

Confidentiality Requested:

Yes No

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

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

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

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Cholla Production, LLC
Well Name	WRANGLER #1-24
Doc ID	1602404

All Electric Logs Run

DIL
DUCP
MICROLOG
SONIC



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Chola Productions
10390 Bradford RD STE 201
Littleton CO, 80127
ATTN: Charles Sturdavant

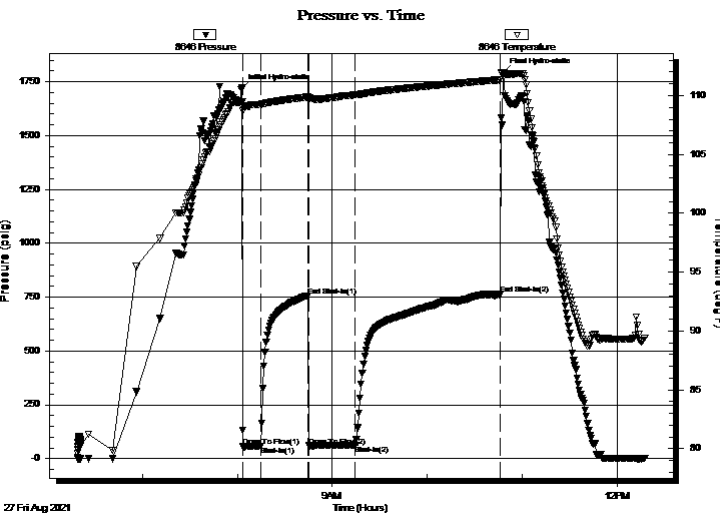
24-11S-21W Trego KS
Wrangler 1-24
Job Ticket: 67046 **DST#: 1**
Test Start: 2021.08.27 @ 06:18:59

GENERAL INFORMATION:

Formation: **LKC "C-F"**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 08:03:29 Tester: Justin Pofus
Time Test Ended: 12:17:59 Unit No: 71
Interval: 3540.00 ft (KB) To 3610.00 ft (KB) (TVD) Reference Elevations: 2241.00 ft (KB)
Total Depth: 3610.00 ft (KB) (TVD) 2233.00 ft (CF)
Hole Diameter: 7.85 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8646 Outside
Press@RunDepth: 62.64 psig @ 3541.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2021.08.27 End Date: 2021.08.27 Last Calib.: 2021.08.27
Start Time: 06:19:00 End Time: 12:17:59 Time On Btm: 2021.08.27 @ 08:02:59
Time Off Btm: 2021.08.27 @ 10:48:14

TEST COMMENT: 10 IF- blow built to 6 1/4"
30 IS- No blow back
30 FF- Blow built to 1/2"
90 FS- No blow bak



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1719.77	109.50	Initial Hydro-static
1	54.83	108.94	Open To Flow (1)
12	57.77	109.26	Shut-In(1)
42	755.14	109.87	End Shut-In(1)
42	59.43	109.61	Open To Flow (2)
72	62.64	110.08	Shut-In(2)
164	762.90	111.35	End Shut-In(2)
166	1793.10	111.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	MWOS 100% mud w / oil spots in tool	0.97

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chola Productions

24-11S-21W Trego KS

10390 Bradford RD STE 201
Littleton CO, 80127

Wrangler 1-24

Job Ticket: 67046

DST#: 1

ATTN: Charles Sturdavant

Test Start: 2021.08.27 @ 06:18:59

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	MWOS 100% mud w / oil spots in tool	0.971

Total Length: 90.00 ft Total Volume: 0.971 bbl

Num Fluid Samples: 0

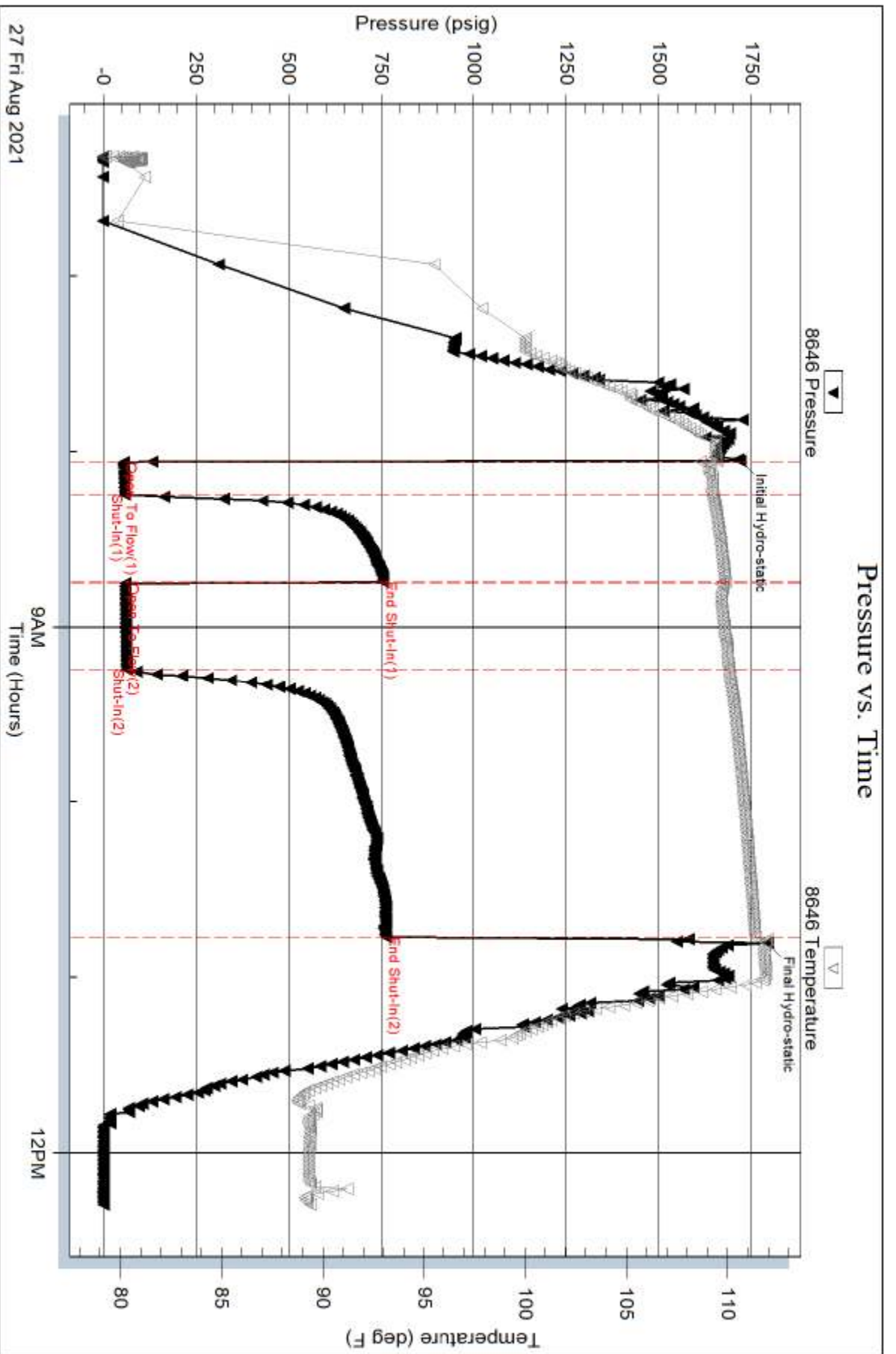
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



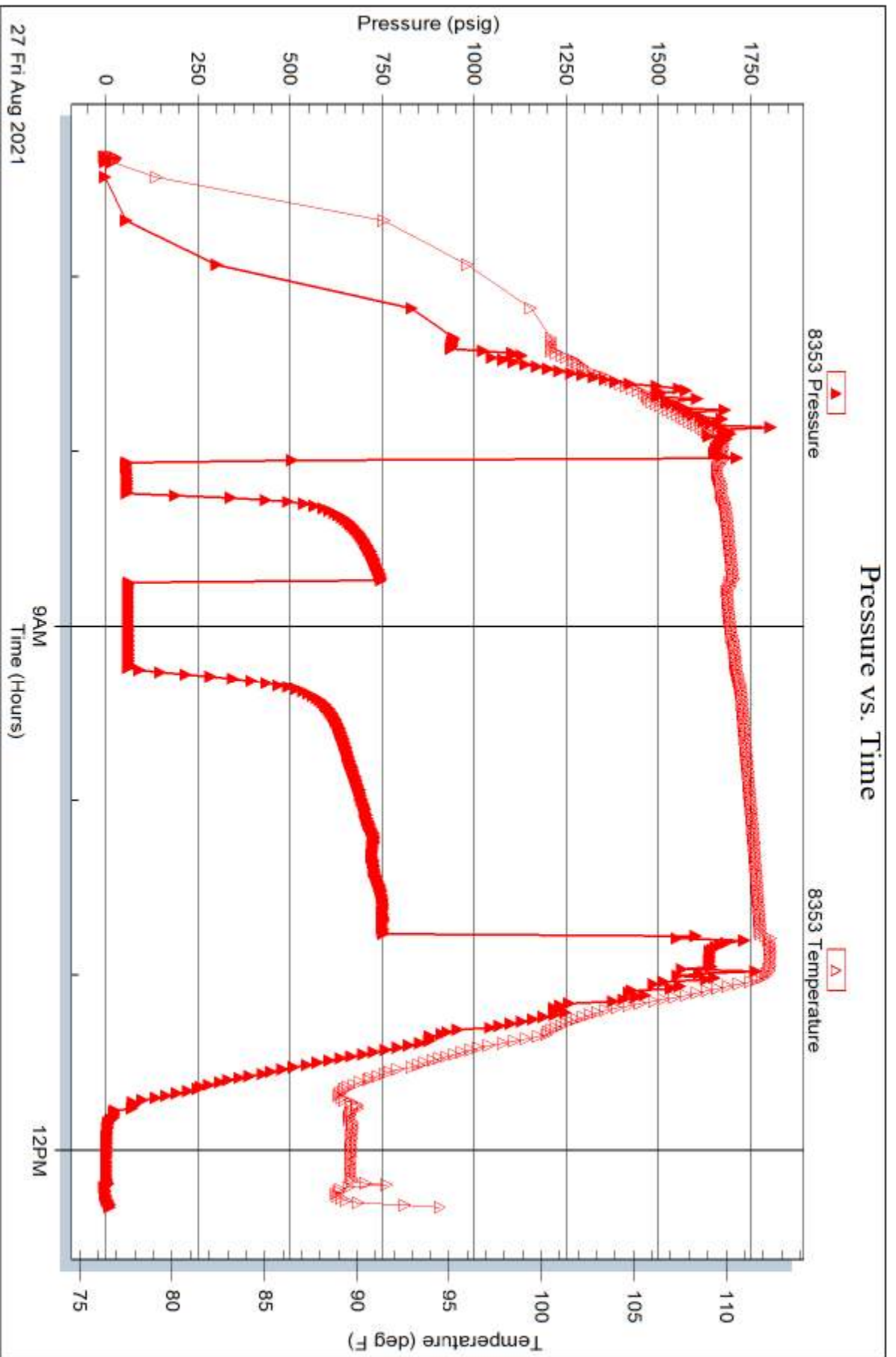
Serial #: 8353

Inside

Orla Productions

Wrangler 1-24

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Chola Production
10390 Bradford RD STE 201
Littleton CO, 80127
ATTN: charles sturdavant

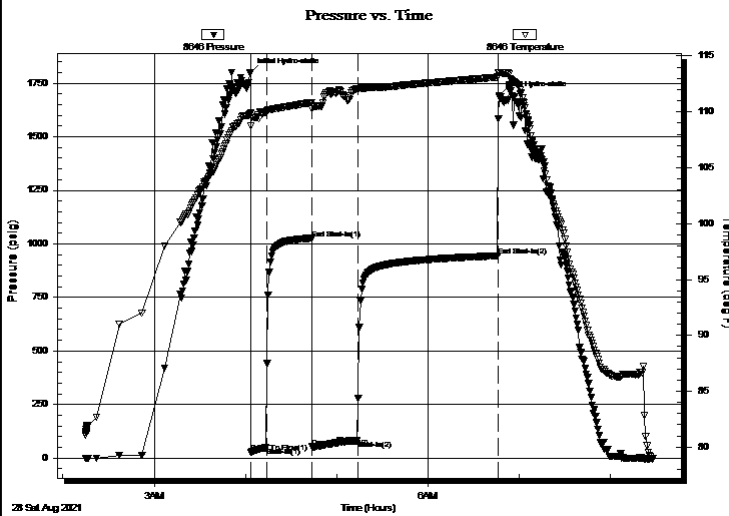
24-11S-21W Trego KS
Wrangler 1-24
Job Ticket: 67047 **DST#: 2**
Test Start: 2021.08.28 @ 02:15:00

GENERAL INFORMATION:

Formation: **Kansas City**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:03:45
Time Test Ended: 08:28:00
Interval: **3634.00 ft (KB) To 3725.00 ft (KB) (TVD)**
Total Depth: 3725.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Justin Polfus
Unit No: 71
Reference Elevations: 2241.00 ft (KB)
2233.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8646 Outside
Press@RunDepth: 80.90 psig @ 3635.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2021.08.28 End Date: 2021.08.28 Last Calib.: 1899.12.30
Start Time: 02:15:01 End Time: 08:28:00 Time On Btm: 2021.08.28 @ 04:03:30
Time Off Btm: 2021.08.28 @ 06:47:00

TEST COMMENT: 10 IF- blow built to 4"
30 IS- Weak surface blow
30 FF- Blow built to 6 1/2"
90 FS- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1799.75	109.89	Initial Hydro-static
1	26.91	108.73	Open To Flow (1)
11	48.02	110.00	Shut-In(1)
40	1024.73	110.84	End Shut-In(1)
41	52.17	110.24	Open To Flow (2)
71	80.90	112.08	Shut-In(2)
163	944.35	113.11	End Shut-In(2)
164	1692.97	113.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	VSOCM 99%M 1%O	1.48

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chola Production

24-11S-21W Trego KS

10390 Bradford RD STE 201
Littleton CO, 80127

Wrangler 1-24

Job Ticket: 67047

DST#: 2

ATTN: charles sturdavant

Test Start: 2021.08.28 @ 02:15:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	VSOCM 99%M 1%O	1.476

Total Length: 126.00 ft Total Volume: 1.476 bbl

Num Fluid Samples: 0

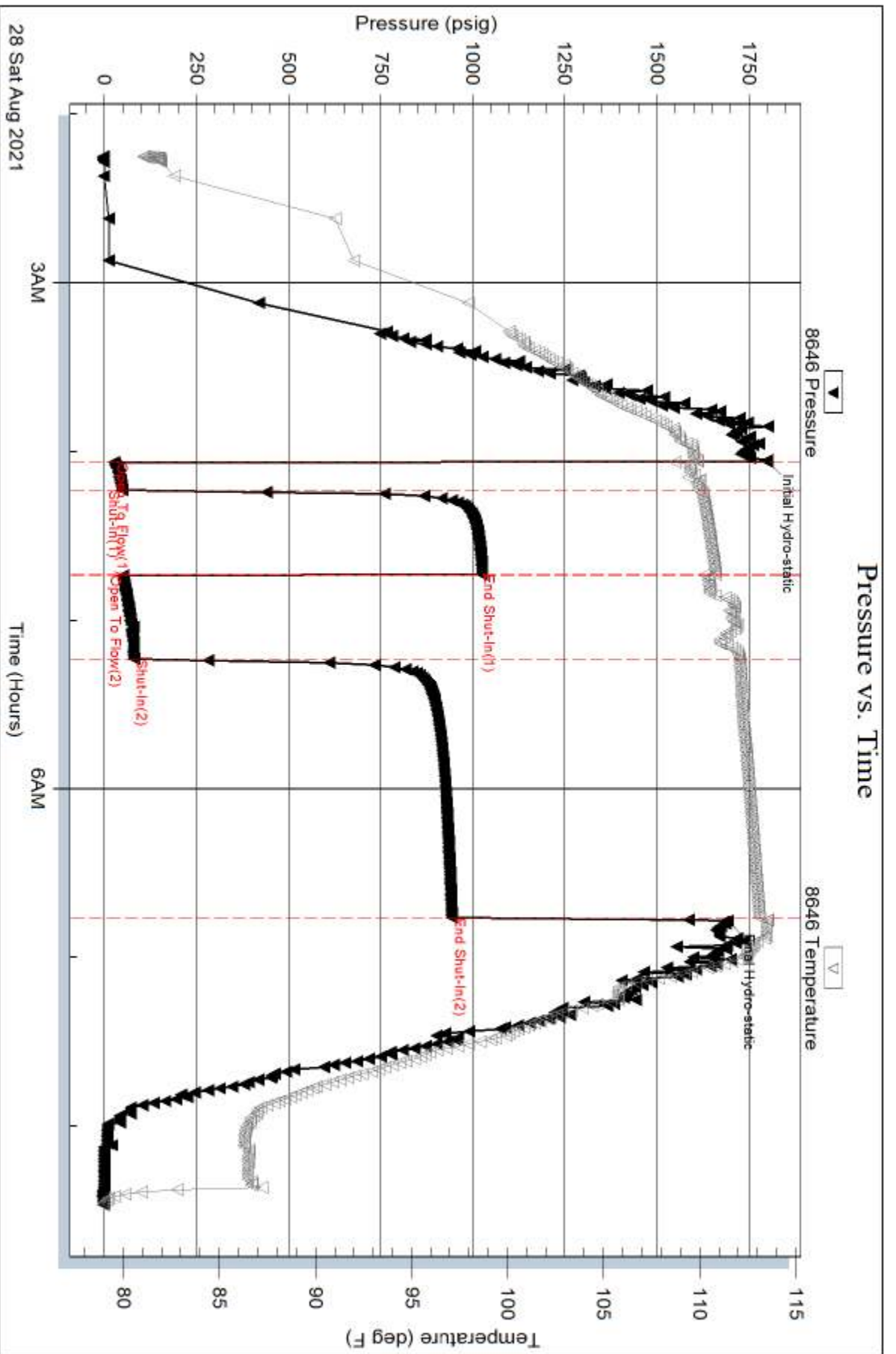
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



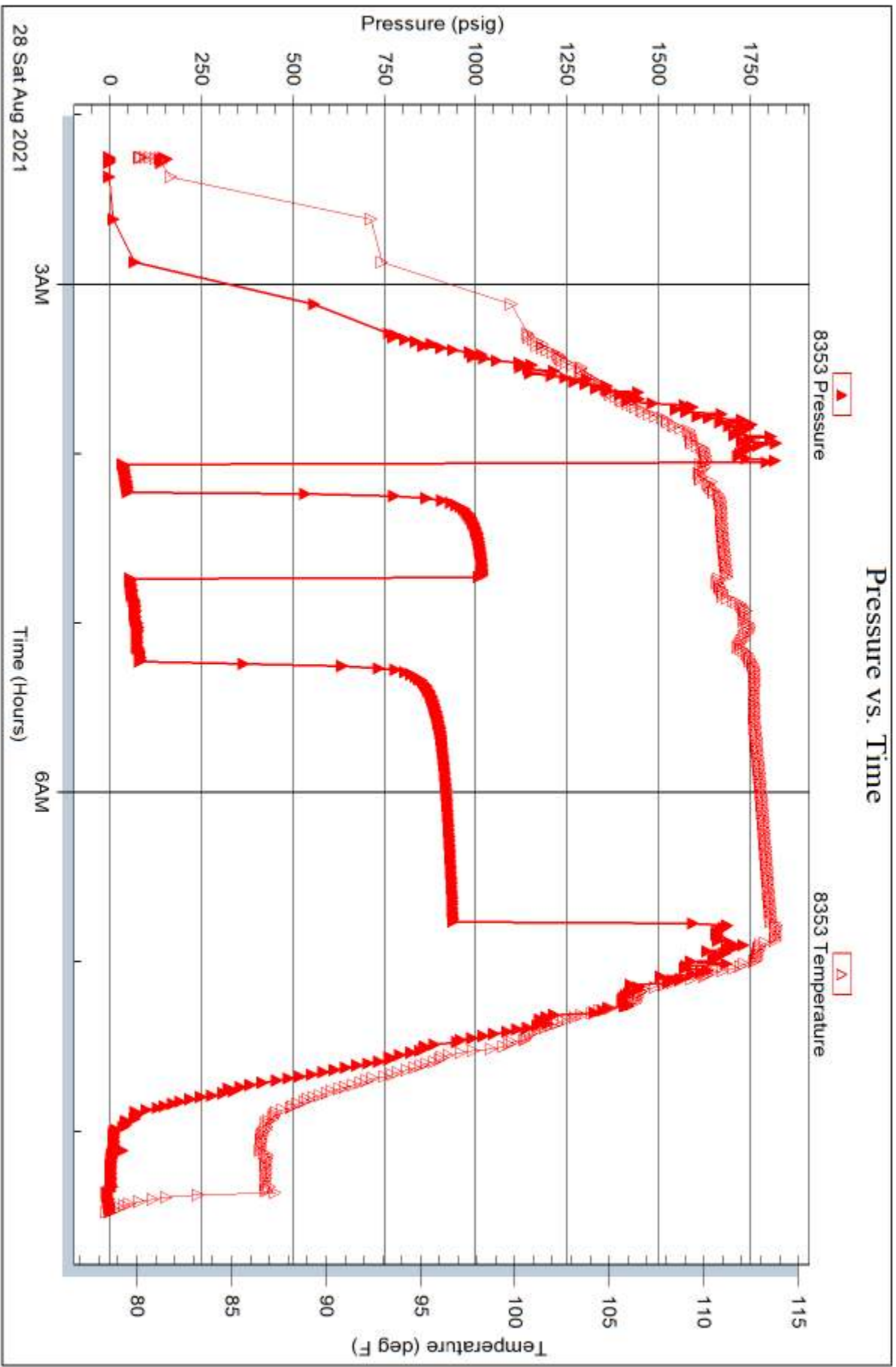
Serial #: 8353

Inside

Orola Production

Wrangler 1-24

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 67047

Printed: 2021.08.28 @ 10:29:49



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cholla Production
10390 Bradford RD STE 201
Littleton CO, 80127
ATTN: Charles Sturdavant

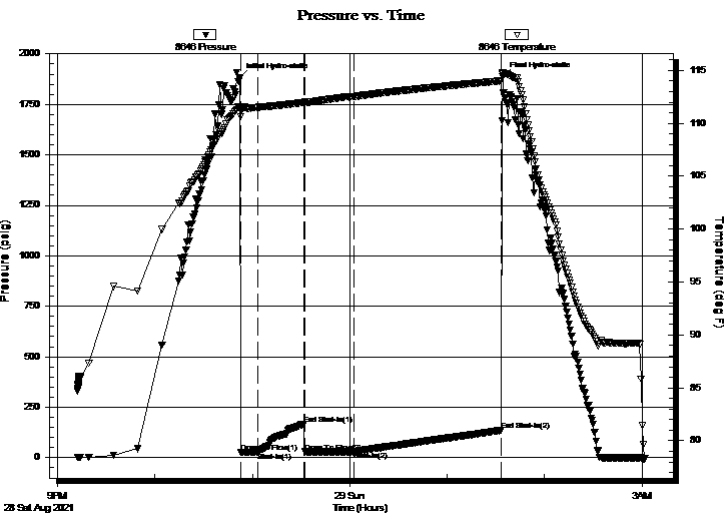
24-11S-21W Trego KS
Wrangler 1-24
Job Ticket: 67048 **DST#: 3**
Test Start: 2021.08.28 @ 21:12:13

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:52:43
Time Test Ended: 03:02:13
Interval: **3742.00 ft (KB) To 3820.00 ft (KB) (TVD)**
Total Depth: 3820.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Justin Polfus
Unit No: 71
Reference Elevations: 2241.00 ft (KB)
2233.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8646 Outside
Press@RunDepth: 29.67 psig @ 3743.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2021.08.28 End Date: 2021.08.29 Last Calib.: 2021.08.29
Start Time: 21:12:14 End Time: 03:02:13 Time On Btm: 2021.08.28 @ 22:52:13
Time Off Btm: 2021.08.29 @ 01:34:13

TEST COMMENT: 10 IF- Blow built to 3/4"
30 IS- No blow back
30 FF- No blow
90 FS- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1880.72	111.36	Initial Hydro-static
1	25.57	110.61	Open To Flow (1)
11	27.16	111.52	Shut-In(1)
40	165.29	111.97	End Shut-In(1)
40	29.35	111.97	Open To Flow (2)
71	29.67	112.53	Shut-In(2)
161	135.39	114.02	End Shut-In(2)
162	1886.28	114.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Production

24-11S-21W Trego KS

10390 Bradford RD STE 201
Littleton CO, 80127

Wrangler 1-24

Job Ticket: 67048

DST#: 3

ATTN: Charles Sturdavant

Test Start: 2021.08.28 @ 21:12:13

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

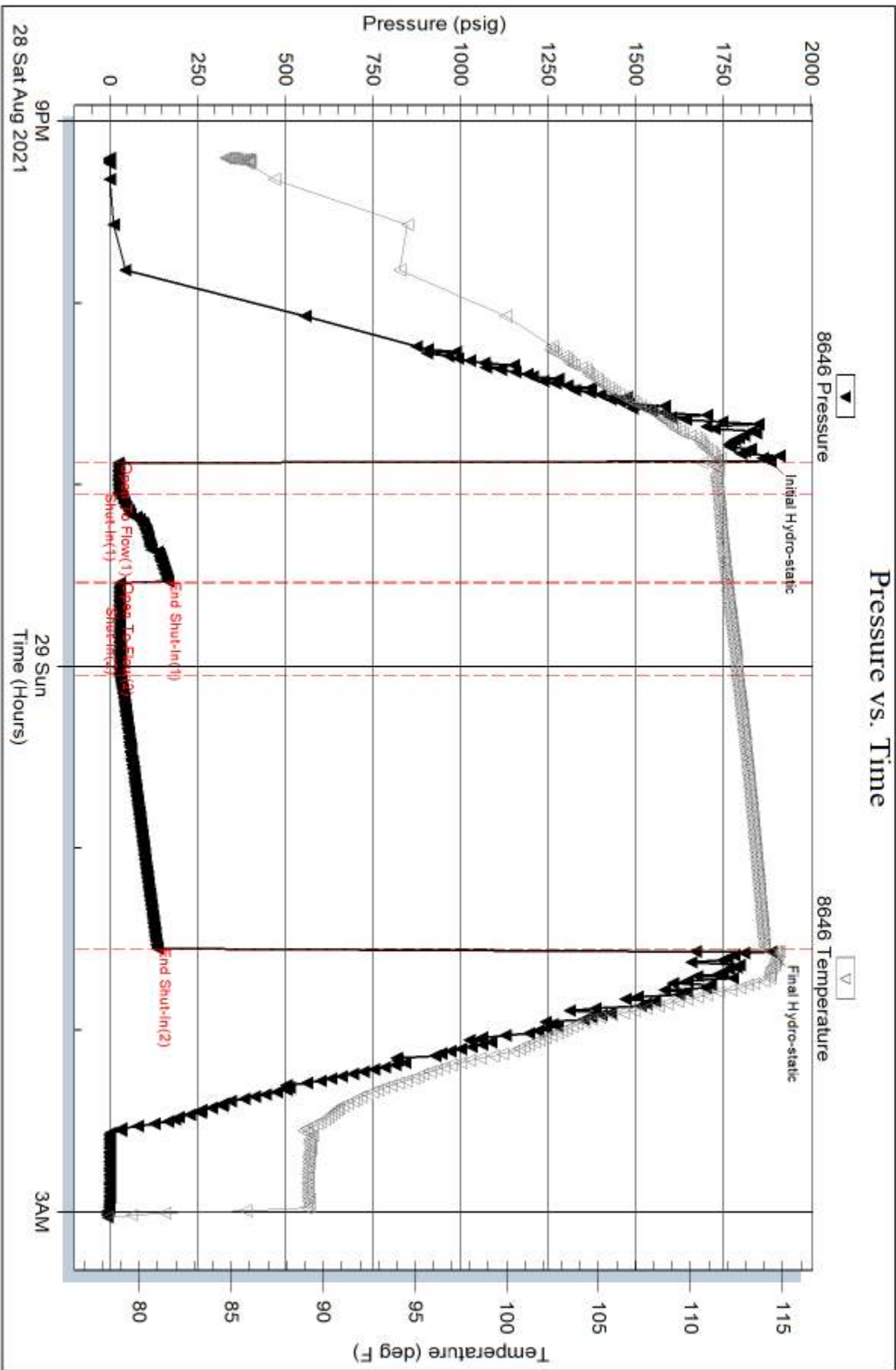
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 500ml 100%M in sample chamber



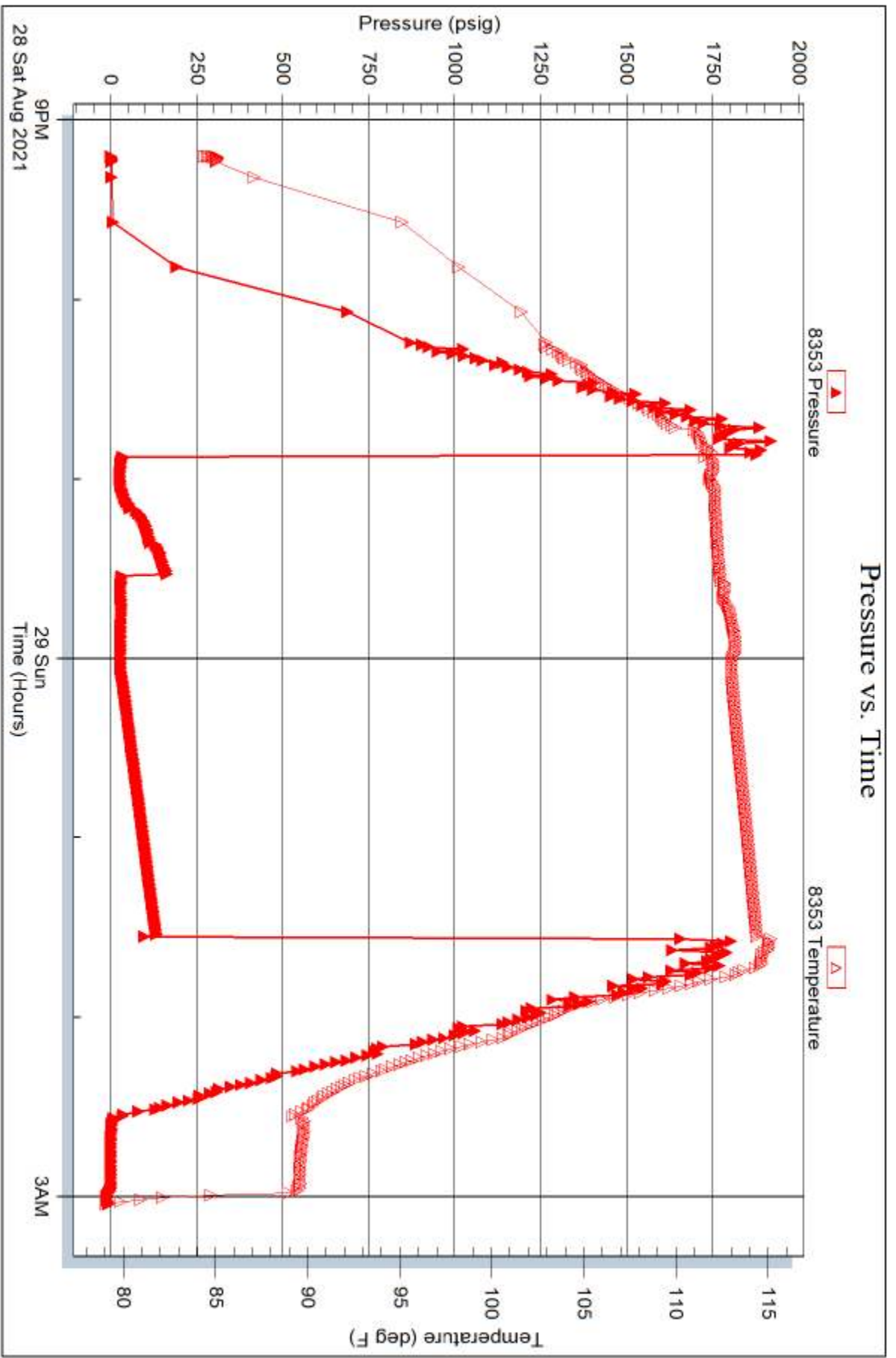
Serial #: 8353

Inside

Cholla Production

Wrangler 1-24

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 67048

Printed: 2021.08.29 @ 09:39:49



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Chola Productions
10390 Bradford RD STE 201
Littleton CO, 80127
ATTN: charles sturdavant

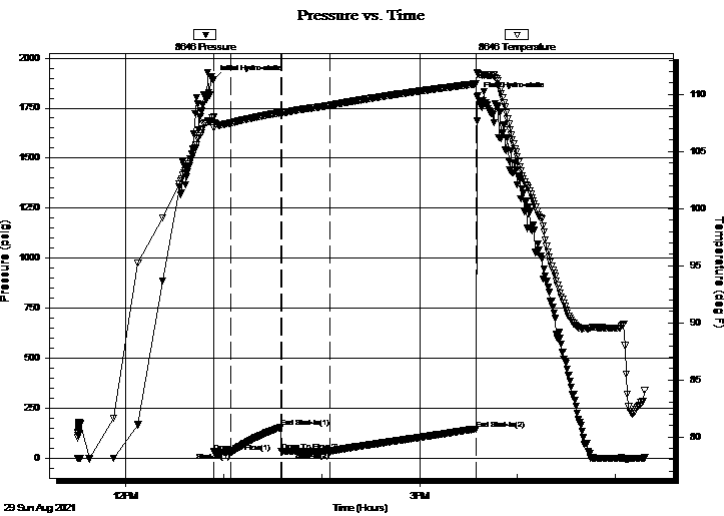
24-11S-21W Trego KS
wrangler 1-24
Job Ticket: 67049 **DST#: 4**
Test Start: 2021.08.29 @ 11:30:36

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:54:06
Time Test Ended: 17:18:21
Interval: **3742.00 ft (KB) To 3830.00 ft (KB) (TVD)**
Total Depth: 3830.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Justin Polfus
Unit No: 71
Reference Elevations: 2241.00 ft (KB)
2233.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8646 Outside
Press@RunDepth: 33.42 psig @ 3743.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2021.08.29 End Date: 2021.08.29 Last Calib.: 1899.12.30
Start Time: 11:30:37 End Time: 17:18:21 Time On Btm: 2021.08.29 @ 12:53:51
Time Off Btm: 2021.08.29 @ 15:35:21

TEST COMMENT: 10 lf- Blow built to 1"
30 IS- No blow back
30 FF- No blow
90 FS- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1892.50	107.99	Initial Hydro-static
1	30.66	107.05	Open To Flow (1)
11	30.73	107.50	Shut-In(1)
42	153.90	108.41	End Shut-In(1)
42	33.60	108.40	Open To Flow (2)
71	33.42	109.03	Shut-In(2)
161	145.71	110.91	End Shut-In(2)
162	1808.98	111.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100% M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chola Productions
10390 Bradford RD STE 201
Littleton CO, 80127
ATTN: charles sturdavant

24-11S-21W Trego KS
wrangler 1-24
Job Ticket: 67049 **DST#: 4**
Test Start: 2021.08.29 @ 11:30:36

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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5600.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

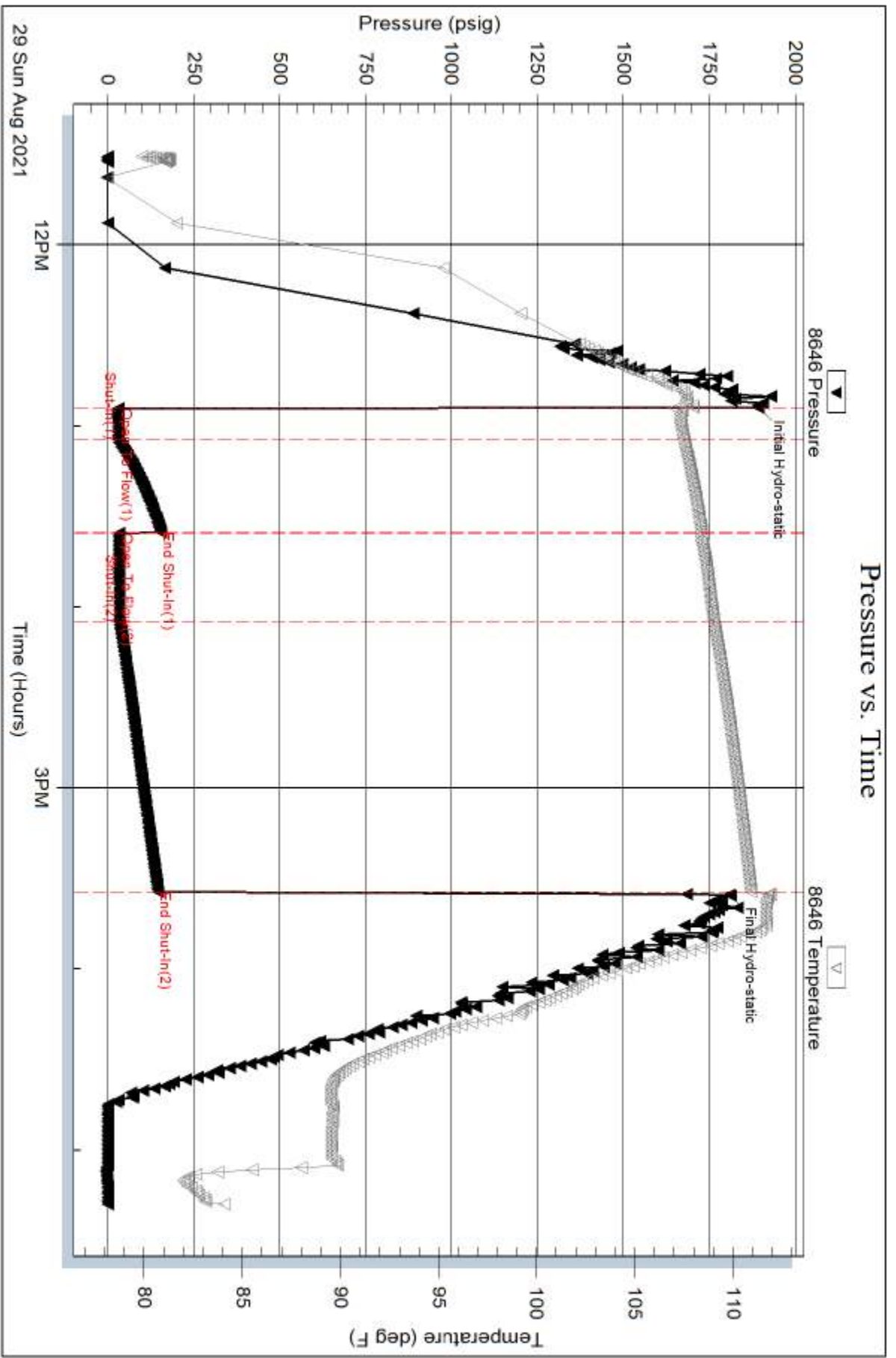
Length ft	Description	Volume bbl
5.00	Mud 100% M	0.025

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: 500ml Mud 100%M in sample chamber



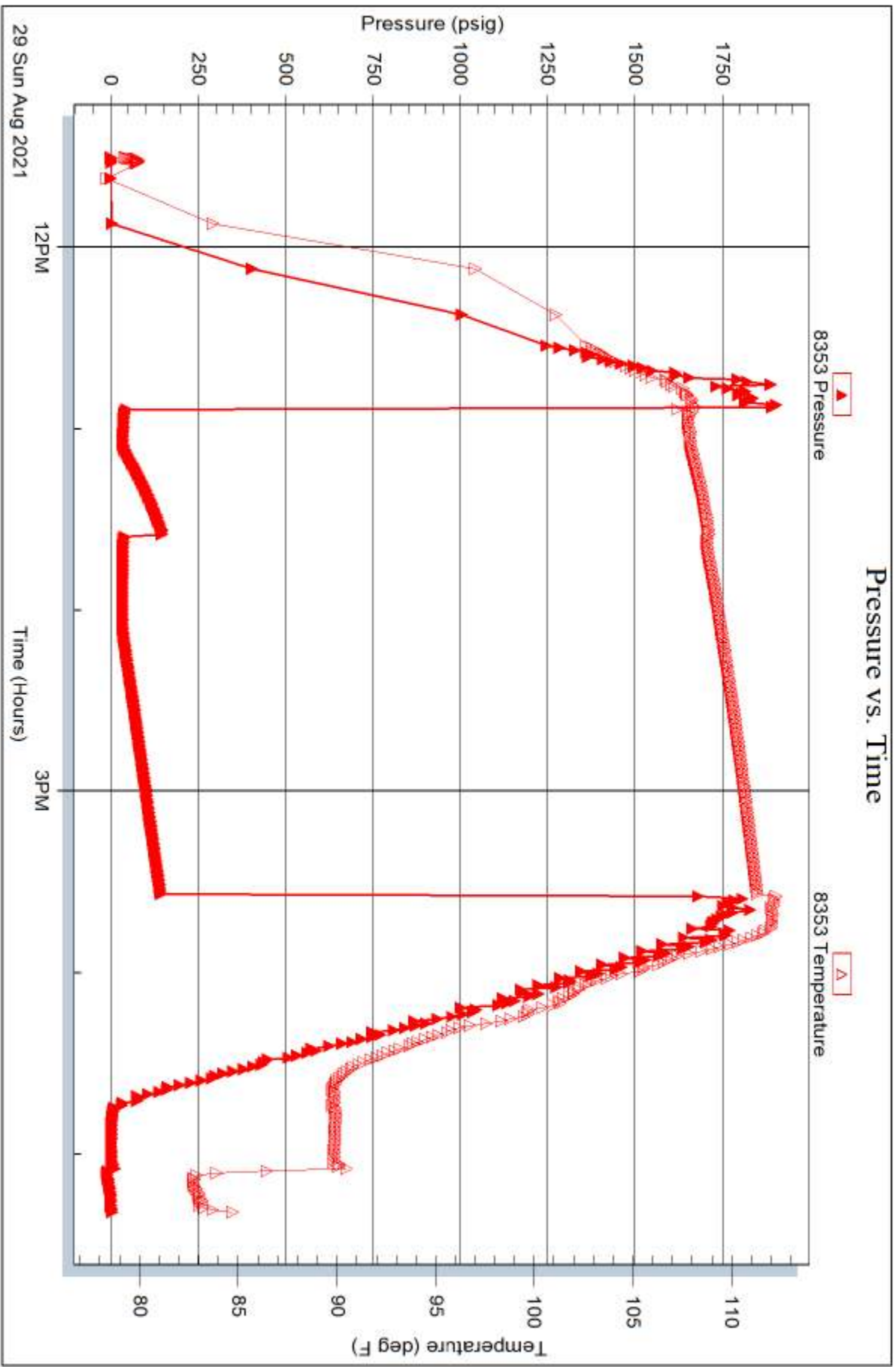
Serial #: 8353

Inside

Orla Productions

wrangler 1-24

DST Test Number: 4



29 Sun Aug 2021

12PM

Time (Hours)

3PM

Temperature (deg F)

Pressure (psig)

8353 Pressure

8353 Temperature



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cholla Productions
10390 Bradford RD STE 201
Littleton CO 80127
ATTN: Charles Sturdavant

24-11S-21W Trego, KS

Wrangler #1-24

Job Ticket: 67801

DST#: 5

Test Start: 2021.08.30 @ 14:11:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:40:17
 Time Test Ended: 21:23:02
 Interval: **3813.00 ft (KB) To 3875.00 ft (KB) (TVD)**
 Total Depth: 3875.00 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: 2241.00 ft (KB)
 2233.00 ft (CF)
 KB to GR/CF: 8.00 ft

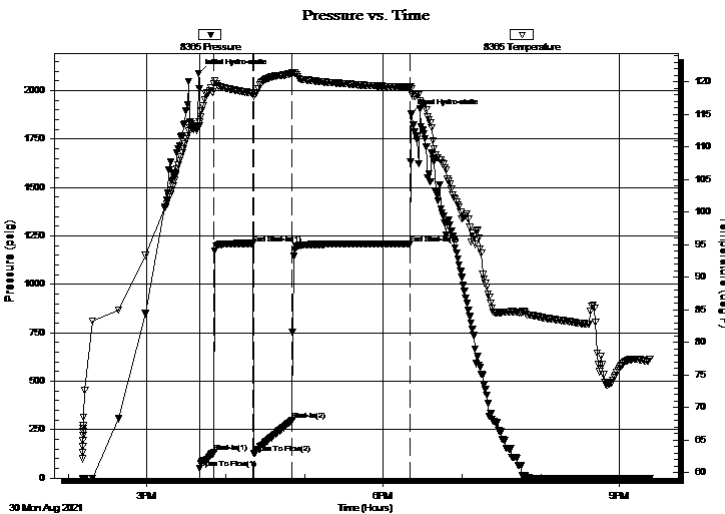
Serial #: 8365

Inside

Press@RunDepth: 298.35 psig @ 3848.00 ft (KB) Capacity: psig
 Start Date: 2021.08.30 End Date: 2021.08.30 Last Calib.: 2021.08.30
 Start Time: 14:11:01 End Time: 21:23:02 Time On Btm: 2021.08.30 @ 15:39:32
 Time Off Btm: 2021.08.30 @ 18:21:17

TEST COMMENT: IF- Bob in 8 min 10 min
 IS- WSB 30 min
 FF- Bob 10 min 30 min
 FSI-WSB 90 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2089.63	113.19	Initial Hydro-static
1	50.41	113.25	Open To Flow (1)
12	133.03	119.75	Shut-In(1)
42	1211.34	118.21	End Shut-In(1)
42	127.44	117.83	Open To Flow (2)
71	298.35	121.31	Shut-In(2)
161	1210.44	119.17	End Shut-In(2)
162	1882.00	119.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
372.00	WCM 85% Water 15% Mud	4.93
248.00	MCW 90% Mud 10% Water	3.48

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Productions

24-11S-21W Trego,KS

10390 Bradford RD STE 201
Littleton CO 80127

Wrangler #1-24

Job Ticket: 67801

DST#: 5

ATTN: Charles Sturdavant

Test Start: 2021.08.30 @ 14:11:00

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:

22000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
372.00	WCM 85% Water 15% Mud	4.927
248.00	MCW 90% Mud 10% Water	3.479

Total Length: 620.00 ft Total Volume: 8.406 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1# LCM

Sampler- 1800 MI Water 200 MI Mud

Serial #: 8365

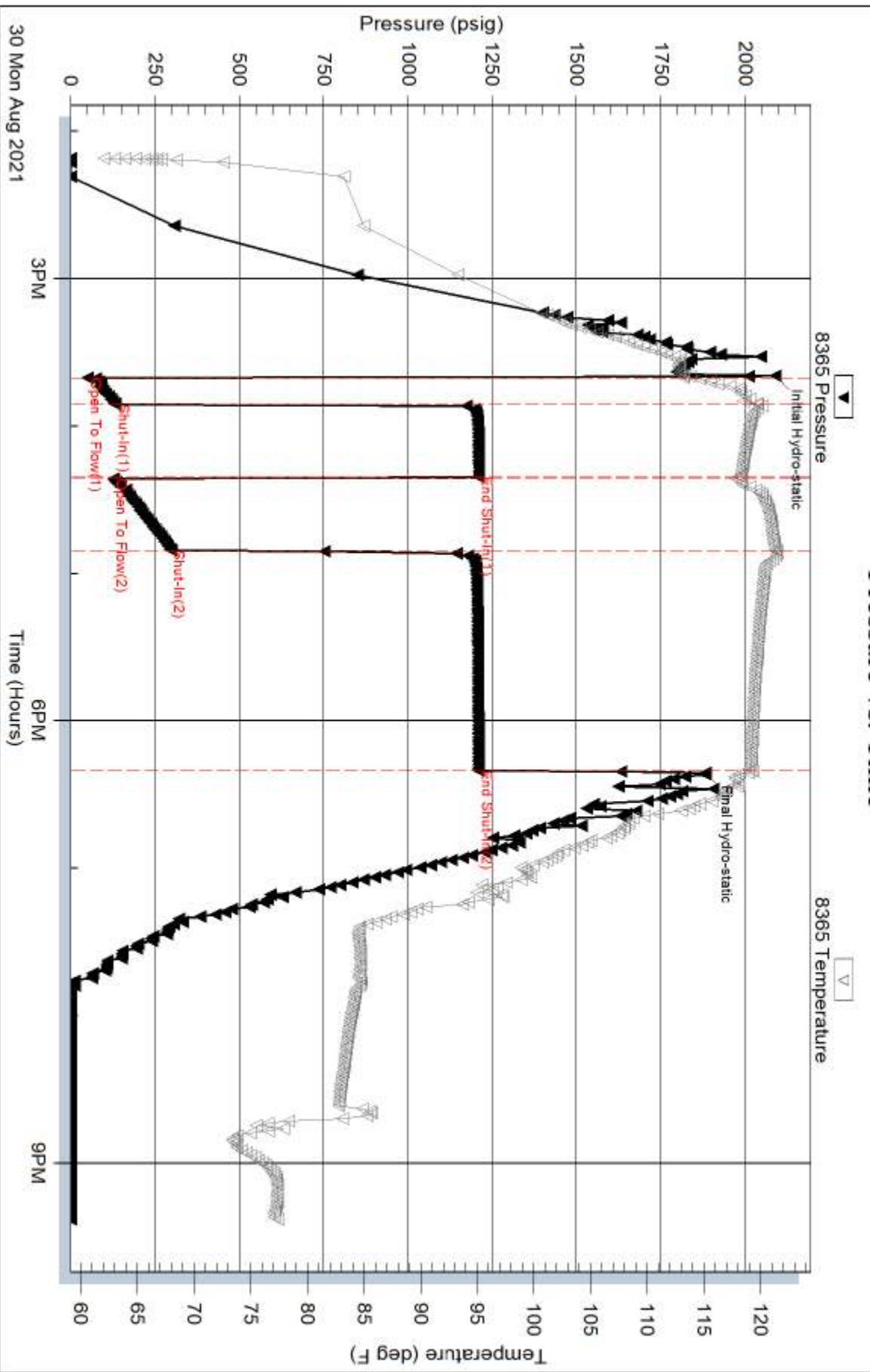
Inside

Cholla Productions

Wrangler #1-24

DST Test Number: 5

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 67801

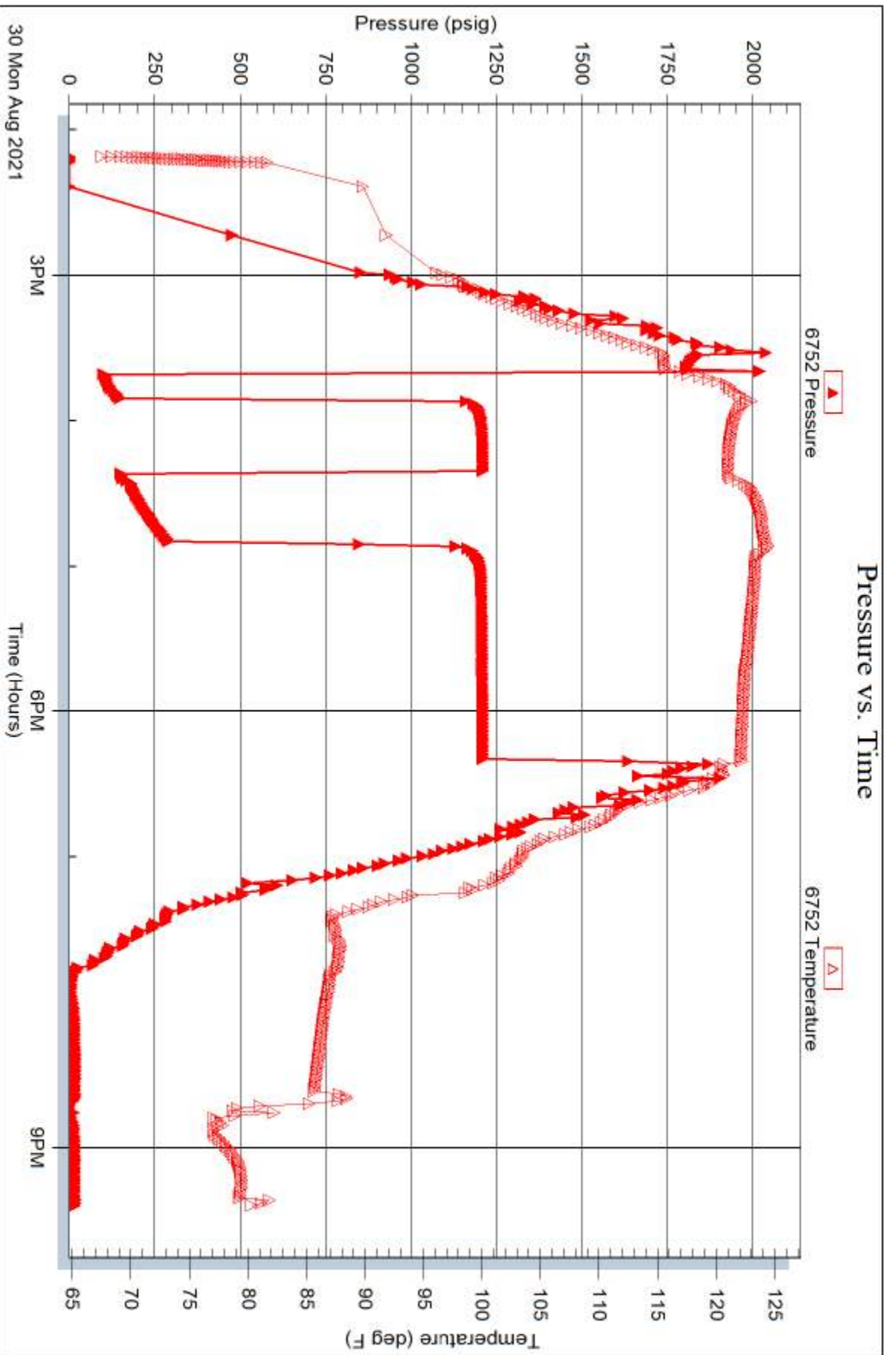
Printed: 2021.08.30 @ 23:51:02

Serial #: 6752

Cholla Productions

Wrangler #1-24

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 67801

Printed: 2021.08.30 @ 23:51:02

Cholla Production, LLC

10390 Bradford Rd, Suite 201
Littleton, CO 80127

Wrangler # 1-24 1203' FSL & 2493' FEL Sec. 24-T11S-R21W Trego County, Kansas KB = 2241.5'

Scale 1:240 Imperial

Well Name: Wrangler #1-24
Surface Location: 1203' FSL, 2493' FEL Sec 24-T11S-21W
Bottom Location:
AP#: 15-195-23116-00-00
License Number: 8/23/2021
Spud Date: 8/23/2021
Region: Trego County
Drilling Completed: 274752 & 1545462
Time: 8:00 AM
Time: 1:08 AM

Bottom Hole Coordinates:
X: 2233.500
Y: 2241.500
K.B. Elevation: 2241.500
Logged Interval: 3090.00ft To: 3875.00ft
Total Depth: 3875.00ft
Formation: Arbuckle
Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Company: Cholla Production, LLC
Address: 10390 Bradford Rd, Littleton, CO 80127

Contact Geologist: Bill Goff/Emily Hundley-Goff
Contact Phone Nbr: 303-249-0430 / 303-243-4565
Well Name: Wrangler #1-24
Location: 1203' FSL, 2493' FEL Sec 24-T11S-21W
AP#: 15-195-23116-00-00
State: Kansas
County: USA

LOGGED BY

Company: Charlie Sturdavant Consulting
Address: 920 12th Street, Golden, CO 80401
Phone Nbr: 303-907-2295
Geologist: Charlie Sturdavant

Well Comparison Sheet

CHARLIE STURDAVANT CONSULTING
WELL COMPARISON SHEET

Well Name	COMPARISON WELL										COMPARISON WELL									
	1203' FSL, 2493' FEL					303-249-0430 / 303-243-4565					303-249-0430 / 303-243-4565					303-249-0430 / 303-243-4565				
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Log	
Arbuckle	3090	3090	3090	3090	3090	3090	3090	3090	3090	3090	3090	3090	3090	3090	3090	3090	3090	3090	3090	
Wichita	3095	3095	3095	3095	3095	3095	3095	3095	3095	3095	3095	3095	3095	3095	3095	3095	3095	3095	3095	
Harlan	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	
Topoka	3105	3105	3105	3105	3105	3105	3105	3105	3105	3105	3105	3105	3105	3105	3105	3105	3105	3105	3105	
King Hill	3110	3110	3110	3110	3110	3110	3110	3110	3110	3110	3110	3110	3110	3110	3110	3110	3110	3110	3110	
Queen Hill	3115	3115	3115	3115	3115	3115	3115	3115	3115	3115	3115	3115	3115	3115	3115	3115	3115	3115	3115	
Neohor	3120	3120	3120	3120	3120	3120	3120	3120	3120	3120	3120	3120	3120	3120	3120	3120	3120	3120	3120	
Tenneco	3125	3125	3125	3125	3125	3125	3125	3125	3125	3125	3125	3125	3125	3125	3125	3125	3125	3125	3125	
Laramie	3130	3130	3130	3130	3130	3130	3130	3130	3130	3130	3130	3130	3130	3130	3130	3130	3130	3130	3130	
Manitou	3135	3135	3135	3135	3135	3135	3135	3135	3135	3135	3135	3135	3135	3135	3135	3135	3135	3135	3135	
Stark	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	
Base C	3145	3145	3145	3145	3145	3145	3145	3145	3145	3145	3145	3145	3145	3145	3145	3145	3145	3145	3145	
Marmaton	3150	3150	3150	3150	3150	3150	3150	3150	3150	3150	3150	3150	3150	3150	3150	3150	3150	3150	3150	
Frederick	3155	3155	3155	3155	3155	3155	3155	3155	3155	3155	3155	3155	3155	3155	3155	3155	3155	3155	3155	
Arbuckle	3160	3160	3160	3160	3160	3160	3160	3160	3160	3160	3160	3160	3160	3160	3160	3160	3160	3160	3160	
Total Depth	3875	3875	3875	3875	3875	3875	3875	3875	3875	3875	3875	3875	3875	3875	3875	3875	3875	3875	3875	

Daily Drilling Report

CHARLIE STURDAVANT CONSULTING
DAILY DRILLING REPORT

Company: Charlie Sturdavant Consulting
Address: 920 12th Street, Golden, CO 80401
Operator: Cholla Production, LLC
Operator Contacts: Bill Goff, Emily M. Hundley-Goff, Kelly Brunner
Wellsite Geologist: Charlie Sturdavant
Elevation: 2241.500, KB: 2241.5
AP No.: 15-195-2116-00-00
Surface Casing: 8 5/8" set @ 305'

Drilling Contractor: Discovery Drilling Co. Rig # 785-639-3964
Pumpers: Tom Alm, cell: 785-635-1511

DATE	7:00 AM DEPTH	REMARKS
8/23/2021	0 ft.	Moving in, rigging up. Spud 12'14" hole @ 0900 hrs. Set 7' js of new LMS 23 # 8-5/8" surface csg @ 305' w/ 180 kts 80/20. Plug down @ 1745 hrs. WOC
8/24/2021	883 ft.	Drilled out to 1745 hrs. Drilling ahead.
8/25/2021	2540 ft.	Drilling ahead. Anyhrite @ 1644-1700', Geologist on location @ 2230 hrs.
8/26/2021	3510 ft.	Conducting DST #1: 3540-3610', Rec: 90' oil with oil spots in tool, SIP: 7556-783#
8/28/2021	3725 ft.	Conducting DST #2: 3634-3725', Rec: 126' VSOCM (1% oil, 99% mud), SIP: 1025-944#
8/29/2021	3730 ft.	Circulating for samples. Conducted DST #3: 3742-3820', Rec: 5' mud, SIP: 1658-135#
8/30/2021	3875 ft.	Conducted DST #4: 3742-3830' (Arbuckle), Rec: 5' mud, SIP: 154-146#

Midwest Wireline conducting logging operations. Loggers completed logging operations @ 1030 hrs. Conduct DST #5: 3813-3875', Rec: 372' WCM (85% water, 15% mud), 248' MCV (93% mud, 10% water), SIP: 1211-1210#.

Geologist on location @ 2200 hrs

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: 99.601142
Latitude: 39.076674
NIS Co-ord: 274752
EJA Co-ord: 1545462

CONTRACTOR

Contractor: Discovery Drilling
Rig #1: mud rotary
Spud Date: 8/23/2021
TD Date: 8/30/2021
Rig Release: 8/30/2021

ELEVATIONS

K.B. Elevation: 2241.50ft
K.B. Ground: 8.00ft
Ground Elevation: 2233.50ft

The Cholla Production Wrangler # 1-24 well was drilled to a depth of 3875' and a LTD of 3875', bottoming in the Arbuckle. The geologist was on location, examining samples from 3205' to TD. Samples of oil were noted in the Deer Creek Limestone, below the top of the Topeka, and in the Leocompton Limestone. Shows of oil were also noted in the Lansing A, C, E, F, H, J, K, and L zones, as well as in the Pawnee, and Arbuckle.

Two DST's were conducted covering the Lansing C through K zones. Recoveries were disappointing, recovering only mud with little oil.

Two DST's were conducted in the Arbuckle, each being progressively deeper and having the same packer seal at 3742'. Again, the recoveries were low, only 5' of mud in each, despite having good sample shows.

After logging, the Microlog showed permeability in the Arbuckle from 3837-3847'. A decision was made to conduct a DST based on 3813-3875', Recovery was 372' WCM & 248' MCV.

Based on the sample shows, DST results, log analysis, it was determined by all parties involved that the hole should be plugged and abandoned.

The samples were saved and transported with me back to Denver for later delivery to the KGS in Wichita, Kansas.

Respectfully submitted,
Charlie Sturdavant
Consulting Geologist

ACCESSORIES

MINERAL: Agglutinate, Calcareous, Carbonaceous, Chert, Dolomite, Euhedral crystals, Nodules, Pyrite

FOSSIL: Agglutinate or Fragmental, Brachiopod, Crinoid, Fossiliferous, Fossils, Nodules, Spicules

STRAT-SED. STRUCTS: Nodules, Uniformity, Xylinites

STRINGER: Sandstone, Shale, Siltstone, Sand shale

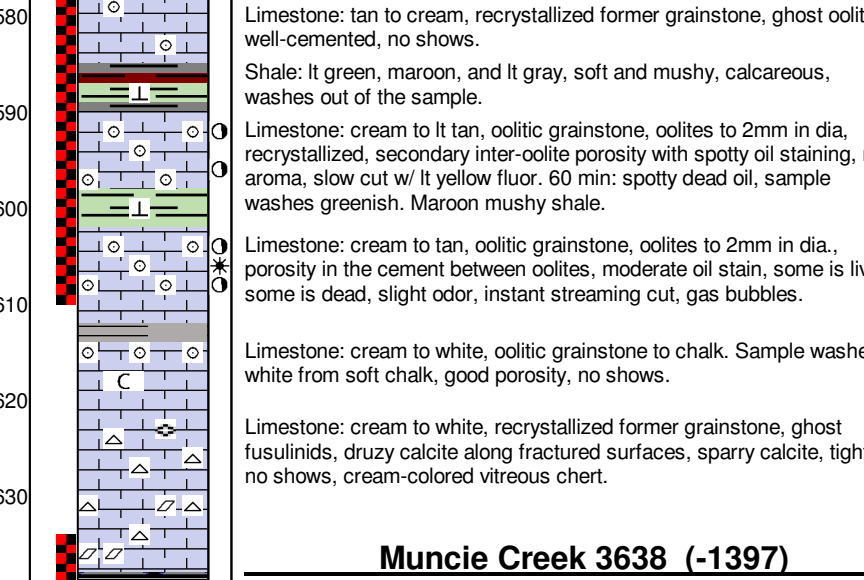
TEXTURE: Clayey, Cryptocrystalline

OTHER SYMBOLS

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

DST: DST Int, DST Alt

ROCK TYPES: Limestone, Sandstone, Shale, Siltstone, Sand shale, Carbon Sh



Printed by GEOSTAR V5.5 (Stiplog version 4.0.8.15) www.geostar.com

Cholla Production, LLC

Wrangler #1-24
1203' FSL & 2493' FEL Sec 24-T11S, R21W
Trego County, Kansas
KB = 2241.5'

Anyhrite Top: 1644 (-497)
Anyhrite Bottom 1700 (+541)

Geologist on location @ 0330 hrs 8/26/2021 (3200')

Stoller 3095 (-854)

Tarkio 3128 (-887)

10' Flow begin @ 3200'

Limestone brown to gray, fine, fusulinids, crinoids, w/ wispy gray shale streaks, light, no shows. These limestone are larger in color than those above.

Shale: med gray, hard, calcareous.

Limestone tan to brown, biotactic, f. to med-xn, fusulinids, crinoids, shale streaks, recrystallized, sparry calcite, fusulinids, spicules, packstone to wackestone, light, no shows.

Shale: med gray to greenish gray, calcareous, firm.

Shale: as above with streaks of gray to med gray lime-mudstone, random tan fossiliferous shale, shale, all calcareous.

Limestone: brown to dist. tan, w/ xn, fusulinids, crinoids, argillaceous streaks and patches, dirty wackestone to mudstone.

Shale: light gray to med. gray, taney, calcareous, firm.

Limestone: tan to brown, biotactic, f. to med-xn, fusulinids, crinoids, argillaceous streaks, light, no shows. These limestone are larger in color than those above.

No oolites.

Limestone: grayish-tan to brown, micro-xn mudstone, light, no shows.

Limestone: tan, fragmental, brachiopods, f. oolites, recrystallized, calcareous, fossiliferous, sparry calcite, fusulinids, spicules, water, fine oil spots in oolites, good. It becomes tan brown mudstone with depth.

Limestone: tan to brown, f. to med-xn biotactic packstone with frags of fusulinids, argillaceous streaks, it brown mudstone, tan brown shale streaks.

Limestone: Light tan oolitic granstone, med-xn, light, mixed with gray and tan to brown micro-xn mudstone. No shows.

Limestone: tan to brown, brachiopods, f. oolites, fusulinids, recrystallized former granstone to mudstone, light, no shows.

Grayish-tan to light gray spicular chert.

Limestone: tan to brown, oolitic, peloids, spicules, med-xn, packstone, fair inter-xn porosity, one frag of oolitic granstone with brown staining, no fluor with cutting fluid until crushed, resulting in a light yellow fluor.

Shale: black, carbonaceous, hard, calcareous, combustible.

Limestone: brown, fine, calcareous with a few fossil frags, if fusulinids, shales, med-xn, calcareous, firm.

Limestone: reddish-brown to tan, mottled, recrystallized fragmental former granstone, tan, calcareous, firm.

Limestone: cream to tan, w/ gray, crypto-xn micrite, light, no shows.

Limestone: cream to tan, oolitic granstone with flattened and elongate to round oolites, fusulinids, T. pyrite within the limestone.

Shale: gray to light gray to light greenish-gray, soft, fusulinids in some frags, calcareous.

Limestone: 1-2 in. vfn to micro-xn, shale, light, no shows.

Fusulinid-beds

Shale: black, carbonaceous, hard, calcareous, combustible.

Limestone: tan micro-xn mudstone, light.

Limestone: tan to brown, oolitic to biotactic/fragmental granstone, tan, calcareous, firm.

Limestone: tan to brown, calcareous, firm.

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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. 2411

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10/21	24	11	21	TRUMBULL	KAN		5:15 PM

Lease WKA Ag/ore Well No. 1-224 Location Section 10, T11S, R24E

Contractor WKA Ag/ore Owner WKA Ag/ore
 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.

Hole Size 4 1/2 TD. 206 Charge 240 lbs 1000 7.15
 To 1000

Csg. 4 1/2 Depth 206 Street 1000
 Tbg. Size 4 1/2 Depth 206 City 1000 State 1000

Tool 4 1/2 Depth 206 City 1000 State 1000
 Cement Left in Csg. 1000 The above was done to satisfaction and supervision of owner agent or contractor.

Meas Line 18.14 Displace 18.14 Cement Amount Ordered 1800 sgal 3.2

EQUIPMENT			
No.	Cementier	Helper	Common
<u>17</u>			
	No. Driver		Poz. Mix
	No. Driver		Gel.
	No. Driver		Calcium
	No. Driver		Hulls
	No. Driver		Salt

JOB SERVICES & REMARKS

Remarks: Salt

Rat Hole Flowseal

Mouse Hole Kol-Seal

Centralizers Mud CLR 48

Baskets CFL-117 or CD110 CAF 38

DV or Port Collar Sand

Pen 2.100 Handling 3.25

Pen 1.100 Mileage 1000

Pen 1.100 FLOAT EQUIPMENT

Pen 1.100 Guide Shoe

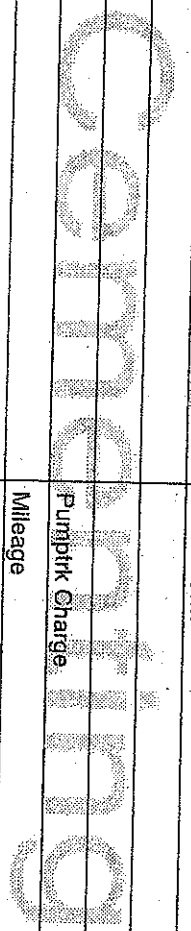
Pen 1.100 Centralizer

Pen 1.100 Baskets

Pen 1.100 AFU Inserts

Pen 1.100 Float Shoe

Pen 1.100 Latch Down



Mileage

Pumpbtk Charge

Tax

Discount

Total Charge

X Signature WKA Ag/ore