

Confidentiality Requested:

Yes  No

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

Form ACO-1

January 2018

**Form must be Typed**

**Form must be Signed**

**All blanks must be Filled**

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

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

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

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

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

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

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

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

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

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

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

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

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

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

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

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

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

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

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD  
 Plug Back  Liner  Conv. to GSW  Conv. to Producer

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

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

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

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

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

Spud Date or Date Reached TD Completion Date or Recompletion Date

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

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

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

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

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

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

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

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

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

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

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

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

Location of fluid disposal if hauled offsite:

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

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

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

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

**AFFIDAVIT**

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

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

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

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

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

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

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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# FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269  
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

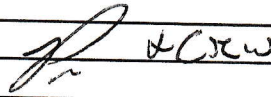
TICKET NUMBER 0341  
 LOCATION Hour  
 FOREMAN Preston Drilling

## FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-18-21		Minimum	18	7	25	Cook
CUSTOMER			TRUCK #			
MAILING ADDRESS			DRIVER			
CITY			TRUCK #			
STATE			DRIVER			
ZIP CODE			TRUCK #			

JOB TYPE Surface HOLE SIZE 12 1/4" HOLE DEPTH 253' CASING SIZE & WEIGHT 8 5/8" 20"  
 CASING DEPTH 250' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 15.2" SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT 15 Bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting Rig up on STP Break circ. Mix 200 sacks cement 3+2  
displace w/ 15 Bbls of H2O Circ. cement to pit.

*Thank you!*  


ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PC02	1	PUMP CHARGE	\$ 1150 <sup>00</sup>	\$ 1150 <sup>00</sup>
MD01	22	MILEAGE	\$ 6 <sup>50</sup>	\$ 143 <sup>00</sup>
MD03	9.4	Ten mileage Delivery Minimum	\$ 600 <sup>00</sup>	\$ 600 <sup>00</sup>
CR004	200	common 3% cc 2% Gel	\$ 24 <sup>50</sup>	\$ 4900 <sup>00</sup>
			sub total	\$ 6793 <sup>00</sup>
			less 30% discount	\$ 2057 <sup>90</sup>
			sub total	\$ 4755 <sup>10</sup>
			SALES TAX	257.25
			ESTIMATED TOTAL	5,012.35

AUTHORIZATION North Bison Drilling TITLE Driller DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: Minium #1  
 API: 15-065-24195  
 Location: SW NE NE NW Sec 18 T7S R25W  
 License Number:  
 Spud Date: 6/18/2021  
 Surface Coordinates: 335' FNL & 2119' FWL  
 Region: Graham County, KS  
 Drilling Completed: 6/25/2021  
 Bottom Hole: Surface casing- 8 5/8 @ 250'  
 Coordinates: Production casing-  
 Ground Elevation (ft): 2575  
 K.B. Elevation (ft): 2582  
 Logged Interval (ft): 3370 To: TD  
 Total Depth (ft): 3920  
 Formation:  
 Type of Drilling Fluid: Chemical Mud  
 Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Compass Exploration, LLC  
 Address: 2777 US Hwy 24  
 Hill City, KS 67642

GEOLOGIST

Name: Clayton Erickson  
 Company: Erickson Wellsite Geology  
 Address: 402 Palmer Street  
 P.O. Box 294  
 Loomis, NE 68958

DSTs

DST #1 3685-3710 30-60-15-60; Hydro: 1817-1792 IFP: 83-308 IFP: 1106 FFP: 35-429 FSIP: 1107; Rec: 90' GIP 15' oil 120' 3%o 94%w 3% m 780' 95%w 5% m; BHT: 121F Grav: 36 RW: .139@ 84F Chl: 48,000ppm; IF: BOB 3min ISI: 1.7" FF: BOB 3min FSI: 2.5"

DST #2 3713-3730 30-60-30-60; Hydro: 1843-1836 IFP: 32-28 ISIP: 612 FFP: 31-34 FSIP: 135; Rec: 5' mud; BHT: 112F; IF: 1/2" ISI: dead FF: dead FSI: dead

DST #3 3725-3760 30-60-15-60; Hydro: 1871-1083 IFP: 107-318 ISIP: 1054 FFP: 352-430 FSIP: 1060; Rec: 150' GIP 15' oil 960' 1%o 95%w 4% m; BHT: 119F Grav: 39 RW: .135@ 87F Chl: 42,000ppm; IF: BOB 3min ISI: 1.5" FF: BOB 3min FSI: 6.8"

DST #4 3804-3837 15-60-15-60; Hydro: 1897-1816 IFP: 258-445 ISIP: 1156 FFP: 506-698 FSIP: 1156; Rec: 20' oil 1510' 1%o 97%w 2% m; BHT: 122F Grav: 37; RW: .150@ 74F Chl: 45,000ppm; IF: BOB 1min ISI: dead FF: BOB 1.5min FSI: dead

DST #5 3834-3860 30-60-30-60; Hydro: 1906-1819 IFP: 20-18 ISIP: 27 FFP: 18-20 FSIP: 24; Rec: 3' mud; BHT: 110F; IF: 1/2" ISI: dead FF: dead FSI: dead

COMMENTS

Based upon examination of rock samples, DST results and Elogs it was decided to P&A this location.

FORMATION TOPS

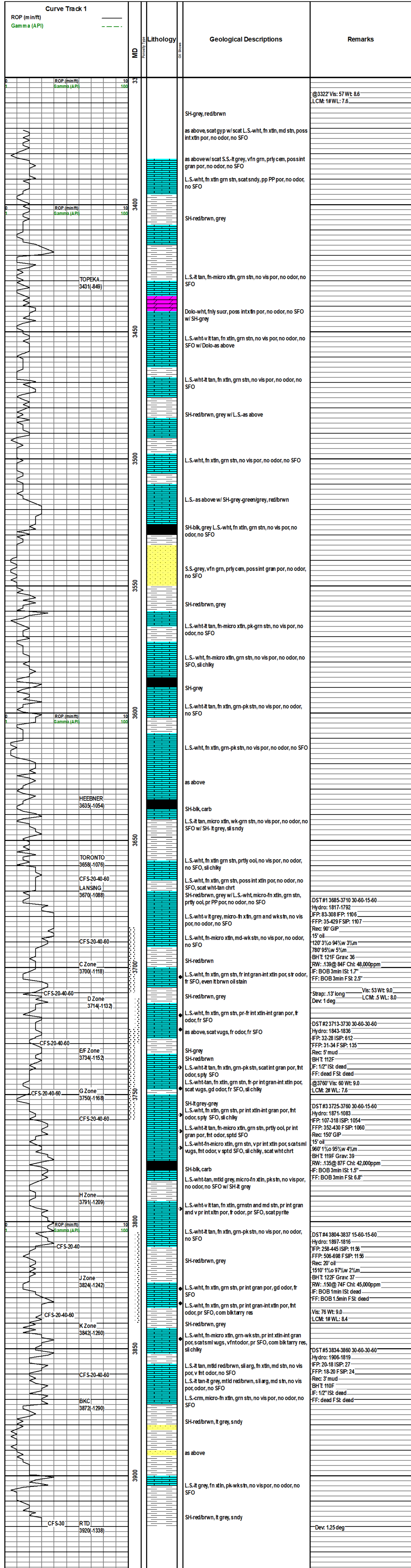
Log Tops	Sample tops
Anhydrite 2160(+422)	2160(+422)
Base Anhy 2192(+390)	2194(+388)
TOPEKA 3428(-846)	3431(-849)
HEEBNER 3633(-1052)	3635(-1054)
TORONTO 3654(-1072)	3658(-1076)
LANSING 3669(-1087)	3670(-1088)
BKC 3802(-1290)	3802(-1290)
TD 3920(-1338)	3920(-1338)

ROCK TYPES

Anhy	Clyst	Gyp	Mrlst	Shgy
Bent	Carb. shale	Igne	Salt	Siltst
Brec	Arkose	Lmst	Shale	Ss
Cht	Dol	Meta	Shcol	Till

OTHER SYMBOLS

OIL SHOW	Spotted	Dead	INTERVAL
Even	Ques		Dst





## DRILL STEM TEST REPORT

Prepared For: **Compass Exploration**

2777 W US Hwy 24  
Hill City, KS 67642

ATTN: Clayton Erickson

### **Minium #1**

#### **18-7s-25w Graham,KS**

Start Date: 2021.06.22 @ 10:58:00

End Date: 2021.06.22 @ 17:39:15

Job Ticket #: 66999                      DST #: 1

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

Printed: 2021.06.29 @ 14:34:00



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Compass Exploration

**18-7s-25w Graham,KS**

2777 W US Hwy 24  
Hill City, KS 67642

**Minium #1**

Job Ticket: 66999

**DST#: 1**

ATTN: Clayton Erickson

Test Start: 2021.06.22 @ 10:58:00

## GENERAL INFORMATION:

Formation: **LKC C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:30:00

Time Test Ended: 17:39:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 3685.00 ft (KB) To 3710.00 ft (KB) (TVD)**

Reference Elevations: 2582.00 ft (KB)

Total Depth: 3710.00 ft (KB) (TVD)

2575.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 8319 Outside**

Press@RunDepth: 429.52 psig @ 3686.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.06.22

End Date:

2021.06.22

Last Calib.:

2021.06.22

Start Time: 10:58:05

End Time:

17:39:14

Time On Btm:

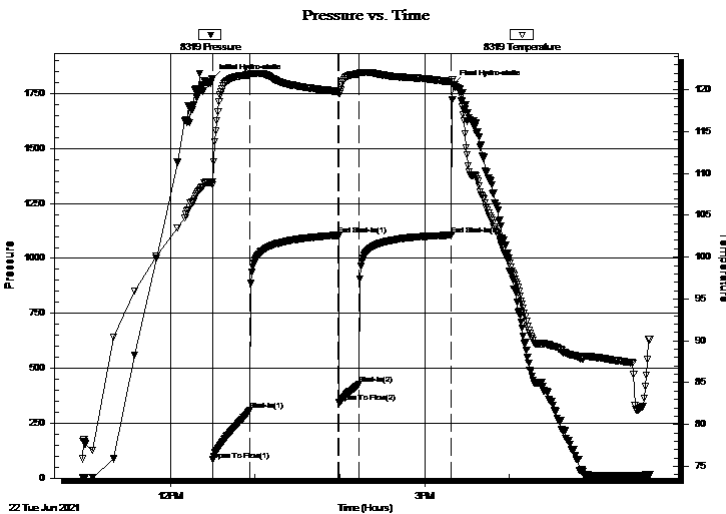
2021.06.22 @ 12:29:45

Time Off Btm:

2021.06.22 @ 15:20:15

**TEST COMMENT:** 30- IF: BOB @ 3 min- 71.4" blow .  
60- IS: 1.7" return.  
15- FF: BOB @ 3 min- 34" blow .  
60- FS: 2.5" return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1817.24	109.03	Initial Hydro-static
1	83.47	108.61	Open To Flow (1)
27	308.78	121.79	Shut-In(1)
89	1106.05	119.80	End Shut-In(1)
90	345.26	119.53	Open To Flow (2)
104	429.52	121.91	Shut-In(2)
169	1107.07	120.97	End Shut-In(2)
171	1792.06	120.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
780.00	mcw 5m 95w	9.85
120.00	somcw 3o 3m 94w	1.68
15.00	oil 100o	0.21
0.00	90' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Compass Exploration

**18-7s-25w Graham,KS**

2777 W US Hwy 24  
Hill City, KS 67642

**Minium #1**

Job Ticket: 66999

**DST#: 1**

ATTN: Clayton Erickson

Test Start: 2021.06.22 @ 10:58:00

## Tool Information

Drill Pipe:	Length: 3567.00 ft	Diameter: 3.80 inches	Volume: 50.04 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 50.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3685.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	52.00 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			3659.00	
Shut In Tool	5.00		Fluid	3664.00	
Hydraulic tool	5.00			3669.00	
Jars	5.00			3674.00	
Safety Joint	2.00			3676.00	
Packer	5.00		Inside	3681.00	27.00 Bottom Of Top Packer
Packer	4.00			3685.00	
Stubb	1.00			3686.00	
Recorder	0.00	8522	Inside	3686.00	
Recorder	0.00	8319	Outside	3686.00	
Perforations	21.00			3707.00	
Bullnose	3.00			3710.00	25.00 Bottom Packers & Anchor

**Total Tool Length: 52.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Compass Exploration

**18-7s-25w Graham,KS**

2777 W US Hwy 24  
Hill City, KS 67642

**Minium #1**

Job Ticket: 66999

**DST#: 1**

ATTN: Clayton Erickson

Test Start: 2021.06.22 @ 10:58:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
780.00	mcw 5m 95w	9.848
120.00	somcw 3o 3m 94w	1.683
15.00	oil 100o	0.210
0.00	90' GIP	0.000

Total Length: 915.00 ft      Total Volume: 11.741 bbl

Num Fluid Samples: 0

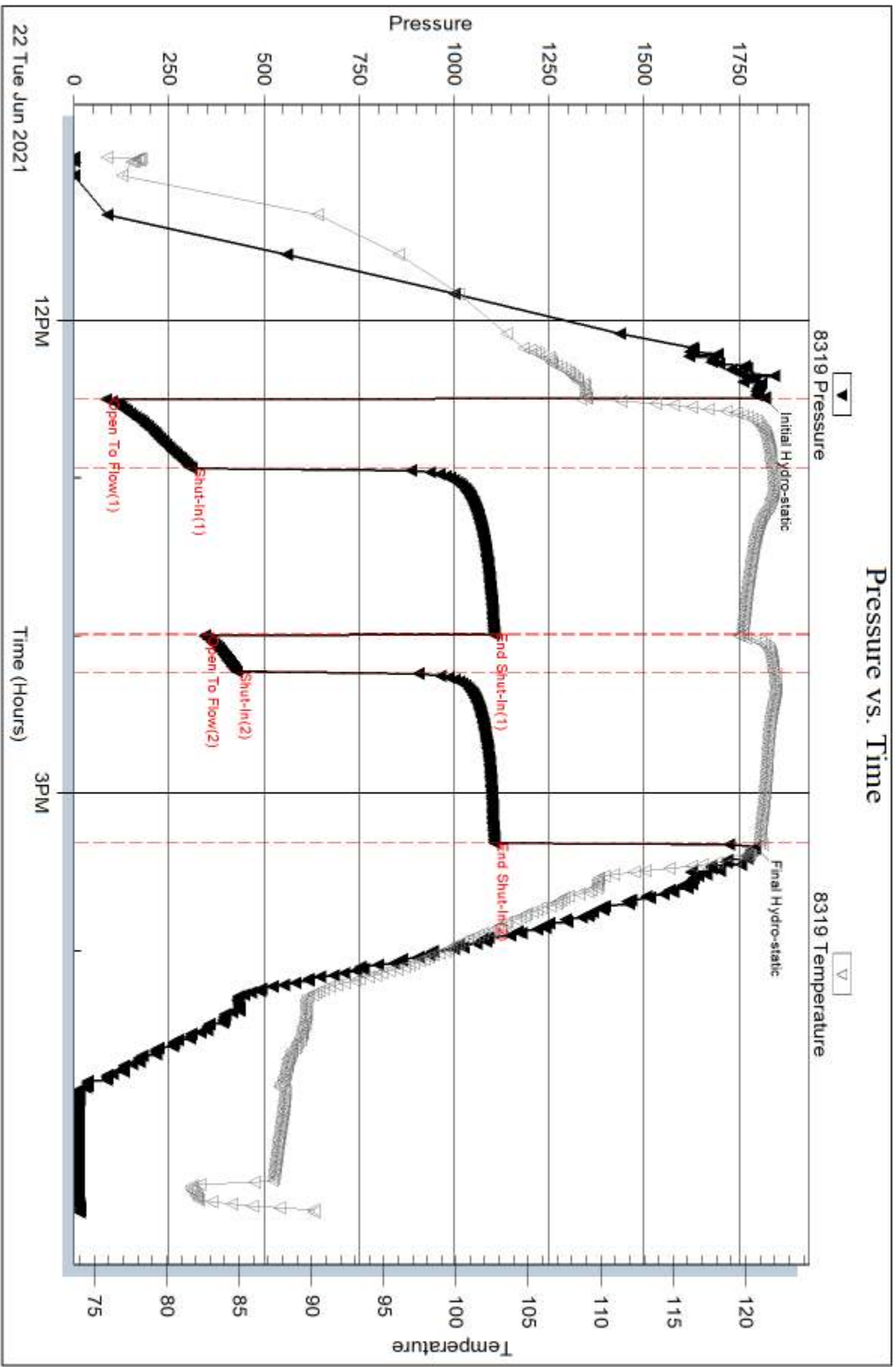
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .139 @ 84f = 48000ppm



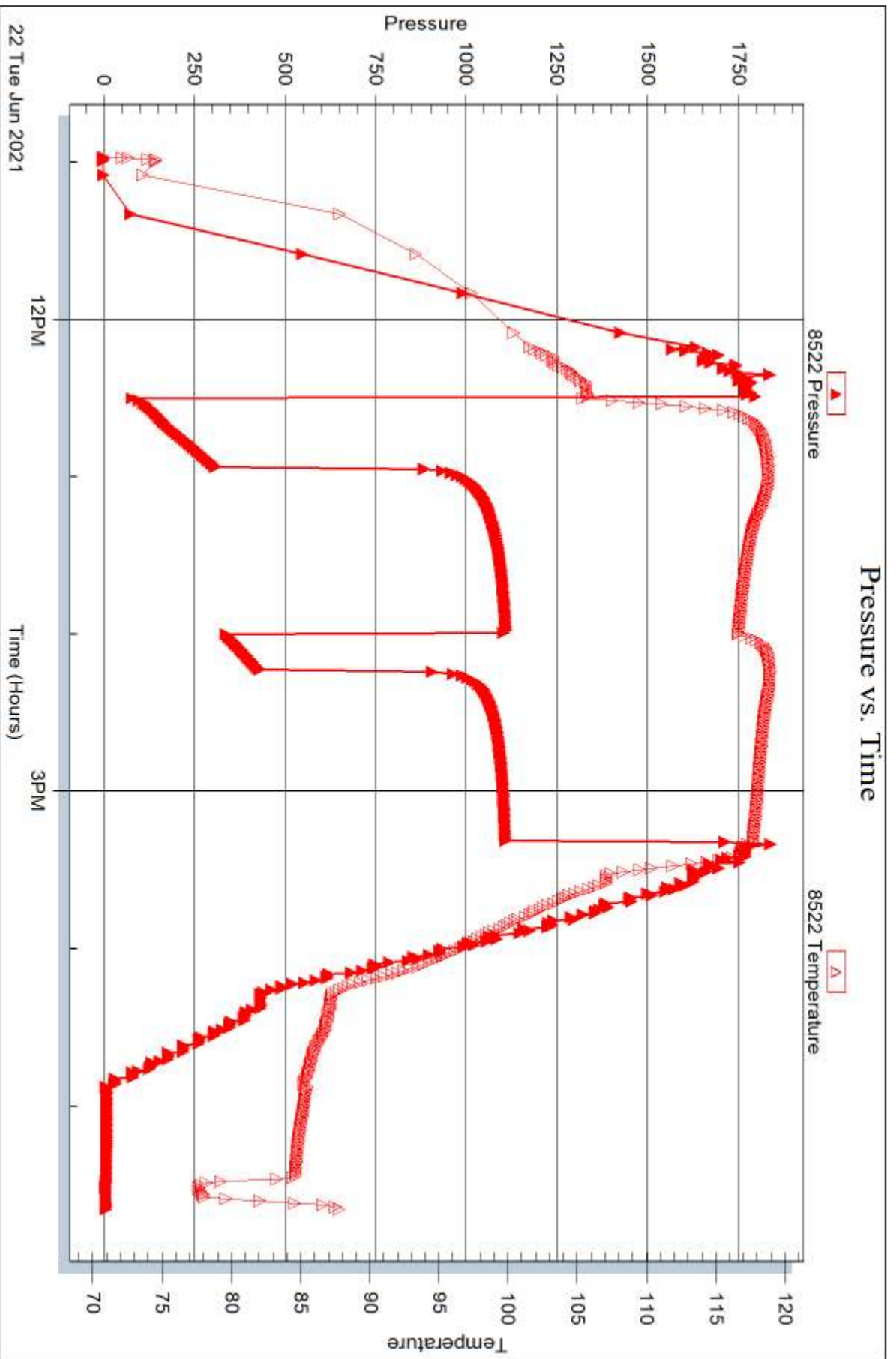
Serial #: 8522

Inside

Compass Exploration

Manium #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 66999

Printed: 2021.06.29 @ 14:34:01



## DRILL STEM TEST REPORT

Prepared For: **Compass Exploration**

2777 W US Hwy 24  
Hill City, KS 67642

ATTN: Clayton Erickson

### **Minium #1**

#### **18-7s-25w Graham,KS**

Start Date: 2021.06.22 @ 23:08:00

End Date: 2021.06.23 @ 05:36:30

Job Ticket #: 67000                      DST #: 2

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

Printed: 2021.06.29 @ 14:33:30



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Compass Exploration

**18-7s-25w Graham,KS**

2777 W US Hwy 24  
Hill City, KS 67642

**Minium #1**

Job Ticket: 67000

**DST#: 2**

ATTN: Clayton Erickson

Test Start: 2021.06.22 @ 23:08:00

## GENERAL INFORMATION:

Formation: **LKC D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:51:15

Time Test Ended: 05:36:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 3713.00 ft (KB) To 3730.00 ft (KB) (TVD)**

Reference Elevations: 2582.00 ft (KB)

Total Depth: 3730.00 ft (KB) (TVD)

2575.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 8319 Outside**

Press@RunDepth: 34.09 psig @ 3714.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.06.22

End Date:

2021.06.23

Last Calib.:

2021.06.23

Start Time: 23:08:05

End Time:

05:36:29

Time On Btm:

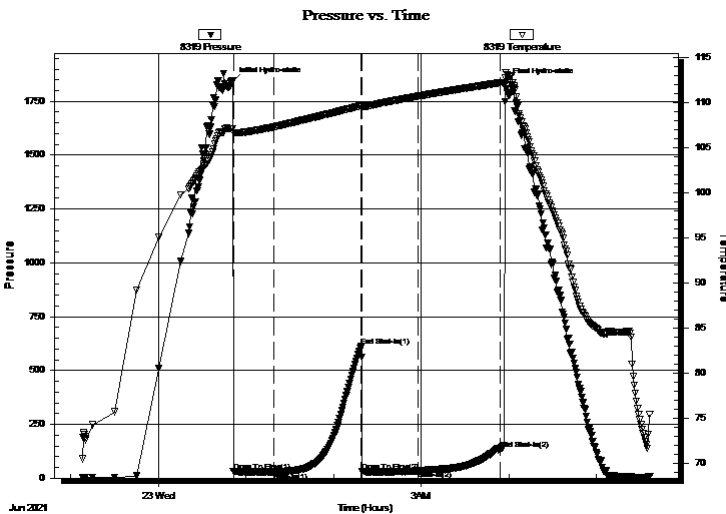
2021.06.23 @ 00:50:30

Time Off Btm:

2021.06.23 @ 03:57:45

**TEST COMMENT:** 30- IF: .3" blow .  
60- IS: No return.  
30- FF: No blow .  
60- FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1843.65	107.13	Initial Hydro-static
1	32.74	106.70	Open To Flow (1)
29	28.57	107.32	Shut-In(1)
89	612.12	109.67	End Shut-In(1)
89	31.79	109.53	Open To Flow (2)
128	34.09	110.74	Shut-In(2)
184	135.68	112.21	End Shut-In(2)
188	1836.43	113.36	Final Hydro-static

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
5.00	mud 100m Oil spots	0.02

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Compass Exploration

**18-7s-25w Graham,KS**

2777 W US Hwy 24  
Hill City, KS 67642

**Minium #1**

Job Ticket: 67000

**DST#: 2**

ATTN: Clayton Erickson

Test Start: 2021.06.22 @ 23:08:00

## Tool Information

Drill Pipe:	Length: 3600.00 ft	Diameter: 3.80 inches	Volume: 50.50 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 51.09 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial	49000.00 lb
Depth to Top Packer:	3713.00 ft			Final	49000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	17.00 ft				
Tool Length:	44.00 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			3687.00	
Shut In Tool	5.00		Fluid	3692.00	
Hydraulic tool	5.00			3697.00	
Jars	5.00			3702.00	
Safety Joint	2.00			3704.00	
Packer	5.00		Inside	3709.00	27.00 Bottom Of Top Packer
Packer	4.00			3713.00	
Stubb	1.00			3714.00	
Recorder	0.00	8522	Inside	3714.00	
Recorder	0.00	8319	Outside	3714.00	
Perforations	13.00			3727.00	
Bullnose	3.00			3730.00	17.00 Bottom Packers & Anchor

**Total Tool Length: 44.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Compass Exploration

**18-7s-25w Graham,KS**

2777 W US Hwy 24  
Hill City, KS 67642

**Minium #1**

Job Ticket: 67000

**DST#: 2**

ATTN: Clayton Erickson

Test Start: 2021.06.22 @ 23:08:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100m Oil spots	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

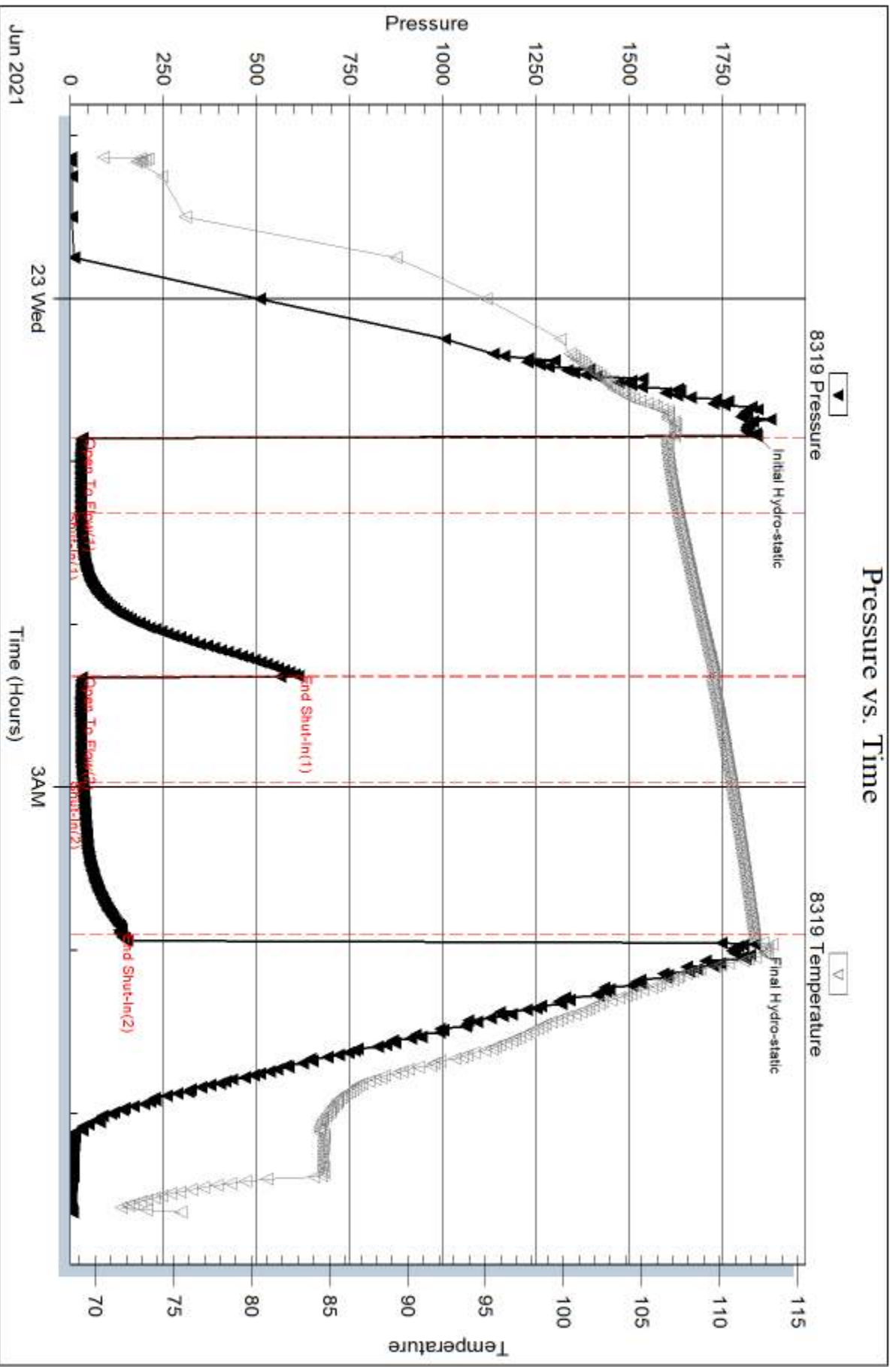
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



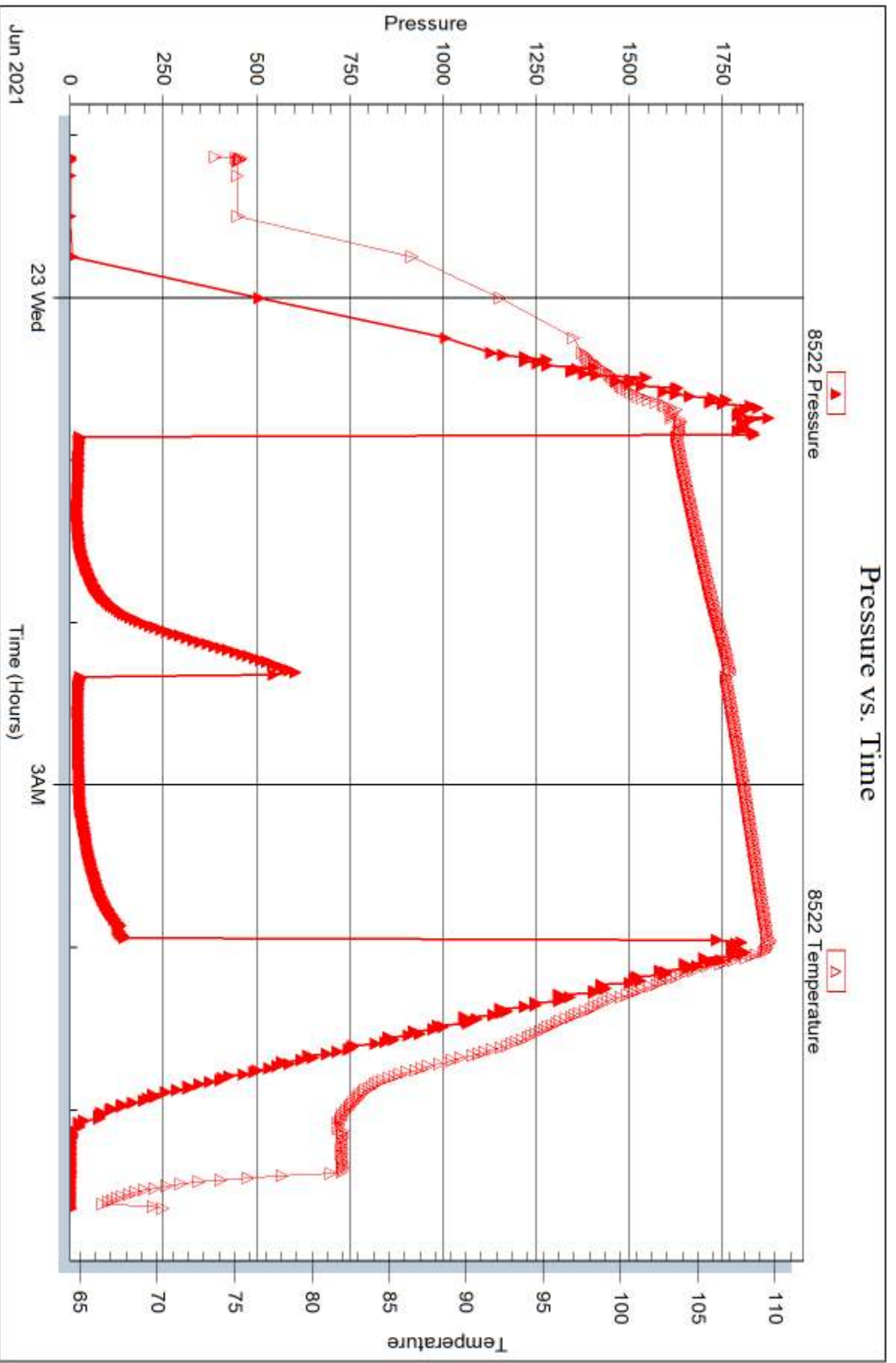
Serial #: 8522

Inside

Compass Exploration

Manium #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 67000

Printed: 2021.06.29 @ 14:33:31



## DRILL STEM TEST REPORT

Prepared For: **Compass Exploration**

2777 W US Hwy 24  
Hill City, KS 67642

ATTN: Clayton Erickson

### **Minium #1**

### **18-7s-25w Graham,KS**

Start Date: 2021.06.23 @ 13:16:00

End Date: 2021.06.23 @ 20:09:45

Job Ticket #: 67476                      DST #: 3

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

Printed: 2021.06.29 @ 14:33:01



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Compass Exploration

**18-7s-25w Graham,KS**

2777 W US Hwy 24  
Hill City, KS 67642

**Minium #1**

Job Ticket: 67476

**DST#: 3**

ATTN: Clayton Erickson

Test Start: 2021.06.23 @ 13:16:00

## GENERAL INFORMATION:

Formation: **LKC E - G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:54:15

Time Test Ended: 20:09:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 3725.00 ft (KB) To 3760.00 ft (KB) (TVD)**

Reference Elevations: 2582.00 ft (KB)

Total Depth: 3760.00 ft (KB) (TVD)

2575.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 8319 Outside**

Press@RunDepth: 430.69 psig @ 3726.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.06.23

End Date:

2021.06.23

Last Calib.:

2021.06.23

Start Time:

13:16:05

End Time:

20:09:44

Time On Btm:

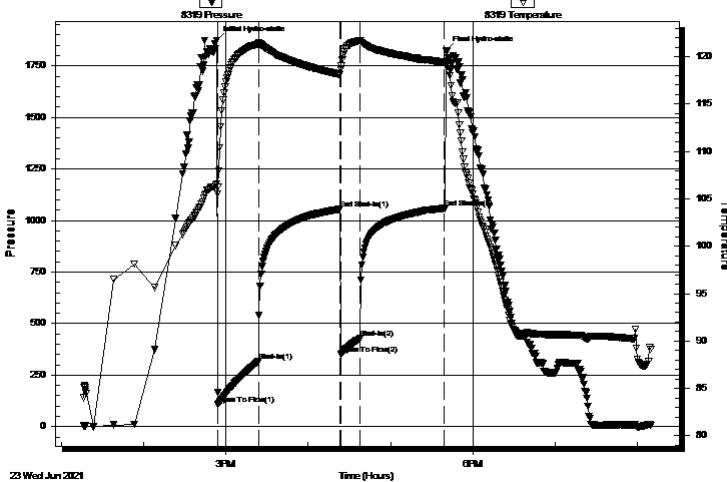
2021.06.23 @ 14:53:15

Time Off Btm:

2021.06.23 @ 17:40:45

**TEST COMMENT:** 30- IF: BOB @ 3 min. 74"  
60- IS: 1.5" return.  
15- FF: BOB @ 3 min- 32"  
60- FS: 6.8" return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1871.13	106.59	Initial Hydro-static
1	107.27	106.28	Open To Flow (1)
31	318.36	121.34	Shut-In(1)
90	1054.44	118.12	End Shut-In(1)
91	352.35	118.61	Open To Flow (2)
105	430.69	121.68	Shut-In(2)
166	1060.17	119.38	End Shut-In(2)
168	1823.28	119.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
960.00	somcw 1o 4m 95w	12.37
15.00	oil 100o	0.21
0.00	150' GIP	0.00

Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Compass Exploration

**18-7s-25w Graham,KS**

2777 W US Hwy 24  
Hill City, KS 67642

**Minium #1**

Job Ticket: 67476

**DST#: 3**

ATTN: Clayton Erickson

Test Start: 2021.06.23 @ 13:16:00

## Tool Information

Drill Pipe:	Length: 3600.00 ft	Diameter: 3.80 inches	Volume: 50.50 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 51.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3725.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	62.00 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			3699.00	
Shut In Tool	5.00		Fluid	3704.00	
Hydraulic tool	5.00			3709.00	
Jars	5.00			3714.00	
Safety Joint	2.00			3716.00	
Packer	5.00		Inside	3721.00	27.00 Bottom Of Top Packer
Packer	4.00			3725.00	
Stubb	1.00			3726.00	
Recorder	0.00	8522	Inside	3726.00	
Recorder	0.00	8319	Outside	3726.00	
Perforations	31.00			3757.00	
Bullnose	3.00			3760.00	35.00 Bottom Packers & Anchor

**Total Tool Length: 62.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Compass Exploration

**18-7s-25w Graham,KS**

2777 W US Hwy 24  
Hill City, KS 67642

**Minium #1**

Job Ticket: 67476

**DST#: 3**

ATTN: Clayton Erickson

Test Start: 2021.06.23 @ 13:16:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

42000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
960.00	somcw 1o 4m 95w	12.373
15.00	oil 100o	0.210
0.00	150' GIP	0.000

Total Length: 975.00 ft      Total Volume: 12.583 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

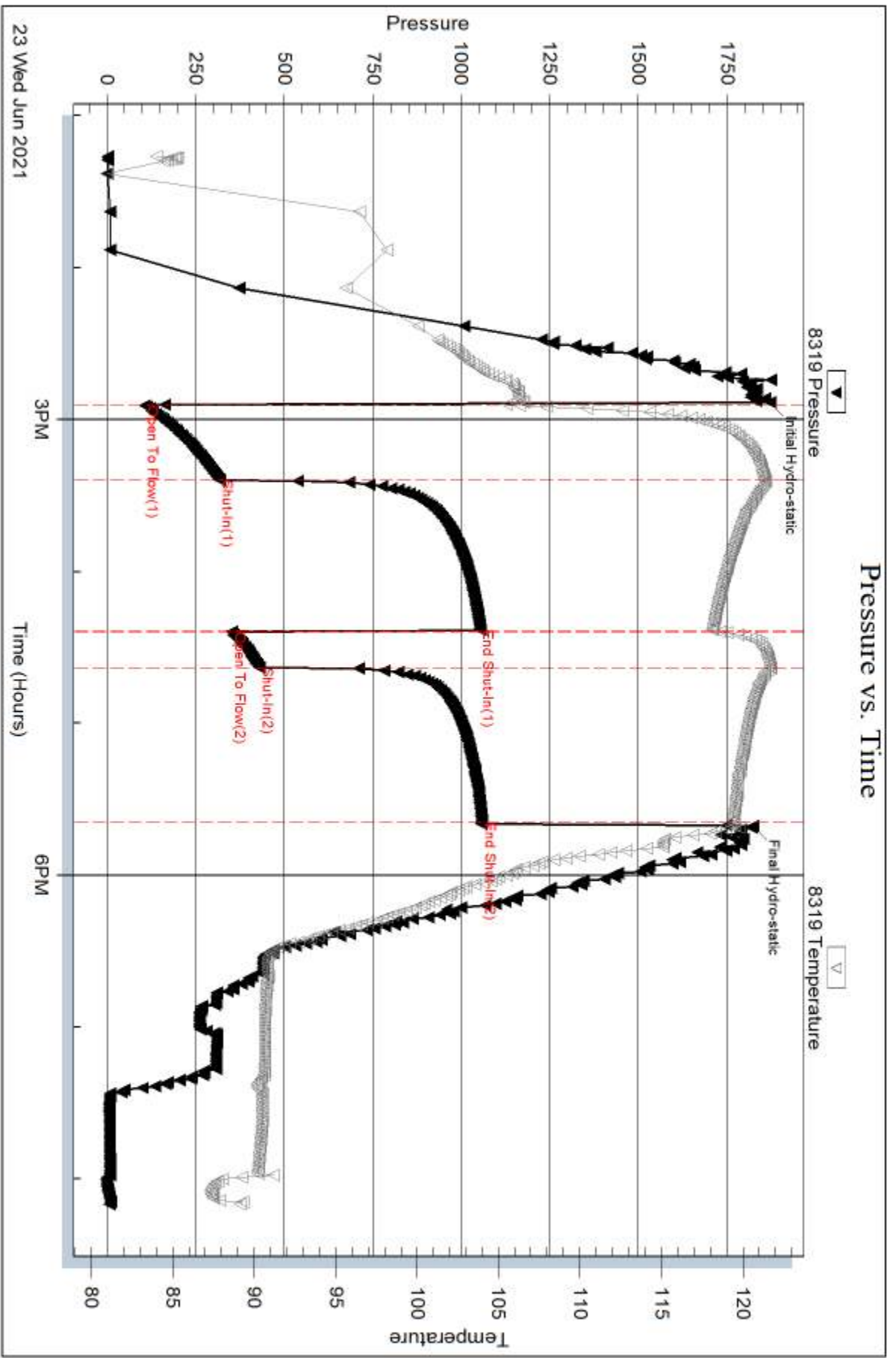
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .135 @ 87f = 42000ppm





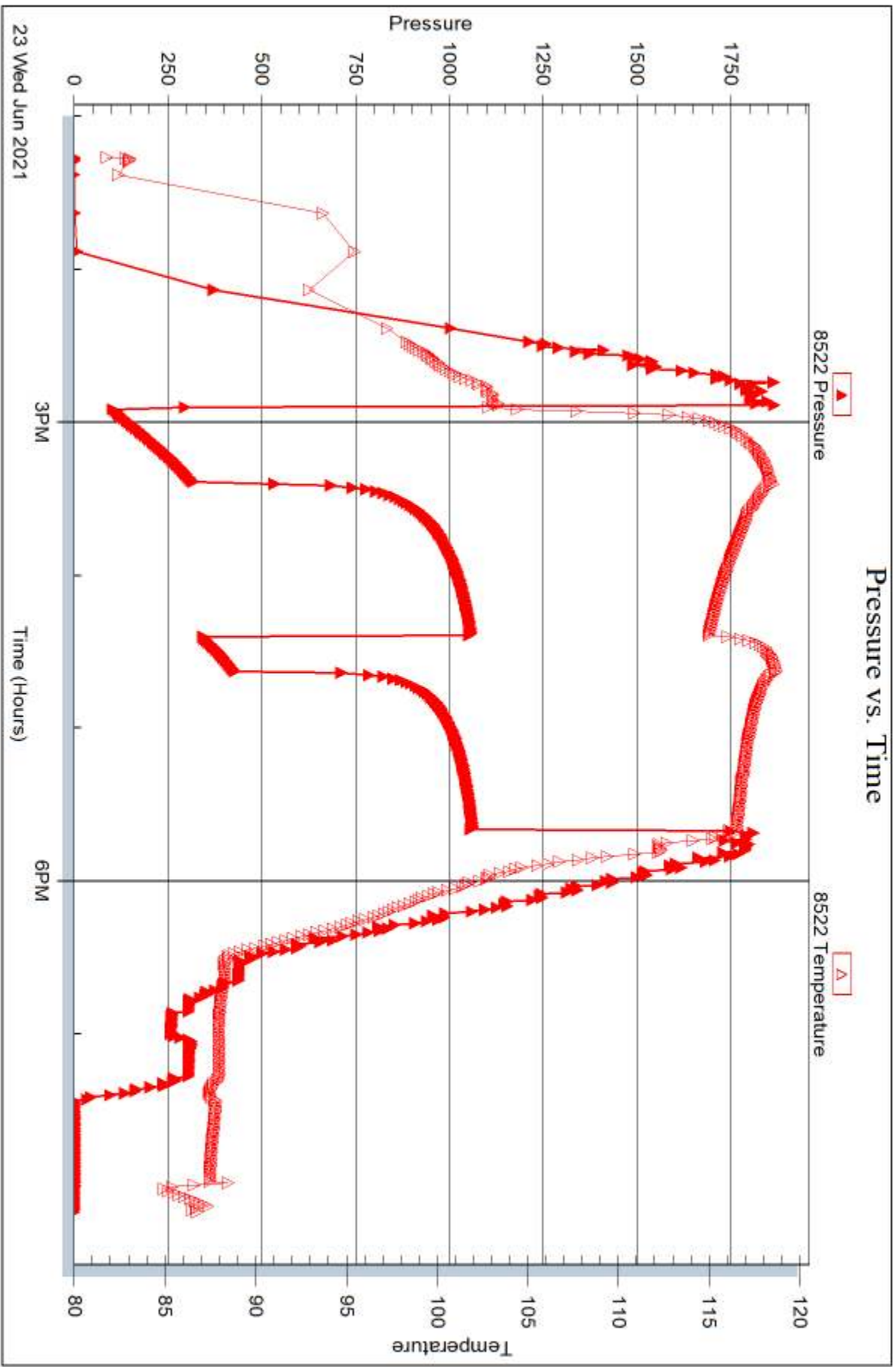
Serial #: 8522

Inside

Compass Exploration

Manium #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 67476

Printed: 2021.06.29 @ 14:33:02



## DRILL STEM TEST REPORT

Prepared For: **Compass Exploration**

2777 W US Hwy 24  
Hill City, KS 67642

ATTN: Clayton Erickson

### **Minium #1**

#### **18-7s-25w Graham,KS**

Start Date: 2021.06.24 @ 07:48:00

End Date: 2021.06.24 @ 14:26:00

Job Ticket #: 67477                      DST #: 4

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

Printed: 2021.06.29 @ 14:32:25



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Compass Exploration

**18-7s-25w Graham,KS**

2777 W US Hwy 24  
Hill City, KS 67642

**Minium #1**

Job Ticket: 67477

**DST#: 4**

ATTN: Clayton Erickson

Test Start: 2021.06.24 @ 07:48:00

## GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:32:45

Time Test Ended: 14:26:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 3804.00 ft (KB) To 3837.00 ft (KB) (TVD)**

Reference Elevations: 2582.00 ft (KB)

Total Depth: 3837.00 ft (KB) (TVD)

2575.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 8319**

**Outside**

Press@RunDepth: 698.79 psig @ 3805.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.06.24

End Date:

2021.06.24

Last Calib.:

2021.06.24

Start Time: 07:48:05

End Time:

14:25:59

Time On Btm:

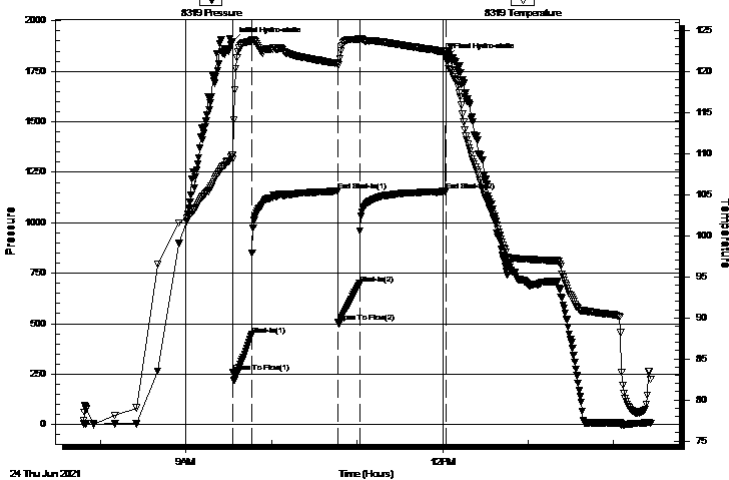
2021.06.24 @ 09:32:30

Time Off Btm:

2021.06.24 @ 12:03:00

**TEST COMMENT:** 15- IF: BOB @ 1 min - 106"  
60- IS: No return.  
15- FF: BOB @ 1.5 min - 95"  
60- FS: No return.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1896.87	109.79	Initial Hydro-static
1	258.73	109.31	Open To Flow (1)
14	445.62	123.73	Shut-In(1)
74	1156.66	120.99	End Shut-In(1)
75	506.40	120.76	Open To Flow (2)
90	698.79	123.92	Shut-In(2)
150	1156.02	122.44	End Shut-In(2)
151	1816.91	121.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1510.00	somcw 1o 2m 97w	20.09
20.00	oil 100o	0.28

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Compass Exploration

**18-7s-25w Graham,KS**

2777 W US Hwy 24  
Hill City, KS 67642

**Minium #1**

Job Ticket: 67477

**DST#: 4**

ATTN: Clayton Erickson

Test Start: 2021.06.24 @ 07:48:00

## Tool Information

Drill Pipe:	Length: 3663.00 ft	Diameter: 3.80 inches	Volume: 51.38 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 51.97 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3804.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	33.00 ft				
Tool Length:	60.00 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			3778.00	
Shut In Tool	5.00		Fluid	3783.00	
Hydraulic tool	5.00			3788.00	
Jars	5.00			3793.00	
Safety Joint	2.00			3795.00	
Packer	5.00		Inside	3800.00	27.00 Bottom Of Top Packer
Packer	4.00			3804.00	
Stubb	1.00			3805.00	
Recorder	0.00	8522	Inside	3805.00	
Recorder	0.00	8319	Outside	3805.00	
Perforations	29.00			3834.00	
Bullnose	3.00			3837.00	33.00 Bottom Packers & Anchor

**Total Tool Length: 60.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Compass Exploration

**18-7s-25w Graham,KS**

2777 W US Hwy 24  
Hill City, KS 67642

**Minium #1**

Job Ticket: 67477

**DST#: 4**

ATTN: Clayton Erickson

Test Start: 2021.06.24 @ 07:48:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

45000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1510.00	somcw 1o 2m 97w	20.088
20.00	oil 100o	0.281

Total Length: 1530.00 ft      Total Volume: 20.369 bbl

Num Fluid Samples: 0

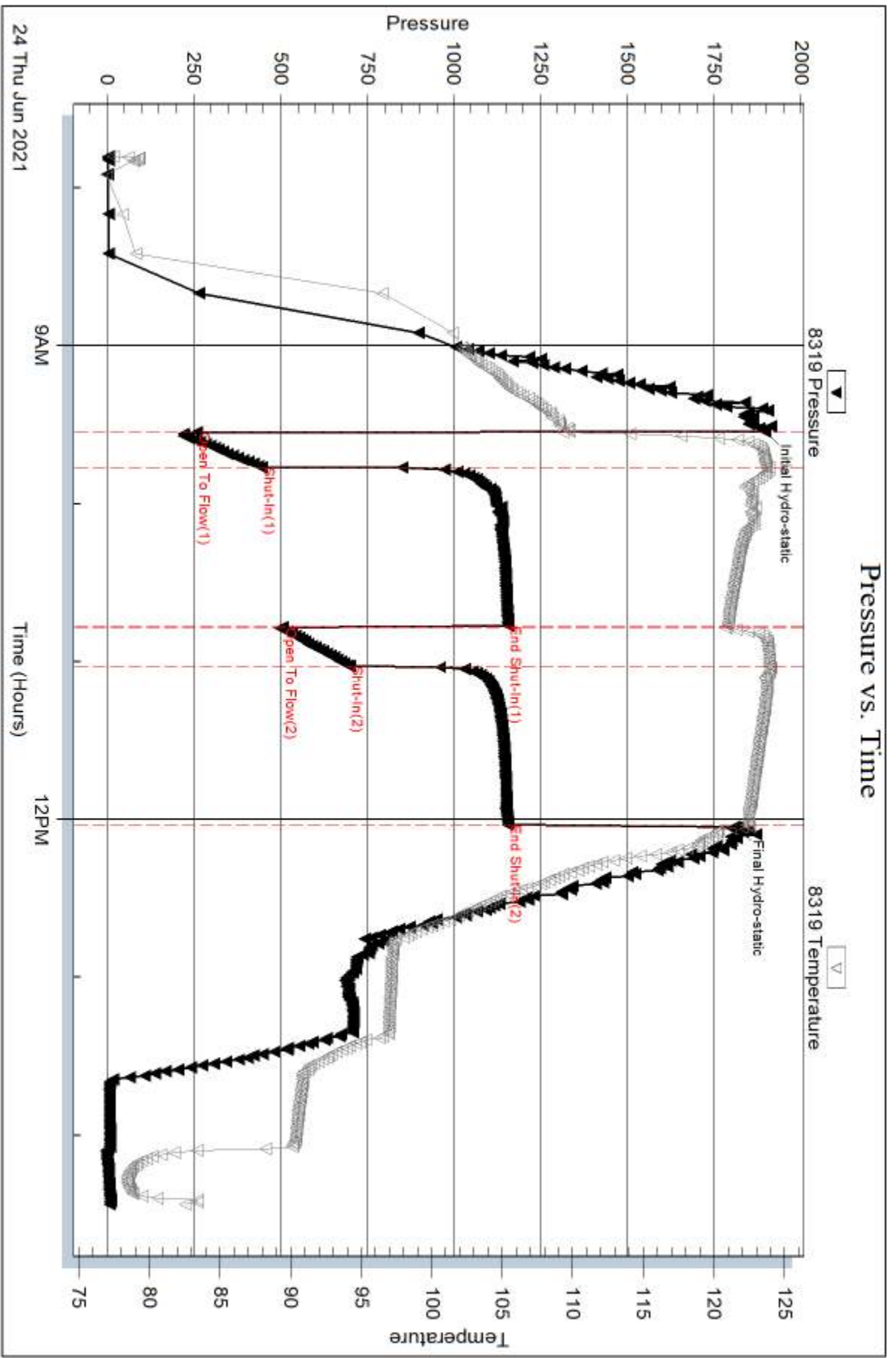
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is ..150 @ 74f = 45000ppm





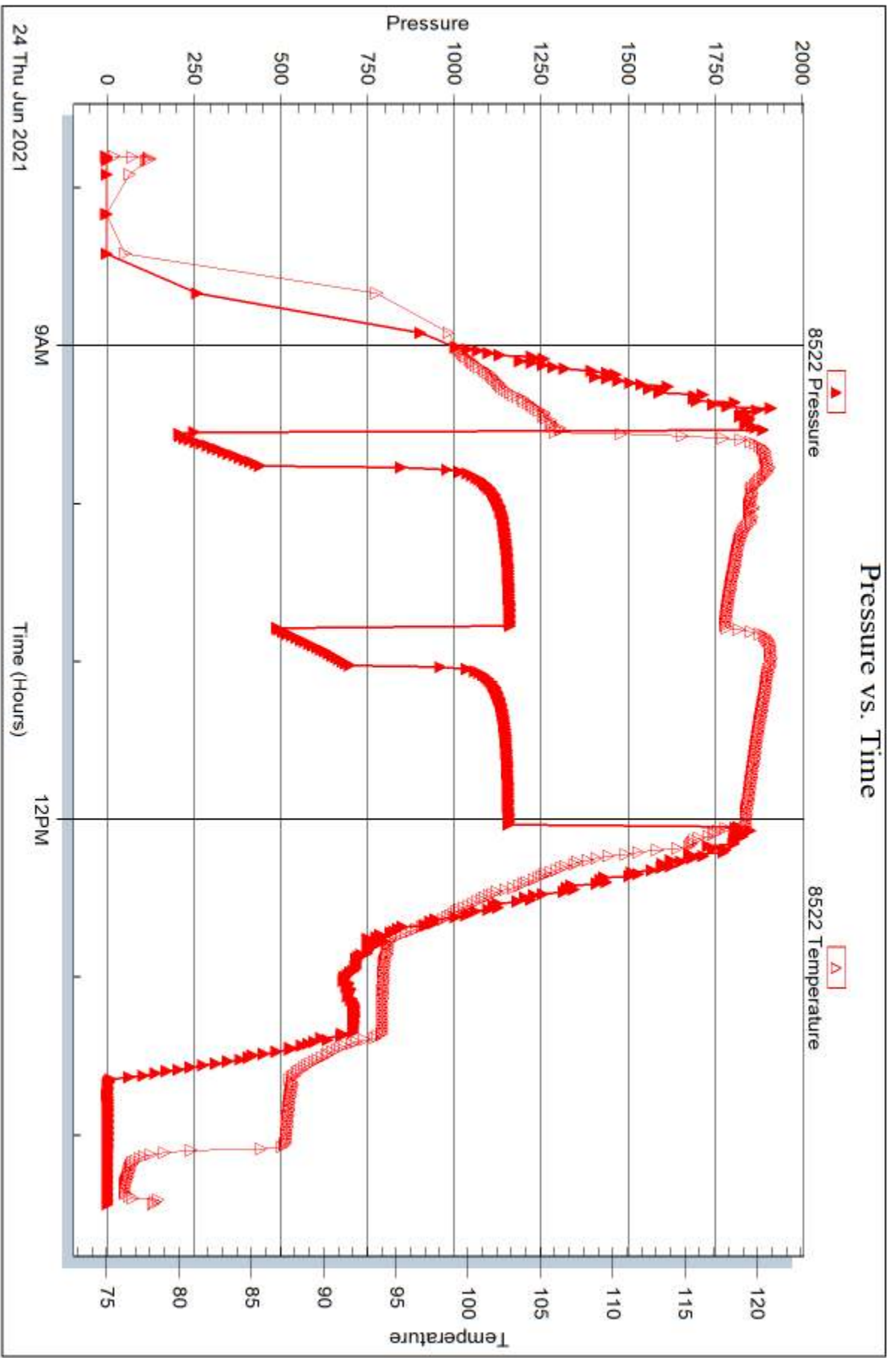
Serial #: 8522

Inside

Compass Exploration

Manium #1

DST Test Number: 4





## DRILL STEM TEST REPORT

Prepared For: **Compass Exploration**

2777 W US Hwy 24  
Hill City, KS 67642

ATTN: Clayton Erickson

### **Minium #1**

### **18-7s-25w Graham,KS**

Start Date: 2021.06.24 @ 20:42:00

End Date: 2021.06.25 @ 03:18:15

Job Ticket #: 67478                      DST #: 5

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

Printed: 2021.06.29 @ 14:31:51



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Compass Exploration

**18-7s-25w Graham,KS**

2777 W US Hwy 24  
Hill City, KS 67642

**Minium #1**

Job Ticket: 67478

**DST#: 5**

ATTN: Clayton Erickson

Test Start: 2021.06.24 @ 20:42:00

## GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:39:15

Time Test Ended: 03:18:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 3834.00 ft (KB) To 3860.00 ft (KB) (TVD)**

Reference Elevations: 2582.00 ft (KB)

Total Depth: 3860.00 ft (KB) (TVD)

2575.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 8522**

**Inside**

Press@RunDepth: 20.87 psig @ 3835.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.06.24

End Date:

2021.06.25

Last Calib.:

2021.06.25

Start Time: 20:42:05

End Time:

03:18:14

Time On Btm:

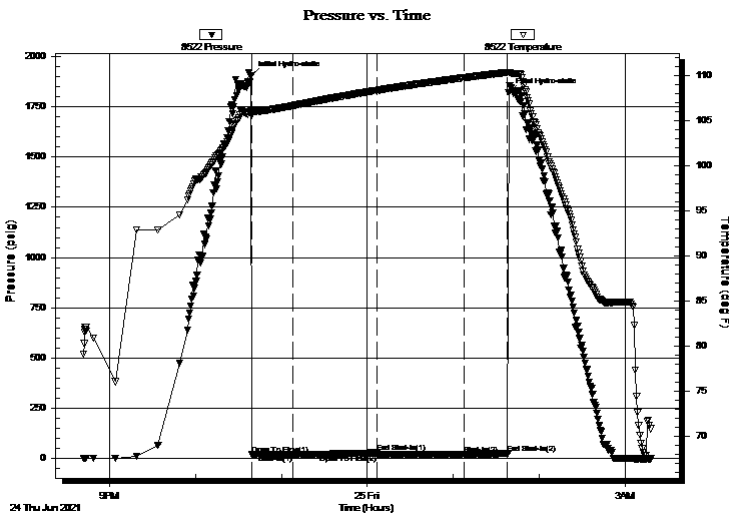
2021.06.24 @ 22:39:00

Time Off Btm:

2021.06.25 @ 01:38:45

**TEST COMMENT:** 30- IF: 1/2" blow .  
60- IS: No return.  
30- FF: No blow .  
60- FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1906.11	106.11	Initial Hydro-static
1	20.09	105.66	Open To Flow (1)
29	18.43	106.71	Shut-In(1)
88	27.92	108.41	End Shut-In(1)
88	18.01	108.40	Open To Flow (2)
149	20.87	109.80	Shut-In(2)
179	24.35	110.39	End Shut-In(2)
180	1819.73	110.37	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100m (oil spots)	0.01

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Compass Exploration

**18-7s-25w Graham,KS**

2777 W US Hwy 24  
Hill City, KS 67642

**Minium #1**

Job Ticket: 67478

**DST#: 5**

ATTN: Clayton Erickson

Test Start: 2021.06.24 @ 20:42:00

## Tool Information

Drill Pipe:	Length: 3694.00 ft	Diameter: 3.80 inches	Volume: 51.82 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 52.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3834.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	53.00 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			3808.00	
Shut In Tool	5.00		Fluid	3813.00	
Hydraulic tool	5.00			3818.00	
Jars	5.00			3823.00	
Safety Joint	2.00			3825.00	
Packer	5.00		Inside	3830.00	27.00 Bottom Of Top Packer
Packer	4.00			3834.00	
Stubb	1.00			3835.00	
Recorder	0.00	8522	Inside	3835.00	
Recorder	0.00	8319	Outside	3835.00	
Perforations	22.00			3857.00	
Bullnose	3.00			3860.00	26.00 Bottom Packers & Anchor

**Total Tool Length: 53.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Compass Exploration

**18-7s-25w Graham,KS**

2777 W US Hwy 24  
Hill City, KS 67642

**Minium #1**

Job Ticket: 67478

**DST#: 5**

ATTN: Clayton Erickson

Test Start: 2021.06.24 @ 20:42:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud 100m (oil spots)	0.015

Total Length: 3.00 ft      Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8522

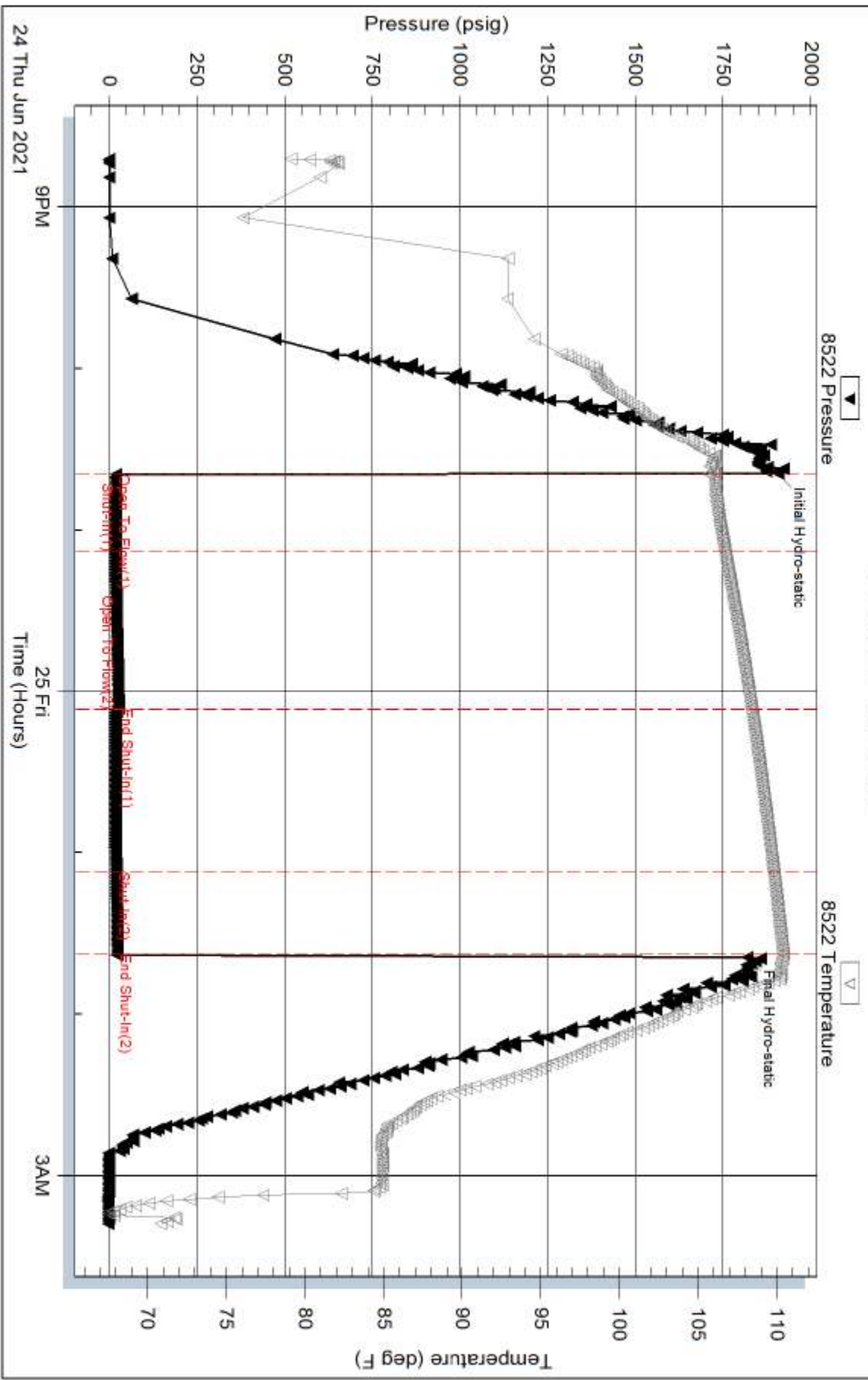
Inside

Compass Exploration

Manium #1

DST Test Number: 5

### Pressure vs. Time



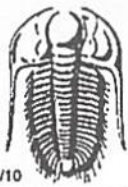
Triobite Testing, Inc

Ref. No: 67478

Printed: 2021.06.29 @ 14:31:52







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 66999

Well Name & No. Minium #1 Test No. 1 Date 6/22/2021  
 Company Compass Exploration Elevation 2582 KB 2575 GL  
 Address 2777 US Hwy 24 Hill City, Ks 67642  
 Co. Rep / Geo. Clayton Erickson Rig STP  
 Location: Sec. 18 Twp 7S Rge. 25W Co. Graham State Ks

Interval Tested 3685-3710 Zone Tested LKC C  
 Anchor Length 25' Drill Pipe Run 3567 Mud Wt. 9.0  
 Top Packer Depth 3680 Drill Collars Run 120 Vls 53  
 Bottom Packer Depth 3685 Wt. Pipe Run 0 WL 8.0  
 Total Depth 3710 Chlorides 1400 ppm System LCM 0.5#  
 Blow Description IF: BOB @ 3min - 71.4"  
ISI: 1.7" blow  
FF: BOB @ 3min - 34" blow  
FST: 2.5" return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Oil</u>	<u>100</u>			
<u>120</u>	<u>50mcw</u>	<u>3</u>	<u>94</u>	<u>3</u>	
<u>780</u>	<u>mcw (oil spots)</u>		<u>95</u>	<u>5</u>	
	<u>90' GIP</u>				

Rec Total 915 BHT 121 Gravity 36 API RW 139 @ 84 °F Chlorides 48,000 ppm

(A) Initial Hydrostatic <u>1817</u>	<input checked="" type="checkbox"/> Test <u>1100</u>	T-On Location <u>1030</u>
(B) First Initial Flow <u>83</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1058</u>
(C) First Final Flow <u>308</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1130</u>
(D) Initial Shut-In <u>1106</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>1415</u>
(E) Second Initial Flow <u>345</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1639</u>
(F) Second Final Flow <u>429</u>	<input checked="" type="checkbox"/> Mileage <u>95rt 118.75</u>	Comments
(G) Final Shut-In <u>1107</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1792</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> EM Tool
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>15</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1543.75</u>
	Sub Total <u>1543.75</u>	MP/DST Disc't

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

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 67000

Well Name & No. Minium #1 Test No. 2 Date 6/23/2021  
 Company Compass Exploration Elevation 2562 KB 2575 GL  
 Address 7777 US Hwy 24 Hill City, KS  
 Co. Rep / Geo. Clayton Erickson Rig STP  
 Location: Sec. 18 Twp 7S Rge. 25W Co. Graham State KS

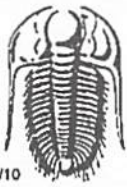
Interval Tested 3713 - 3730 Zone Tested LKC D  
 Anchor Length 17' Drill Pipe Run 3600 Mud Wt. 9.2  
 Top Packer Depth 3708 Drill Collars Run 120 Vis 58  
 Bottom Packer Depth 3713 Wt. Pipe Run 0 WL 8.0  
 Total Depth 3730 Chlorides 1400 ppm System LCM 0.5  
 Blow Description IF 0.3" blow  
ISI No return.  
FF No blow  
FSI No return.

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

Rec Total 5 BHT 112 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1843</u>	<input checked="" type="checkbox"/> Test <u>1100</u>	T-On Location <u># 2945</u>
(B) First Initial Flow <u>32</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2308</u>
(C) First Final Flow <u>28</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0046</u>
(D) Initial Shut-In <u>612</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0346</u>
(E) Second Initial Flow <u>31</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0536</u>
(F) Second Final Flow <u>34</u>	<input checked="" type="checkbox"/> Mileage <u>118.75</u>	Comments
(G) Final Shut-In <u>135</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1836</u>	<input type="checkbox"/> Straddle	
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> EM Tool
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Shale Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Packer
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Accessibility	Sub Total <u>0</u>
	Sub Total <u>1793.75</u>	Total <u>1793.75</u>
		MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **67476**

Well Name & No. Minium #1 Test No. 3 Date 6/23/2021  
 Company Compass Exploration Elevation 2582 KB 2575 GL  
 Address Hill City Ks  
 Co. Rep / Geo. Clayton Erickson Rig STP  
 Location: Sec. 18 Twp 7S Rge. 25W Co. Graham State Ks

Interval Tested 3725-3760 Zone Tested LKC E-F-G  
 Anchor Length 35' Drill Pipe Run 3600 Mud Wt. 9.0  
 Top Packer Depth 3720 Drill Collars Run 120 Vis 60  
 Bottom Packer Depth 3725 Wt. Pipe Run 0 WL 7.6  
 Total Depth 3760 Chlorides 1800 ppm System LCM 2#

Blow Description IF BOB @ 3 min - 74"  
ISI 1.5" return.  
FF BOB @ 3 min - 32"  
FSI 6.8" return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Oil</u>	<u>100</u>			
<u>960</u>	<u>50mcw</u>	<u>1</u>	<u>95</u>	<u>4</u>	
	<u>150' GIP</u>				

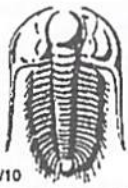
Rec Total 975 BHT 119 Gravity 39 API RW .135@ 87° F Chlorides 42,000 ppm

(A) Initial Hydrostatic <u>1871</u>	<input checked="" type="checkbox"/> Test <u>1100</u>	T-On Location <u>1245</u>
(B) First Initial Flow <u>107</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1316</u>
(C) First Final Flow <u>318</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1453</u>
(D) Initial Shut-In <u>1054</u>	<input checked="" type="checkbox"/> Circ Sub <u>used</u> <u>50</u>	T-Pulled <u>1734</u>
(E) Second Initial Flow <u>352</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2010</u>
(F) Second Final Flow <u>430</u>	<input checked="" type="checkbox"/> Mileage <u>118.75</u>	Comments <u>+125</u>
(G) Final Shut-In <u>1060</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1083</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> EM Tool

Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>15</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1843.75</u>
	Sub Total <u>1843.75</u>	MP/DST Disc't

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

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 67477

Well Name & No. Minum #1 Test No. 4 Date 6/24/2021  
 Company Compass Exploration Elevation 2582 KB 7575 GL  
 Address Hill City Ks  
 Co. Rep / Geo. Clayton Erickson Rig STP  
 Location: Sec. 18 Twp 7s Rge. 25w Co. Graham State KS

Interval Tested 3804 - 3837 Zone Tested LKC J  
 Anchor Length 33' Drill Pipe Run 3663 Mud Wt. 9.0  
 Top Packer Depth 3799 Drill Collars Run 120 Vis 60  
 Bottom Packer Depth 3804 Wt. Pipe Run Ø WL 7.6  
 Total Depth 3837 Chlorides 1800 ppm System LCM 2#

Blow Description IF BOB@ 1min - 106"  
ISI No return  
FF BOB@ 1.5 min - 95"  
FST No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>oil</u>	<u>100</u>			
<u>1510</u>	<u>some w</u>	<u>1</u>	<u>97</u>	<u>2</u>	

Rec Total 1530 BHT 122 Gravity 37 API RW .150 @ 74 °F Chlorides 45000 ppm

(A) Initial Hydrostatic <u>1897</u>	<input checked="" type="checkbox"/> Test <u>1100</u>	T-On Location <u>0700</u>
(B) First Initial Flow <u>258</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0706 0722</u>
(C) First Final Flow <u>445</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1131 0936</u>
(D) Initial Shut-In <u>1156</u>	<input checked="" type="checkbox"/> Circ Sub <u>used</u> <u>50</u>	T-Pulled <u>1131</u>
(E) Second Initial Flow <u>506</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1426</u>
(F) Second Final Flow <u>698</u>	<input checked="" type="checkbox"/> Mileage <u>118.75</u>	Comments <u>H2S</u>
(G) Final Shut-In <u>1156</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1816</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> EM Tool
Initial Open <u>15</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>15</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1843.75</u>
	Sub Total <u>1843.75</u>	MP/DST Disc't

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

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **67478**

Well Name & No. Minium #1 Test No. 5 Date 6/25/2021  
 Company Compass Exploration Elevation 2582 KB 2575 GL  
 Address Hill City, Ks  
 Co. Rep / Geo. Clayton Erickson Rig STP  
 Location: Sec. 18 Twp 7S Rge. 25W Co. Graham State Ks

Interval Tested 3834 - 3860 Zone Tested LKC-K  
 Anchor Length 26' Drill Pipe Run 3764 Mud Wt. 9.2  
 Top Packer Depth 3829 Drill Collars Run 120 Vis 58  
 Bottom Packer Depth 3834 Wt. Pipe Run 0 WL 7.6  
 Total Depth 3860 Chlorides 4000 ppm System LCM 2#  
 Blow Description IF 1/2" blow  
ISI No return.  
FF No blow  
FST No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>Mud oil spots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 3 BHT 110 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1906</u>	<input checked="" type="checkbox"/> Test <u>1100</u>	T-On Location <u>2006</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2020</u>
(C) First Final Flow <u>18</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2236</u>
(D) Initial Shut-In <u>27</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0137</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0318</u>
(F) Second Final Flow <u>20</u>	<input checked="" type="checkbox"/> Mileage <u>118.75</u>	Comments
(G) Final Shut-In <u>24</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1819</u>	<input type="checkbox"/> Straddle	
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> EM Tool
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Shale Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Packer
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Accessibility	Sub Total <u>0</u>
	Sub Total <u>1793.75</u>	Total <u>1793.75</u>

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