

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

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

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

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

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

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

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

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

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

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

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

Prepared For: **Shelby Resouces LLC**

3700 Quebec St Suite 100 PMB 376  
Denver CO 80207

ATTN: Jeremy Schwartz

### **Van Winkle #1-1**

#### **1-18S-14W Barton,KS**

Start Date: 2022.04.15 @ 02:11:44

End Date: 2022.04.15 @ 09:43:04

Job Ticket #: 68932                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.04.19 @ 16:21:33



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shelby Resources LLC

**1-18S-14W Barton,KS**

3700 Quebec St Suite 100 PMB 376  
Denver CO 80207

**Van Winkle #1-1**

Job Ticket: 68932

**DST#: 1**

ATTN: Jeremy Schwartz

Test Start: 2022.04.15 @ 02:11:44

## GENERAL INFORMATION:

Formation: **LKC A - F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:08:54

Time Test Ended: 09:43:04

Test Type: Conventional Bottom Hole (Initial)

Tester: Eric Burgess

Unit No: 80

**Interval: 3099.00 ft (KB) To 3170.00 ft (KB) (TVD)**

Reference Elevations: 1840.00 ft (KB)

Total Depth: 3170.00 ft (KB) (TVD)

1832.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

**Serial #: 8369 Outside**

Press@RunDepth: 53.53 psig @ 3106.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.04.15

End Date:

2022.04.15

Last Calib.:

2022.04.15

Start Time: 02:11:45

End Time:

09:43:04

Time On Btm:

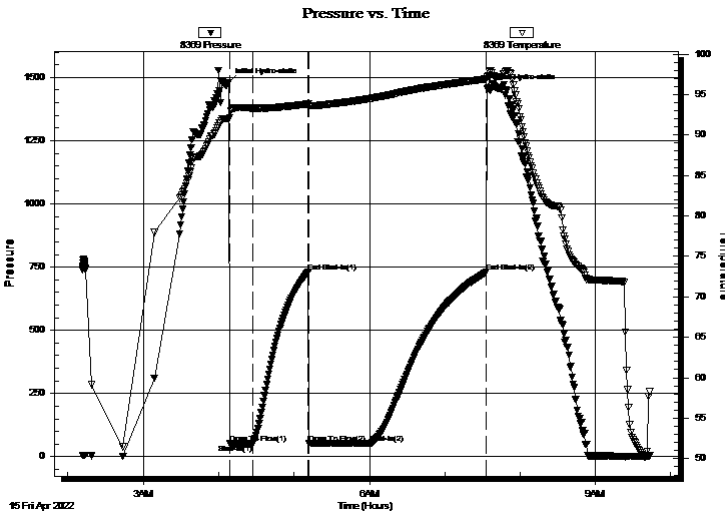
2022.04.15 @ 04:08:04

Time Off Btm:

2022.04.15 @ 07:34:44

**TEST COMMENT:** IF:Fair Building Blow built to 5" in bucket (15)  
IS:No Blow Back (45)  
FF:Weak Building Blow built to .25" in bucket (45)  
FS:No Blow Back (90)

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1480.58	92.05	Initial Hydro-static
1	52.76	92.10	Open To Flow (1)
20	51.56	93.31	Shut-In(1)
64	730.82	93.85	End Shut-In(1)
65	54.39	93.51	Open To Flow (2)
113	53.53	94.51	Shut-In(2)
205	729.81	96.93	End Shut-In(2)
207	1457.24	97.33	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	M 100%M	0.61

## Gas Rates

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



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Shelby Resouces LLC

**1-18S-14W Barton,KS**

3700 Quebec St Suite 100 PMB 376  
Denver CO 80207

**Van Winkle #1-1**

Job Ticket: 68932

**DST#: 1**

ATTN: Jeremy Schwartz

Test Start: 2022.04.15 @ 02:11:44

**GENERAL INFORMATION:**

Formation: **LKC A - F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:08:54

Time Test Ended: 09:43:04

Test Type: Conventional Bottom Hole (Initial)

Tester: Eric Burgess

Unit No: 80

**Interval: 3099.00 ft (KB) To 3170.00 ft (KB) (TVD)**

Total Depth: 3170.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1840.00 ft (KB)

1832.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8846 Outside**

Press@RunDepth: psig @ 3106.00 ft (KB)

Start Date: 2022.04.15

End Date: 2022.04.15

Start Time: 02:11:14

End Time: 09:42:33

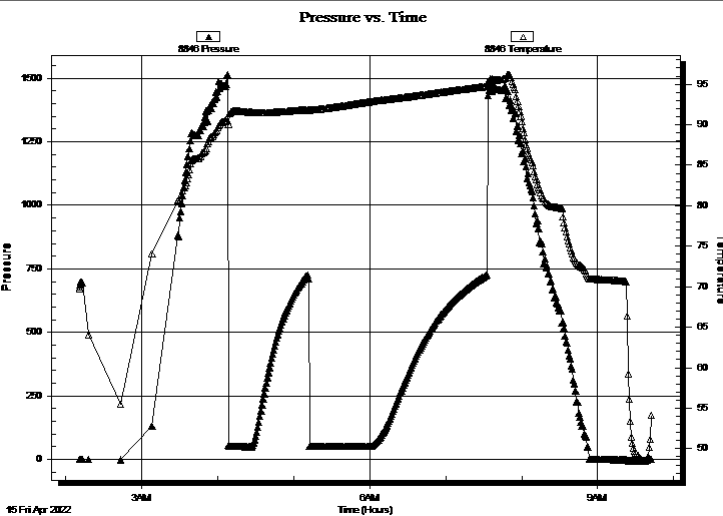
Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF:Fair Building Blow built to 5" in bucket (15)  
IS:No Blow Back (45)  
FF:Weak Building Blow built to .25" in bucket (45)  
FS:No Blow Back (90)



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
63.00	M 100%M	0.61

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shelby Resources LLC

**1-18S-14W Barton,KS**

3700 Quebec St Suite 100 PMB 376  
Denver CO 80207

**Van Winkle #1-1**

Job Ticket: 68932

**DST#: 1**

ATTN: Jeremy Schwartz

Test Start: 2022.04.15 @ 02:11:44

## Tool Information

Drill Pipe:	Length: 3062.00 ft	Diameter: 3.80 inches	Volume: 42.95 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	40000.00 lb
			<u>Total Volume: 43.10 bbl</u>	Tool Chased	12.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3099.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	71.00 ft				
Tool Length:	102.00 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			3069.00	
Shut In Tool	5.00			3074.00	
Hydraulic tool	5.00			3079.00	
EM TOOL	3.00			3082.00	
Jars	5.00			3087.00	
Safety Joint	3.00			3090.00	
Packer	4.00			3094.00	31.00 Bottom Of Top Packer
Packer	5.00			3099.00	
Stubb	1.00			3100.00	
Perforations	5.00			3105.00	
Change Over Sub	1.00			3106.00	
Recorder	0.00	8369	Outside	3106.00	
Recorder	0.00	8846	Outside	3106.00	
Blank Spacing	31.00			3137.00	
Change Over Sub	1.00			3138.00	
Perforations	29.00			3167.00	
Bullnose	3.00			3170.00	71.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>102.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shelby Resouces LLC

**1-18S-14W Barton,KS**

3700 Quebec St Suite 100 PMB 376  
Denver CO 80207

**Van Winkle #1-1**

Job Ticket: 68932

**DST#: 1**

ATTN: Jeremy Schwartz

Test Start: 2022.04.15 @ 02:11:44

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 28.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 48000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	M 100%M	0.610

Total Length: 63.00 ft      Total Volume: 0.610 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

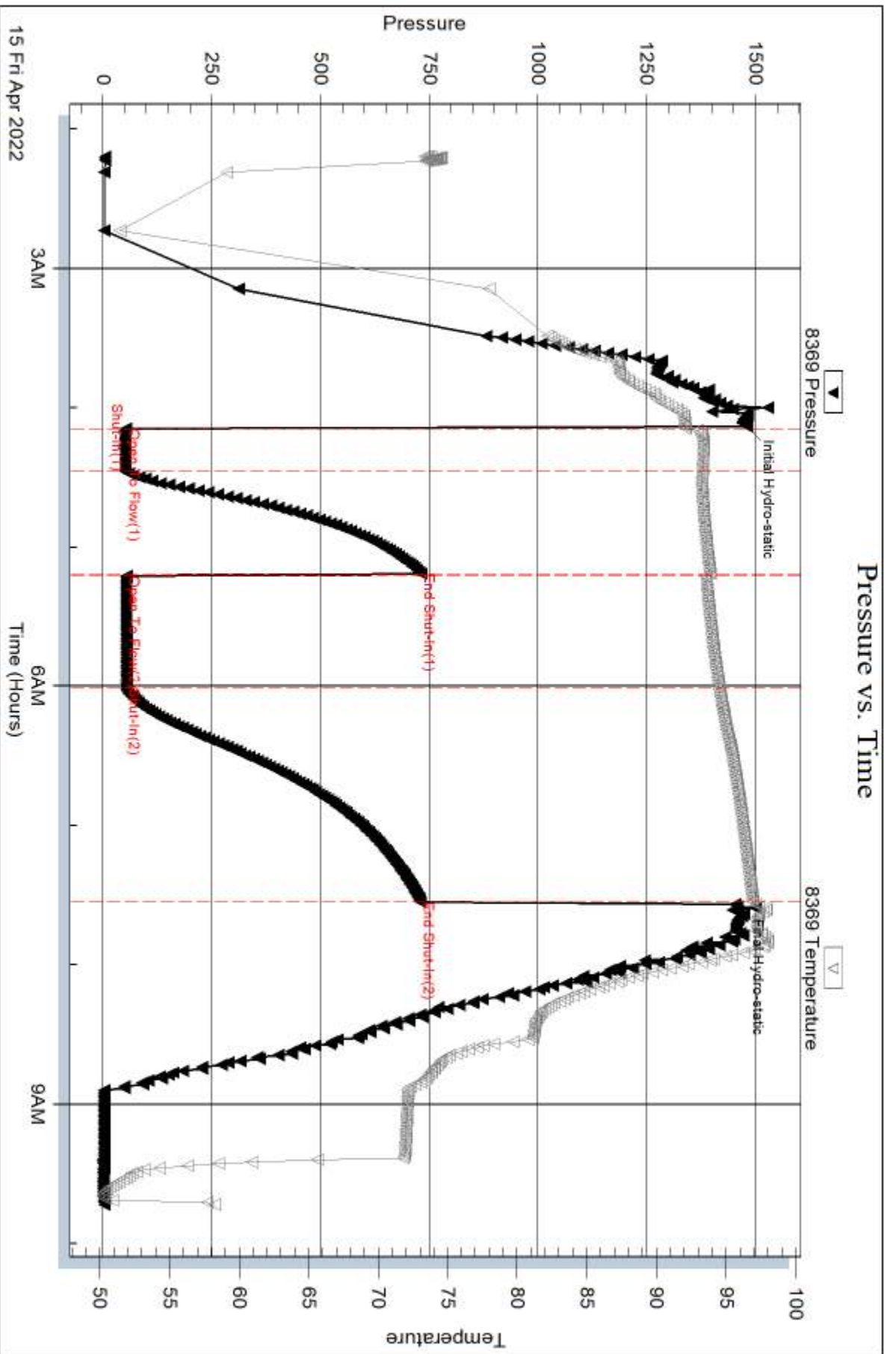
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



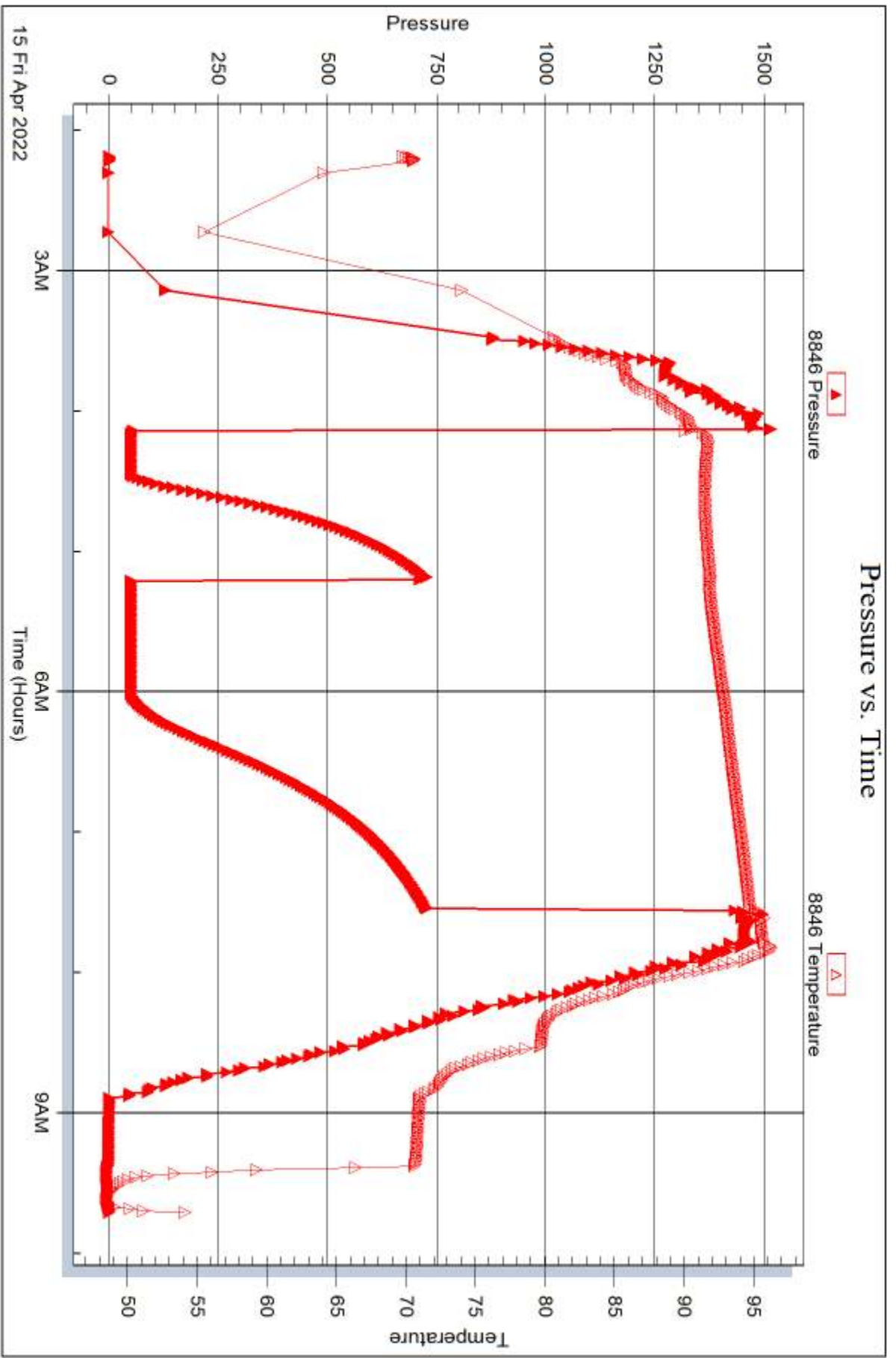


Serial #: 8846

Outside Shelby Resources LLC

Van Winkle #1-1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Shelby Resouces LLC**

3700 Quebec St Suite 100 PMB 376  
Denver CO 80207

ATTN: Jeremy Schwartz

### **Van Winkle #1-1**

#### **1-18S-14W Barton,KS**

Start Date: 2022.04.16 @ 00:35:00

End Date: 2022.04.16 @ 05:54:00

Job Ticket #: 68933                      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.04.19 @ 16:21:04



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shelby Resources LLC

**1-18S-14W Barton,KS**

3700 Quebec St Suite 100 PMB 376  
Denver CO 80207

**Van Winkle #1-1**

Job Ticket: 68933

**DST#: 2**

ATTN: Jeremy Schwartz

Test Start: 2022.04.16 @ 00:35:00

## GENERAL INFORMATION:

Formation: **LKC H - K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:38:20

Time Test Ended: 05:54:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

**Interval: 3222.00 ft (KB) To 3305.00 ft (KB) (TVD)**

Reference Elevations: 1840.00 ft (KB)

Total Depth: 3305.00 ft (KB) (TVD)

1832.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

**Serial #: 8369 Outside**

Press@RunDepth: 63.17 psig @ 3229.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.04.16

End Date: 2022.04.16

Last Calib.: 2022.04.16

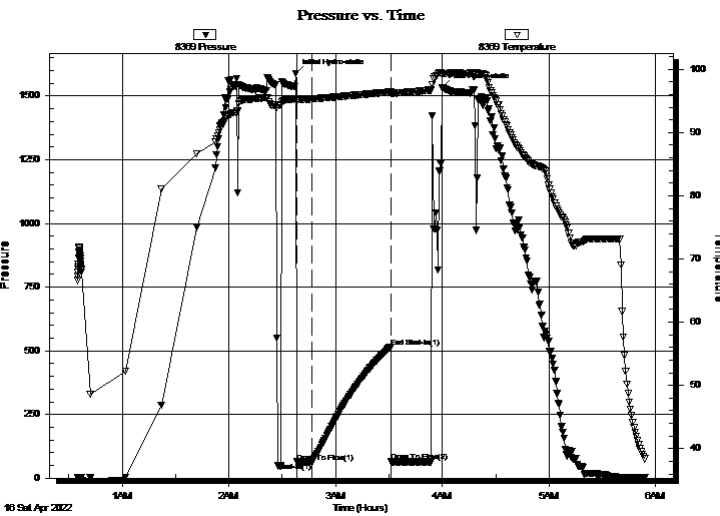
Start Time: 00:35:01

End Time: 05:54:00

Time On Btm: 2022.04.16 @ 02:37:40

Time Off Btm: 2022.04.16 @ 03:59:40

**TEST COMMENT:** IF: Blow Died Flushed tool per geo and shut in tool (15)  
IS: No Blow Back (45)  
FF: No Blow pulled tool



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1589.03	95.35	Initial Hydro-static
1	63.49	95.13	Open To Flow (1)
9	63.17	95.32	Shut-In(1)
54	514.33	96.42	End Shut-In(1)
54	64.33	96.21	Open To Flow (2)
82	1531.90	99.18	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
75.00	M 100%M	0.78

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Shelby Resouces LLC

**1-18S-14W Barton,KS**

3700 Quebec St Suite 100 PMB 376  
Denver CO 80207

**Van Winkle #1-1**

Job Ticket: 68933

**DST#: 2**

ATTN: Jeremy Schwartz

Test Start: 2022.04.16 @ 00:35:00

**GENERAL INFORMATION:**

Formation: **LKC H - K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:38:20

Time Test Ended: 05:54:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

**Interval: 3222.00 ft (KB) To 3305.00 ft (KB) (TVD)**

Reference Elevations: 1840.00 ft (KB)

Total Depth: 3305.00 ft (KB) (TVD)

1832.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

**Serial #: 8846**

**Outside**

Press@RunDepth: psig @ 3229.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.04.16

End Date:

2022.04.16

Last Calib.:

1899.12.30

Start Time: 00:35:52

End Time:

05:55:51

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF:Blow Died Flushed tool per geo and shut in tool (15)  
IS:No Blow Back (45)  
FF:No Blow pulled tool

**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
75.00	M 100%M	0.78

\* Recovery from multiple tests

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shelby Resources LLC

**1-18S-14W Barton,KS**

3700 Quebec St Suite 100 PMB 376  
Denver CO 80207

**Van Winkle #1-1**

Job Ticket: 68933

**DST#: 2**

ATTN: Jeremy Schwartz

Test Start: 2022.04.16 @ 00:35:00

## Tool Information

Drill Pipe:	Length: 3188.00 ft	Diameter: 3.80 inches	Volume: 44.72 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	40000.00 lb
			<u>Total Volume: 44.87 bbl</u>	Tool Chased	25.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3222.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	83.00 ft				
Tool Length:	114.00 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			3192.00	
Shut In Tool	5.00			3197.00	
Hydraulic tool	5.00			3202.00	
EM TOOL	3.00			3205.00	
Jars	5.00			3210.00	
Safety Joint	3.00			3213.00	
Packer	4.00			3217.00	31.00 Bottom Of Top Packer
Packer	5.00			3222.00	
Stubb	1.00			3223.00	
Perforations	5.00			3228.00	
Change Over Sub	1.00			3229.00	
Recorder	0.00	8369	Outside	3229.00	
Recorder	0.00	8846	Outside	3229.00	
Blank Spacing	63.00			3292.00	
Change Over Sub	1.00			3293.00	
Perforations	9.00			3302.00	
Bullnose	3.00			3305.00	83.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>114.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shelby Resouces LLC

**1-18S-14W Barton,KS**

3700 Quebec St Suite 100 PMB 376  
Denver CO 80207

**Van Winkle #1-1**

Job Ticket: 68933

**DST#: 2**

ATTN: Jeremy Schwartz

Test Start: 2022.04.16 @ 00:35:00

## 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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7500.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	M 100%M	0.779

Total Length: 75.00 ft      Total Volume: 0.779 bbl

Num Fluid Samples: 0

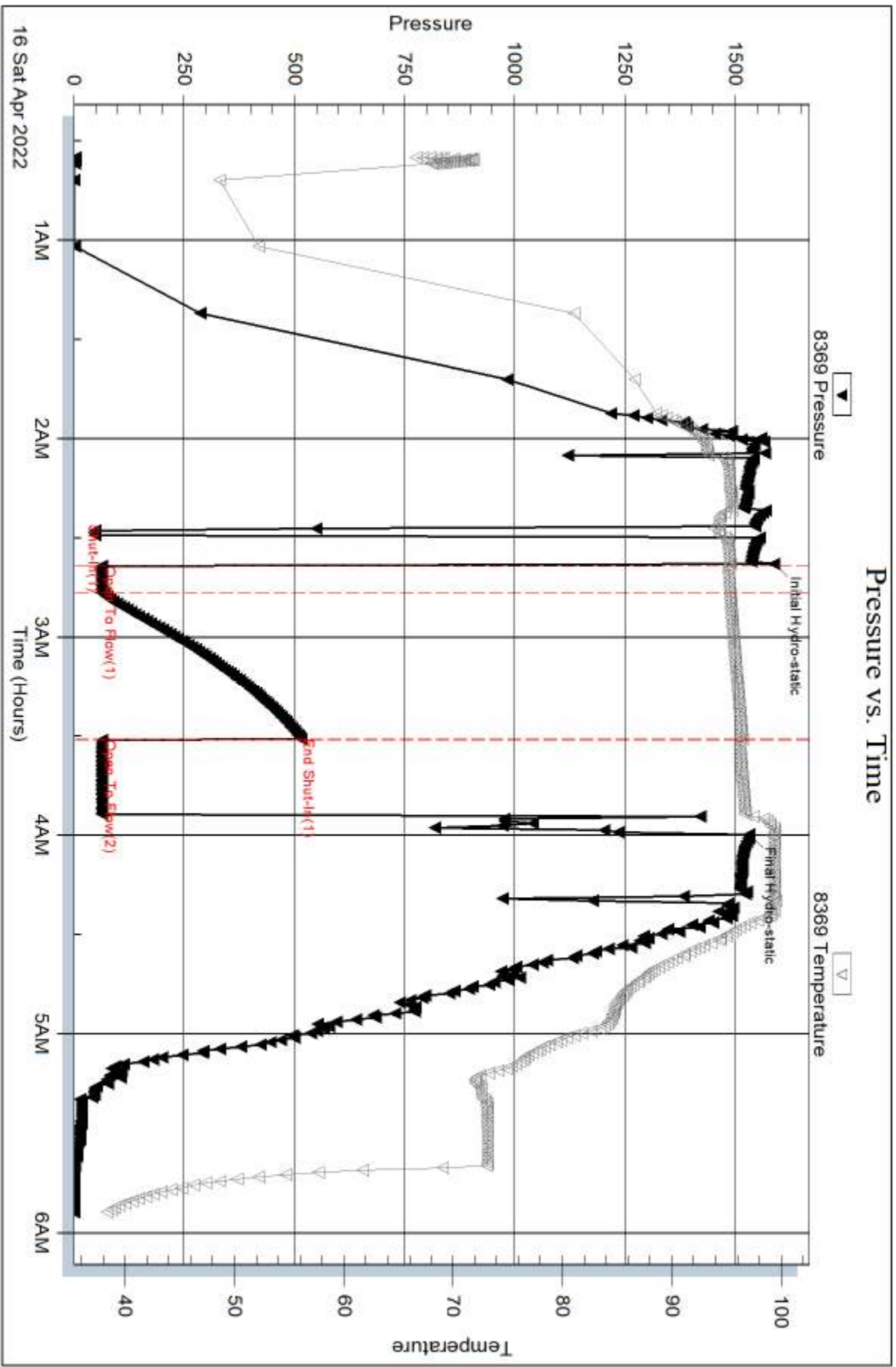
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



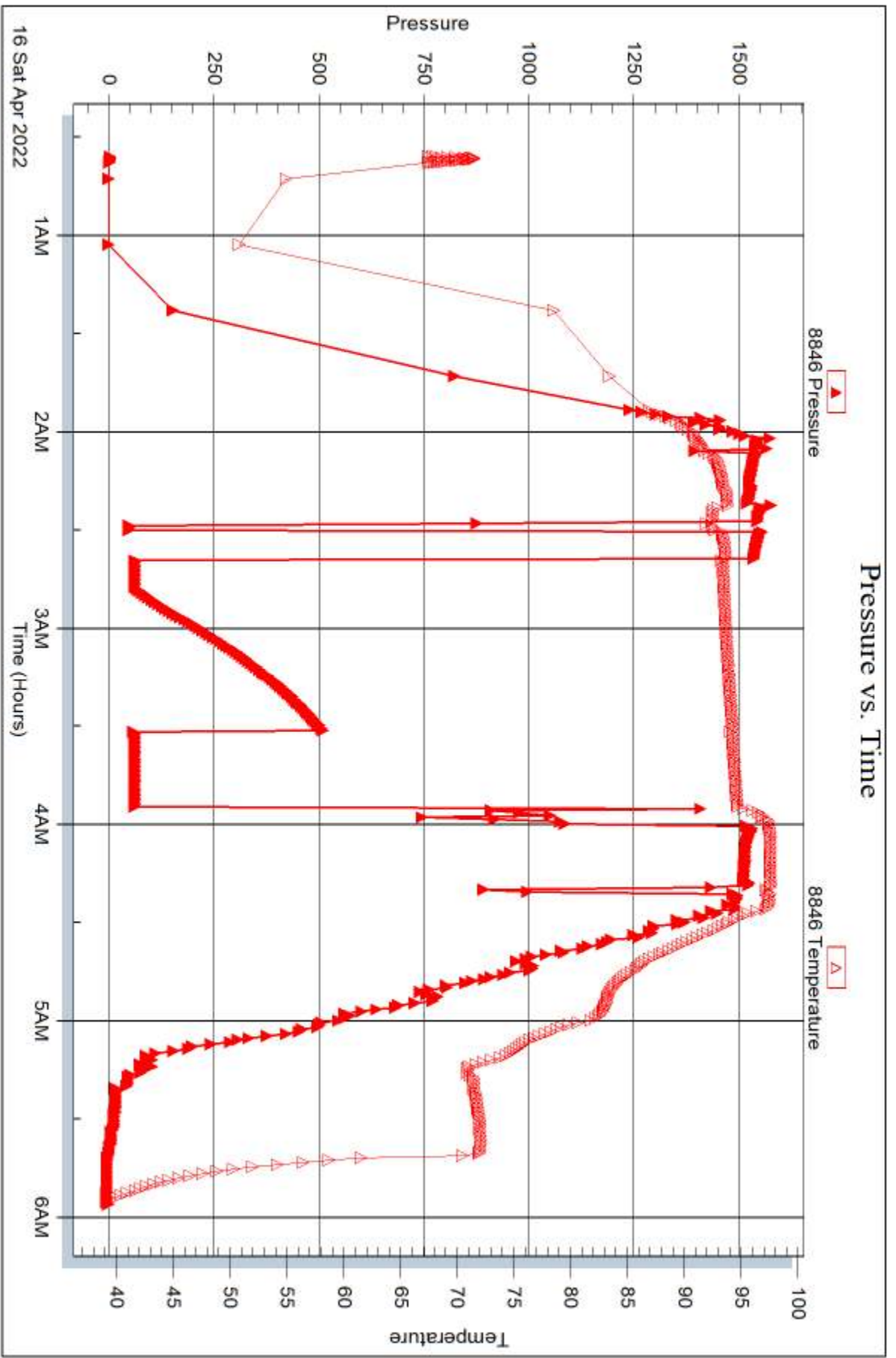


Serial #: 8846

Outside Shelby Resources LLC

Van Winkle #1-1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 68933

Printed: 2022.04.19 @ 16:21:06



## DRILL STEM TEST REPORT

Prepared For: **Shelby Resouces LLC**

3700 Quebec St Suite 100 PMB 376  
Denver CO 80207

ATTN: Jeremy Schwartz

### **Van Winkle #1-1**

#### **1-18S-14W Barton,KS**

Start Date: 2022.04.16 @ 21:52:26

End Date: 2022.04.17 @ 05:36:46

Job Ticket #: 68934                      DST #: 3

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.04.19 @ 16:20:32



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

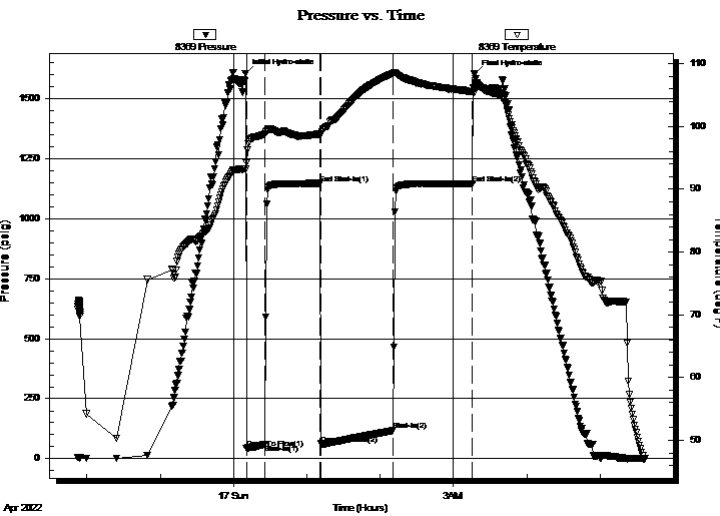
**1-18S-14W Barton,KS**  
**Van Winkle #1-1**  
 Job Ticket: 68934 **DST#: 3**  
 Test Start: 2022.04.16 @ 21:52:26

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 00:10:26  
 Tester: Eric Burgess  
 Time Test Ended: 05:36:46  
 Unit No: 80  
**Interval: 3298.00 ft (KB) To 3354.00 ft (KB) (TVD)**  
 Reference Elevations: 1840.00 ft (KB)  
 Total Depth: 3354.00 ft (KB) (TVD) 1832.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 8369 Outside**  
 Press@RunDepth: 117.11 psig @ 3300.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.04.16 End Date: 2022.04.17 Last Calib.: 2022.04.16  
 Start Time: 21:52:27 End Time: 05:36:46 Time On Btm: 2022.04.17 @ 00:09:36  
 Time Off Btm: 2022.04.17 @ 03:17:05

**TEST COMMENT:** IF:Fair Building Blow built to 5.25" in bucket (15)  
 IS:No Blow Back (45)  
 FF:Fair Building Blow built 9" in bucket (60)  
 FS:No Blow Back (60)



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1605.34	93.18	Initial Hydro-static
1	43.85	94.20	Open To Flow (1)
16	60.31	98.85	Shut-In(1)
61	1147.19	98.77	End Shut-In(1)
62	61.77	98.72	Open To Flow (2)
121	117.11	108.45	Shut-In(2)
186	1145.42	105.56	End Shut-In(2)
188	1602.31	105.49	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	MCW 15%M 85%W	0.61
63.00	MCW 5%M 95%W	0.88
63.00	WCM 55%M 45%W	0.88
31.00	WCM 65%M 35%W	0.43

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shelby Resources LLC

**1-18S-14W Barton,KS**

3700 Quebec St Suite 100 PMB 376  
Denver CO 80207

**Van Winkle #1-1**

Job Ticket: 68934

**DST#: 3**

ATTN: Jeremy Schwartz

Test Start: 2022.04.16 @ 21:52:26

## Tool Information

Drill Pipe:	Length: 3251.00 ft	Diameter: 3.80 inches	Volume: 45.60 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 24000.00 lb
			<u>Total Volume: 45.75 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3298.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	87.00 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			3268.00	
Shut In Tool	5.00			3273.00	
Hydraulic tool	5.00			3278.00	
EM TOOL	3.00			3281.00	
Jars	5.00			3286.00	
Safety Joint	3.00			3289.00	
Packer	4.00			3293.00	31.00 Bottom Of Top Packer
Packer	5.00			3298.00	
Stubb	1.00			3299.00	
Change Over Sub	1.00			3300.00	
Recorder	0.00	8369	Outside	3300.00	
Recorder	0.00	8846	Outside	3300.00	
Blank Spacing	31.00			3331.00	
Change Over Sub	1.00			3332.00	
Perforations	19.00			3351.00	
Bullnose	3.00			3354.00	56.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>87.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shelby Resouces LLC

**1-18S-14W Barton,KS**

3700 Quebec St Suite 100 PMB 376  
Denver CO 80207

**Van Winkle #1-1**

Job Ticket: 68934

**DST#: 3**

ATTN: Jeremy Schwartz

Test Start: 2022.04.16 @ 21:52:26

### 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:

25000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9800.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
63.00	MCW 15%M 85%W	0.610
63.00	MCW 5%M 95%W	0.884
63.00	WCM 55%M 45%W	0.884
31.00	WCM 65%M 35%W	0.435

Total Length: 220.00 ft

Total Volume: 2.813 bbl

Num Fluid Samples: 0

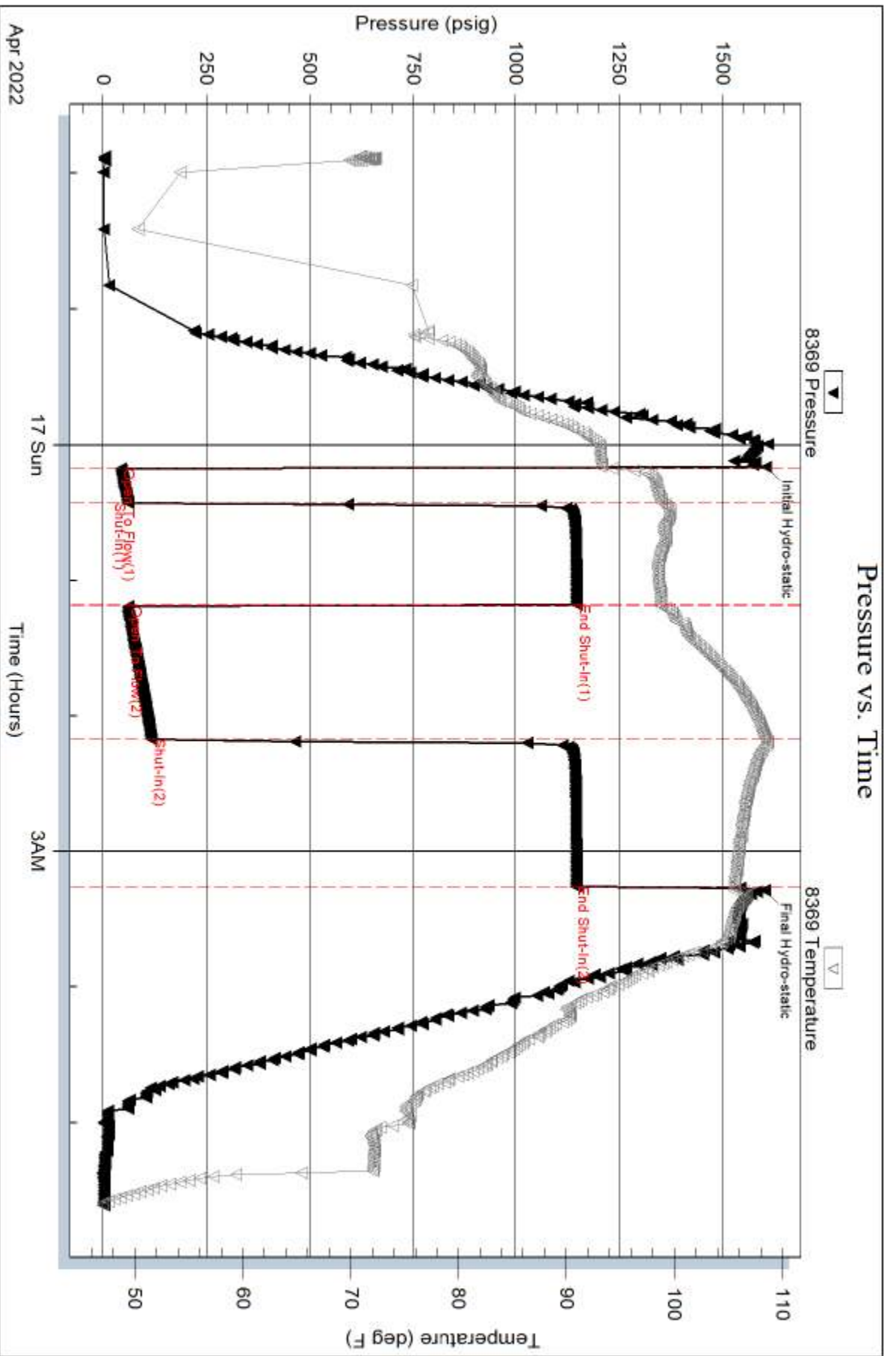
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

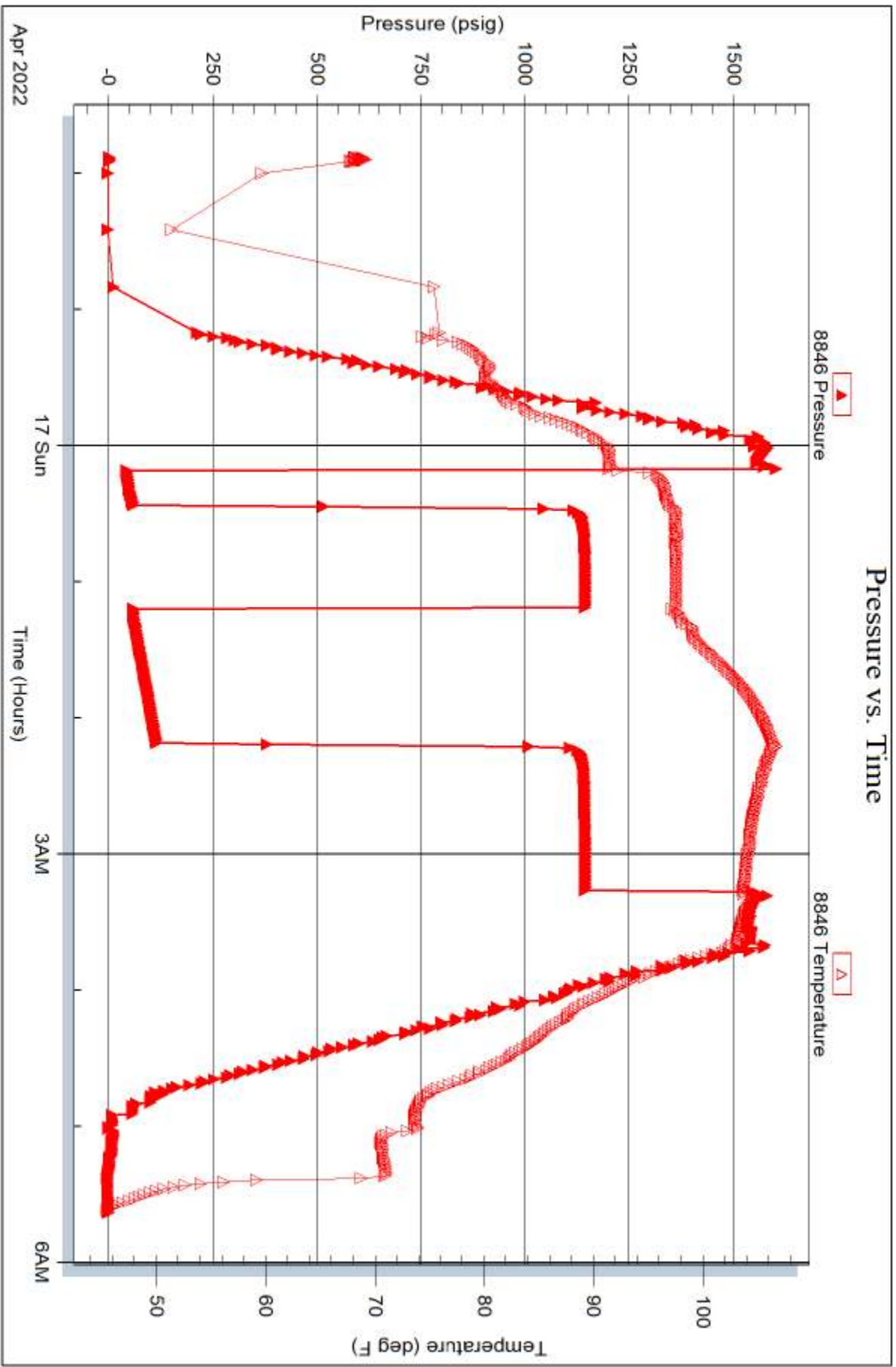


Serial #: 8846

Outside Shelby Resources LLC

Van Winkle #1-1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 68934

Printed: 2022.04.19 @ 16:20:33





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68932

Well Name & No. Shelby Resources LLC 14W NINKLE 1-1 Test No. 1 Date 4/14/22  
 Company Shelby Resources LLC Elevation 1840 KB 832 GL  
 Address 3700 Quebec St Suite 100 PMB 376 Denver, CO 80207  
 Co. Rep / Geo. Jeremy Schwartz Rig Discovery 2  
 Location: Sec. 1 Twp 18S Rge. 14W Co. Barton State KS

Interval Tested 3099 - 3170 Zone Tested Lansing A-F  
 Anchor Length 71' Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.7  
 Top Packer Depth 3091 Drill Collars Run 30 Vls 28  
 Bottom Packer Depth 3095 Wt. Pipe Run Ø WL NC  
 Total Depth 3170 Chlorides 48000 ppm System LCM 0

Blow Description IF: Fair Building Blow built to 5" in Bucket (15)  
FSL: NO Blow Back (45)  
FF: weak Building Blow built to .25" in Bucket (45)  
FSL: NO Blow Back (90)

Rec	Feet of	%gas	%oil	%water	%mud
63	M			100	

Rec Total 63 BHT 97 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

- (A) Initial Hydrostatic 1481
- (B) First Initial Flow 53
- (C) First Final Flow 52
- (D) Initial Shut-In 731
- (E) Second Initial Flow 54
- (F) Second Final Flow 54
- (G) Final Shut-In 730
- (H) Final Hydrostatic 1457

- Test 1800
- Jars 300
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage 112 168
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 2268

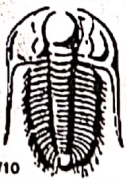
- T-On Location 2350
- T-Started 0211
- T-Open 0414
- T-Pulled 0735
- T-Out 0943
- Comments \_\_\_\_\_
- EM Tool
- Ruined Shale Packer
- Ruined Packer
- Extra Copies
- Sub Total 0
- Total 2268
- MP/DST Disc't \_\_\_\_\_

Initial Open 15  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 90

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

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68933

Well Name & No. Van Winkle 1-1 Test No. 2 Date 4/15/22  
 Company Shelby Resources LLC Elevation 1890 KB 1832 GL  
 Address 3700 Quebec St Suite 100 PMB 376 Denver, CO 80207  
 Co. Rep / Geo. Jeremy Schwartz Rig Discovery 2  
 Location: Sec. 1 Twp 18S Rge. 14W Co. Barton State KS

Interval Tested 3222-3305 Zone Tested Leasing H-K  
 Anchor Length 83' Drill Pipe Run \_\_\_\_\_ Mud Wt. 8.8  
 Top Packer Depth 3214 Drill Collars Run 30 Vis 59  
 Bottom Packer Depth 3218 Wt. Pipe Run 0 WL 5.8  
 Total Depth 3305 Chlorides 7500 ppm System LCM 2  
 Blow Description IF: Blow died Flushed tool Per Geo and Shut IN (15)  
ISI: No Blow Back (45)  
FF: No Blow Pulled tool  
FSI:

Rec	Feet of	%gas	%oil	%water	%mud
<u>75</u>	<u>M</u>			<u>100</u>	
_____	_____				
_____	_____				
_____	_____				
_____	_____				

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

(A) Initial Hydrostatic 1589  Test 1800 T-On Location 2345  
 (B) First Initial Flow 63  Jars 300 T-Started 0035  
 (C) First Final Flow 63  Safety Joint \_\_\_\_\_ T-Open 0230  
 (D) Initial Shut-In 514  Circ Sub \_\_\_\_\_ T-Pulled 040  
 (E) Second Initial Flow 64  Hourly Standby \_\_\_\_\_ T-Out 0554  
 (F) Second Final Flow -  Mileage 112 168 Comments \_\_\_\_\_  
 (G) Final Shut-In -  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1532  Straddle \_\_\_\_\_  EM Tool -350  
 Initial Open 15  Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 45  Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Flow 60  Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Shut-In 90  Day Standby \_\_\_\_\_ Sub Total -350  
 Sub Total 2268  Accessibility \_\_\_\_\_ Total 1918  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative RS  
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68934

Well Name & No. Von Winkle 1-1 Test No. 3 Date 4/16/22  
 Company Shelby Resources LLC Elevation 1840 KB 1832 GL  
 Address 3700 Quebec St Suite 100 PMB 376 Denver, CO. 80207  
 Co. Rep / Geo. Jeremy Schwartz Rig Discovery 2  
 Location: Sec. 1 Twp 18S Rge. 14W Co. Barton State KS

Interval Tested 3298-3354 Zone Tested Arbuckle  
 Anchor Length 56 Drill Pipe Run 3251 Mud Wt. 9.1  
 Top Packer Depth 3290 Drill Collars Run 30 Vis 50  
 Bottom Packer Depth 3294 Wt. Pipe Run Ø WL 6.8  
 Total Depth 3354 Chlorides 9800 ppm System LCM 2

Blow Description IF: Fair Building Blow built to 5.25" in bucket (15)  
ISI: NO Blow Back (45)  
FF: Fair Building Blow built 9" in bucket (60)  
FSI: NO Blow Back (60)

Rec	Feet of	%gas	%oil	%water	%mud
<u>31</u>	<u>WCM</u>			<u>35</u>	<u>65</u>
<u>63</u>	<u>WCM</u>			<u>45</u>	<u>55</u>
<u>63</u>	<u>MCW</u>			<u>95</u>	<u>5</u>
<u>63</u>	<u>MCW</u>			<u>85</u>	<u>15</u>

Rec Total 220 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW 1.46 @ 41 °F Chlorides 25,000 ppm

(A) Initial Hydrostatic 1605  Test 1800 T-On Location 2023  
 (B) First Initial Flow 44  Jars 300 T-Started 2152  
 (C) First Final Flow 60  Safety Joint \_\_\_\_\_ T-Open 6014  
 (D) Initial Shut-In 1147  Circ Sub \_\_\_\_\_ T-Pulled 035  
 (E) Second Initial Flow 62  Hourly Standby \_\_\_\_\_ T-Out 0536  
 (F) Second Final Flow 117  Mileage 112 168  
 (G) Final Shut-In 1145  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1602  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 15  
 Initial Shut-In 45  
 Final Flow 60  
 Final Shut-In 1145 60

Sub Total 2268 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative DB  
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

# 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. 2996

Date	4-12-22	Sec.	1	Twp.	18	Range	14	County	Barston	State	Ks	On Location		Finish	3:30pm
------	---------	------	---	------	----	-------	----	--------	---------	-------	----	-------------	--	--------	--------

Location **Boyd - 15, 1 1/2 E, ~ 1 into**

Lease	<b>Vanwinkle</b>	Well No.	<b>1-1</b>	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	<b>Discovery #2</b>	Charge To	<b>Shelby Resources</b>
------------	---------------------	-----------	-------------------------

Type Job	<b>Surface</b>	Hole Size	<b>12 1/4"</b>	T.D.	<b>777'</b>	Csg.	<b>8 5/8"</b>	Depth	<b>776'</b>	Street	
----------	----------------	-----------	----------------	------	-------------	------	---------------	-------	-------------	--------	--

Tbg. Size		Depth		City		State	
-----------	--	-------	--	------	--	-------	--

Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.		
------	--	-------	--	--	--	--

Cement Left in Csg.	<b>42'</b>	Shoe Joint	<b>42'</b>	Cement Amount Ordered	<b>350 60/40 4%cc 2% Gel</b>
---------------------	------------	------------	------------	-----------------------	------------------------------

Meas Line		Displace	<b>46 3/4</b>
-----------	--	----------	---------------

EQUIPMENT				Common	
Pumptrk	<b>16</b>	No.		Cement	<b>210</b>
				Helper	<b>140</b>
Bulktrk	<b>21</b>	No.		Driver	<b>7</b>
				Driver	<b>16</b>
Bulktrk	<b>P.U.</b>	No.		Calcium	

JOB SERVICES & REMARKS			
------------------------	--	--	--

Remarks:	<b>Cement did Circulate</b>	Hulls	
----------	-----------------------------	-------	--

Rat Hole		Salt	
----------	--	------	--

Mouse Hole		Flowseal	
------------	--	----------	--

Centralizers		Kol-Seal	
--------------	--	----------	--

Baskets		Mud CLR 48	
---------	--	------------	--

D/V or Port Collar		CFL-117 or CD110 CAF 38	
--------------------	--	-------------------------	--

		Sand	
--	--	------	--

		Handling	<b>373</b>
--	--	----------	------------

		Mileage	
--	--	---------	--

FLOAT EQUIPMENT			
-----------------	--	--	--

		Guide Shoe	<b>1</b>
--	--	------------	----------

		Centralizer	<b>1</b>
--	--	-------------	----------

		Baskets	<b>Baffle plate</b>
--	--	---------	---------------------

		AFU Inserts	<b>Rubber plug</b>
--	--	-------------	--------------------

		Float Shoe	
--	--	------------	--

		Latch Down	
--	--	------------	--

		Pumptrk Charge	<b>Long Surface</b>
--	--	----------------	---------------------

		Mileage	<b>16</b>
--	--	---------	-----------

		Tax	
--	--	-----	--

		Discount	
--	--	----------	--

		Total Charge	
--	--	--------------	--

X  
Signature

*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. **2801**

Cell 785-324-1041

Date	4-17-22	Sec.	1	Twp.	18	Range	14	County	Barton	State	Ks	On Location		Finish	9:30pm
------	---------	------	---	------	----	-------	----	--------	--------	-------	----	-------------	--	--------	--------

Vanwinkle

Location Boyd - 15, 1 1/2 E, N 1/4 into

Lease		Well No.	1-1	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 #2				
Type Job	Plug				
Hole Size	7 7/8" <del>7 1/2"</del>	T.D.	3354'	Charge To	Shelby Resources
Csg.		Depth		Street	
Tbg. Size	4 1/2" D.P.	Depth	777'	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	205 60/40 4% Gel
Meas Line		Displace	H2O	1/4 # Flo.seal	

**EQUIPMENT**

Pumptrk	16	No.		Cementor	David	Common	205 125
				Helper		Poz. Mix	123 82
Bulktrk	19	No.		Driver	Doung	Gel.	7
				Driver		Calcium	
Bulktrk	p.u.	No.		Driver	Rick		

**JOB SERVICES & REMARKS**

Remarks:		Hulls	
Rat Hole	777' - 50 SX	Salt	
Mouse Hole	500' - 100 SX	Flowseal	50#
Centralizers	40' - 10 SX	Kol-Seal	
Baskets	30 - Rathole	Mud CLR 48	
D/V or Port Collar	15 - mousehole	CFL-117 or CD110 CAF 38	

Cement did Circulate

**FLOAT EQUIPMENT**

Guide Shoe	Dry hole plug
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge plug  
Mileage 16

Thanks

*[Signature]*

Tax	
Discount	
Total Charge	



Scale 1:240 Imperial

Well Name: Van Winkle #1-1  
 Surface Location: 2310' FSL\_1434' FWL, Sec. 1-T18s-R14w  
 Bottom Location:  
 API: 15-009-26341-00-00  
 License Number: 31725  
 Spud Date: 4/11/2022 Time: 2:15 PM  
 Region: Barton County  
 Drilling Completed: 4/17/2022 Time: 12:30 PM  
 Surface Coordinates:  
 Bottom Hole Coordinates:  
 Ground Elevation: 1832.00ft  
 K.B. Elevation: 1840.00ft  
 Logged Interval: 2650.00ft To: 3354.00ft  
 Total Depth: 3354.00ft  
 Formation: Lansing  
 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: Van Winkle #1-1  
 Location: 2310' FSL\_1434' FWL, Sec. 1-T18s-R14w  
 API: 15-009-26341-00-00

Pool: State: Kansas Field: Boyd  
 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, Van Winkle #1-1 was drilled to a total depth of 3354', bottoming in the Arbuckle. An iBall Instruments Bloodhound gas detector was employed in the drilling of said well

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

Due to negative drill stem tests across all zones of interest it was determined by all parties involved to plug and abandon the well. No E-logs were run and the well was P&A in accordance with KCC approval. 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: 4/11/2022  
TD Date: 4/17/2022  
Rig Release:

Time: 2:15 PM  
Time: 12:30 PM  
Time:

### ELEVATIONS

K.B. Elevation: 1840.00ft  
K.B. to Ground: 8.00ft  
Ground Elevation: 1832.00ft

DATE	DEPTH	ACTIVITY
Thursday, April 14, 2022	2700'	Geologist Jeremy Schwartz on location @ 1130hrs, 2700', drlg ahead through Topeka, Heebner, Toronto, Douglas, Brown Lime, Lansing, CFS @ 3147', resume drlg, CFS @ 3170',
	3170'	Conduct short trip, CTCH 90min, drop survey, strap out for DST #1 in Lansing A-F
Friday, April 15, 2022	3352'	Successful test, resume drlg ahead through Lansing G, Muncie Creek, H, CFS @ 3252',
	3305'	resume drlg, CFS @ 3283, resume drlg, CFS @ 3305', OOH for DST #2 in the Lansing H-K
Saturday, April 16, 2022	3354'	Successful test, rig cannot get past surface casing while tripping back in hole, mill out guide shoe and trip in hole, resume drlg, CFS @ 3354', show in Arbuckle
		CTCH 90min, trip out for DST #3 in the Arbuckle
Sunday, April 17, 2022	3354'	Successful test, TD @ 3354'.
		Geologist Jeremy Schwartz off location @ 1600hrs.

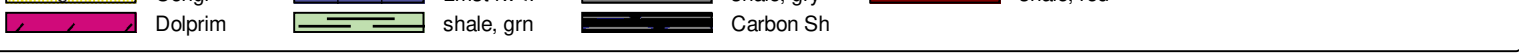
CLIENT:	Shelby Resources, LLC
WELL NAME:	Van Winkle #1-1
LEGAL:	W/2-NW-NE-SW Sec. 1-T18s-R14w
COUNTY:	Barton
API:	15-009-26341-00-00
DRLG CONTRACTOR:	Discovery Drilling
RIG #:	2
DOGHOUSE #:	785-635-1412
FOOLPUSHER:	Travis Schmidt
CELL #:	785-342-8522

		Oil - P&A														
		L.D. Drilling, Inc				Shelby Resources, LLC				Shelby Resources, LLC						
		Van Winkle #1				Benton Wirth Unit #2-1				Schlessiger Cattle #1-2						
		Sec. 1 SE-SW-SW				Sec. 1 NW-SW-NW-NE				Sec. 2 N/2-SE-NE						
		Van Winkle #1-1		1848		1839		1842								
		KB	1840	KB	1848	KB	1839	KB	1842							
		LOG TOPS	SAMPLE TOPS	COMP. CARD	LOG	SMPL.	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.
Anhydrite Top					789	1059			780	1059			789	1053		
Base					813	1035			805	1034			812	1030		
Topeka			2801	-961	2799	-951	-	10	2795	-956	-	5	2793	-951	-	10
Heebner			3018	-1178	3020	-1172	-	6	3005	-1166	-	12	3011	-1169	-	9
Toronto			3032	-1192	3031	-1183	-	9	3018	-1179	-	13	3022	-1180	-	12
Douglas			3042	-1202	3041	-1193	-	9	3029	-1190	-	12	3033	-1191	-	11
Brown Lime			3096	-1256	3096	-1248	-	8	3084	-1245	-	11	3086	-1244	-	12
Lansing			3106	-1266	3105	-1257	-	9	3093	-1254	-	12	3098	-1256	-	10
Lansing G Porosity			3174	-1334	3182	-1334	+	0	3161	-1322	-	12	3166	-1324	-	10
Muncie Creek			3227	-1387	3228	-1380	-	7	3218	-1379	-	8	3220	-1378	-	9
Lansing H			3232	-1392	3234	-1386	-	6	3225	-1386	-	6	3226	-1384	-	8
Stark			3282	-1442	3284	-1436	-	6	3272	-1433	-	9	3276	-1434	-	8
BKC			3300	-1460	3302	-1454	-	6	3294	-1455	-	5	3295	-1453	-	7
Arbuckle			3331	-1491	3322	-1474	-	17	3341	-1502	+	11	3306	-1464	-	27
RTD			3354	-1514	3330	-1482	-	32					3420	-1578	+	64
LTD					3333	-1485							3419	-1577		

### ROCK TYPES

 Conol  
 Lmst fw<7  
 shale. arv  
 shale. red





**ACCESSORIES**

**MINERAL**

P Pyrite

**FOSSIL**

- Bioclastic or Fragmental
- F Fossils < 20%
- Oolites
- ⊕ Oomoldic

**STRINGER**

- ~ Chert
- Sandstone
- Siltstone

**TEXTURE**

C Chalky

**OTHER SYMBOLS**

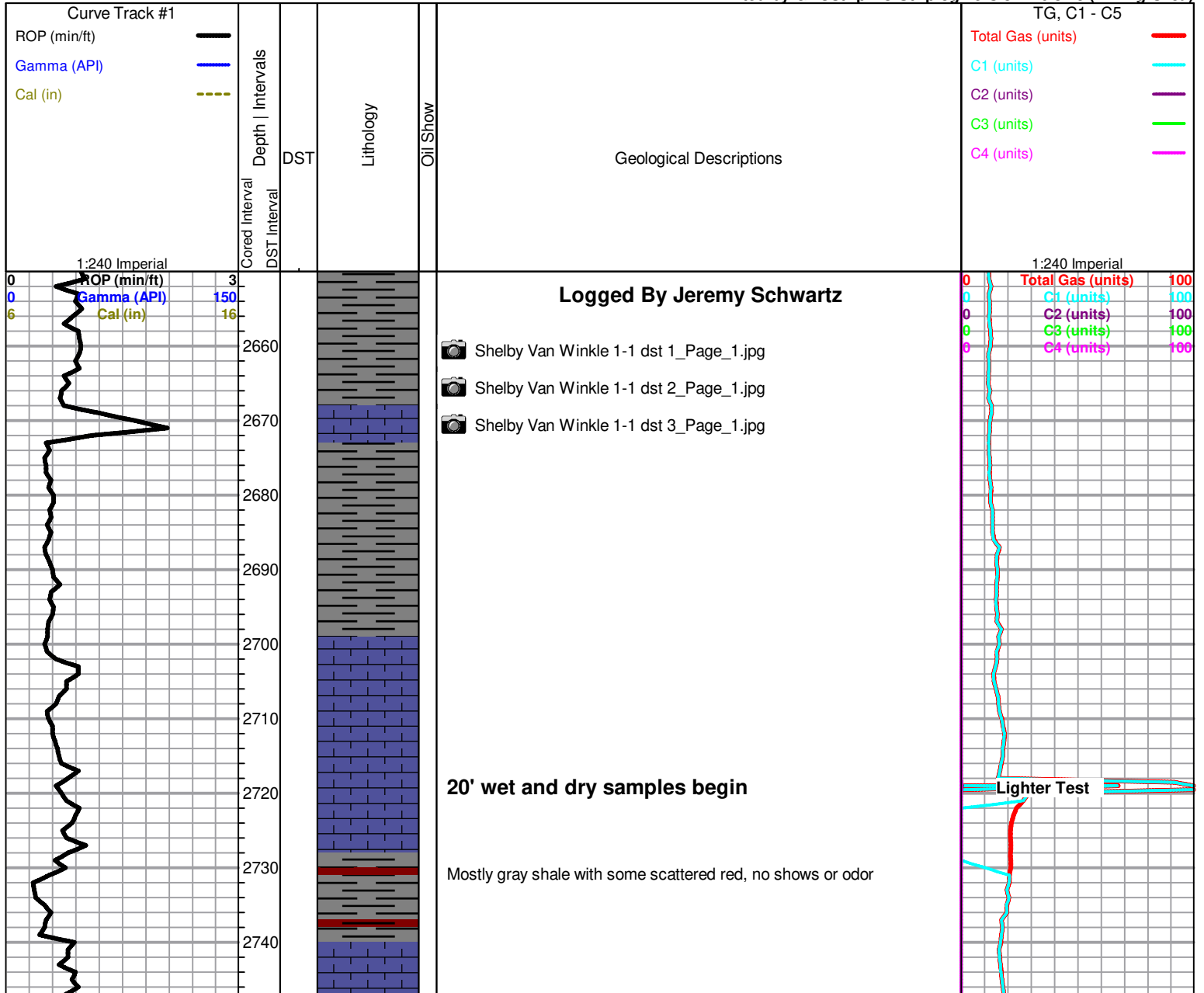
**MISC**

- DR Daily Report
- 📷 Digital Photo
- 📄 Document
- 📁 Folder
- 🔗 Link
- 📊 Vertical Log File
- 📊 Horizontal Log File
- 🔍 Core Log File
- 📊 Drill Cuttings Rpt

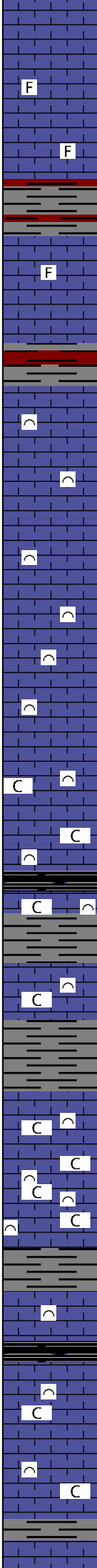
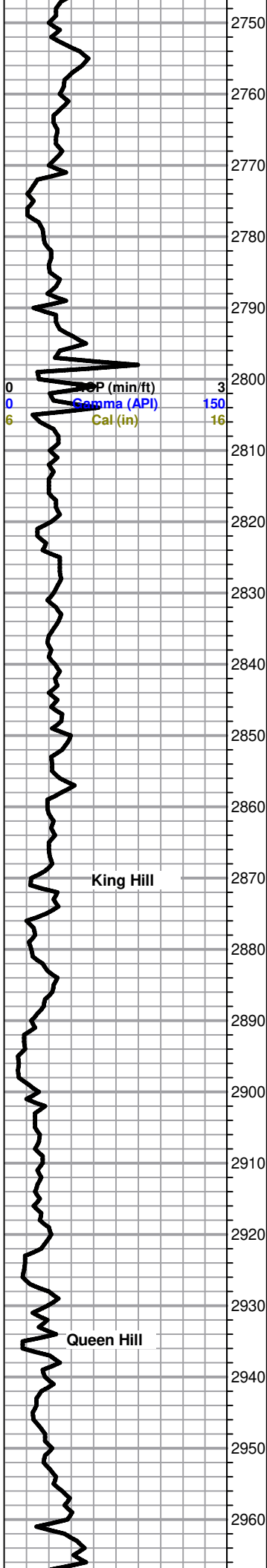
**DST**

- DST Int
- DST alt

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







LS, gray to brown with scattered cream, micro-xln, dense with no vis porosity, no show or odor

2760 F

2770 F

2780

2790 F

2800

**Topeka 2801 (-961)**

2810 LS, gray to cream, micro-xln, fossiliferous and dense with no vis porosity, no show or odor

2820

2830 LS as above, no show or odor

2840

2850 Gray to cream fossiliferous LS as above, with slight influx cream to white, chalky, no show or odor

2860

2870 C

**King Hill**

2880

2890 C

2900

2910 C

2920 C

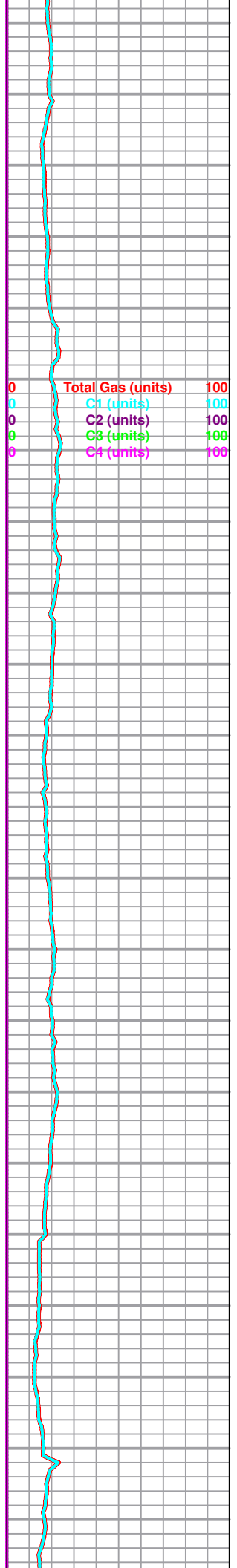
2930

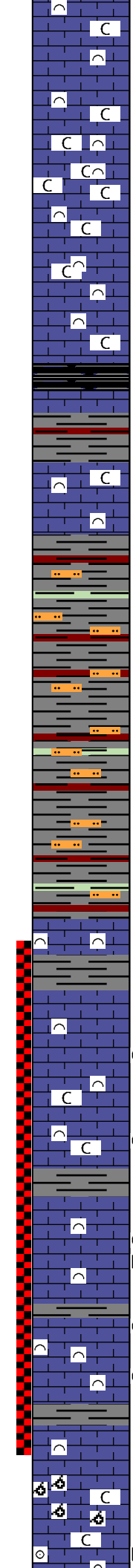
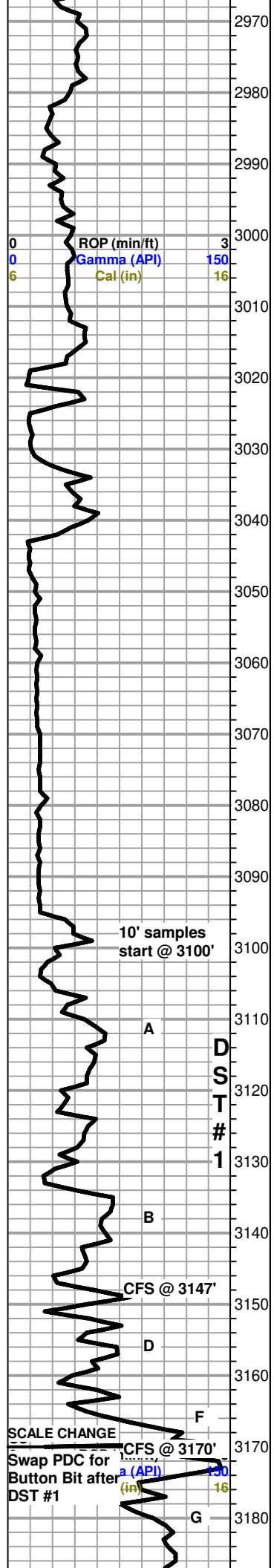
**Queen Hill**

2940

2950 C

2960





LS as above, slightly chalky, no show or odor

LS, light gray to gray and cream, micro-xln, fossiliferous and dense with no vis porosity, with abundant soft and chalky, fairly chalky sample, no show or odor

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

**Heebner 3018 (-1178)**  
shale, gray with some scattered black carbonaceous

**Toronto 3032 (-1192)**  
LS, gray to cream with some white, micro-xln, lithographic to fossiliferous and dense with no vis porosity, trace chips with very scattered very poor stain, upon break VSSFO (wet, tarry), no show or odor

**Douglas 3042 (-1202)**  
Shale, mostly gray with some scattered red and trace green, some sandy/silty, no show or odor

Shale as above, some sandy/silty, no show or odor

**Brown Lime 3096 (-1256)**  
Shale as above, with very scattered LS, brown to gray, micro-xln, fossiliferous and dense with no vis porosity, no show or odor

**Lansing 3106 (-1266)**  
Influx LS, cream to light gray, micro-xln, lithographic to fossiliferous with poor to no vis porosity, trace chips with very scattered very poor stain, upon break VSSFO (wet, tarry), no show or odor

3147' 20" As above, slight influx rocks with shows, some chalky, few with poor very slightly vuggy porosity and VSSG with very scattered inter-xln stain upon break, VSSFO, no odor

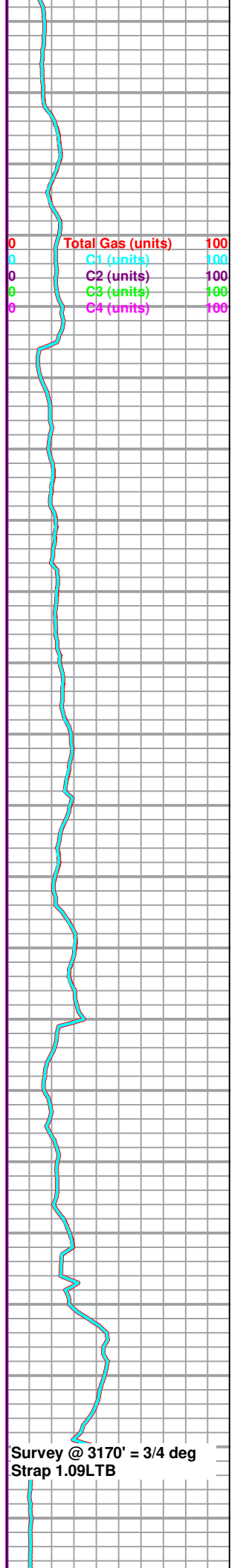
3147' 40" LS, mostly cream with scattered gray, dense with poor to no vis porosity, trace chips as above with mostly poor very scattered pinpoint to very slightly vuggy porosity and very scattered stain, upon break few have FSFO, no odor

3147' 60" LS, cream to gray, micro-xln, lithographic to fossiliferous with poor to no vis porosity, most barren, trace small white chips with scattered flaky dead black stain, NSFO, no odor

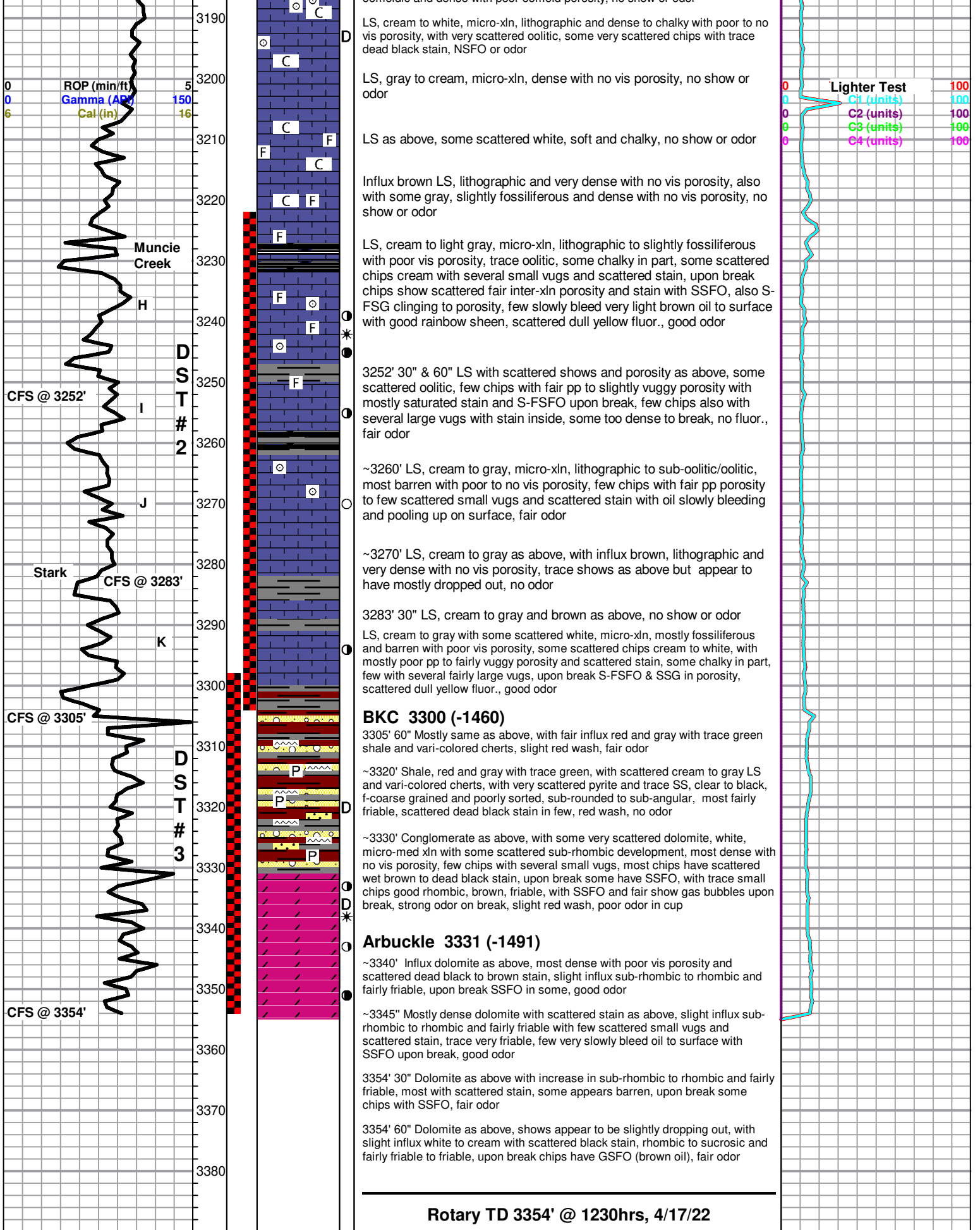
LS as above, with slight influx light gray to white with mostly poor pinpoint porosity and very scattered stain, few slowly bleed oil to surface, upon break S-FSFO and fair show gas bubbles clinging to porosity, also with few chips gray, very dense with no vis porosity, slowly bleeding oil to surface, too dense to break, poor fleeting odor

3170' 20 & 45" LS, cream to gray, micro-xln, some chalky, some fossiliferous to lithographic with fair pinpoint to slightly vuggy porosity and scattered stain, few larger chips with good pp porosity, some slowly bleed oil to surface as well as fair show gas bubbles clinging to porosity, upon break most have SSFO and show fair to good inter-xln porosity and staining, fair odor


~3180" LS, cream to gray with fair influx chalky white, micro-crypto xln, mostly dense with poor to no vis porosity, some scattered gray sub-oomoldic to oomoldic and dense with poor oomold porosity, no show or odor



Survey @ 3170' = 3/4 deg  
Strap 1.09LTB



Rotary TD 3354' @ 1230hrs, 4/17/22

 <p style="font-size: 24pt; 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	<b>1-18S-14W Barton Co Ks</b>  <b>Van Winkle 1-1</b> Job Ticket: 68932 <b>DST#: 1</b>  Test Start: 2022.04.15 @ 02:11:44

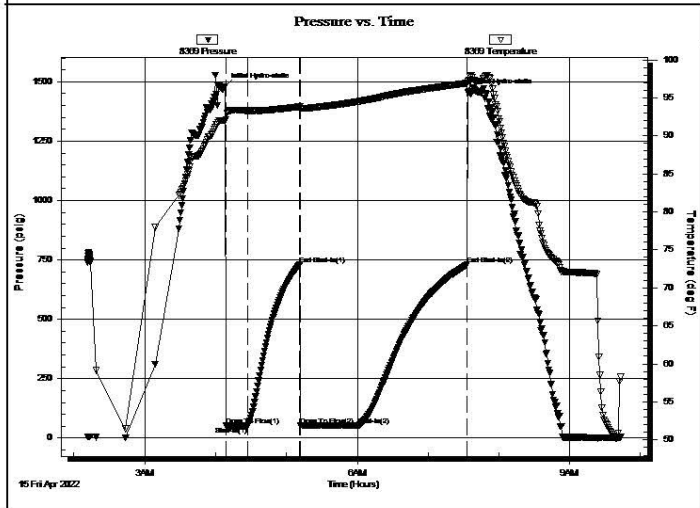
**GENERAL INFORMATION:**

Formation: <b>Lansing A-F</b> Deviated: No Whipstock: 0.00 ft (KB) Time Tool Opened: 04:08:54 Time Test Ended: 09:43:04  <b>Interval: 3099.00 ft (KB) To 3170.00 ft (KB) (TVD)</b> Total Depth: 3170.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Poor	Test Type: Conventional Bottom Hole (Initial) Tester: Eric Burgess Unit No: 80  Reference Elevations: 1840.00 ft (KB) 1832.00 ft (CF) KB to GR/CF: 8.00 ft
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**Serial #: 8369      Outside**

Press@RunDepth: 53.53 psig @ 3106.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2022.04.15      End Date: 2022.04.15	Last Calib.: 2022.04.15
Start Time: 02:11:45      End Time: 09:43:04	Time On Btm: 2022.04.15 @ 04:08:04
	Time Off Btm: 2022.04.15 @ 07:34:44

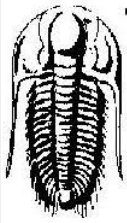
TEST COMMENT: IF:Fair Building Blow built to 5" in bucket (15)  
 IS:No Blow Back (45)  
 FF:Weak Building Blow built to .25" in bucket (45)  
 FSI:No Blow Back (90)



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1480.58	92.05	Initial Hydro-static
1	52.76	92.10	Open To Flow (1)
20	51.56	93.31	Shut-In(1)
64	730.82	93.85	End Shut-In(1)
65	54.39	93.51	Open To Flow (2)
113	53.53	94.51	Shut-In(2)
205	729.81	96.93	End Shut-In(2)
207	1457.24	97.33	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
63.00	M 100%M	0.61

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/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;"> <b>1-18S-14W Barton Co Ks</b>  <b>Van Winkle 1-1</b>                  Job Ticket: 68933      <b>DST#: 2</b>                  Test Start: 2022.04.16 @ 00:35:00             </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	<b>1-18S-14W Barton Co Ks</b> <b>Van Winkle 1-1</b> Job Ticket: 68933 <b>DST#: 2</b> Test Start: 2022.04.16 @ 00:35:00	

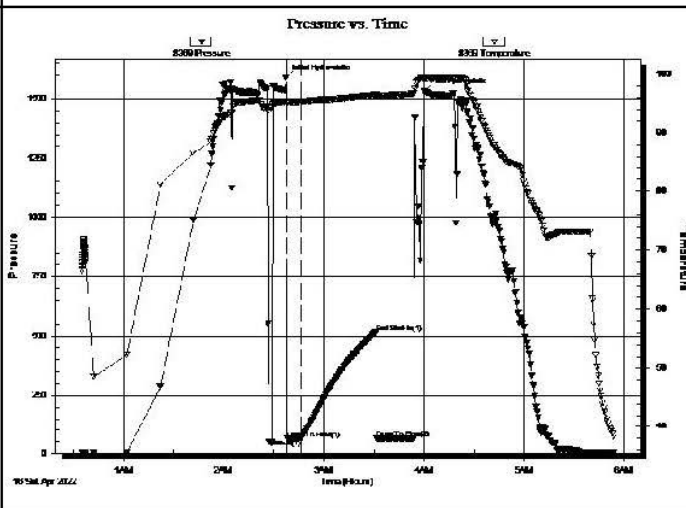
**GENERAL INFORMATION:**

Formation: <b>Lansing H-K</b> Deviated: No    Whipstock: 0.00 ft (KB) Time Tool Opened: 02:38:20 Time Test Ended: 05:54:00 <b>Interval: 3222.00 ft (KB) To 3305.00 ft (KB) (TVD)</b> Total Depth: 3305.00 ft (KB) (TVD) Hole Diameter: 7.88 inches    Hole Condition:	Test Type: Conventional Bottom Hole (Reset) Tester: Eric Burgess Unit No: 80 Reference Elevations: 1840.00 ft (KB) 1832.00 ft (CF) KB to GR/CF: 8.00 ft
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**Serial #: 8369    Outside**

Press@RunDepth: 63.17 psig @ 3229.00 ft (KB) Start Date: 2022.04.16    End Date: 2022.04.16 Start Time: 00:35:01    End Time: 05:54:00	Capacity: 8000.00 psig Last Calib.: 2022.04.16 Time On Btm: 2022.04.16 @ 02:37:40 Time Off Btm: 2022.04.16 @ 03:59:40
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**TEST COMMENT:** IF: Blow Died Flushed tool per geo and shut in tool (15)  
 IS: No Blow Back (45)  
 FF: No Blow pulled tool

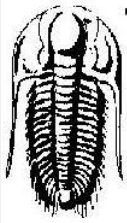


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1589.03	95.35	Initial Hydro-static
1	63.49	95.13	Open To Flow (1)
9	63.17	95.32	Shut-In(1)
54	514.33	96.42	End Shut-In(1)
54	64.33	96.21	Open To Flow (2)
82	1531.90	99.18	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
75.00	M 100%M	0.78

\* Recovery from multiple tests

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

 <b>TRILOBITE TESTING, INC.</b>	<b>DRILL STEM TEST REPORT</b>
	Shelby Resources LLC 3700 Quebec St Suite 100 PMB 376 Denver, Co 80207 ATTN: Jeremy Schwartz

**GENERAL INFORMATION:**

Formation: **Arbuckle**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 00:10:26  
 Time Test Ended: 05:36:46

Test Type: Conventional Bottom Hole (Reset)  
 Tester: Eric Burgess  
 Unit No: 80

**Interval: 3298.00 ft (KB) To 3354.00 ft (KB) (TVD)**  
 Total Depth: 3354.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

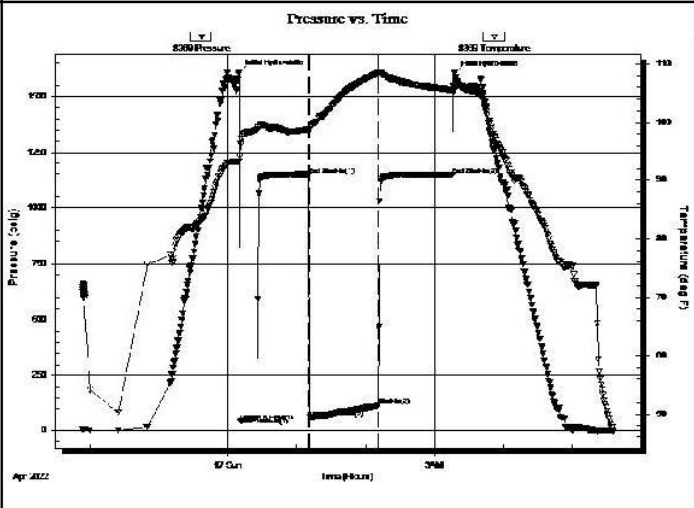
Reference Elevations: 1840.00 ft (KB)  
 1832.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8369 Outside**

Press@RunDepth: 117.11 psig @ 3300.00 ft (KB)  
 Start Date: 2022.04.16 End Date: 2022.04.17  
 Start Time: 21:52:27 End Time: 05:36:46

Capacity: 8000.00 psig  
 Last Calib.: 2022.04.17  
 Time On Btm: 2022.04.17 @ 00:09:36  
 Time Off Btm: 2022.04.17 @ 03:17:05

**TEST COMMENT:** IF:Fair Building Blow built to 5.25" in bucket (15)  
 IS:No Blow Back (45)  
 FF:Fair Building Blow built 9" in bucket (60)  
 FS:No Blow Back (60)



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1605.34	93.18	Initial Hydro-static
1	43.85	94.20	Open To Flow (1)
16	60.31	98.85	Shut-In(1)
61	1147.19	98.77	End Shut-In(1)
62	61.77	98.72	Open To Flow (2)
121	117.11	108.45	Shut-In(2)
186	1145.42	105.56	End Shut-In(2)
188	1602.31	105.49	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
63.00	MCW 15%M 85%W	0.61
63.00	MCW 5%M 95%W	0.88
63.00	WCM 55%M 45%W	0.88
31.00	WCM 65%M 35%W	0.43

\* Recovery from multiple tests

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