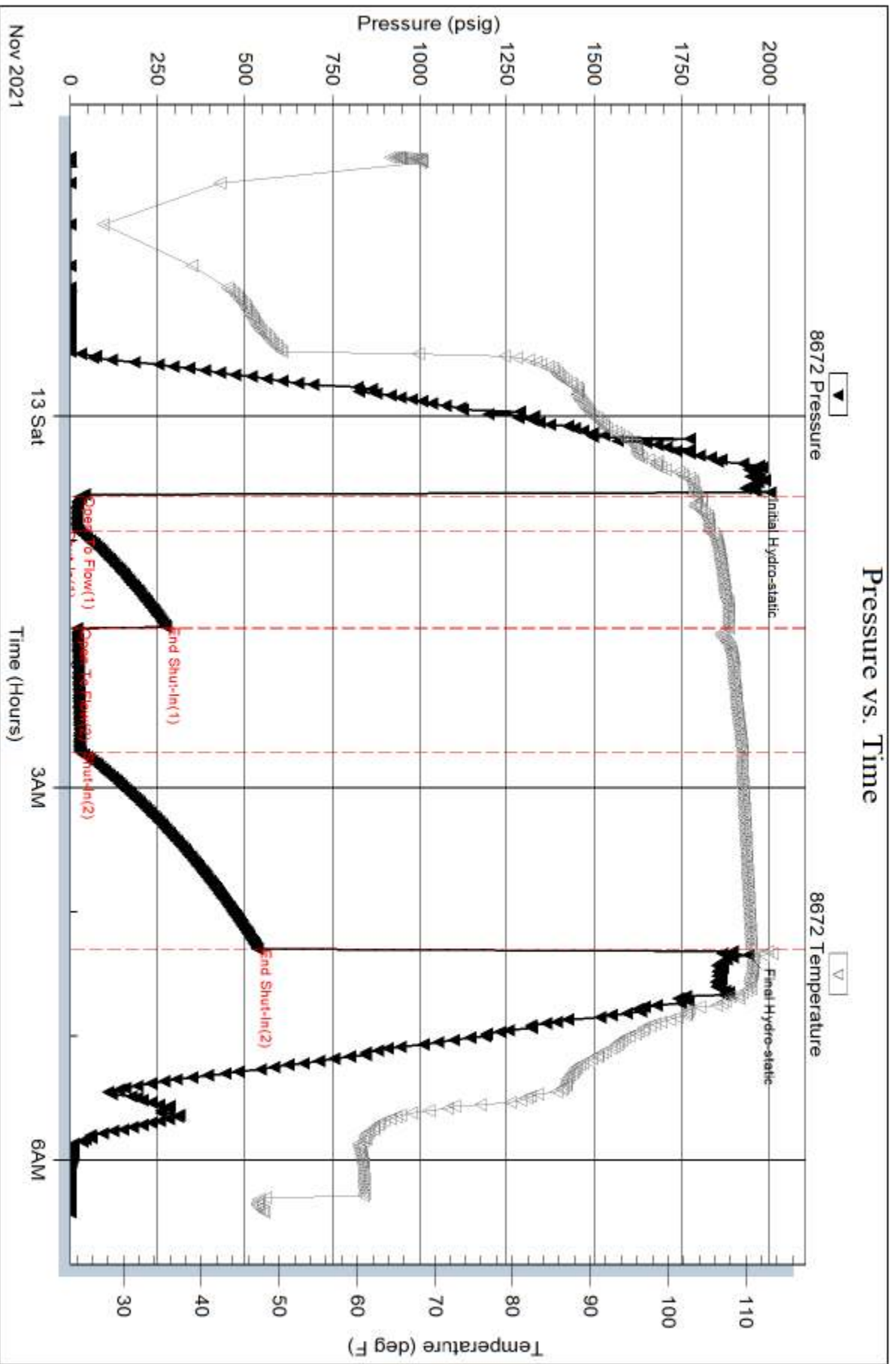
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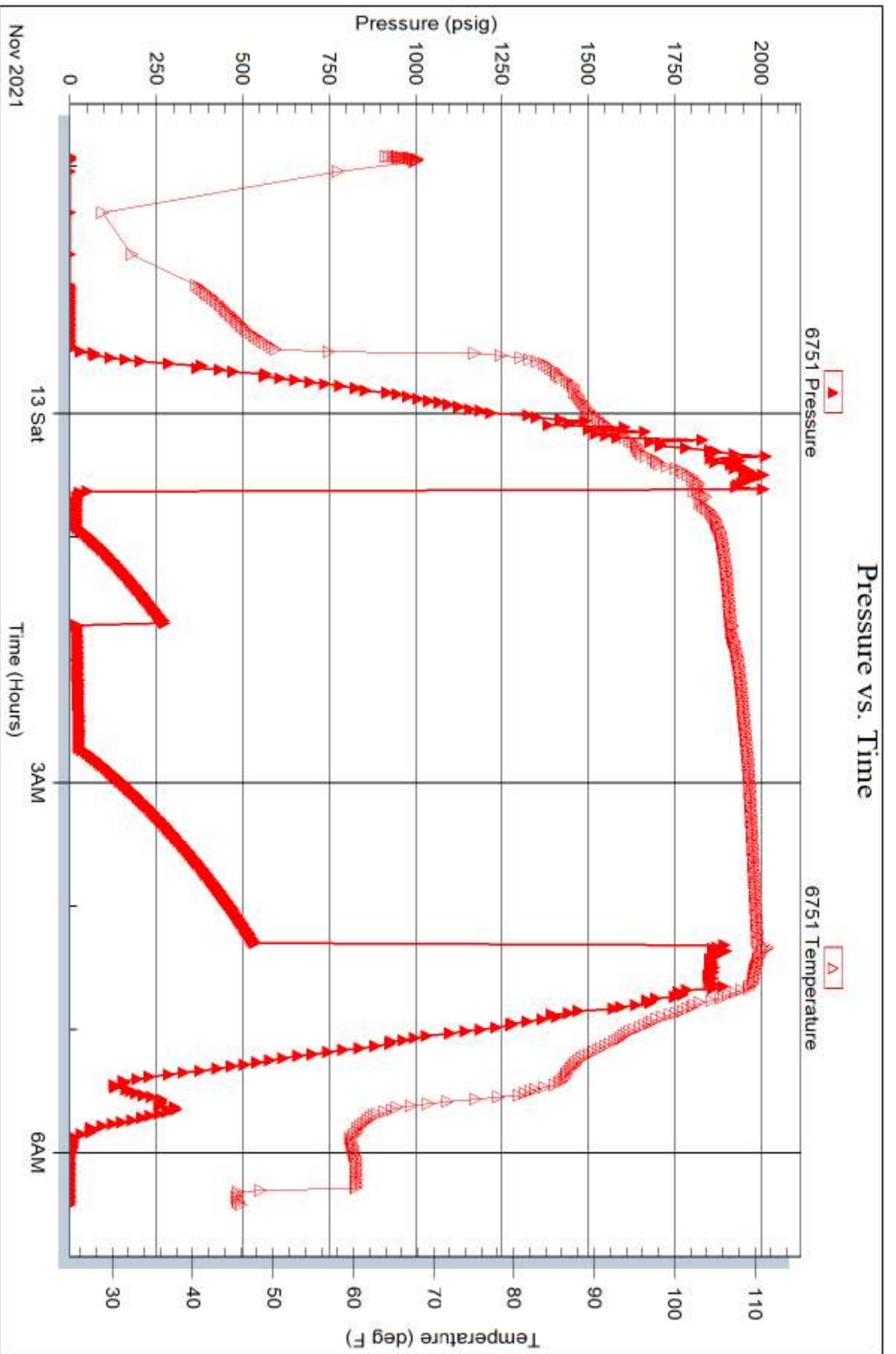
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shelby Resources LLC
3700 Quebec St.
Suite 100 PMB 376
Denver, CO 80207
ATTN: Jeremy Schwartz

31/24S/14W

Sewing 1-31

Job Ticket: 67649

DST#: 5

Test Start: 2021.11.13 @ 15:09:00

GENERAL INFORMATION:

Formation: **MISS**

Deviated: No Whipstock: 2008.00 ft (KB)

Time Tool Opened: 17:00:47

Time Test Ended: 23:11:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 4163.00 ft (KB) To 4205.00 ft (KB) (TVD)

Total Depth: 4205.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2008.00 ft (KB)

1998.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8672 Inside

Press@RunDepth: 34.55 psig @ 4164.00 ft (KB)

Start Date: 2021.11.13

End Date: 2021.11.13

Start Time: 15:09:01

End Time: 23:11:02

Capacity: psig

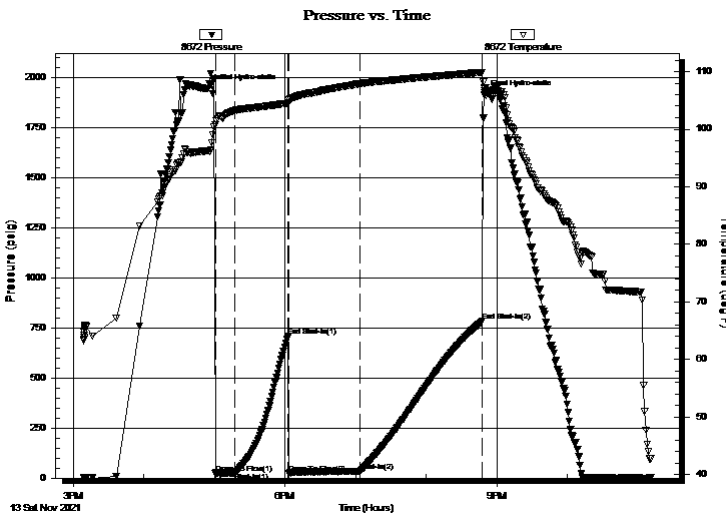
Last Calib.: 1899.12.30

Time On Btm: 2021.11.13 @ 16:54:17

Time Off Btm: 2021.11.13 @ 20:49:32

TEST COMMENT: IF 15 blow built to 5.8"
ISI 45 no blow
FF 60 blow built to 14.7"
FSI 90 no blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1943.74	96.23	Initial Hydro-static
7	22.04	100.74	Open To Flow (1)
24	27.10	103.25	Shut-In(1)
69	709.77	104.54	End Shut-In(1)
70	24.59	105.11	Open To Flow (2)
130	34.55	107.90	Shut-In(2)
234	782.78	109.85	End Shut-In(2)
236	1915.14	107.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	oil spotted mud	0.63

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

31/24S/14W

3700 Quebec St.
Suite 100 PMB 376
Denver, CO 80207

Sewing 1-31

Job Ticket: 67649

DST#: 5

ATTN: Jeremy Schwartz

Test Start: 2021.11.13 @ 15:09:00

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 12.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	oil spotted mud	0.631

Total Length: 45.00 ft Total Volume: 0.631 bbl

Num Fluid Samples: 0

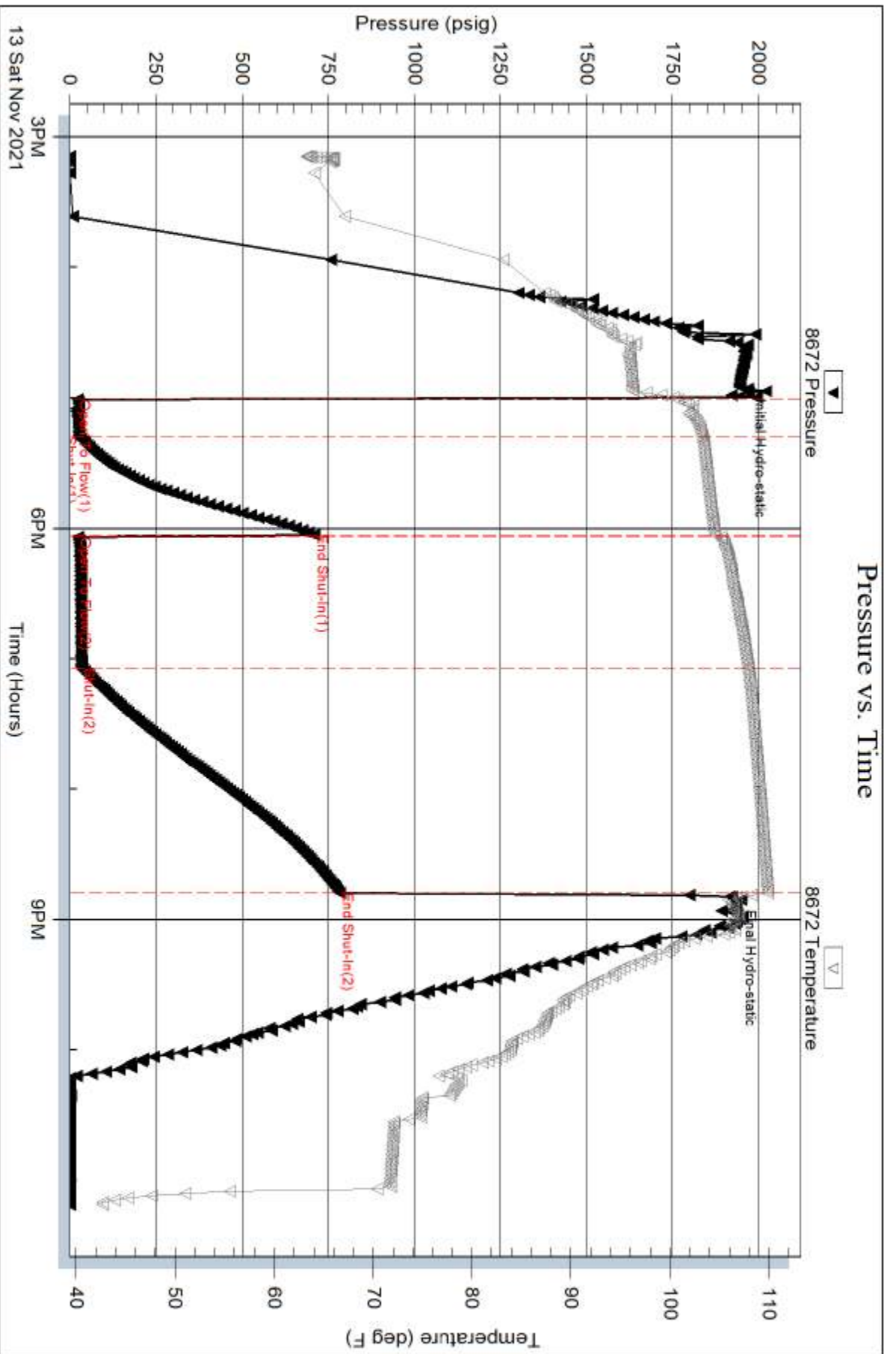
Num Gas Bombs: 0

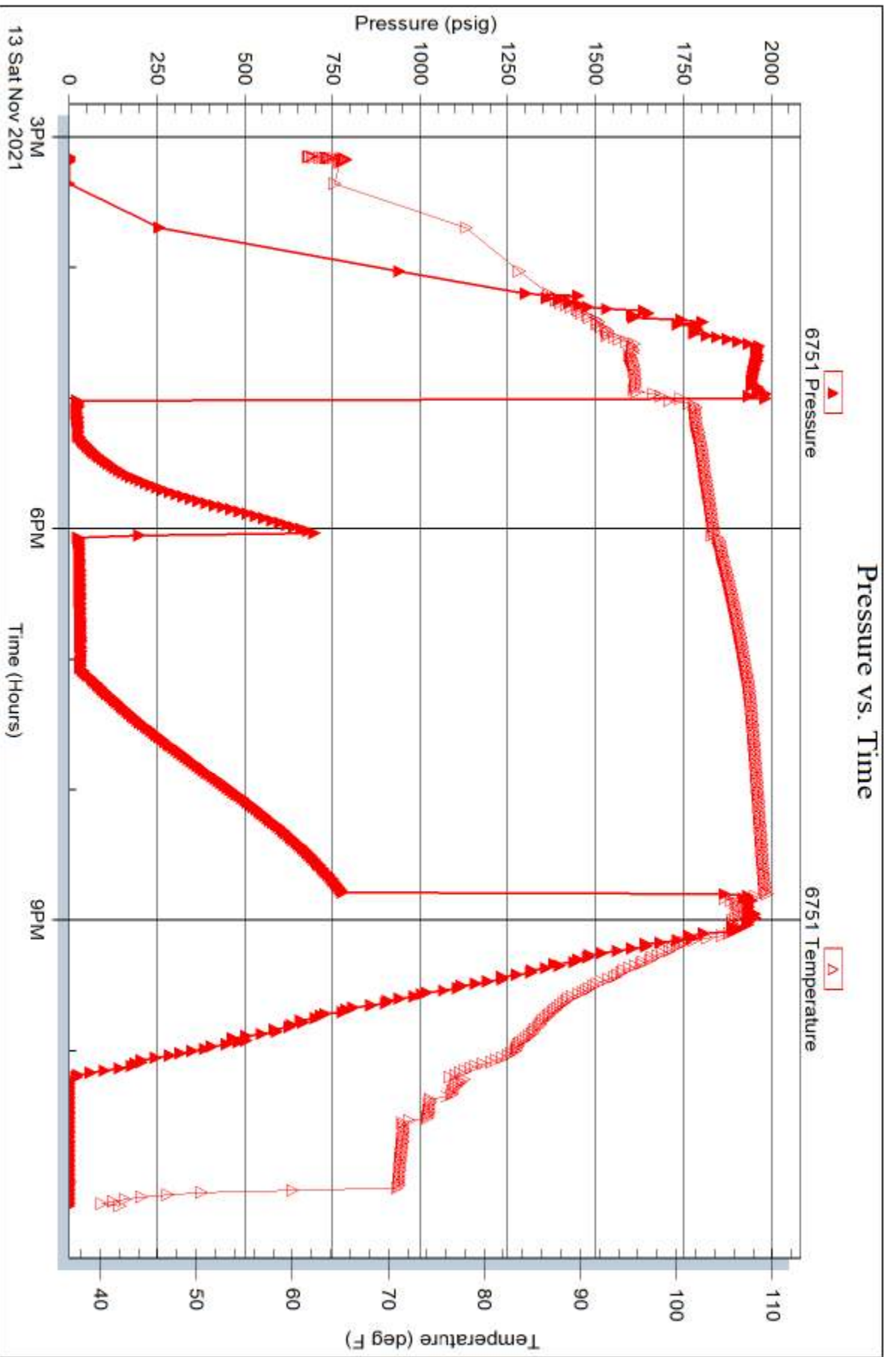
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 252' GIP







**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shelby Resources LLC
3700 Quebec St.
Suite 100 PMB 376
Denver, CO 80207
ATTN: Jeremy Schwartz

31/24S/14W

Sewing 1-31

Job Ticket: 67650

DST#: 6

Test Start: 2021.11.14 @ 11:36:00

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: 2008.00 ft (KB)

Time Tool Opened: 13:23:02

Time Test Ended: 19:24:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 4246.00 ft (KB) To 4278.00 ft (KB) (TVD)

Reference Elevations: 2008.00 ft (KB)

Total Depth: 4278.00 ft (KB) (TVD)

1998.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6751 Outside

Press@RunDepth: 20.21 psig @ 4248.00 ft (KB)

Capacity: psig

Start Date: 2021.11.14

End Date:

2021.11.14

Last Calib.: 1899.12.30

Start Time: 11:36:01

End Time:

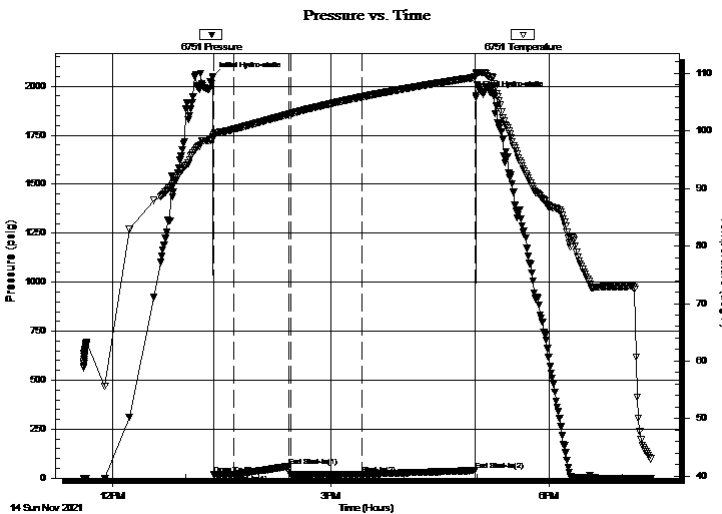
19:24:02

Time On Btm: 2021.11.14 @ 13:22:32

Time Off Btm: 2021.11.14 @ 16:59:32

TEST COMMENT: IF:15 min., w eak surface blow , .4 inches
IS:45 min., no blow back
FF:60 min., w eak surface blow , .4 inches
FS:90 min., no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2047.78	99.04	Initial Hydro-static
1	18.12	98.95	Open To Flow (1)
18	19.44	100.31	Shut-In(1)
63	60.30	102.93	End Shut-In(1)
64	18.13	102.97	Open To Flow (2)
123	20.21	105.94	Shut-In(2)
216	39.16	109.37	End Shut-In(2)
217	1951.78	110.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% mud	0.07

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shelby Resources LLC
 3700 Quebec St.
 Suite 100 PMB 376
 Denver, CO 80207
 ATTN: Jeremy Schwartz

31/24S/14W

Sewing 1-31

Job Ticket: 67650

DST#: 6

Test Start: 2021.11.14 @ 11:36:00

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: 2008.00 ft (KB)

Time Tool Opened: 13:23:02

Time Test Ended: 19:24:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 4246.00 ft (KB) To 4278.00 ft (KB) (TVD)

Total Depth: 4278.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2008.00 ft (KB)

1998.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8672

Press@RunDepth: psig @ ft (KB)

Start Date: 2021.11.14

End Date: 2021.11.14

Capacity: psig

Last Calib.: 1899.12.30

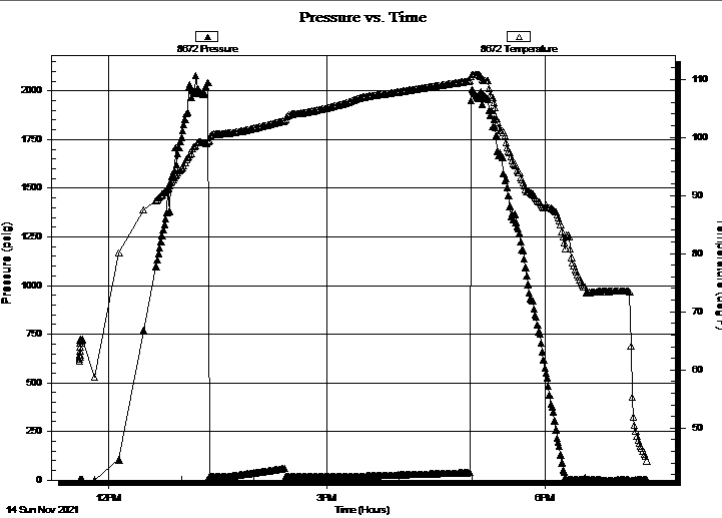
Start Time: 11:36:01

End Time: 19:24:02

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:15 min., w eak surface blow , .4 inches
 IS:45 min., no blow back
 FF:60 min., w eak surface blow , .4 inches
 FS:90 min., no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% mud	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

31/24S/14W

3700 Quebec St.
Suite 100 PMB 376
Denver, CO 80207

Sewing 1-31

Job Ticket: 67650

DST#: 6

ATTN: Jeremy Schwartz

Test Start: 2021.11.14 @ 11:36:00

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: 65.00 sec/qt

Cushion Volume: bbl

Water Loss: 12.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 10400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100%mud	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

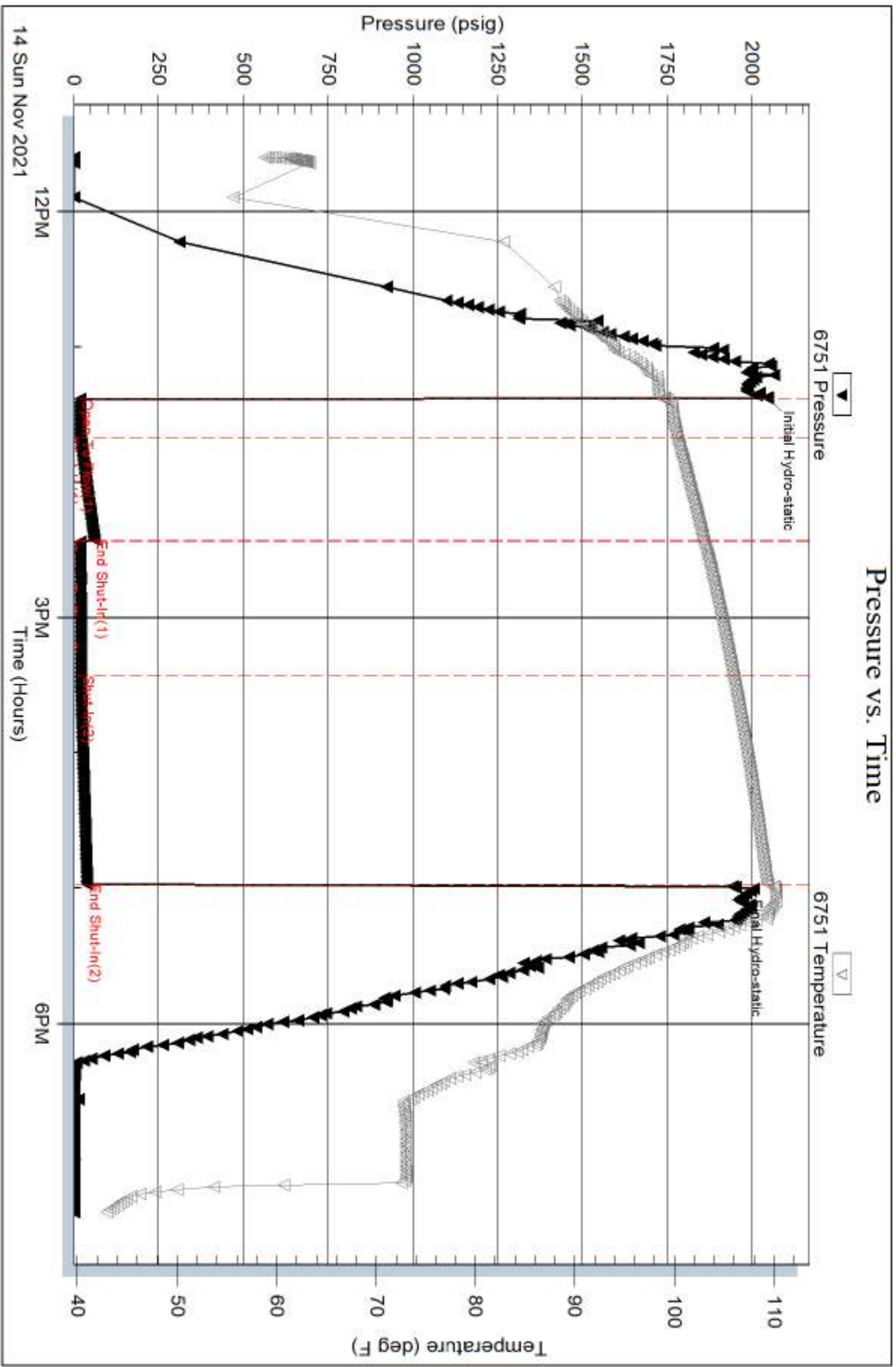
Num Gas Bombs: 0

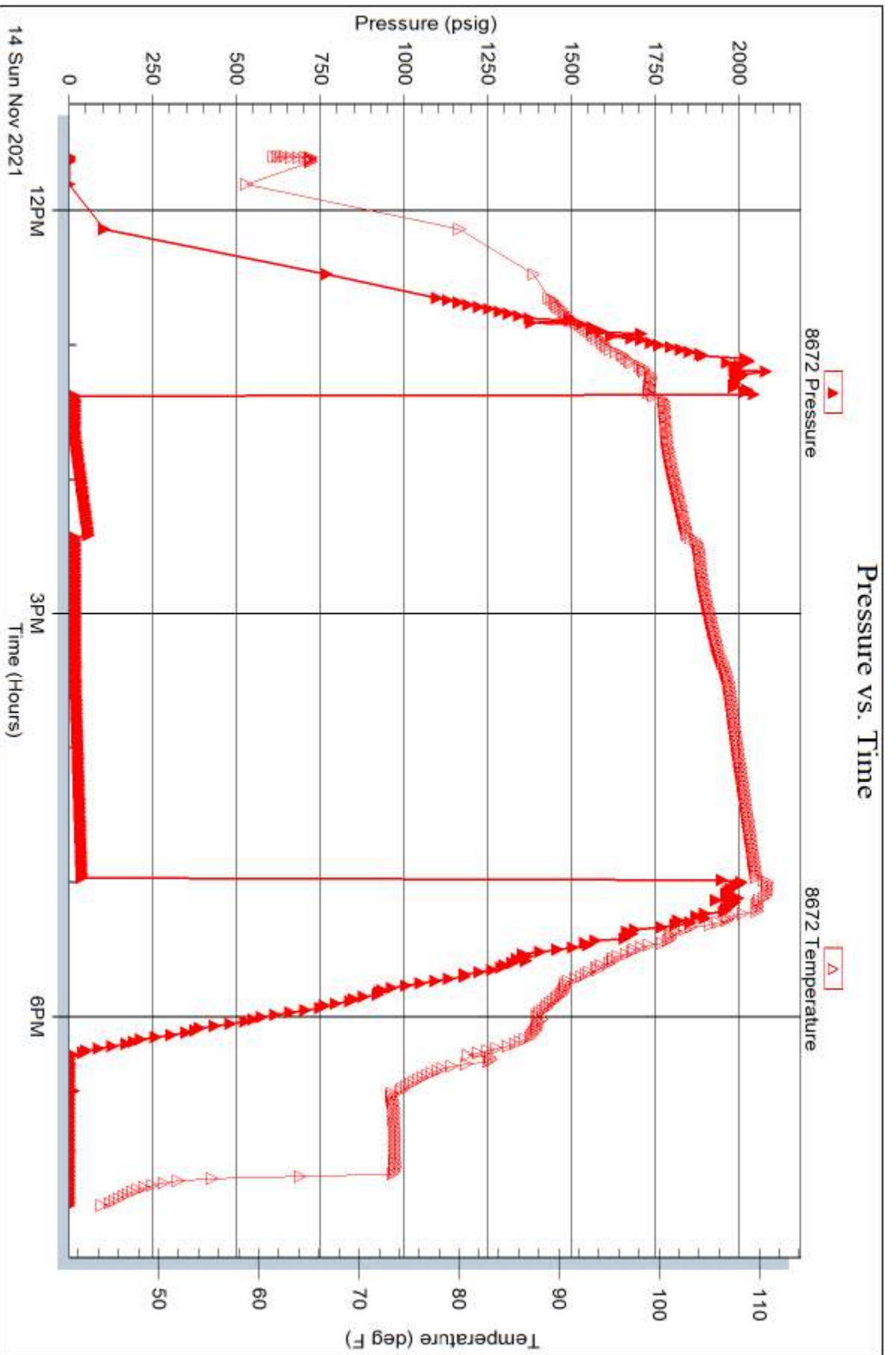
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 2587

Date	11-6-21	Sec.	31	Twp.	24	Range	14	County	Stafford	State	KS	On Location		Finish	7:30pm
								Location 2819 50 3+s 9w 25s							

Lease	Sewing	Well No.	1-31	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	Discovery			Charge To	Shelby Res
Type Job	SURFACE	Hole Size	12 1/4	T.D.	963
Csg.	8 5/8	Depth		Street	
Tbg. Size		Depth		City	State
Tool		Depth		The above was done to satisfaction and supervised by owner agent or contractor.	

Cement Left in Csg.	35 98	Shoe Joint	35 98	Cement Amount Ordered	450 4-2 1/2%
Meas Line		Displace	59	250 70/30 4%cc 1/2" # F10 Seal	

EQUIPMENT			COMMON		
Pumptrk	16	No. Cementer Helper	Bill	Poz. Mix	211
Bulktrk		No. Driver	CRAIG	Gel.	13
Bulktrk	21	No. Driver	Doug	Calcium	25

JOB SERVICES & REMARKS		HULLS	
Remarks:		Salt	
Rat Hole		Flowseal	350 #
Mouse Hole		Kol-Seal	
Centralizers		Mud CLR 48	
Baskets		CFL-117 or CD110 CAF 38	
D/V or Port Collar		Sand Handling	700
SURFACE not e 963 926 bbls Cement w/ 100 bbls 450 4-2 1/2% pump plug w/ 59 bbls Cement did not cure. Ran 1" e 40 w/ 100 70/30 4%cc		Mileage	

FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Baffle Plate	1
Rubber Plug	-1
Pumptrk Charge	Long Surface
Mileage	34

X Signature 	Tax	
	Discount	
	Total Charge	

2 Thanks

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071

Home Office P.O. Box 32 Russell, KS 67665

No. 2594

Cell 785-324-1041

Date	11-16-21	Sec.	31	Twp.	24	Range	14	County	Stafford	State	KS	On Location		Finish	2:30 PM
								Location							
								Mackville 3E 1 1/2 S							

Lease	Sewing	Well No.	7-31	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	Discovery				
Type Job	PTA				

Hole Size	7 7/8	T.D.		Charge To	Shelby Res
Csg.		Depth		Street	
Tbg. Size	4 1/2	Depth		City	State

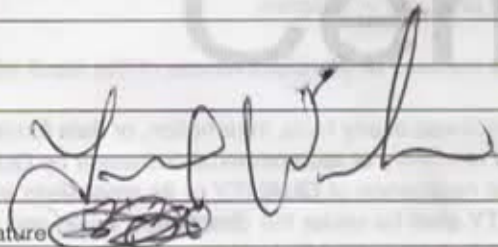
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered	250 yd 60/40 4% RL
Meas Line		Displace		5# Flow Seal	

EQUIPMENT					
Pumptrk	16	No.	Cementor	Common	139
			Helper	Poz. Mix	86
Bulktrk		No.	Driver	Gel.	8
			Driver	Calcium	
Bulktrk	14	No.	Driver		
			Driver		

JOB SERVICES & REMARKS					
Remarks:				Hulls	
Rat Hole	300 by			Salt	
Mouse Hole	20 sk			Flowseal	50#
Centralizers				Kol-Seal	
Baskets				Mud CLR 48	
D/V or Port Collar				CFL-117 or CD110 CAF 38	
	4402 - 50#			Sand	
	990 - 50#			Handling	228
	350 - 50#			Mileage	
	60' - 20#				
	30 RH				
	20 MH				

FLOAT EQUIPMENT					
				Guide Shoe	
				Centralizer	
				Baskets	
				AFU Inserts	
				Float Shoe	
				Latch Down	

				Pumptrk Charge	plug
				Mileage	34
				Tax	
				Discount	
				Total Charge	

X Signature 



Scale 1:240 Imperial

Well Name: Sewing #1-31
 Surface Location: 1914' FNL_927' FWL, Sec. 31-T24s-R14w
 Bottom Location:
 API: 15-185-24095-00-00
 License Number: 31725
 Spud Date: 11/5/2021 Time: 3:15 PM
 Region: Stafford Time: 12:50 PM
 Drilling Completed: 11/15/2021
 Surface Coordinates:
 Bottom Hole Coordinates:
 Ground Elevation: 1998.00ft
 K.B. Elevation: 2006.00ft
 Logged Interval: 3400.00ft To: 4437.00ft
 Total Depth: 4437.00ft
 Formation: Mississippian
 Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

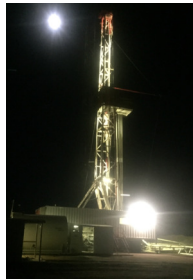
Company: Shelby Resources, LLC
 Address: 3700 Quebec St. Unit 100 PMB 376
 Denver, CO 80207

Contact Geologist: Jeff Zoller / Jeremy Schwartz
 Contact Phone Nbr: 620-786-0807 / 203-671-6034

Well Name: Sewing #1-31
 Location: 1914' FNL_927' FWL, Sec. 31-T24s-R14w
 API: 15-185-24095-00-00

Pool: State: Kansas Field: Satterlee
 Country: USA

LOGGED BY



Company: Mile High Exploration, LLC
 Address: 14645 Sterling Road
 Colorado Springs, CO 80921

Phone Nbr: 203-671-6034
 Logged By: Geologist Name: Jeremy Schwartz

NOTES

The Shelby Resources, LLC Sewing #1-31 was drilled to a total depth of 4437', bottoming in the Arbuckle. An iBall Instruments Bloodhound gas detector was employed in the drilling of said well.

Six DST's were conducted during the drilling of this well.

Due to negative drill stem tests and log analysis it was determined by all parties involved to plug and abandon the well. The dry samples were saved and will be available for further review at the Kansas Geological Society Well Sample Library, located in Wichita, KS.

Respectfully Submitted,
Jeremy Schwartz
Geologist

CONTRACTOR

Contractor: Discovery Drilling
Rig #: 2
Rig Type: mud rotary
Spud Date: 11/5/2021
TD Date: 11/15/2021
Rig Release:

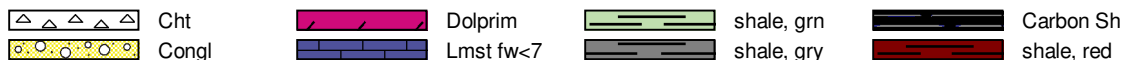
Time: 3:15 PM
Time: 12:50 PM
Time:

ELEVATIONS

K.B. Elevation: 2006.00ft
K.B. to Ground: 8.00ft
Ground Elevation: 1998.00ft

		OIL - P&A					D&A					OIL													
		D.R LAUCK					Big J Prod.					WHITE HAWK OIL													
		WATERS #1					Sewing #1					ELMORE #1													
		NW-NW-SW Sec. 31-24S-14W					S2-NW-NW Sec. 31-24S-14W					SE-SE-SE Sec. 25-24S-15W													
		Sewing #1-31					2006					2002					2005								
		2006		2006		2006		2006		2002		2002		2005		2005		2005		2005					
		LOG TOPS		SAMPLE TOPS		COMP. CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.			
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	
ANHYDRITE	958	1048	950	1056	945	1061	-	13	-	5	952	1050	-	2	+	6	955	1050	-	2	+	6			
HEEBNER SHALE	3584	-1578	3580	-1574	3600	-1594	+	16	+	20	3570	-1568	-	10	-	6	3596	-1591	+	13	+	17			
DOUGLAS	3622	-1616	3620	-1614	3643	-1637	+	21	+	23	3610	-1608	-	8	-	6	3634	-1629	+	13	+	15			
BROWN LIME	3730	-1724	3732	-1726	3747	-1741	+	17	+	15	3723	-1721	-	3	-	5	3743	-1738	+	14	+	12			
LANSING	3748	-1742	3747	-1741	3766	-1760	+	18	+	19	3736	-1734	-	8	-	7	3762	-1757	+	15	+	16			
MUNCIE CREEK	3878	-1872	3885	-1879	3899	-1893	+	21	+	14	3864	-1862	-	10	-	17	3886	-1881	+	9	+	2			
STARK	3958	-1952	3963	-1957	3978	-1972	+	20	+	15	3940	-1938	-	14	-	19	3962	-1957	+	5	+	0			
BKC	3994	-1988	3998	-1992	4010	-2004	+	16	+	12	3978	-1976	-	12	-	16	3998	-1993	+	5	+	1			
MISSISSIPPIAN	4157	-2151	4159	-2153	4189	-2183	+	32	+	30							4172	-2167	+	16	+	14			
KINDERHOOK	4197	-2191	4196	-2190	4216	-2210	+	19	+	20							4198	-2193	+	2	+	3			
VIOLA	4240	-2234	4246	-2240	4269	-2263	+	29	+	23	4182	-2180	-	54	-	60	4250	-2245	+	11	+	5			
SIMPSON SHALE	4370	-2364	4372	-2366	4358	-2352	-	12	-	14							4344	-2339	-	25	-	27			
ARBUCKLE	4422	-2416	4422	-2416	4408	-2402	-	14	-	14	4446	-2444	+	28	+	28	4396	-2391	-	25	-	25			
RTD			4437	-2431	4450	-2444			+	13	4477	-2475			+	44	4440	-2435				+	4		
LTD	4436	-2430			4443	-2437	+	7			4477	-2475	+	45											

ROCK TYPES



ACCESSORIES

MINERAL

P Pyrite

FOSSIL

Bioclastic or Fragmental
 Fossils < 20%
 Oolites
 Oomoldic

STRINGER

Chert
 Dolomite
 Limestone
 Sandstone
 Siltstone
 Shale

TEXTURE

C Chalky

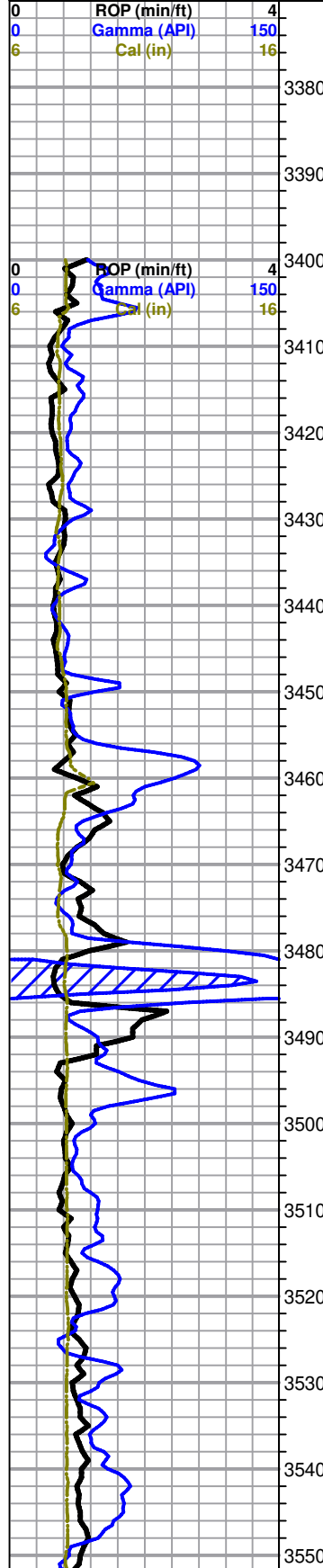
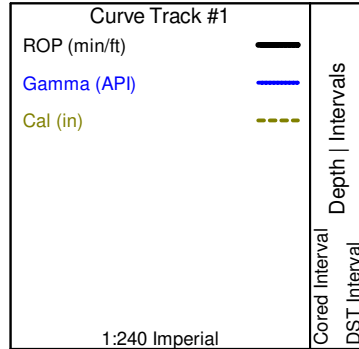
OTHER SYMBOLS

MISC

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

DST

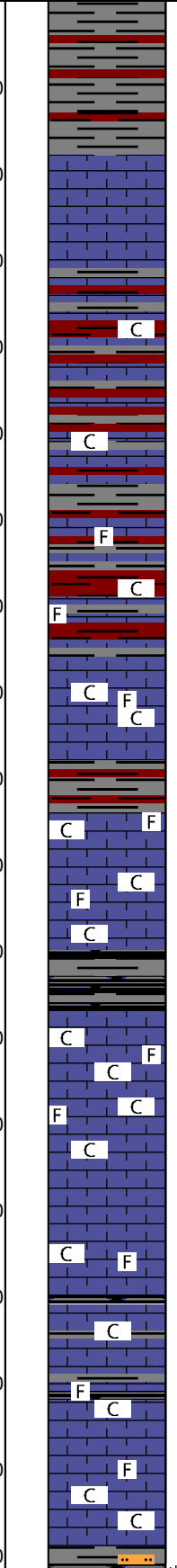
DST Int
 DST alt



DST

Lithology

Oil Show



Geological Descriptions

Logged By Jeremy Schwartz

Shelby Sewing 1-31 dst 1.jpg

Shelby Sewing 1-31 dst 2.jpg

Shelby Sewing 1-31 DST 3.jpg

Shelby Sewing 1-31 dst 4.jpg

Shelby Sewing 1-31 dst 5.jpg

Shelby Sewing 1-31 dst 6.jpg

Mostly red and gray shale, with some scattered LS, cream, micro-xln, dense with no vis porosity, slightly chalky, no show or odor

As above, with slight influx cream to gray LS, micro-xln, some slightly fossiliferous, some chalky, most dense with no vis porosity, no show or odor

LS as above, shale mostly dropped out, fairly chalky, no show or odor

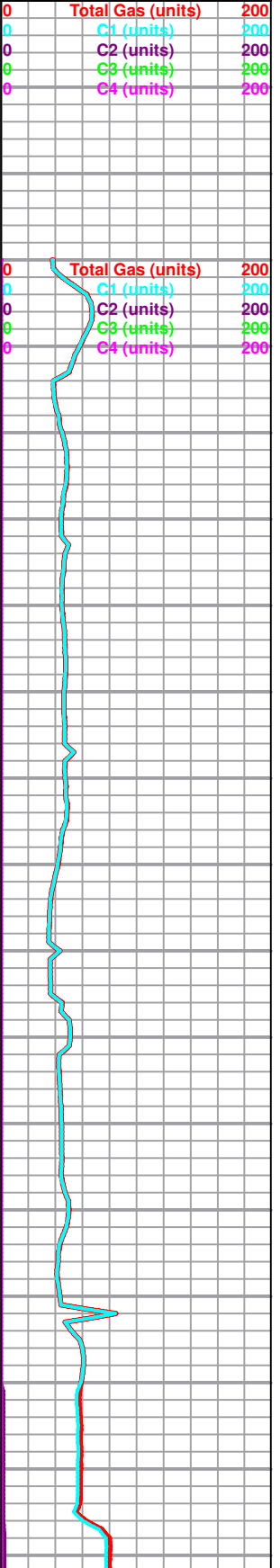
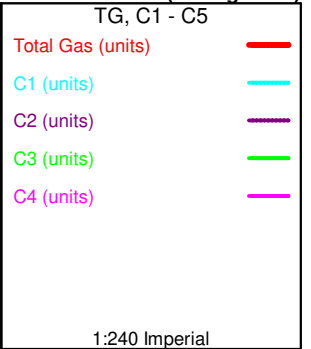
LS as above, fairly chalky, no show or odor

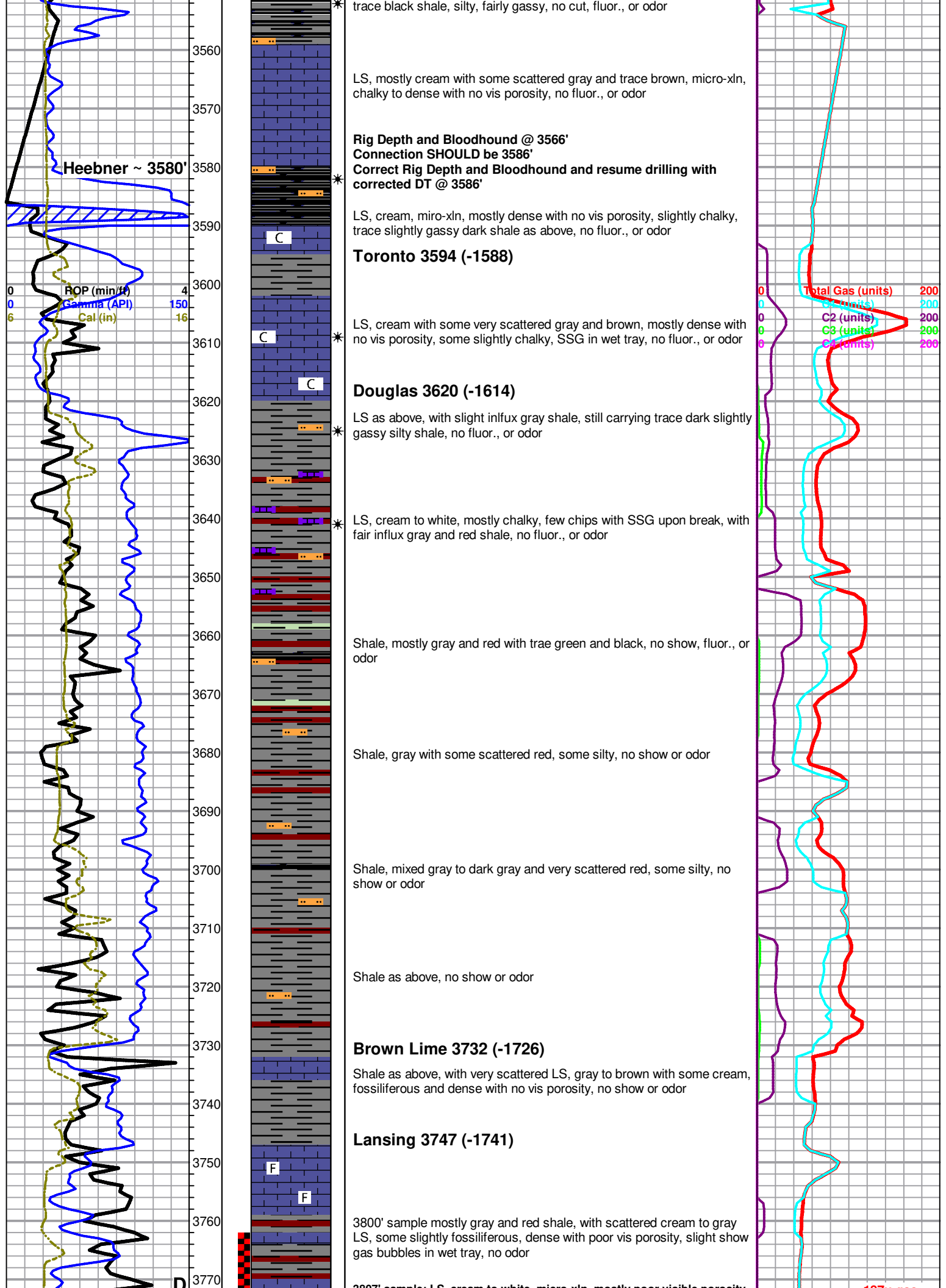
LS, cream to white with some scattered gray, micro-xln, chalky to slightly fossiliferous and dense with no vis porosity, chalky sample, no show or odor

As above, slightly less chalky, slight influx gray, dense with no vis porosity, no show or odor

LS as above, trace gray to black shale, fairly chalky, no show or odor

LS, mostly cream with some gray, chalky to dense with no vis porosity,





* trace black shale, silty, fairly gassy, no cut, fluor., or odor

LS, mostly cream with some scattered gray and trace brown, micro-xln, chalky to dense with no vis porosity, no fluor., or odor

Rig Depth and Bloodhound @ 3566'
Connection SHOULD be 3586'
Correct Rig Depth and Bloodhound and resume drilling with corrected DT @ 3586'

LS, cream, miro-xln, mostly dense with no vis porosity, slightly chalky, trace slightly gassy dark shale as above, no fluor., or odor

Toronto 3594 (-1588)

LS, cream with some very scattered gray and brown, mostly dense with no vis porosity, some slightly chalky, SSG in wet tray, no fluor., or odor

Douglas 3620 (-1614)

LS as above, with slight influx gray shale, still carrying trace dark slightly gassy silty shale, no fluor., or odor

LS, cream to white, mostly chalky, few chips with SSG upon break, with fair influx gray and red shale, no fluor., or odor

Shale, mostly gray and red with trae green and black, no show, fluor., or odor

Shale, gray with some scattered red, some silty, no show or odor

Shale, mixed gray to dark gray and very scattered red, some silty, no show or odor

Shale as above, no show or odor

Brown Lime 3732 (-1726)

Shale as above, with very scattered LS, gray to brown with some cream, fossiliferous and dense with no vis porosity, no show or odor

Lansing 3747 (-1741)

3800' sample mostly gray and red shale, with scattered cream to gray LS, some slightly fossiliferous, dense with poor vis porosity, slight show gas bubbles in wet tray, no odor

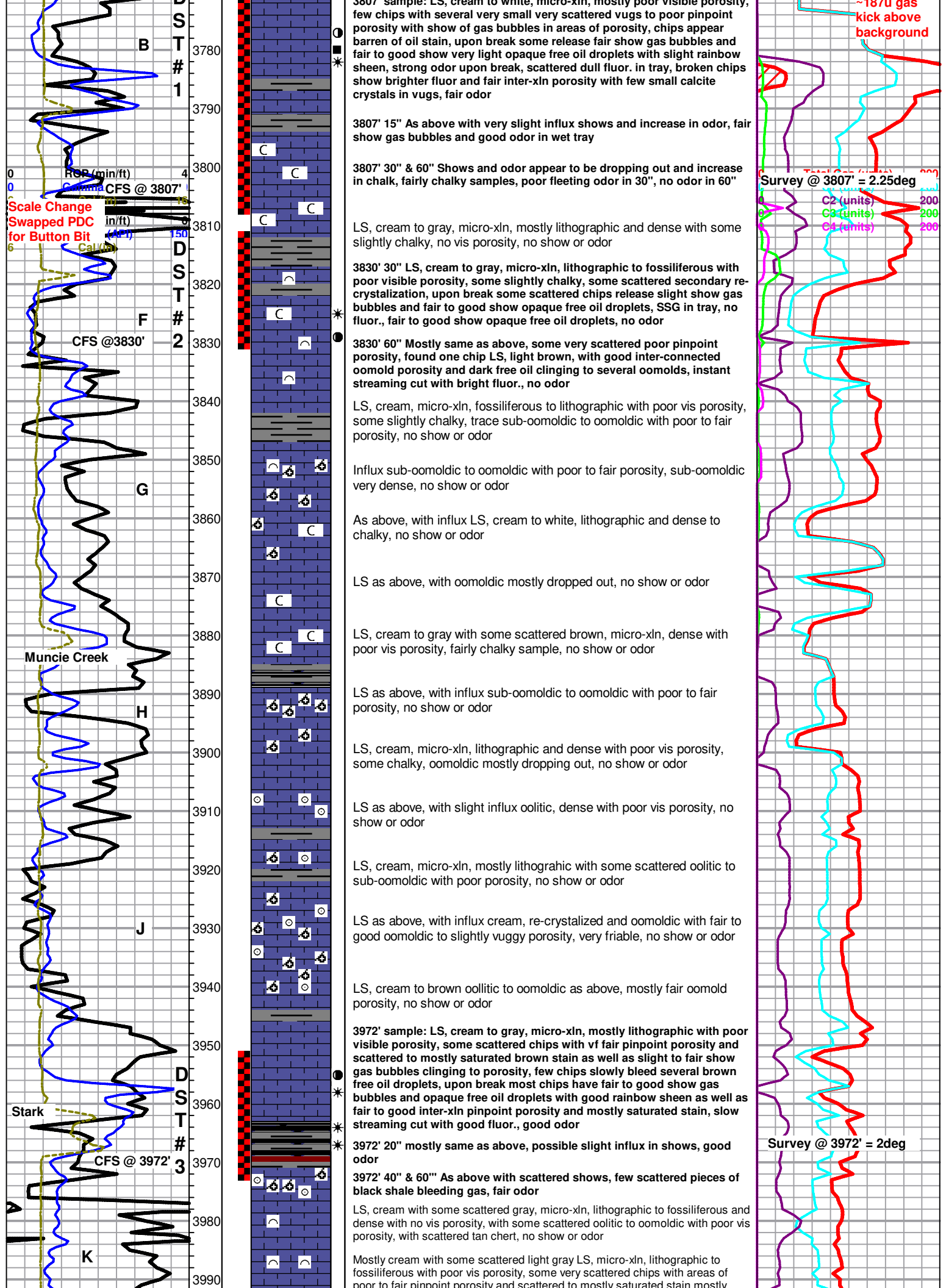
3807' sample: LS, cream to white, micro-xln, mostly non-visible porosity

ROP (min/ft) 4
 Gamma (API) 150
 Cal (in) 16

Total Gas (units) 200
 C1 (units) 200
 C2 (units) 200
 C3 (units) 200
 C4 (units) 200

D

107



poor to fair pinpoint porosity and scattered secondary carbonate cementation confined to areas of porosity, upon break chips show fair inter-xln pinpoint porosity and FSFO (brown droplets), fair odor

BKC 3998 (-1992)

4011' 20" Influx gray and red shale, trace LS with shows as above, poor odor

4011' 40" & 60" Influx cream with some very scattered light gray LS, lithographic to fossiliferous with poor vis porosity, no show or odor

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

Mostly gray with trace red shale and scattered LS as above, no show or odor

Shale with scattered LS as above, no show or odor

Shale, gray

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

Mostly shale and LS with some scattered chert as above, no show or odor

As above, with slight influx brown LS, slightly fossiliferous and dense with no vis porosity, no show or odor

Mostly gray shale with some red and scattered LS and cherts, chert is gray to tan with some off-white and trace red, weathered and dense with no vis porosity, no show or odor

Mixed shales, LS, and cherts as above, trace cream LS with scattered stain and mostly poor vis porosity, upon break SSG and fair show opaque oil droplets, no odor

As above, with fair show opaque free oil droplets in sample, no visible staining, fluor., or odor

As above, trace LS with scattered stain as described above, no fluor., or odor

Mixed shales, weathered cherts and LS as above, no show, fluor, or odor

Shale, LS, and weathered cherts, no show or odor

Conglomerate as above, no show or odor

Mississippian 4159 (-2153)

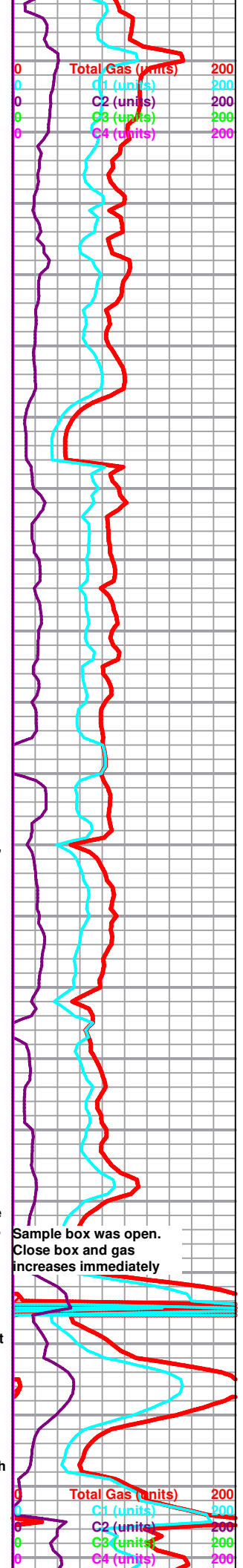
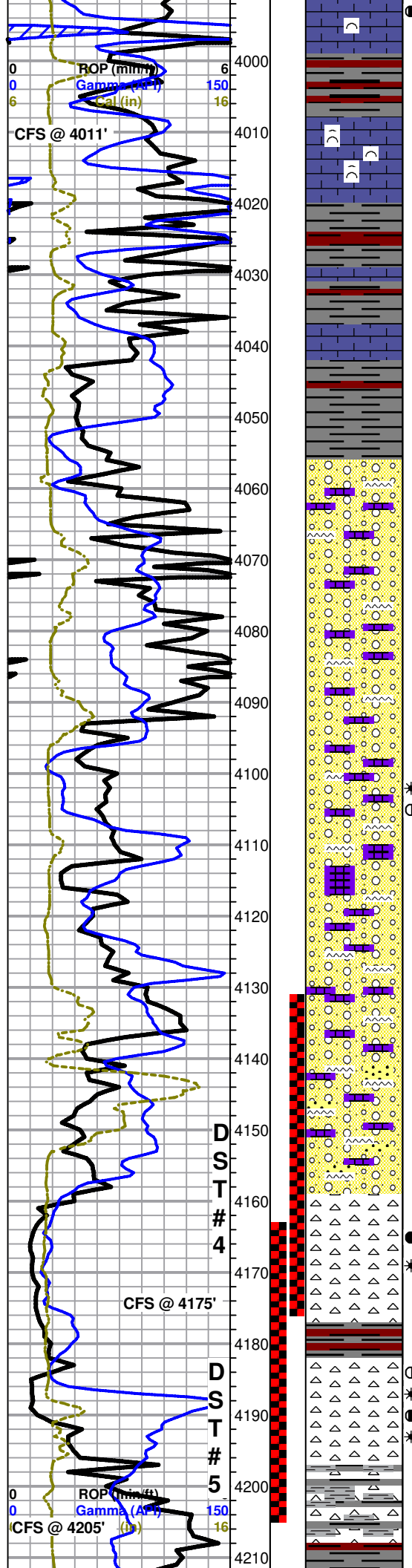
4175' 30" conglomerate as above, some scattered weathered white to off white and colored chert with scattered black asphaltic stain and poor visible porosity, NSFO or odor

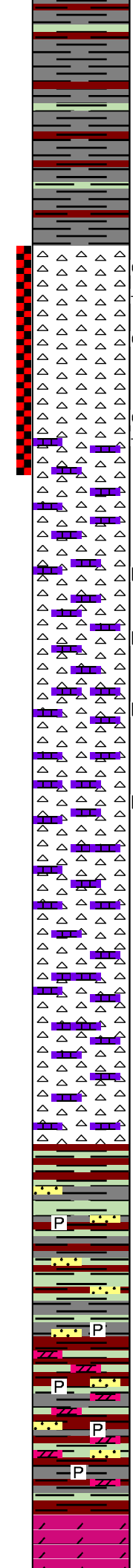
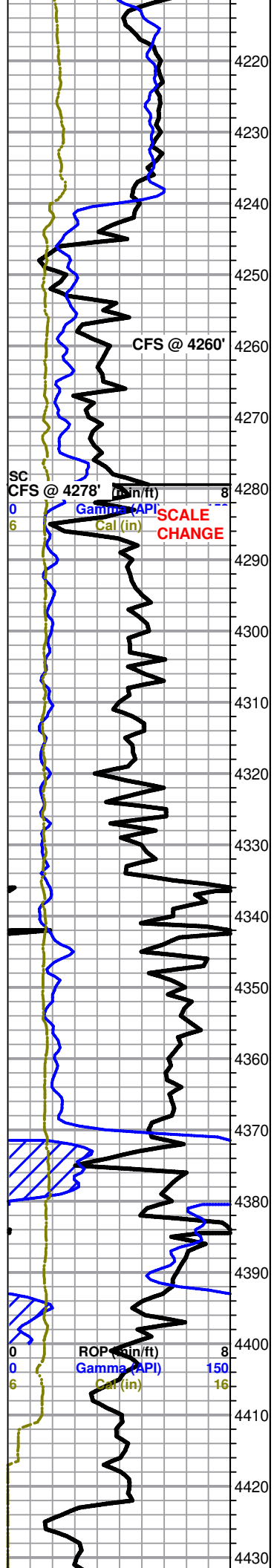
4175' 60" conglomerate, with fair influx cream colored to light brown weathered chert, mostly poor tripolitic porosity with very scattered small vugs in some chips, mostly saturated to saturated light brown stain, some slowly bleeding gas, upon break good show gas and fair to good show free oil (very light brown to opaque), some chips show fair pinpoint to slightly vuggy inter-xln porosity, poor odor

4175' 90" Mostly same as above, with influx cream to translucent chert, some weathered, some fresh and sharp, still carrying abundant chert as described above, some too dense to break, when agitated some release fair show brown free oil, good show opaque free oil in tray, strong fleeting odor

~4180' mostly gray and red shale with scattered translucent cherts, fresh and sharp, with slight influx bone white chert with areas of mostly poor tripolitic porosity and scattered stain, slight show gas bubbles in tray, some small chips with scattered fair vuggy porosity and saturated stain, fair fleeting odor

4205' sample: as above with continued influx of white to light brown





chert with scattered shows as above, some slowly bleed oil and gas to surface, upon break FSFO (opaque) in some chips, poor fleeting odor

4205' 20&40" Mostly translucent to white chert with shows as described above, most translucent chert is fresh and sharp and barren of porosity and shows, no odor

4205' 60" As above, shows becoming more scattered and influx gray shale and fresh white to translucent/yellowish chert barren of show or porosity, no odor

~4210'-4240' Gray shale with scattered red and trace green, no show or odor

Viola 4246 (-2240)

4260' 30" Influx white chert, mostly fresh and sharp with no vis porosity and barren, some scattered chips with areas of poor tripolitic porosity and scattered stain as well as slight show gas bubbles, few chips slowly bleed gas and light brown oil to surface, upon break few chips have S-FSFO and slight to fair show gas bubbles clinging to porosity, trace small friable chips with saturated stain, chips too dense to break release fair to good show light brown free oil when agitated, SSFO in tray, no odor

4260' 60" mostly same as above with shows slightly dropping out and slight influx scattered asphaltic stain on some fresh chert, few very scattered small chips with fair tripolitic porosity and saturated stain, friable with GSFO upon break, FSFO in tray, no odor

4278' 30" Mostly cream to white and translucent chert, fresh and sharp, some very scattered chips with scattered stain, some asphaltic, with slight influx cream to brown LS, dense with no vis porosity or stain, trace oomoldic and very dense, also with few very scattered pieces of chert bleeding oil and gas with GSFO, FSFO in tray, no odor

4278' 60" Chert with some very scattered LS as above, shows have mostly dropped out, NSFO or odor

~4290' influx LS, cream with some very scattered light gray, micro-xln, lithographic and dense with no vis porosity or shows, some slightly chalky, with some chert, white to cream, fresh and sharp and barren, trace scattered black asphaltic stain, no porosity and too dense to break, no fluor., or odor

~4300' LS with scattered chert as above, trace chips with mostly saturated black asphaltic stain, poor vis porosity, too dense to break, slow streaming cut, no fluor., or odor in tray

~4310'-4330' Mostly cream LS and scattered cream to white chert as above, shows appear to have dropped out, slightly chalky, trace gray, green, and red shale, no fluor, or odor

LS and chert as above, LS is cream to white with very scattered light gray, some chalky, some very dense with no vis porosity, Chert is mostly white with scattered cream and trace tan, fresh and sharp with no porosity or shows, trace gray, red, and pale yellow to green shale, no shows, fluor., or odor

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

As above, with large influx shale, green, red, and gray, with very scattered SS, clear to white, f-med grained, sub-rounded to rounded and fairly well sorted, some very dense, some fairly friable, very scattered pyrite, no shows or vis porosity, no odor

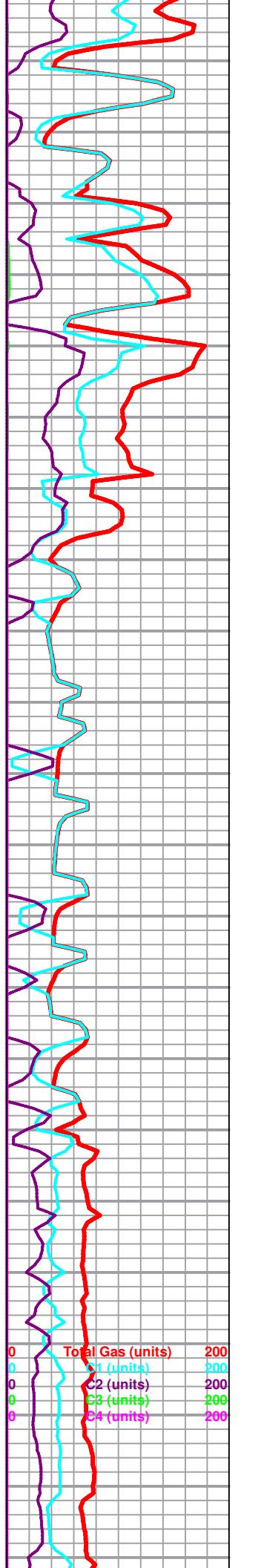
Mostly green, red, and gray shale with some scattered pale yellow, with very scattered SS as above, most dense, some fairly friable, with scattered pyrite, no shows or odor

As above, with slight influx light gray dolomite to dolomitic SS, poorly developed with poor to no vis porosity, most pyritic and dense, with very scattered dense SS as described above, some pyritic, most with scattered shale inclusions, some scattered dolomite and SS has scattered gilsonitic stain, upon break NSFO, no odor

Mostly red, green, and gray shale with scattered SS and dolomite to dolomitic SS as described above, scattered gilsonitic stain, with scattered pyrite NSFO, no odor

Arbuckle 4422 (-2431)

4437' 30" As above, with slight influx dolomite, cream, sucrosic and dense with poor vis porosity, some dense with fair vuggy porosity, no shows, poor sulphur odor in cup



4440

4450

4437' 60" Dolomite as above, some fair vuggy porosity, trace oomoldic, mostly dense, no show or odor

Rotary TD 4437' @ 1250hrs 11/15/21
Eli Wireline Services Logging TD @ 4436'
Complete Logging Operations @ 2300hrs 11/15/21





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shelby Resources LLC
 3700 Quebec St.
 Suite 100 PMB 376
 Denver, CO 80207
 ATTN: Jeremy Schwartz

31/24S/14W

Sewing 1-31

Job Ticket: 67645 **DST#: 1**
 Test Start: 2021.11.10 @ 00:13:00

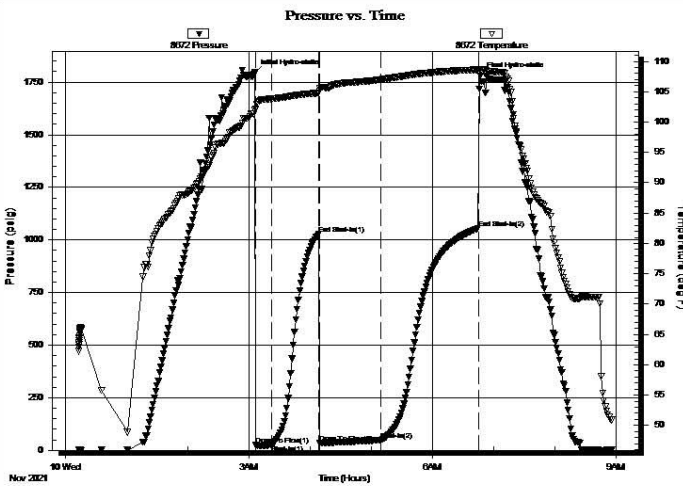
GENERAL INFORMATION:

Formation: **Lansing B**
 Deviated: No Whipstock: 2008.00 ft (KB)
 Time Tool Opened: 03:06:32
 Time Test Ended: 08:57:02
 Interval: **3763.00 ft (KB) To 3807.00 ft (KB) (TVD)**
 Total Depth: 3807.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 69
 Reference Elevations: 2008.00 ft (KB)
 1998.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8672 Inside
 Press@RunDepth: 48.36 psig @ 3765.00 ft (KB) Capacity: psig
 Start Date: 2021.11.10 End Date: 2021.11.10 Last Calib.: 2021.11.10
 Start Time: 00:13:01 End Time: 08:57:02 Time On Btm: 2021.11.10 @ 03:06:02
 Time Off Btm: 2021.11.10 @ 06:47:17

TEST COMMENT: IF: 15 min., Strong building blow, 10.5 inches
 IS: 45 min., No blow back
 FF: 60 min., Strong building blow, 10 inches
 FS: 90 min., No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1794.95	102.05	Initial Hydro-static
1	24.41	102.18	Open To Flow (1)
17	25.74	103.84	Shut-In(1)
63	1028.62	104.80	End Shut-In(1)
64	35.46	105.09	Open To Flow (2)
124	48.36	107.02	Shut-In(2)
219	1054.79	108.67	End Shut-In(2)
222	1778.63	108.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	gassy oily mud 95%M,3%O,2%G	0.87
0.00	500' GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shelby Resources LLC
 3700 Quebec St.
 Suite 100 PMB 376
 Denver, CO 80207
 ATTN: Jeremy Schwartz

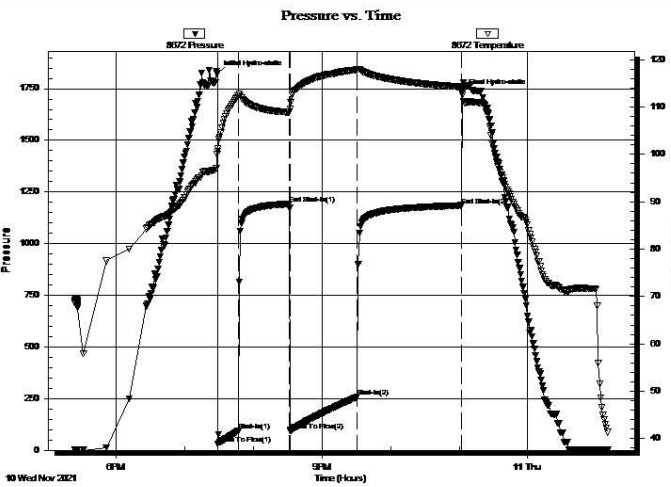
31/24S/14W
Sewing 1-31
 Job Ticket: 67646 **DST#: 2**
 Test Start: 2021.11.10 @ 17:24:00

GENERAL INFORMATION:

Formation: **Lansing F**
 Deviated: No Whipstock: 2008.00 ft (KB)
 Time Tool Opened: 19:29:02
 Time Test Ended: 01:10:02
 Interval: **3811.00 ft (KB) To 3830.00 ft (KB) (TVD)**
 Total Depth: 3830.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 69
 Reference Elevations: 2008.00 ft (KB)
 1998.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8672 Inside
 Press@RunDepth: 257.71 psig @ 3813.00 ft (KB) Capacity: psig
 Start Date: 2021.11.10 End Date: 2021.11.11 Last Calib.: 1899.12.30
 Start Time: 17:24:01 End Time: 01:10:02 Time On Btm: 2021.11.10 @ 19:28:32
 Time Off Btm: 2021.11.10 @ 23:03:02


TEST COMMENT: IF: 15 min., BOB 12 min., strong building blow , 15.5 inches
 ISl: 45 min., no blow back
 FF: 60 min., BOB 20 min., strong building blow , 35 inches
 FSl: 90 min., no blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1822.46	100.14	Initial Hydro-static
1	30.79	100.64	Open To Flow (1)
19	93.89	112.40	Shut-In(1)
63	1191.91	108.88	End Shut-In(1)
64	95.71	109.51	Open To Flow (2)
123	257.71	117.88	Shut-In(2)
214	1184.78	114.22	End Shut-In(2)
215	1731.30	112.47	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
465.00	gassy w ater 5%G,95%W	6.52

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)

 <p style="font-size: 2em; font-weight: bold; margin: 0;">TRILOBITE TESTING, INC.</p>	DRILL STEM TEST REPORT	
	Shelby Resources LLC 3700 Quebec St. Suite 100 PMB 376 Denver, CO 80207 ATTN: Jeremy Schwartz	31/24S/14W Sewing 1-31 Job Ticket: 67648 DST#: 4 Test Start: 2021.11.12 @ 21:55:00

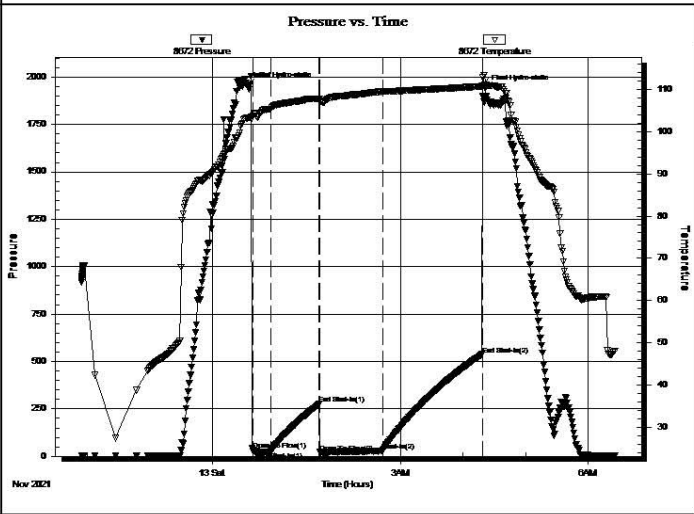
GENERAL INFORMATION:

Formation: Miss	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: 2008.00 ft (KB)	Tester: Chris Hagman
Time Tool Opened: 00:38:47	Unit No: 69
Time Test Ended: 06:25:02	
Interval: 4131.00 ft (KB) To 4175.00 ft (KB) (TVD)	Reference Elevations: 2008.00 ft (KB)
Total Depth: 4175.00 ft (KB) (TVD)	1998.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Good
	KB to GR/CF: 10.00 ft

Serial #: 8672 Inside

Press@RunDepth: 29.07 psig @ 4133.00 ft (KB)	Capacity: psig
Start Date: 2021.11.12 End Date: 2021.11.13	Last Calib.: 1899.12.30
Start Time: 21:55:01 End Time: 06:25:02	Time On Btm: 2021.11.13 @ 00:33:17
	Time Off Btm: 2021.11.13 @ 04:21:02


TEST COMMENT: IF:15 min,BOB 1 min, strong building blow , 39 inches
 ISl: 45 min, no blow back
 FF: 60 min, BOB ASAO strong dieing blow
 FSI: No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1952.94	103.25	Initial Hydro-static
6	31.64	103.53	Open To Flow (1)
23	22.29	105.32	Shut-In(1)
69	275.24	107.79	End Shut-In(1)
70	20.41	107.83	Open To Flow (2)
130	29.07	109.50	Shut-In(2)
225	537.20	110.75	End Shut-In(2)
228	1940.92	112.11	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
30.00	oil spotted mudd	0.42
0.00	527' GIP	0.00

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT	
	Shelby Resources LLC 3700 Quebec St. Suite 100 PMB 376 Denver, CO 80207 ATTN: Jeremy Schwartz	31/24S/14W Sewing 1-31 Job Ticket: 67649 DST#: 5 Test Start: 2021.11.13 @ 15:09:00

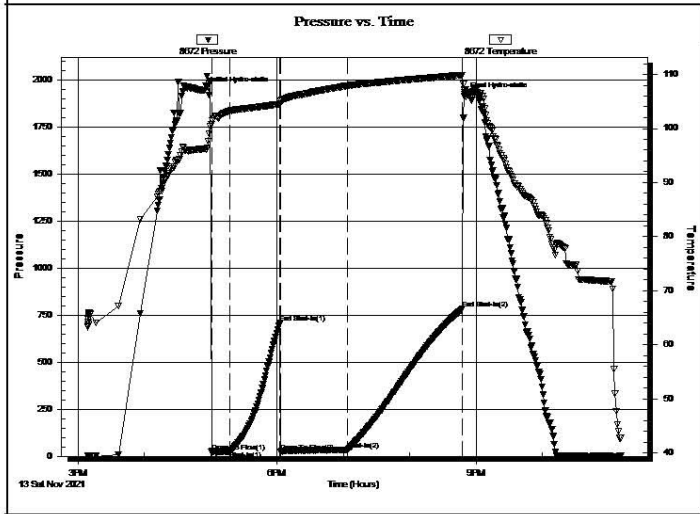
GENERAL INFORMATION:

Formation: MISS	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: 2008.00 ft (KB)	Tester: Chris Hagman
Time Tool Opened: 17:00:47	Unit No: 69
Time Test Ended: 23:11:02	
Interval: 4163.00 ft (KB) To 4205.00 ft (KB) (TVD)	Reference Elevations: 2008.00 ft (KB)
Total Depth: 4205.00 ft (KB) (TVD)	1998.00 ft (CF)
Hole Diameter: 7.88 inches	KB to GR/CF: 10.00 ft
Hole Condition: Good	

Serial #: 8672 Inside

Press@RunDepth: 34.55 psig @ 4164.00 ft (KB)	Capacity: psig
Start Date: 2021.11.13 End Date: 2021.11.13	Last Calib.: 1899.12.30
Start Time: 15:09:01 End Time: 23:11:02	Time On Btm: 2021.11.13 @ 16:54:17
	Time Off Btm: 2021.11.13 @ 20:49:32


TEST COMMENT: IF 15 blow built to 5.8"
 ISI 45 no blow
 FF 60 blow built to 14.7"
 FSI 90 no blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1943.74	96.23	Initial Hydro-static
7	22.04	100.74	Open To Flow (1)
24	27.10	103.25	Shut-In(1)
69	709.77	104.54	End Shut-In(1)
70	24.59	105.11	Open To Flow (2)
130	34.55	107.90	Shut-In(2)
234	782.78	109.85	End Shut-In(2)
236	1915.14	107.23	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
45.00	oil spotted mud	0.63
0.00	252' GIP	0.00

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)

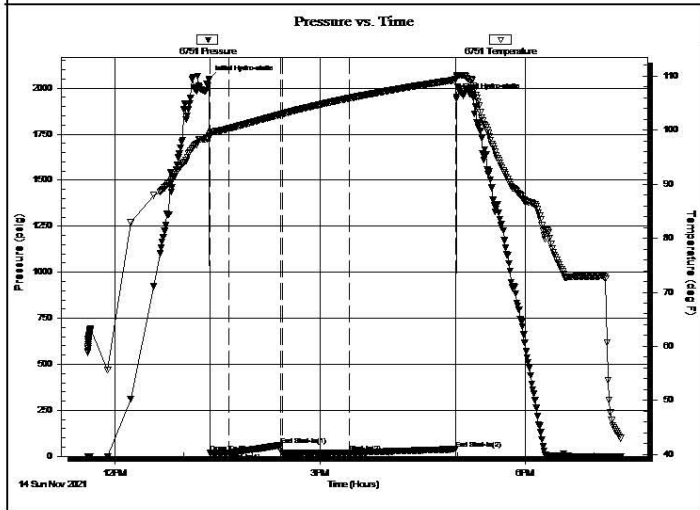
 <p style="font-size: 24pt; font-weight: bold; margin: 0;">TRILOBITE TESTING, INC.</p>	DRILL STEM TEST REPORT	
	<table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;"> Shelby Resources LLC 3700 Quebec St. Suite 100 PMB 376 Denver, CO 80207 ATTN: Jeremy Schwartz </td> <td style="width:50%; border: none; text-align: right;"> 31/24S/14W Sewing 1-31 Job Ticket: 67650 DST#: 6 Test Start: 2021.11.14 @ 11:36:00 </td> </tr> </table>	Shelby Resources LLC 3700 Quebec St. Suite 100 PMB 376 Denver, CO 80207 ATTN: Jeremy Schwartz
Shelby Resources LLC 3700 Quebec St. Suite 100 PMB 376 Denver, CO 80207 ATTN: Jeremy Schwartz	31/24S/14W Sewing 1-31 Job Ticket: 67650 DST#: 6 Test Start: 2021.11.14 @ 11:36:00	

GENERAL INFORMATION:

Formation: Viola Deviated: No Whipstock: 2008.00 ft (KB) Time Tool Opened: 13:23:02 Time Test Ended: 19:24:02 Interval: 4246.00 ft (KB) To 4278.00 ft (KB) (TVD) Total Depth: 4278.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Good	Test Type: Conventional Bottom Hole (Initial) Tester: Chris Hagman Unit No: 69 Reference Elevations: 2008.00 ft (KB) 1998.00 ft (CF) KB to GR/CF: 10.00 ft
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Serial #: 6751	Outside				
Press@RunDepth:	20.21 psig @	4248.00 ft (KB)	Capacity:		psig
Start Date:	2021.11.14	End Date:	2021.11.14	Last Calib.:	1899.12.30
Start Time:	11:36:01	End Time:	19:24:02	Time On Btm:	2021.11.14 @ 13:22:32
				Time Off Btm:	2021.11.14 @ 16:59:32

TEST COMMENT: IF:15 min., w eak surface blow , .4 inches
 IS:45 min., no blow back
 FF:60 min., w eak surface blow , .4 inches
 FSI:90 min., no blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2047.78	99.04	Initial Hydro-static
1	18.12	98.95	Open To Flow (1)
18	19.44	100.31	Shut-In(1)
63	60.30	102.93	End Shut-In(1)
64	18.13	102.97	Open To Flow (2)
123	20.21	105.94	Shut-In(2)
216	39.16	109.37	End Shut-In(2)
217	1951.78	110.07	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	100% mud	0.07

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)

CLIENT:	Shelby Resources, LLC
WELL NAME:	Sewing #1-31
LEGAL:	SW-NE-SW-NW Sec. 31-T24S-R14W
COUNTY:	Stafford
API :	15-185-24095-00-00
DRLG CONTRACTOR:	Discovery Drilling
RIG #:	2
DOGHOUSE #:	(785) 635-1412
TOOLPUSHER:	Terry Wickham
CELL #:	(785) 259-3263

				OIL - P&A					D&A					OIL																					
				D.R LAUCK					Big J Prod.					WHITE HAWK OIL																					
				WATERS #1					Sewing #1					ELMORE #1																					
				NW-NW-SW Sec. 31-24S-14W					S2-NW-NW Sec. 31-24S-14W					SE-SE-SE Sec. 25-24S-15W																					
Sewing #1-31				2006					2002					2005																					
KB				2006					2002					2005																					
LOG TOPS				SAMPLE TOPS		COMP. CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.													
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.											
ANHYDRITE	958	1048	950	1056	945	1061	-	13	-	5	952	1050	-	2	+	6	955	1050	-	2	+	6													
HEEBNER SHALE	3584	-1578	3580	-1574	3600	-1594	+	16	+	20	3570	-1568	-	10	-	6	3596	-1591	+	13	+	17													
DOUGLAS	3622	-1616	3620	-1614	3643	-1637	+	21	+	23	3610	-1608	-	8	-	6	3634	-1629	+	13	+	15													
BROWN LIME	3730	-1724	3732	-1726	3747	-1741	+	17	+	15	3723	-1721	-	3	-	5	3743	-1738	+	14	+	12													
LANSING	3748	-1742	3747	-1741	3766	-1760	+	18	+	19	3736	-1734	-	8	-	7	3762	-1757	+	15	+	16													
MUNCIE CREEK	3878	-1872	3885	-1879	3899	-1893	+	21	+	14	3864	-1862	-	10	-	17	3886	-1881	+	9	+	2													
STARK	3958	-1952	3963	-1957	3978	-1972	+	20	+	15	3940	-1938	-	14	-	19	3962	-1957	+	5	+	0													
BKC	3994	-1988	3998	-1992	4010	-2004	+	16	+	12	3978	-1976	-	12	-	16	3998	-1993	+	5	+	1													
MISSISSIPPIAN	4157	-2151	4159	-2153	4189	-2183	+	32	+	30							4172	-2167	+	16	+	14													
KINDERHOOK	4197	-2191	4196	-2190	4216	-2210	+	19	+	20							4198	-2193	+	2	+	3													
VIOLA	4240	-2234	4246	-2240	4269	-2263	+	29	+	23	4182	-2180	-	54	-	60	4250	-2245	+	11	+	5													
SIMPSON SHALE	4370	-2364	4372	-2366	4358	-2352	-	12	-	14							4344	-2339	-	25	-	27													
ARBUCKLE	4422	-2416	4422	-2416	4408	-2402	-	14	-	14	4446	-2444	+	28	+	28	4396	-2391	-	25	-	25													
RTD			4437	-2431	4450	-2444	+		+	13	4477	-2475	+		+	44	4440	-2435				+	4												
LTD	4436	-2430			4443	-2437	+	7			4477	-2475	+	45																					
TESTED												TESTED												TESTED											
DST #1 4175-84 (Miss) Open 1hr - strong blow / GTS 4min 130' HOGCM SIP: 1430 - 1230#												DST #1 2127-2200 (Towanda) 15-30-15-30 65' GCM SIP: 527 - 467#												DST #1 4154-97 (Miss) Open 35min / GTS 7min Flow Mud in 30min, oil in 35min 4197' GO / NW SIP: 1360#											
DST #2 4193-4219 (Miss) Open 1hr - good blow 960' GIP, 130' VSOGCM SIP: 1430 - 310#												DST #2 3866-3900 (LKC H-I) 30-30-30-30 210' MW SIP: 1348 - 1263#												DST #2 4250-4310 (Viola) Open 1hr - strong blow 60' MW w/tr Oil, 850' MW SIP: 902# / 20min											
DST #3 4402-10 (Arbuckle) Open 1hr - weak to fair blow 540' GIP, 445' froggy oil, 60' OCV SIP: 1480 - 1405#												DST #3 3938-60 MISRUN DST #4 3938-60 (LKC K) 15-45-45-45 5' Mud SIP: 710 - 476												DST #3 4396-4310 (Arbuckle) Open 1hr - weak blow 10' Mud SIP: 60# / 20min											
DST #4 4423-44 (Arbuckle) Open 1hr - strong blow 3120' WTR SIP: 1447#												DST #5 INTV NA MISRUN DST #6 4118-70 (Miss) 15-45-45-45 120' Mud SIP: 1985 - 1921																							
												DST #7 INTV NA MISRUN DST #8 4186-4240 (Viola) 15-30-30-30 10' Mud SIP: 86 - 64#																							
Completion Info Perf 4409-12 (Arbuckle) - WTR - Non Prod Perf 4196-4202 (Miss) Ac-Frac SWB 120 BO NW / 12hrs IP 115 BOPD No CUM Data Plugged <2yrs												Completion Info D&A												Completion Info Perf 4172-78 (Miss) Tst 25 GOPH / 3hrs / NW 500 gal mud acid / Flow 93 BO in 9hrs IP 265 BOPD FLO POT CUM PROD: ~180,000 bbls (1964 - 6/21) Still Producing											