

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: **Canyon Operating LLC**

PO Box 7117
Loveland, CO 80537-7117

ATTN: Clayton Erickson

Schamberger #25-1

25-8s-25w Graham,KS

Start Date: 2021.07.13 @ 15:48:00

End Date: 2021.07.13 @ 23:57:02

Job Ticket #: 51058 DST #: 1

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

Printed: 2021.07.15 @ 11:21:41



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Canyon Operating LLC
PO Box 7117
Loveland, CO 80537-7117
ATTN: Clayton Erickson

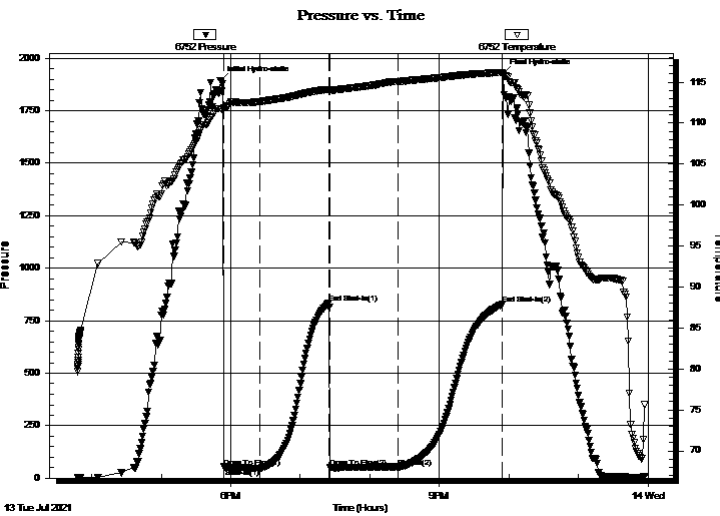
25-8s-25w Graham,KS
Schamberger #25-1
Job Ticket: 51058 **DST#: 1**
Test Start: 2021.07.13 @ 15:48:00

GENERAL INFORMATION:

Formation: **LKC D - F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:53:47
Time Test Ended: 23:57:02
Interval: **3730.00 ft (KB) To 3775.00 ft (KB) (TVD)**
Total Depth: 3775.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Webster
Unit No: 72
Reference Elevations: 2368.00 ft (KB)
2361.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6752 Inside
Press@RunDepth: 53.93 psig @ 3771.00 ft (KB) Capacity: psig
Start Date: 2021.07.13 End Date: 2021.07.13 Last Calib.: 2021.07.13
Start Time: 15:48:01 End Time: 23:57:02 Time On Btm: 2021.07.13 @ 17:51:02
Time Off Btm: 2021.07.13 @ 21:55:02

TEST COMMENT: IF- WSB built to 1/2"
IS- No blow back
FF- WSB built to 2.5"
FS- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1894.46	111.73	Initial Hydro-static
3	53.82	111.75	Open To Flow (1)
34	46.33	112.62	Shut-In(1)
94	834.77	114.09	End Shut-In(1)
95	49.22	114.02	Open To Flow (2)
153	53.93	115.08	Shut-In(2)
244	828.35	116.16	End Shut-In(2)
244	1928.35	115.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 5% Oil 95% Mud	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Canyon Operating LLC
 PO Box 7117
 Loveland, CO 80537-7117
 ATTN: Clayton Erickson

25-8s-25w Graham,KS
Schamberger #25-1
 Job Ticket: 51058 **DST#: 1**
 Test Start: 2021.07.13 @ 15:48:00

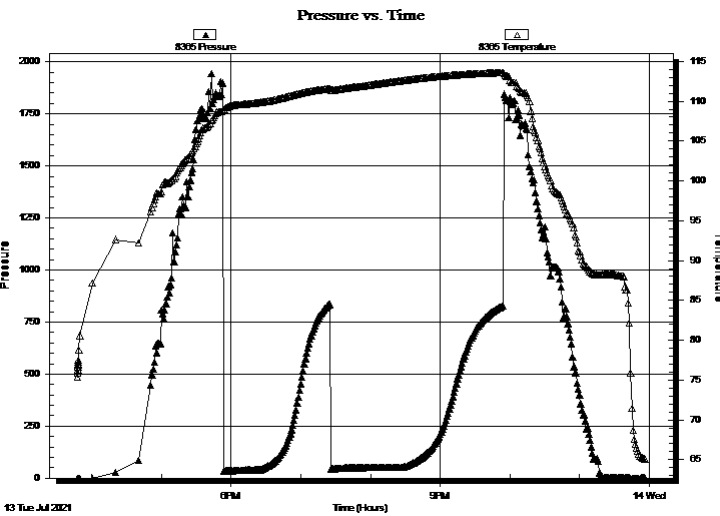
GENERAL INFORMATION:

Formation: **LKC D - F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:53:47
 Time Test Ended: 23:57:02
 Interval: **3730.00 ft (KB) To 3775.00 ft (KB) (TVD)**
 Total Depth: 3775.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Kevin Webster
 Unit No: 72
 Reference Elevations: 2368.00 ft (KB)
 2361.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8365 Outside

Press@RunDepth: psig @ 3772.00 ft (KB) Capacity: psig
 Start Date: 2021.07.13 End Date: 2021.07.13 Last Calib.: 1899.12.30
 Start Time: 15:48:01 End Time: 23:56:02 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF- WSB built to 1/2"
 IS- No blow back
 FF- WSB built to 2.5"
 FS- No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 5% Oil 95% Mud	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Canyon Operating LLC
PO Box 7117
Loveland, CO 80537-7117
ATTN: Clayton Erickson

25-8s-25w Graham,KS
Schamberger #25-1
Job Ticket: 51058 **DST#: 1**
Test Start: 2021.07.13 @ 15:48:00

Tool Information

Drill Pipe:	Length: 3601.00 ft	Diameter: 3.80 inches	Volume: 50.51 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: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 51.10 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3730.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	76.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3704.00	
Hydraulic tool	5.00			3709.00	
Recorder	3.00			3712.00	
Jars	5.00			3717.00	
Safety Joint	3.00			3720.00	
Top Packer	5.00			3725.00	
Packer	5.00			3730.00	31.00 Bottom Of Top Packer
Perforations	1.00			3731.00	
Change Over Sub	1.00			3732.00	
Drill Pipe	31.00			3763.00	
Change Over Sub	1.00			3764.00	
Perforations	6.00			3770.00	
Recorder	1.00	6752	Inside	3771.00	
Recorder	1.00	8365	Outside	3772.00	
Bullnose	3.00			3775.00	45.00 Anchor Tool

Total Tool Length: 76.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Canyon Operating LLC
PO Box 7117
Loveland, CO 80537-7117
ATTN: Clayton Erickson

25-8s-25w Graham,KS
Schamberger #25-1
Job Ticket: 51058 **DST#: 1**
Test Start: 2021.07.13 @ 15:48:00

Mud and Cushion Information

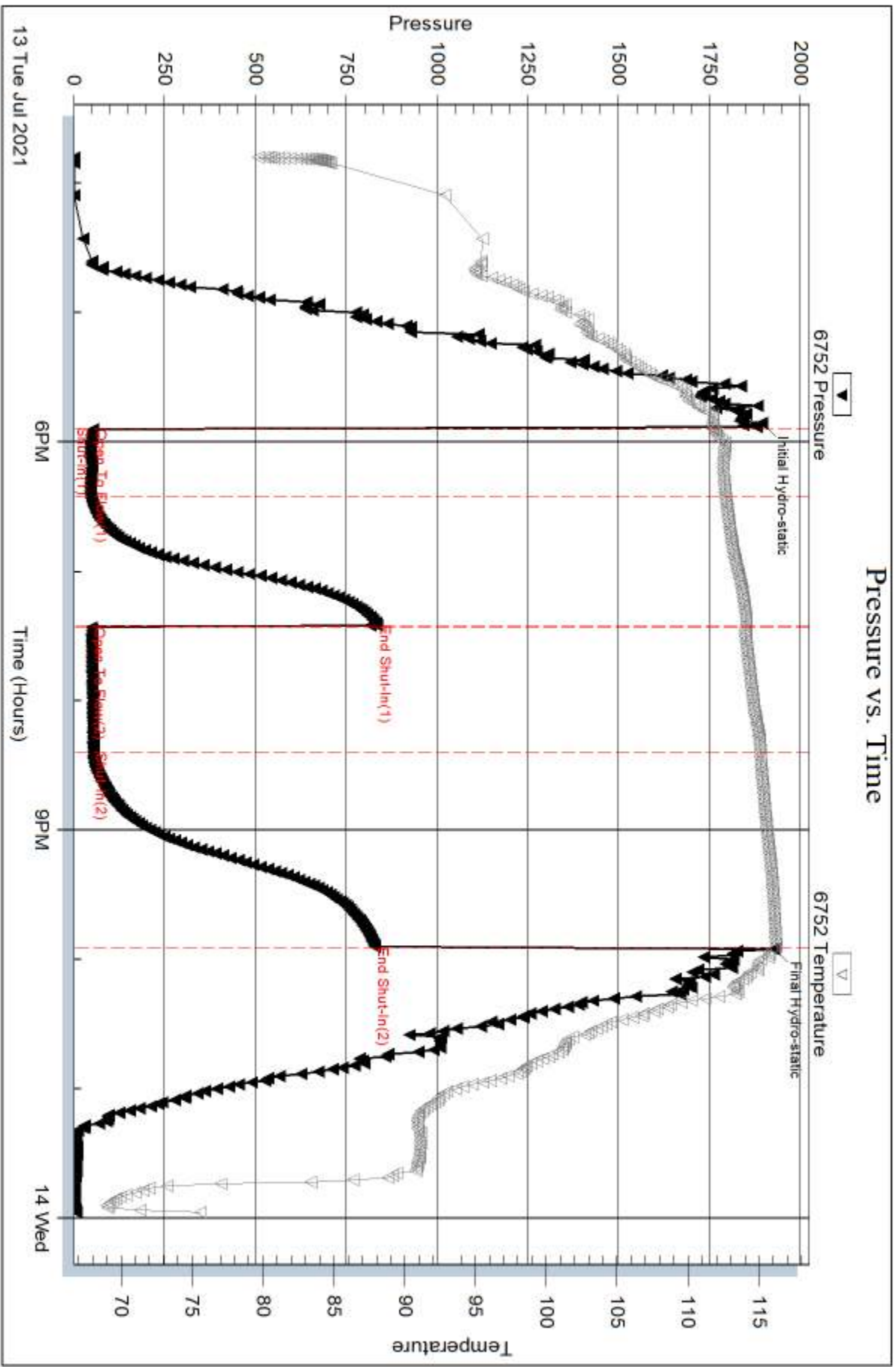
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: inches			

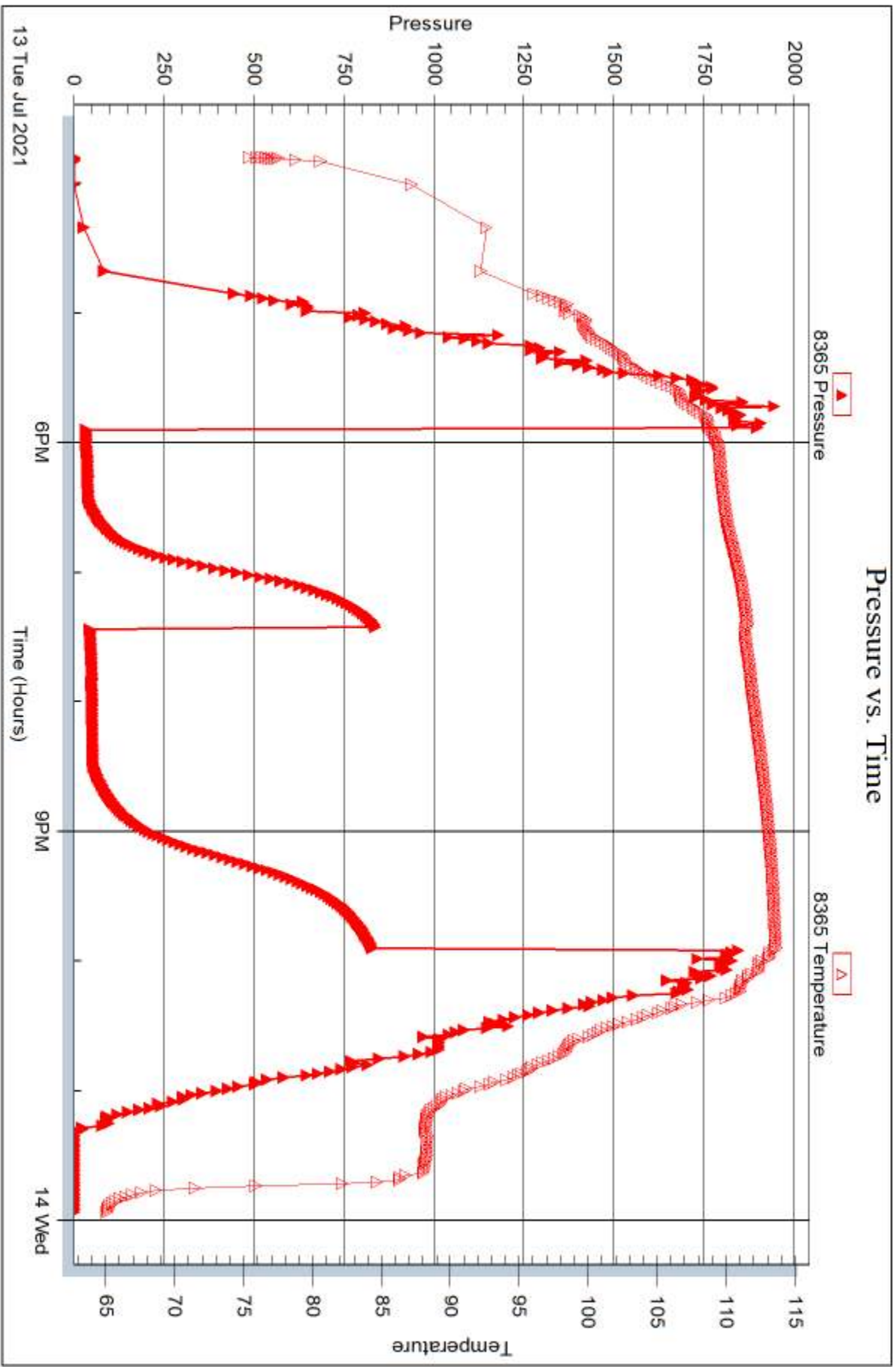
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OCM 5%Oil 95% Mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: LCM=TR







DRILL STEM TEST REPORT

Prepared For: **Canyon Operating LLC**

PO Box 7117
Loveland, CO 80537-7117

ATTN: Clayton Erickson

Schamberger #25-1

25-8s-25w Graham,KS

Start Date: 2021.07.13 @ 11:42:00

End Date: 2021.07.13 @ 19:00:02

Job Ticket #: 51059 DST #: 2

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

Printed: 2021.07.15 @ 11:20:42



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Canyon Operating LLC
 PO Box 7117
 Loveland, CO 80537-7117
 ATTN: Clayton Erickson

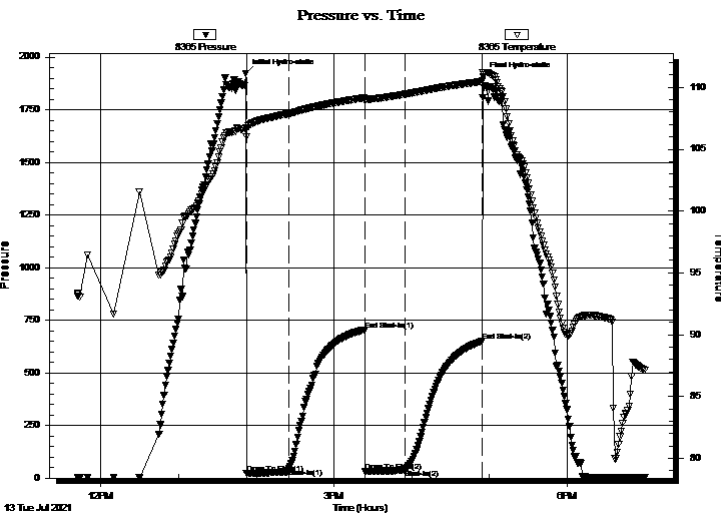
25-8s-25w Graham,KS
Schamberger #25-1
 Job Ticket: 51059 **DST#: 2**
 Test Start: 2021.07.13 @ 11:42:00

GENERAL INFORMATION:

Formation: **LKC HIJ**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:52:17
 Time Test Ended: 19:00:02
 Interval: **3800.00 ft (KB) To 3878.00 ft (KB) (TVD)**
 Total Depth: 3775.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Kevin Webster
 Unit No: 72
 Reference Elevations: 2368.00 ft (KB)
 2361.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8365 Outside
 Press@RunDepth: 42.31 psig @ 3875.00 ft (KB) Capacity: psig
 Start Date: 2021.07.13 End Date: 2021.07.13 Last Calib.: 2021.07.13
 Start Time: 11:42:01 End Time: 19:00:02 Time On Btm: 2021.07.13 @ 13:51:47
 Time Off Btm: 2021.07.13 @ 16:55:02

TEST COMMENT: IF-WSB built to 1/4" died in 10 min
 IS- No blow back
 FF-No blow
 FS- no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1922.61	106.77	Initial Hydro-static
1	23.21	106.01	Open To Flow (1)
34	44.22	107.88	Shut-In(1)
92	704.60	109.12	End Shut-In(1)
92	32.62	108.89	Open To Flow (2)
124	42.31	109.45	Shut-In(2)
183	652.04	110.52	End Shut-In(2)
184	1905.40	110.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Canyon Operating LLC
PO Box 7117
Loveland, CO 80537-7117
ATTN: Clayton Erickson

25-8s-25w Graham,KS
Schamberger #25-1
Job Ticket: 51059 **DST#: 2**
Test Start: 2021.07.13 @ 11:42:00

Tool Information

Drill Pipe:	Length: 3663.00 ft	Diameter: 3.80 inches	Volume: 51.38 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: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 51.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3800.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	108.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3775.00	
Hydraulic tool	5.00			3780.00	
Recorder	3.00			3783.00	
Jars	5.00			3788.00	
Safety Joint	3.00			3791.00	
Top Packer	5.00			3796.00	
Packer	4.00			3800.00	30.00 Bottom Of Top Packer
Perforations	1.00			3801.00	
Change Over Sub	1.00			3802.00	
Drill Pipe	62.00			3864.00	
Change Over Sub	1.00			3865.00	
Perforations	8.00			3873.00	
Recorder	1.00	6752	Inside	3874.00	
Recorder	1.00	8365	Outside	3875.00	
Bullnose	3.00			3878.00	78.00 Anchor Tool

Total Tool Length: 108.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Canyon Operating LLC
PO Box 7117
Loveland, CO 80537-7117
ATTN: Clayton Erickson

25-8s-25w Graham,KS
Schamberger #25-1
Job Ticket: 51059 **DST#: 2**
Test Start: 2021.07.13 @ 11:42:00

Mud and Cushion Information

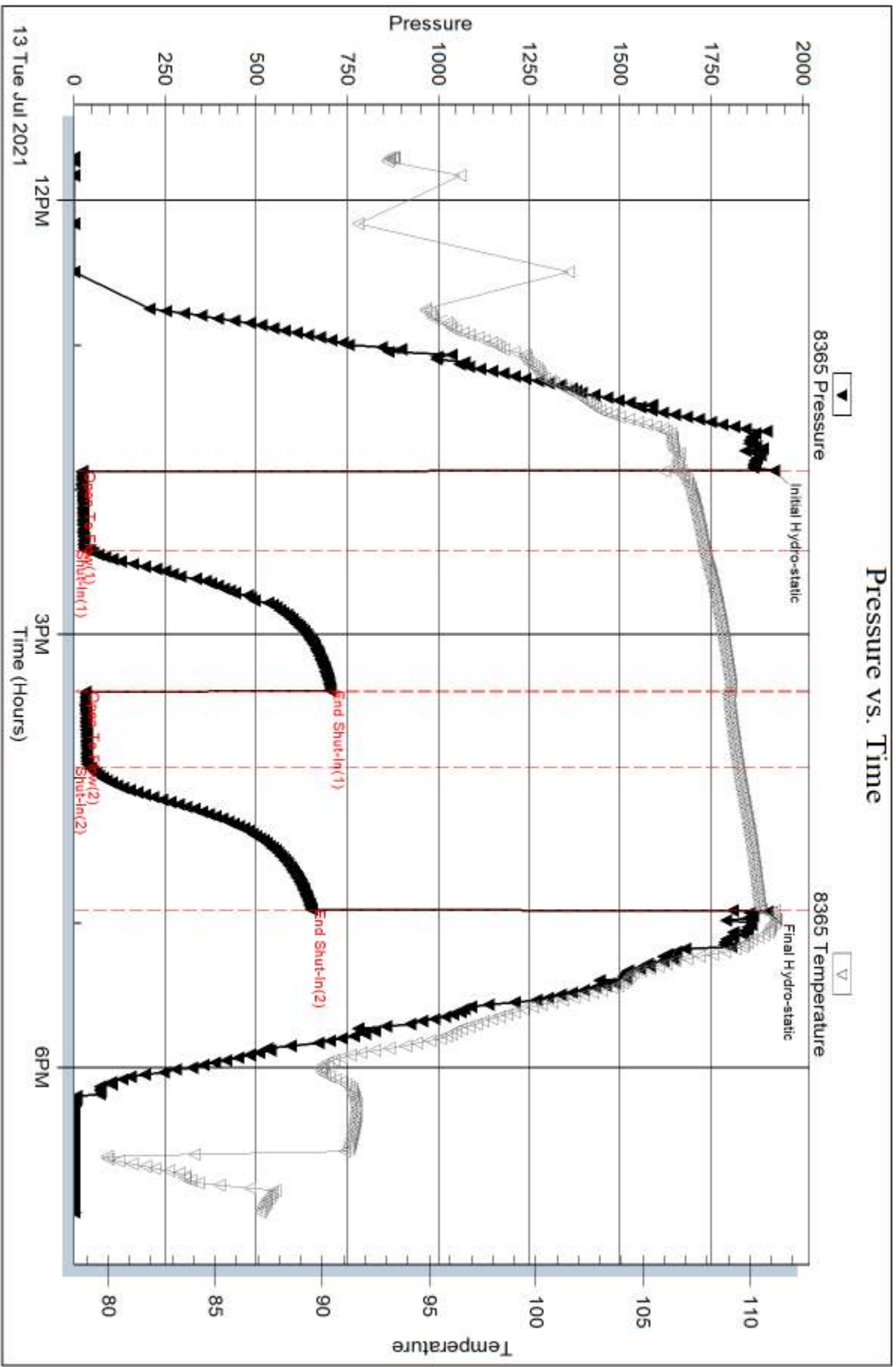
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%	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: LCM=TR



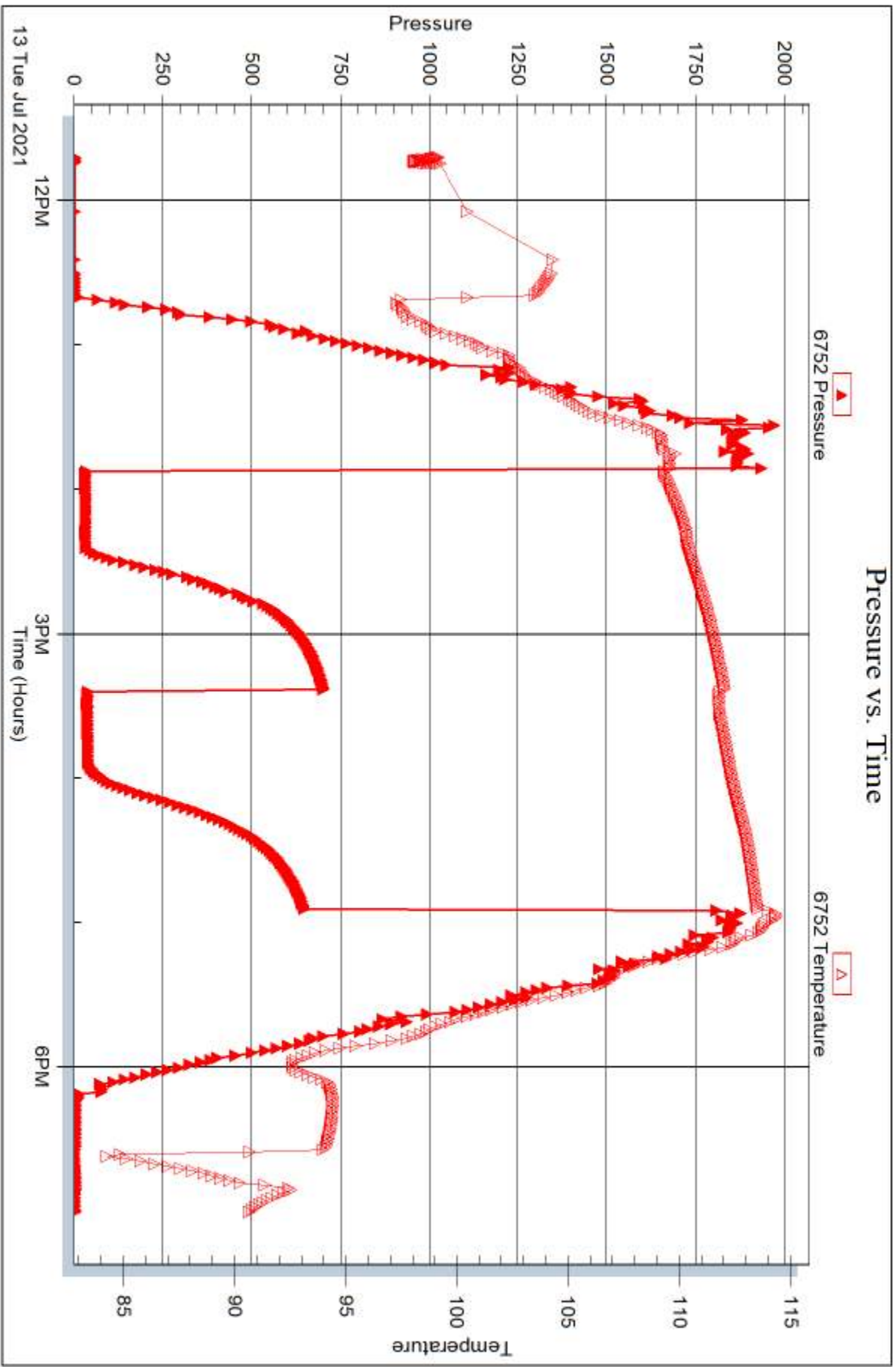
Serial #: 6752

Inside

Canyon Operating LLC

Schanberger #25-1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 51059

Printed: 2021.07.15 @ 11:20:43



DRILL STEM TEST REPORT

Prepared For: **Canyon Operating LLC**

PO Box 7117
Loveland, CO 80537-7117

ATTN: Clayton Erickson

Schamberger #25-1

25-8s-25w Graham,KS

Start Date: 2021.07.14 @ 03:43:00

End Date: 2021.07.14 @ 12:05:02

Job Ticket #: 51060 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.07.15 @ 11:18:43

Canyon Operating LLC

25-8s-25w Graham,KS

Schamberger #25-1

DST # 3

LKC K-L

2021.07.14



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Canyon Operating LLC
PO Box 7117
Loveland, CO 80537-7117
ATTN: Clayton Erickson

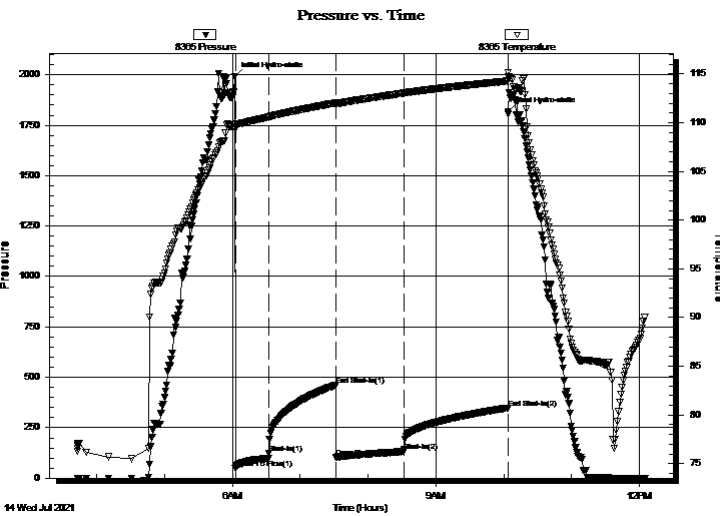
25-8s-25w Graham,KS
Schamberger #25-1
Job Ticket: 51060 **DST#: 3**
Test Start: 2021.07.14 @ 03:43:00

GENERAL INFORMATION:

Formation: **LKC K-L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:02:32
Time Test Ended: 12:05:02
Test Type: Conventional Bottom Hole (Reset)
Tester: Kevin Webster
Unit No: 72
Interval: **3874.00 ft (KB) To 3920.00 ft (KB) (TVD)**
Reference Elevations: 2368.00 ft (KB)
Total Depth: 3775.00 ft (KB) (TVD) 2361.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8365 Outside
Press@RunDepth: 132.54 psig @ 3917.00 ft (KB) Capacity: psig
Start Date: 2021.07.14 End Date: 2021.07.14 Last Calib.: 2021.07.14
Start Time: 03:43:01 End Time: 12:05:02 Time On Btm: 2021.07.14 @ 06:01:47
Time Off Btm: 2021.07.14 @ 10:04:02

TEST COMMENT: IF-Fair blow built to 7"
IS- No blow back
FF-WSB built to 5.5"
FS- no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1993.26	109.78	Initial Hydro-static
1	48.59	109.37	Open To Flow (1)
31	123.23	110.59	Shut-In(1)
90	461.56	111.98	End Shut-In(1)
90	102.91	111.96	Open To Flow (2)
150	132.54	113.02	Shut-In(2)
242	348.64	114.30	End Shut-In(2)
243	1816.87	114.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
73.00	MW 90% Water 10% Mud	0.36
119.00	MW 50% Water 50% Mud	1.25

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Canyon Operating LLC
 PO Box 7117
 Loveland, CO 80537-7117
 ATTN: Clayton Erickson

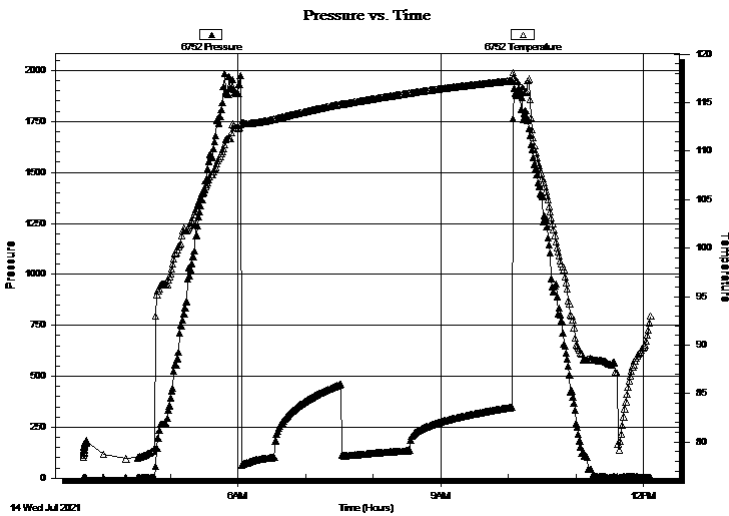
25-8s-25w Graham,KS
Schamberger #25-1
 Job Ticket: 51060 **DST#: 3**
 Test Start: 2021.07.14 @ 03:43:00

GENERAL INFORMATION:

Formation: **LKC K-L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:02:32
 Time Test Ended: 12:05:02
Interval: 3874.00 ft (KB) To 3920.00 ft (KB) (TVD)
 Total Depth: 3775.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Kevin Webster
 Unit No: 72
 Reference Elevations: 2368.00 ft (KB)
 2361.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6752 Inside
 Press@RunDepth: psig @ 3916.00 ft (KB) Capacity: psig
 Start Date: 2021.07.14 End Date: 2021.07.14 Last Calib.: 1899.12.30
 Start Time: 03:43:01 End Time: 12:06:02 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-Fair blow built to 7"
 IS- No blow back
 FF-WSB built to 5.5"
 FS- no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
73.00	MW 90% Water 10% Mud	0.36
119.00	MW 50% Water 50% Mud	1.25

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Canyon Operating LLC
PO Box 7117
Loveland, CO 80537-7117
ATTN: Clayton Erickson

25-8s-25w Graham,KS
Schamberger #25-1
Job Ticket: 51060 **DST#: 3**
Test Start: 2021.07.14 @ 03:43:00

Tool Information

Drill Pipe:	Length: 3755.00 ft	Diameter: 3.80 inches	Volume: 52.67 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:	25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	48000.00 lb
			<u>Total Volume: 53.26 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3874.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	46.00 ft				
Tool Length:	77.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3848.00	
Hydraulic tool	5.00			3853.00	
Recorder	3.00			3856.00	
Jars	5.00			3861.00	
Safety Joint	3.00			3864.00	
Top Packer	5.00			3869.00	
Packer	5.00			3874.00	31.00 Bottom Of Top Packer
Perforations	1.00			3875.00	
Change Over Sub	1.00			3876.00	
Drill Pipe	31.00			3907.00	
Change Over Sub	1.00			3908.00	
Perforations	7.00			3915.00	
Recorder	1.00	6752	Inside	3916.00	
Recorder	1.00	8365	Outside	3917.00	
Bullnose	3.00			3920.00	46.00 Anchor Tool

Total Tool Length: 77.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Canyon Operating LLC
PO Box 7117
Loveland, CO 80537-7117
ATTN: Clayton Erickson

25-8s-25w Graham,KS
Schamberger #25-1
Job Ticket: 51060 **DST#: 3**
Test Start: 2021.07.14 @ 03:43:00

Mud and Cushion Information

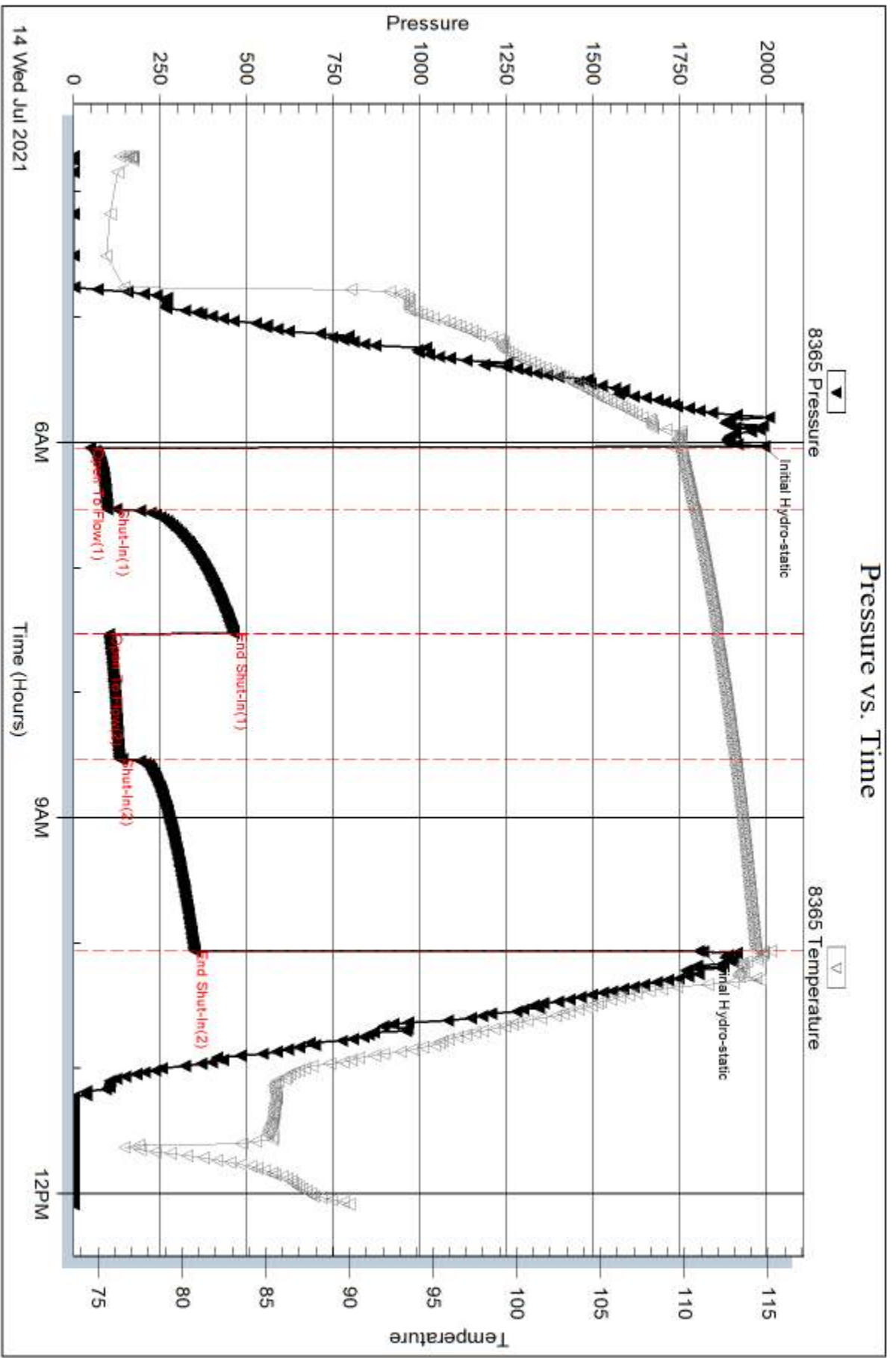
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: inches			

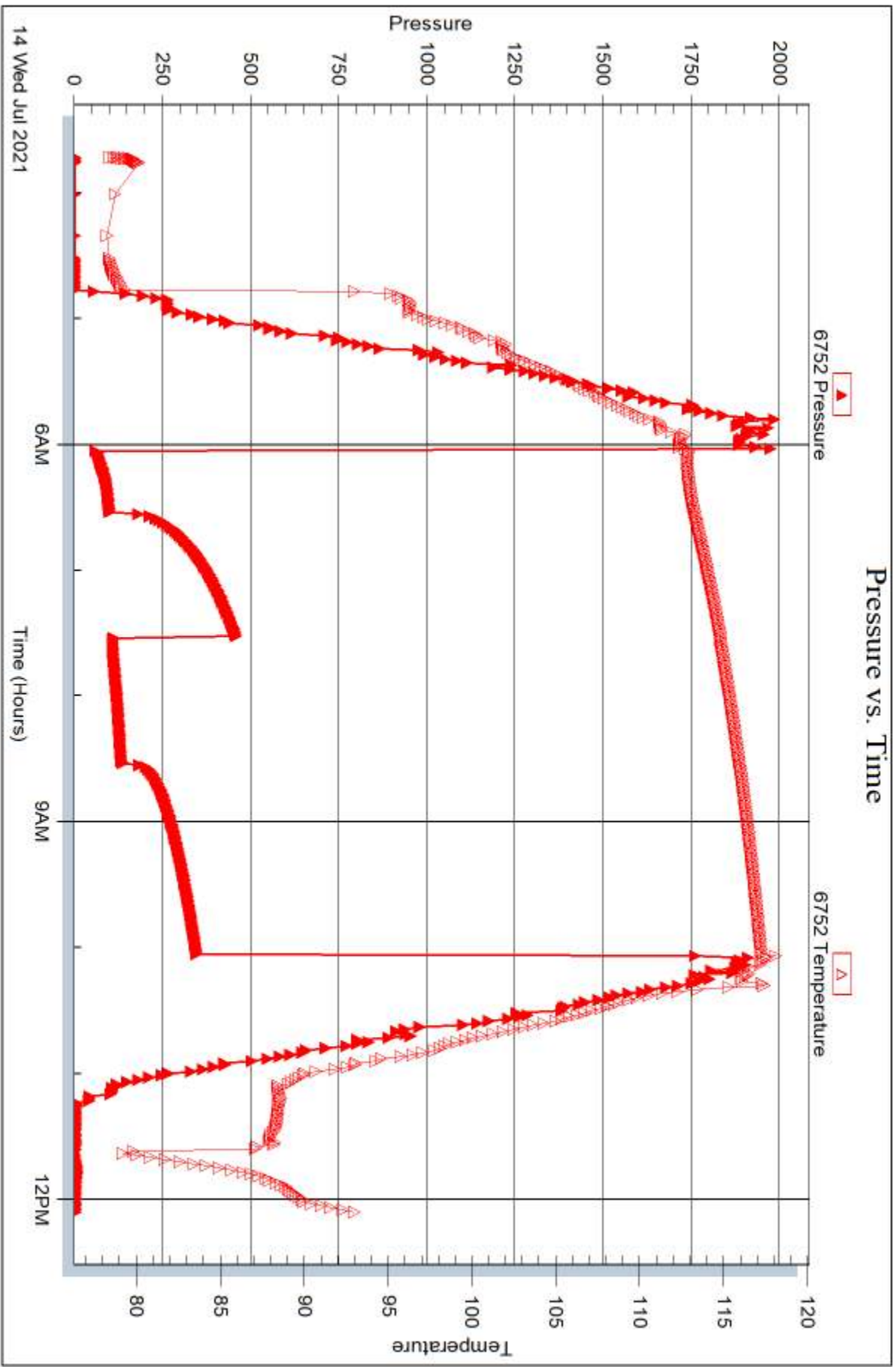
Recovery Information

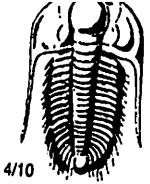
Recovery Table

Length ft	Description	Volume bbl
73.00	MW 90% Water 10% Mud	0.359
119.00	MW 50% Water 50% Mud	1.250

Total Length: 192.00 ft Total Volume: 1.609 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51058

Well Name & No. Schamberger # 25-1 Test No. 1 Date 7/12/21
 Company Schamberger # 25-1 operating Elevation 2368 KB 2361 GL
 Address Pobox 7117 Loveland, CO 80537-7117
 Co. Rep / Geo. Clayton Erickson Rig STP
 Location: Sec. 25 Twp. 8 S Rge. 25 W Co. Graham State KS

Interval Tested 3730 - 3775 Zone Tested LKC D-F
 Anchor Length 45' Drill Pipe Run 3601 Mud Wt. 9.1
 Top Packer Depth 3725 Drill Collars Run 119 Vis 53
 Bottom Packer Depth 3730 Wt. Pipe Run 0 WL 8.0
 Total Depth 3775 Chlorides 4000 ppm System LCM TI

Blow Description IF - WSB built to 1/2"
ISI - No blow back
FF - WSB built to 2.5"
FSI - No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>0cm</u>		<u>5</u>		<u>95</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total _____ BHT 116 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 1894 Test 1200
 (B) First Initial Flow 54 Jars 250
 (C) First Final Flow 46 Safety Joint 75
 (D) Initial Shut-In 834 Circ Sub _____
 (E) Second Initial Flow 49 Hourly Standby _____
 (F) Second Final Flow 53 Mileage 121rt 151.25
 (G) Final Shut-In 828 Sampler _____
 (H) Final Hydrostatic 1928 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ MP/DST Disc't _____
 Accessibility _____

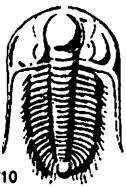
Sub Total 1926.25

T-On Location 1500
 T-Started 1948
 T-Open 17:54
 T-Pulled 21:54
 T-Out 23:45
 Comments EM TOOL
 _____ 350
 Sub Total 350
 Total 2276.25

Approved By _____

Our Representative Kevin Webster

Trilobite Testing Inc. shall not be liable for damaged or 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. 51059

Well Name & No. Schamberger #25-1 Test No. 2 Date 7/13/21
 Company CD Nyan Operating LLC. Elevation 2368 KB 2361 GL
 Address PO Box 7117 Loveland, CO 80537-7117
 Co. Rep / Geo. Clayton Erickson Rig STP
 Location: Sec. 25 Twp. 8S Rge. 25W Co. Graham State KS

Interval Tested 3800-3878 Zone Tested LKC HIJ
 Anchor Length 78' Drill Pipe Run 3663 Mud Wt. 9.3
 Top Packer Depth 3795 Drill Collars Run 119 Vis 52
 Bottom Packer Depth 3800 Wt. Pipe Run 0 WL 8.0
 Total Depth 3878 Chlorides 1200 ppm System LCM TI

Blow Description FF-WSB built to 14" died in 10min
ISI - No blow back
FF - No blow
FSI - No blow back

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

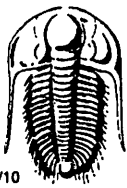
Rec Total _____ BHT 114 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1922 Test 1200 T-On Location 10:40
 (B) First Initial Flow 23 Jars 250 T-Started 11:42
 (C) First Final Flow 44 Safety Joint 75 T-Open 13:54
 (D) Initial Shut-In 704 Circ Sub _____ T-Pulled 16:54
 (E) Second Initial Flow 32 Hourly Standby _____ T-Out 19:00
 (F) Second Final Flow 42 Mileage 151.25 Comments _____
 (G) Final Shut-In 652 Sampler _____ 350 NS
 (H) Final Hydrostatic 1905 Straddle _____ Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____

Initial Open 20 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 0
 Final Flow 30 Day Standby _____ Total 1926.50
 Final Shut-In 60 Accessibility _____ MP/DST Disc't _____
 Sub Total 1926.25

Approved By _____ Our Representative Kevin Webster

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51060

4/10

Well Name & No. Schamberger #25-1 Test No. 3 Date 7/14/21
 Company CANYON OPERATING LLC Elevation 2368 KB 2361 GL
 Address PO BOX 7117 Loveland, CO 80537-7117
 Co. Rep / Geo. Clayton ERICKSON Rig STP
 Location: Sec. 25 Twp. 8S Rge. 25W Co. Graham State KS

Interval Tested 3874-3920 Zone Tested LKC K, L
 Anchor Length 46 Drill Pipe Run 3755 Mud Wt. 9.3
 Top Packer Depth 3869 Drill Collars Run 119 Vis 52
 Bottom Packer Depth 3874 Wt. Pipe Run 0 WL 8.0
 Total Depth 3920 Chlorides 1200 ppm System LCM TI

Blow Description IF - Fair blow built to 7"
ISF - NO blow back
FF - WSB built to 5.5"
FST - NO blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>119</u>	<u>muddy water</u>			<u>50</u>	<u>99</u>
<u>73</u>	<u>MW</u>			<u>90</u>	<u>10</u>

Rec Total _____ BHT _____ Gravity _____ API RW .134 @ 88 °F Chlorides 40,000 ppm

(A) Initial Hydrostatic 1993 Test 1200 T-On Location 0230
 (B) First Initial Flow 48 Jars 250 T-Started 03:43
 (C) First Final Flow 123 Safety Joint 75 T-Open 06:02
 (D) Initial Shut-In 461 Circ Sub _____ T-Pulled 10:02
 (E) Second Initial Flow 102 Hourly Standby _____ T-Out 12:01
 (F) Second Final Flow 132 Mileage 302.50 Comments _____
 (G) Final Shut-In 348 Sampler _____ loaded tools 7/15 2:15
 (H) Final Hydrostatic 1816 Straddle _____ EM 350
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____

Initial Open 30 Sub Total 350
 Initial Shut-In 60 Total 2427.50
 Final Flow 60 MP/DST Disc't _____
 Final Shut-In 90 Sub Total 2077.50

Approved By _____ Our Representative Kevin Webster

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FRANKS Oilfield Service, LLC

815 Main Street
Victoria, KS 67671

Office (785) 639-3949
24 Hour Service Line (785) 639-7269

Email: franksoilfield@yahoo.com

Invoice

Date	Invoice #
7/8/2021	0356

Please Pay from this Invoice.
Remit Payment to:
815 Main Street
Victoria, KS 67671
Billing Questions-Call Tianna at
(785) 639-3949

Bill To
Canyon Opertaing, LLC P.O. Box 7117 Loveland, CO 80537-7117

County/State	Lease/Well#	Terms	Job Type
Graham Co., KS	Schamberger #25-1	Net 30	Surface

Description	Quantity	Rate	Amount
Pump Charge	1	1,150.00	1,150.00
Mileage	18	6.50	117.00
Ton Mileage (min.)	1	600.00	600.00
Surface Blend	185		2,100.00
Discount		-1,149.15	-1,149.15

Thank-you!

Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.	Subtotal	\$2,817.85
<i>We appreciate your busines and look forward to serving you again!</i>	Sales Tax (7.5%)	\$111.88
	Balance Due	\$2,929.73

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 0356
 LOCATION Hoyle
 FOREMAN Preston

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY		
7-8-21		Schenberger	25	8	254	Anneham		
CUSTOMER		Mailing Address		TRUCK #		DRIVER		
Canyon Operating LLC				101		Tom		
				103		Preston		
CITY		STATE	ZIP CODE					

JOB TYPE Surface HOLE SIZE _____ HOLE DEPTH _____ CASING SIZE & WEIGHT 8 5/8" 23"
 CASING DEPTH 222' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 15.2" SLURRY VOL 1.39 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT 12.75 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting. Rig up on STP. Break CMC mix 185 sacks common 302
displace w/ 12.75 Bbls of H2O. Circ cement to pit.

Thank you!

[Signature] + Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PC002	1	PUMP CHARGE	\$ 1150.00	\$ 1150.00
M001	18	MILEAGE	\$ 6.50	\$ 117.00
M003	8.24	Ton Mileage Delivery minimum	\$ 72.80	\$ 600.00
CB004	185 sacks	common 3 1/2 CC 70% Gel		
			sub total	\$ 2,817.85
			SALES TAX	
			ESTIMATED TOTAL	2,929.73

AUTHORIZATION Walter Brown TITLE Driller DATE 7-8-21

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.

FRANKS Oilfield Service, LLC

815 Main Street
Victoria, KS 67671

Office (785) 639-3949
24 Hour Service Line (785) 639-7269

Email: franksoilfield@yahoo.com

Invoice

Date	Invoice #
7/15/2021	0360

Please Pay from this Invoice.
Remit Payment to:
815 Main Street
Victoria, KS 67671
Billing Questions-Call Tianna at
(785) 639-3949

Bill To
Canyon Opertaing, LLC P.O. Box 7117 Loveland, CO 80537-7117

County/State	Lease/Well#	Terms	Job Type
Graham Co., KS	Schamberger #25	Net 30	PTA

Description	Quantity	Rate	Amount
Pump Charge	1	950.00	950.00
Mileage	18	6.50	117.00
Ton Mileage (min.)	1	600.00	600.00
60/40 4% gel 1/4# floseal	240	16.75	4,020.00
30% Discount		-1,706.10	-1,706.10

Thank you!

Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.

We appreciate your busines and look forward to serving you again!

Subtotal	\$3,980.90
Sales Tax (7.5%)	\$211.05
Balance Due	\$4,191.95

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 0360
 LOCATION Victoria KS
 FOREMAN Tam Williams

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
07-15-20	#35571	Schamberger #25-1	25	8s	29W	

CUSTOMER
Canyon Operating LLC
 MAILING ADDRESS
PO Box 7117
 CITY
Loveland STATE CO ZIP CODE 80537

TRUCK #	DRIVER	TRUCK #	DRIVER
101	Tom W		
102	Jack T		

JOB TYPE PTA HOLE SIZE _____ HOLE DEPTH _____ CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4.5" TUBING _____ OTHER _____
 SLURRY WEIGHT 13.7 SLURRY VOL 1.4 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting + rig up an STP Drilling rig + plug as ordered

1st plug 50 sk @ 2100'
2nd plug 100 sk @ 1225'
3rd 50 sk @ 300'
4th 10 sk @ 40'
RH 30 sk
240 sk 60/40 W 4% gel + 1/4" Flo-seal
Thanks Tom + Jack

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PC001	1	PUMP CHARGE	\$950 ⁰⁰	\$950 ⁰⁰
M001	18	MILEAGE	\$6 ⁵⁰	\$117 ⁰⁰
M002	10.68	Ten millage delivery	\$600 ⁰⁰	\$600 ⁰⁰
CB010	240	60/40 4% gel 1/4" Flo seal	\$16 ⁷⁵	\$4020 ⁰⁰
			sub total	\$5,687 ⁰⁰
			less 30% disc.	\$1706 ¹⁰
			sub total	\$3,980 ⁹⁰
			SALES TAX	211.05
			ESTIMATED TOTAL	4,191.95

AUTHORIZATION [Signature] TITLE _____ 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: Schamberger #25-1
 API: 15-065-24194
 Location: NW NW SE Sec 25 T8S R25W
 License Number:
 Spud Date: 7/8/2021
 Surface Coordinates: 2289' FSL & 2287' FEL
 Region: Graham County, KS
 Drilling Completed:

Bottom Hole Surface casing- 8 5/8 @ 222'
 Coordinates: Production casing-
 Ground Elevation (ft): 2361 K.B. Elevation (ft): 2368
 Logged Interval (ft): 3400 To: TD Total Depth (ft):
 Formation:
 Type of Drilling Fluid: Chemical Mud

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Canyon Operating LLC
 Address: 5228 Lonetree Dr
 Loveland, CO 80537

GEOLOGIST

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

DSTs

DST #1 3730-3775 30-60-60-90; Hydro: 1894-1928 IFF: 54-46 ISIP: 834 FFP: 49-54 FSIP: 828; Rec: 10' 5%o 95%um; BHT: 116F; IF: 1/2" ISI: dead FF: 2.5" FSt: dead

DST #2 3800-3878 30-60-30-60; Hydro: 1922-1905 IFF: 23-44 ISIP: 704 FFP: 32-42 FSIP: 652; Rec: 5' mud; BHT: 114F; IF: 1/4" ISI: dead FF: dead FSt: dead

COMMENTS

FORMATION TOPS

Log Tops
 Anhydrite
 Base Anhy
 TOPEKA
 HEEBNER
 LANSING
 BKC
 TD

Sample tops
 2089(+279)
 2121(+247)
 3437(-1069)
 3653(-1285)
 3693(-1325)
 3916(-1548)

ROCK TYPES
 Anhy, Bent, Brecc, Cht, Clst, Carb. shale, Arkose, Dol, Gyp, Igne, Lmst, Meta, Mrlst, Salt, Shale, Shcol, Shgy, Siltst, Ss, Till

OTHER SYMBOLS

OIL SHOW: Even, Spotted Ques, Dead, INTERVAL: Dst

