

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](mailto: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	Darrah Oil Company, LLC
Well Name	TRACY FANSHIER 5
Doc ID	1672867

All Electric Logs Run

Compensated Density Neutron
Dual Induction
MicroLog
Sonic





## DRILL STEM TEST REPORT

Prepared For: **Darrah Oil Company LLC**

125 N Market Suite 1425  
Wichita, KS 67202

ATTN: Roger Martin

### **McDonald #5**

### **3-21s-13w Stafford,KS**

Start Date: 2022.08.15 @ 11:10:40

End Date: 2022.08.15 @ 17:28:10

Job Ticket #: 68663                      DST #: 1

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

Printed: 2022.08.23 @ 10:40:30

Darrah Oil Company LLC  
3-21s-13w Stafford,KS  
McDonald #5  
DST # 1  
LKC A - D  
2022.08.15



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Darrah Oil Company LLC

**3-21s-13w Stafford,KS**

125 N Market Suite 1425  
Wichita, KS 67202

**McDonald #5**

Job Ticket: 68663

**DST#: 1**

ATTN: Roger Martin

Test Start: 2022.08.15 @ 11:10:40

## GENERAL INFORMATION:

Formation: **LKC A - D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:10:40

Time Test Ended: 17:28:10

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

**Interval: 3261.00 ft (KB) To 3335.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3335.00 ft (KB) (TVD)

1876.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8788**

**Inside**

Press@RunDepth: 29.24 psig @ 3262.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.15

End Date:

2022.08.15

Last Calib.:

2022.08.15

Start Time: 11:10:45

End Time:

17:28:09

Time On Btm:

2022.08.15 @ 13:08:25

Time Off Btm:

2022.08.15 @ 15:45:10

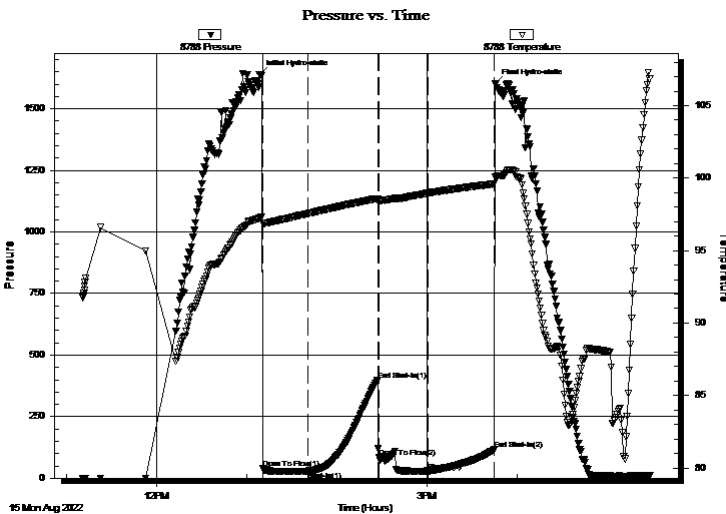
TEST COMMENT: IF: Weak Blow . Built to .59". (30)

IS: No Blow . (45)

FF: No Blow . (30)

FS: No Blow . (45)

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1640.17	97.25	Initial Hydro-static
3	38.01	96.88	Open To Flow (1)
33	28.66	97.55	Shut-In(1)
79	398.11	98.59	End Shut-In(1)
80	82.86	98.48	Open To Flow (2)
112	29.24	98.96	Shut-In(2)
156	115.48	99.59	End Shut-In(2)
157	1602.48	100.06	Final Hydro-static

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
15.00	GOSM 1%g <1%o >99%m	0.21
0.00	TS GVSOCM 1%g 1%o 98%m	0.00
0.00	31' GIP	0.00

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Darrah Oil Company LLC

**3-21s-13w Stafford,KS**

125 N Market Suite 1425  
Wichita, KS 67202

**McDonald #5**

Job Ticket: 68663

**DST#: 1**

ATTN: Roger Martin

Test Start: 2022.08.15 @ 11:10:40

## Tool Information

Drill Pipe:	Length: 3264.00 ft	Diameter: 3.80 inches	Volume: 45.79 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.80 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 45.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3261.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	105.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Change Over Sub	1.00			3231.00	
Shut In Tool	5.00			3236.00	
Hydraulic tool	5.00			3241.00	
Jars	5.00			3246.00	
EMT	3.00			3249.00	
Safety Joint	3.00			3252.00	
Packer	4.00			3256.00	31.00 Bottom Of Top Packer
Packer	5.00			3261.00	
Stubb	1.00			3262.00	
Recorder	0.00	8788	Inside	3262.00	
Recorder	0.00	8737	Outside	3262.00	
Perforations	3.00			3265.00	
Change Over Sub	1.00			3266.00	
Blank Spacing	63.00			3329.00	
Change Over Sub	1.00			3330.00	
Perforations	2.00			3332.00	
Bullnose	3.00			3335.00	74.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>105.00</b>				





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Darrah Oil Company LLC

**3-21s-13w Stafford,KS**

125 N Market Suite 1425  
Wichita, KS 67202

**McDonald #5**

Job Ticket: 68663

**DST#: 1**

ATTN: Roger Martin

Test Start: 2022.08.15 @ 11:10:40

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	GOSM 1%g <1%o >99%m	0.210
0.00	TS GVSOCM 1%g 1%o 98%m	0.000
0.00	31' GIP	0.000

Total Length: 15.00 ft      Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

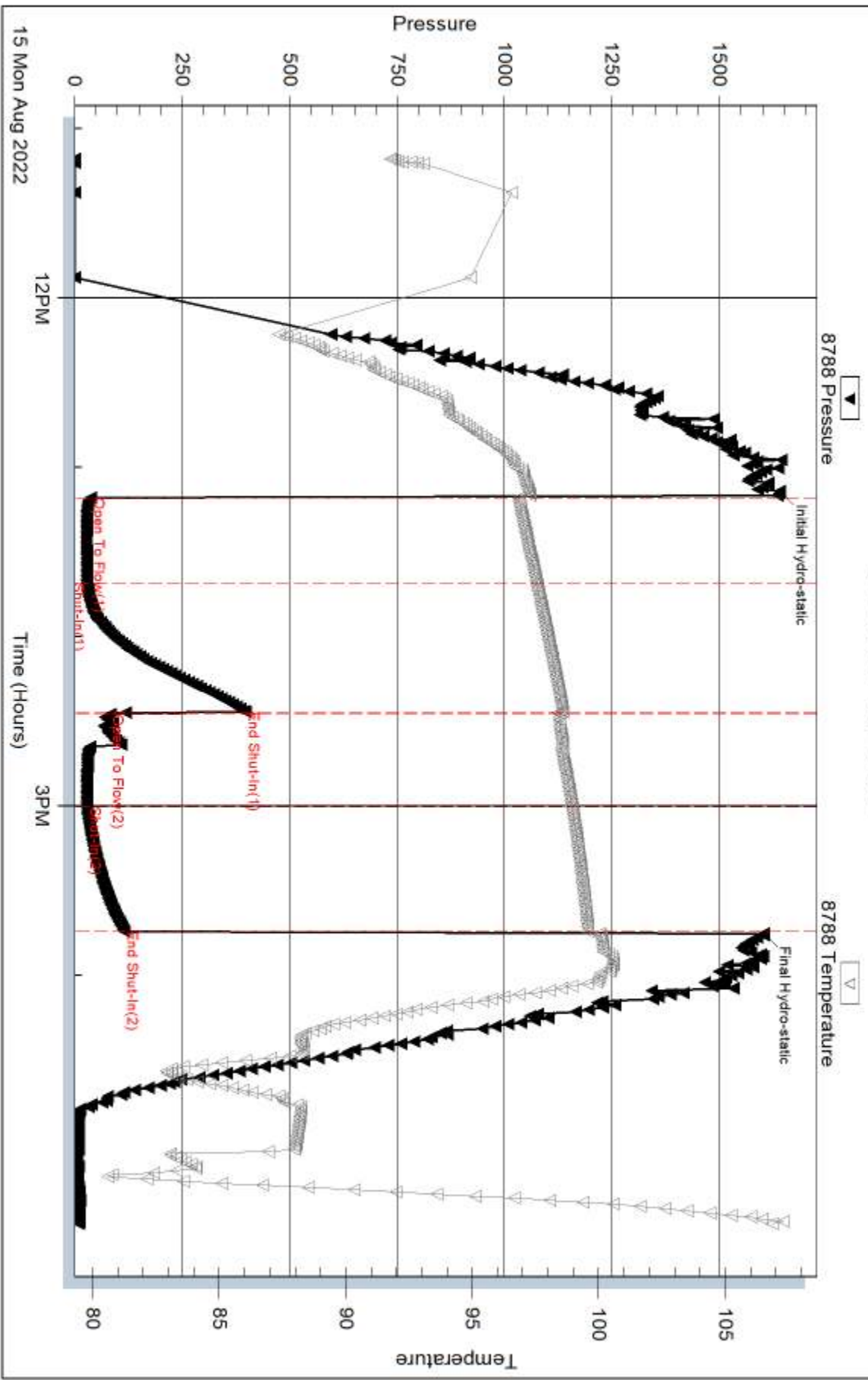
Laboratory Name:

Laboratory Location:

Recovery Comments: 31 Feet of Gas in Pipe.

Tool Sample GVSOCM 1%g 1%o 98%m

### Pressure vs. Time

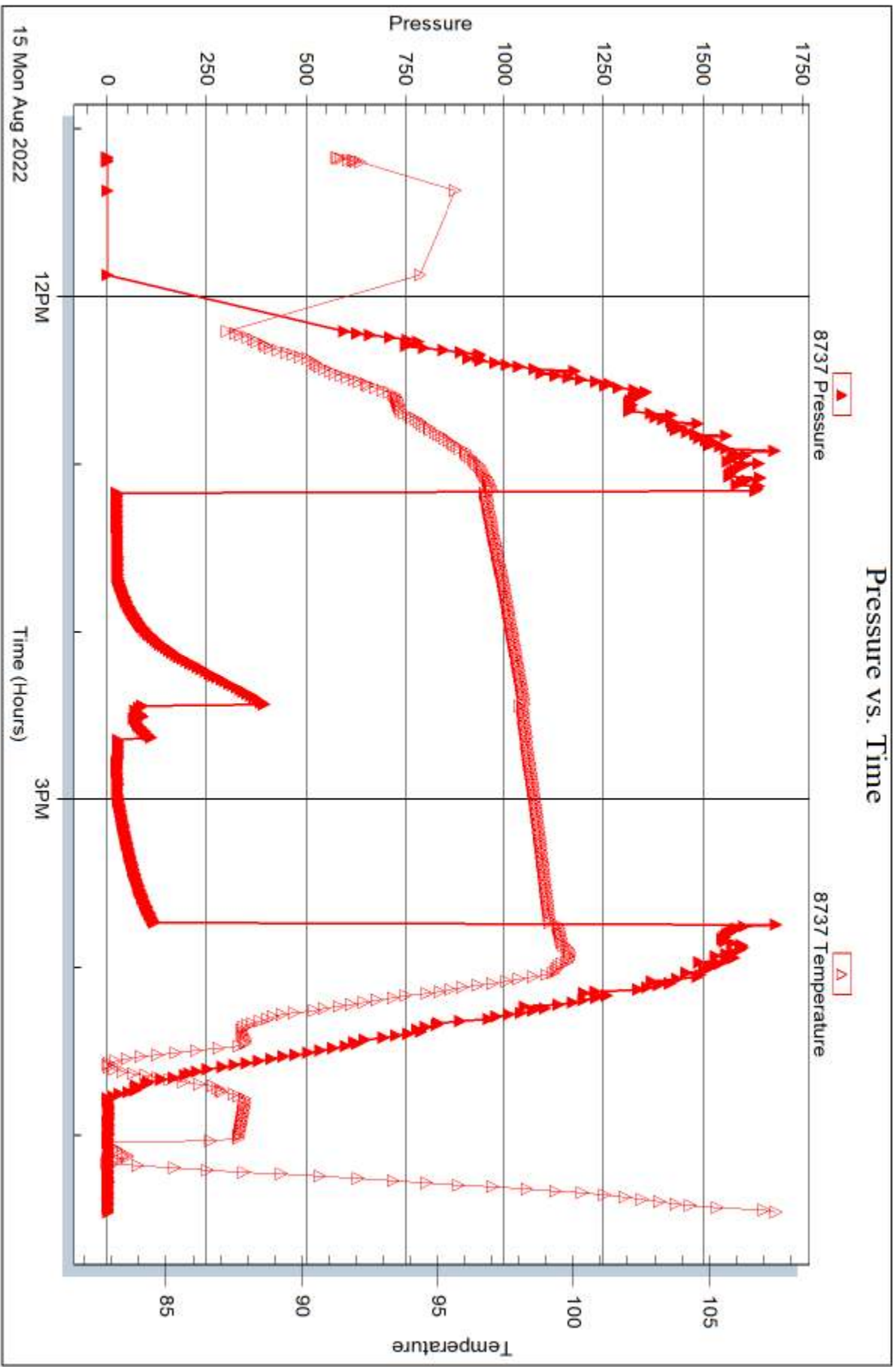


Serial #: 8737

Outside Darrah Oil Company LLC

McDonald #5

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68663

Printed: 2022.08.23 @ 10:40:32



## DRILL STEM TEST REPORT

Prepared For: **Darrah Oil Company LLC**

125 N Market Suite 1425  
Wichita, KS 67202

ATTN: Roger Martin

### **McDonald #5**

### **3-21s-13w Stafford,KS**

Start Date: 2022.08.16 @ 14:31:35

End Date: 2022.08.16 @ 21:09:05

Job Ticket #: 68664                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.08.23 @ 10:40:03



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Darrah Oil Company LLC

**3-21s-13w Stafford,KS**

125 N Market Suite 1425  
Wichita, KS 67202

**McDonald #5**

Job Ticket: 68664

**DST#: 2**

ATTN: Roger Martin

Test Start: 2022.08.16 @ 14:31:35

## GENERAL INFORMATION:

Formation: **LKC H - L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:12:50

Time Test Ended: 21:09:05

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

**Interval: 3389.00 ft (KB) To 2510.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3510.00 ft (KB) (TVD)

1876.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8788 Inside**

Press@RunDepth: 34.96 psig @ 3390.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.16

End Date:

2022.08.16

Last Calib.:

2022.08.16

Start Time: 14:31:40

End Time:

21:09:04

Time On Btm:

2022.08.16 @ 16:09:05

Time Off Btm:

2022.08.16 @ 19:20:20

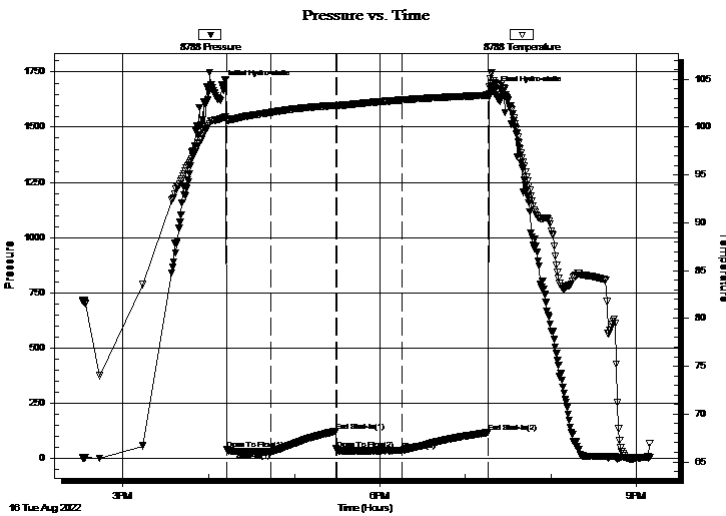
TEST COMMENT: IF: Weak Blow . Built to 4.07". (30)

IS: No Blow . (45)

FF: Strong Blow . B.O.B. in 43 mins. Built to 12.38". (45)

FS: No Blow . (60)

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1693.71	100.91	Initial Hydro-static
4	38.60	100.67	Open To Flow (1)
35	29.15	101.53	Shut-In(1)
80	121.83	102.27	End Shut-In(1)
81	37.84	102.24	Open To Flow (2)
127	34.96	102.84	Shut-In(2)
187	117.12	103.33	End Shut-In(2)
192	1665.85	104.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
35.00	GOCM 10%g 8%o 82%m	0.49
0.00	TS GVSOCM 1%g 5%o 94%m	0.00
0.00	217' GIP 100%g	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**

Darrah Oil Company LLC

**3-21s-13w Stafford,KS**

125 N Market Suite 1425  
Wichita, KS 67202

**McDonald #5**

Job Ticket: 68664

**DST#: 2**

ATTN: Roger Martin

Test Start: 2022.08.16 @ 14:31:35

## Tool Information

Drill Pipe:	Length: 3391.00 ft	Diameter: 3.80 inches	Volume: 47.57 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.80 inches	Volume: 0.00 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 47.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3389.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	121.00 ft			
Tool Length:	152.00 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			3359.00	
Shut In Tool	5.00			3364.00	
Hydraulic tool	5.00			3369.00	
Jars	5.00			3374.00	
EMT	3.00			3377.00	
Safety Joint	3.00			3380.00	
Packer	4.00			3384.00	31.00 Bottom Of Top Packer
Packer	5.00			3389.00	
Stubb	1.00			3390.00	
Recorder	0.00	8788	Inside	3390.00	
Recorder	0.00	8737	Outside	3390.00	
Perforations	3.00			3393.00	
Change Over Sub	1.00			3394.00	
Blank Spacing	94.00			3488.00	
Change Over Sub	1.00			3489.00	
Perforations	18.00			3507.00	
Bullnose	3.00			3510.00	121.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>152.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Darrah Oil Company LLC

**3-21s-13w Stafford,KS**

125 N Market Suite 1425  
Wichita, KS 67202

**McDonald #5**

Job Ticket: 68664

**DST#: 2**

ATTN: Roger Martin

Test Start: 2022.08.16 @ 14:31:35

### 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: 57.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
35.00	GOCM 10%g 8%o 82%m	0.491
0.00	TS GVSOCM 1%g 5%o 94%m	0.000
0.00	217' GIP 100%g	0.000

Total Length: 35.00 ft      Total Volume: 0.491 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: 217 Feet of Gas in Pipe.



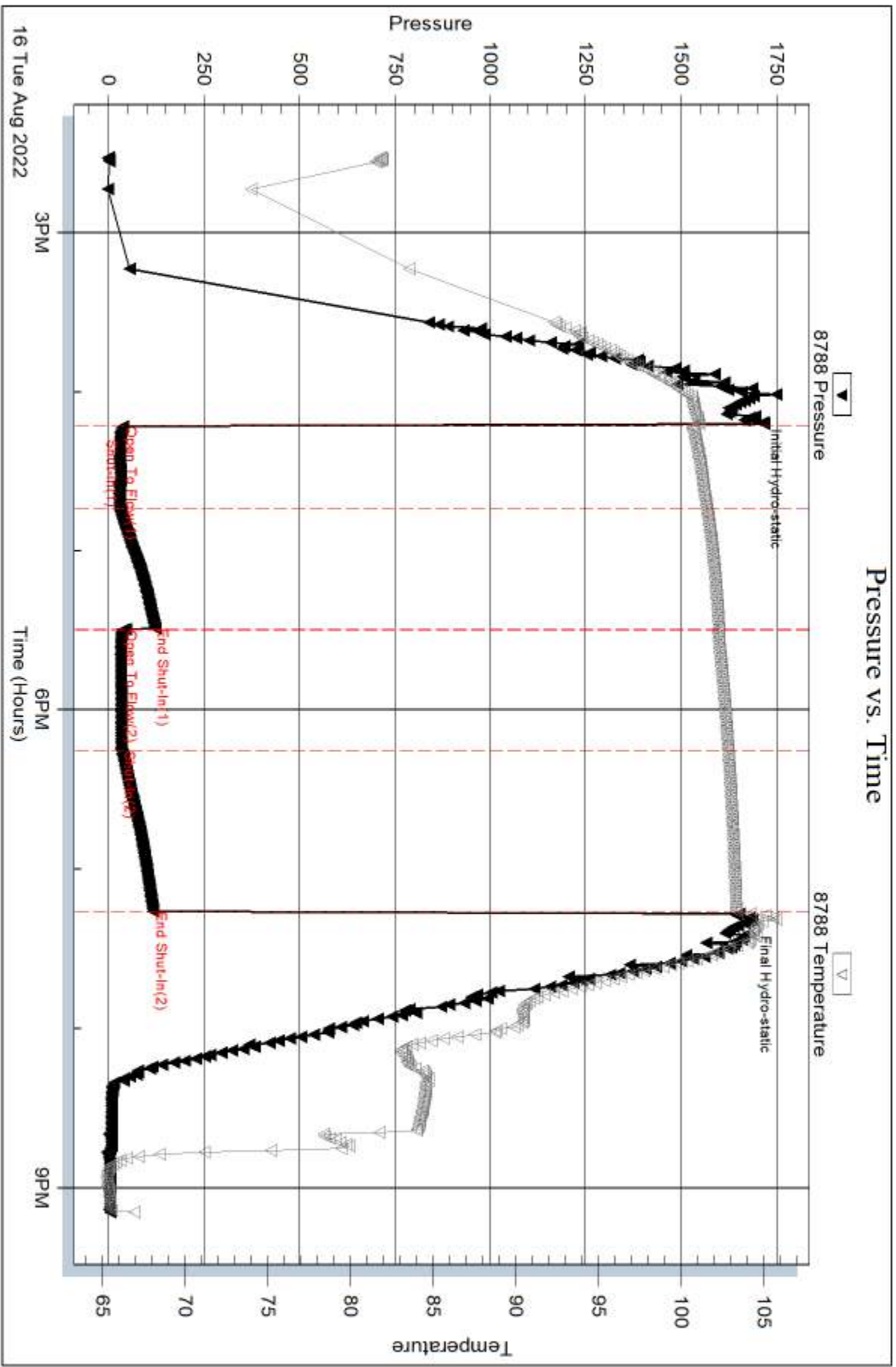
Serial #: 8788

Inside

Darrah Oil Company LLC

McDonald #5

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 68664

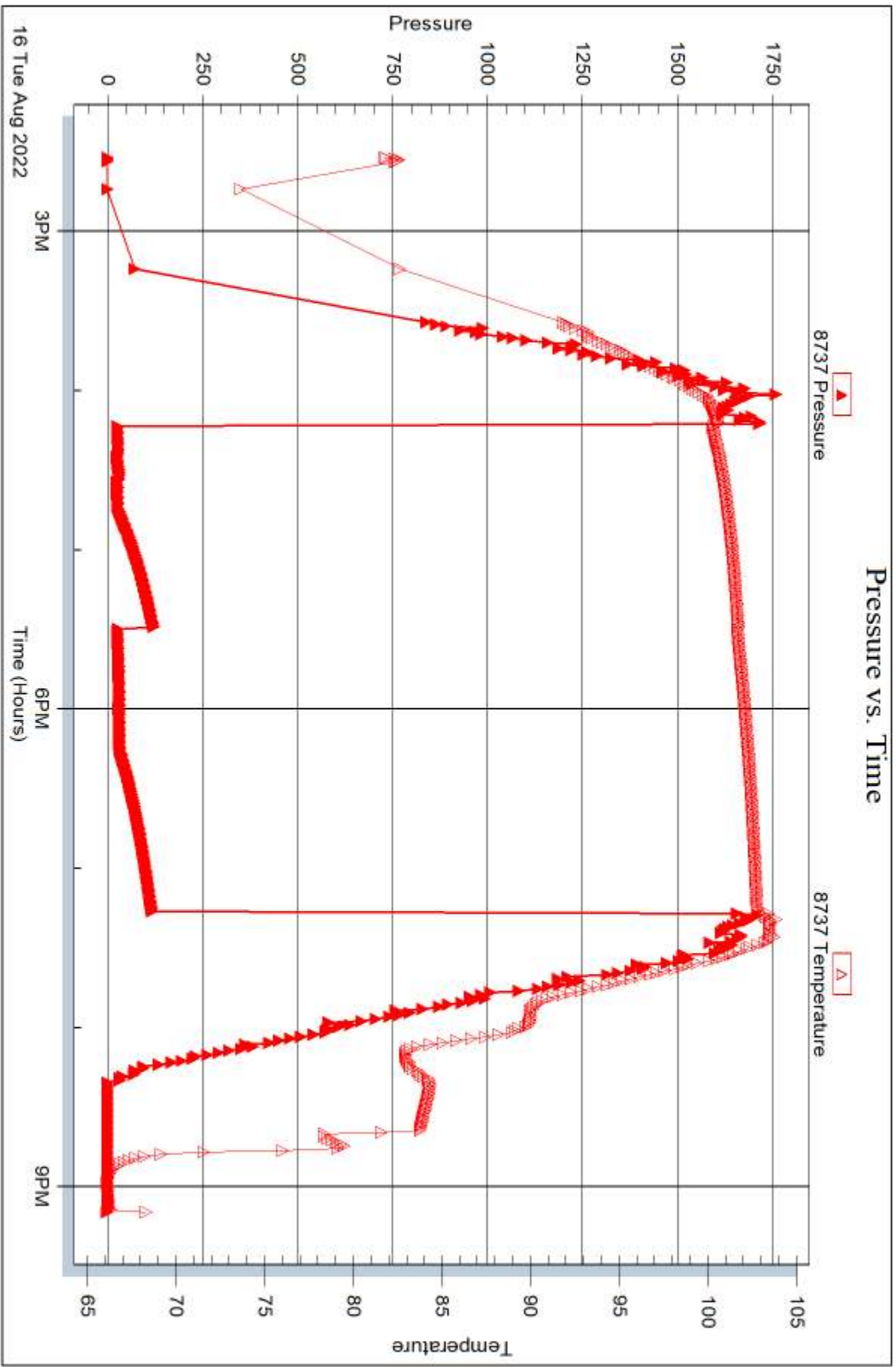
Printed: 2022.08.23 @ 10:40:06

Serial #: 8737

Outside Darrah Oil Company LLC

McDonald #5

DST Test Number: 2



16 Tue Aug 2022

6PM  
Time (Hours)



## DRILL STEM TEST REPORT

Prepared For: **Darrah Oil Company LLC**

125 N Market Suite 1425  
Wichita, KS 67202

ATTN: Roger Martin

### **McDonald #5**

#### **3-21s-13w Stafford,KS**

Start Date: 2022.08.17 @ 07:32:19

End Date: 2022.08.17 @ 14:10:49

Job Ticket #: 68665                      DST #: 3

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

Printed: 2022.08.23 @ 10:39:35



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Darrah Oil Company LLC

**3-21s-13w Stafford,KS**

125 N Market Suite 1425  
Wichita, KS 67202

**McDonald #5**

Job Ticket: 68665

**DST#: 3**

ATTN: Roger Martin

Test Start: 2022.08.17 @ 07:32:19

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:28:19

Time Test Ended: 14:10:49

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

**Interval: 3491.00 ft (KB) To 3541.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3541.00 ft (KB) (TVD)

1876.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8788**

**Inside**

Press@RunDepth: 35.66 psig @ 3492.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.17

End Date:

2022.08.17

Last Calib.:

2022.08.17

Start Time:

07:32:24

End Time:

14:10:48

Time On Btm:

2022.08.17 @ 09:27:49

Time Off Btm:

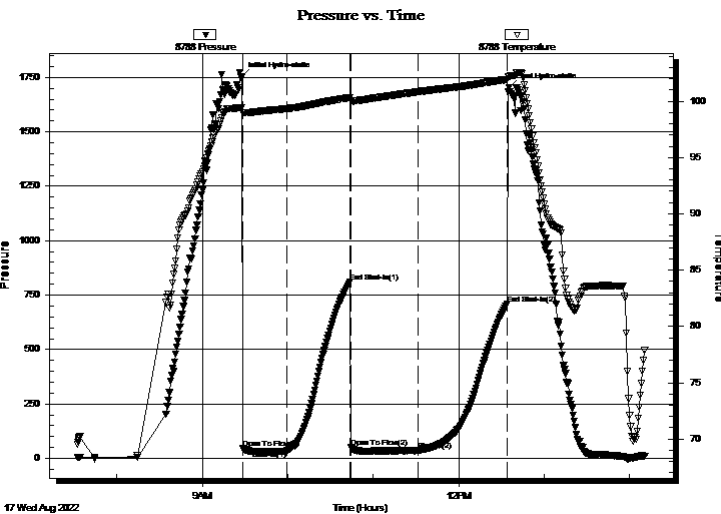
2022.08.17 @ 12:35:19

**TEST COMMENT:** IF: Weak Blow . Built to 1 1/4", in the Bucket. (30)

IS: No Blow . (45)

FF: Weak Blow . Built to 1.13". (45)

FS: No Blow . (60)



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1751.18	99.43	Initial Hydro-static
1	46.46	98.97	Open To Flow (1)
32	34.53	99.34	Shut-In(1)
76	810.84	100.31	End Shut-In(1)
77	49.15	100.03	Open To Flow (2)
124	35.66	100.83	Shut-In(2)
186	708.54	101.93	End Shut-In(2)
188	1702.22	102.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
27.00	GOCM 2%g 18%o 80%m	0.38
3.00	CO 100%o	0.04
0.00	32' GIP 100%g	0.00
0.00	TS GVSOCM 1%g 1%o 98%m	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**

Darrah Oil Company LLC

**3-21s-13w Stafford,KS**

125 N Market Suite 1425  
Wichita, KS 67202

**McDonald #5**

Job Ticket: 68665

**DST#: 3**

ATTN: Roger Martin

Test Start: 2022.08.17 @ 07:32:19

## Tool Information

Drill Pipe:	Length: 3486.00 ft	Diameter: 3.80 inches	Volume: 48.90 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.80 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 48.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3491.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	81.00 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			3461.00	
Shut In Tool	5.00			3466.00	
Hydraulic tool	5.00			3471.00	
Jars	5.00			3476.00	
EMT	3.00			3479.00	
Safety Joint	3.00			3482.00	
Packer	4.00			3486.00	31.00 Bottom Of Top Packer
Packer	5.00			3491.00	
Stubb	1.00			3492.00	
Recorder	0.00	8788	Inside	3492.00	
Recorder	0.00	8737	Outside	3492.00	
Perforations	3.00			3495.00	
Change Over Sub	1.00			3496.00	
Blank Spacing	31.00			3527.00	
Change Over Sub	1.00			3528.00	
Perforations	10.00			3538.00	
Bullnose	3.00			3541.00	50.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>81.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Darrah Oil Company LLC

**3-21s-13w Stafford,KS**

125 N Market Suite 1425  
Wichita, KS 67202

**McDonald #5**

Job Ticket: 68665

**DST#: 3**

ATTN: Roger Martin

Test Start: 2022.08.17 @ 07:32:19

## 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: 58.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
27.00	GOCM 2%g 18%o 80%m	0.379
3.00	CO 100%o	0.042
0.00	32' GIP 100%g	0.000
0.00	TS GVSOCM 1%g 1%o 98%m	0.000

Total Length: 30.00 ft      Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: 32 Feet of Gas In Pipe.

Tool Sample GVSOCM 1%g 1%o 98%m

Serial #: 8788

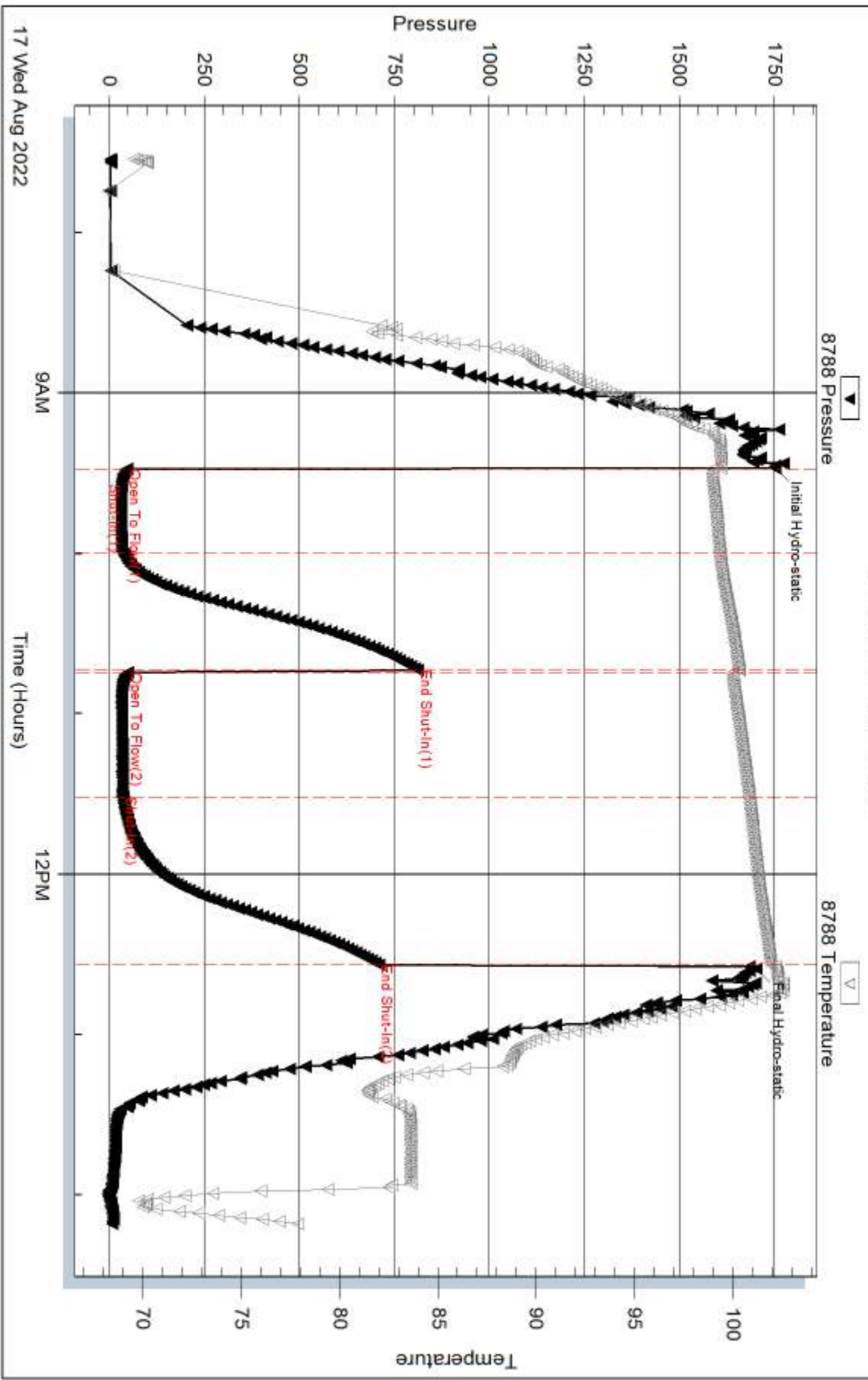
Inside

Darrah Oil Company LLC

McDonald #5

DST Test Number: 3

### Pressure vs. Time



Tribble Testing, Inc

Ref. No: 68665

Printed: 2022.08.23 @ 10:39:36

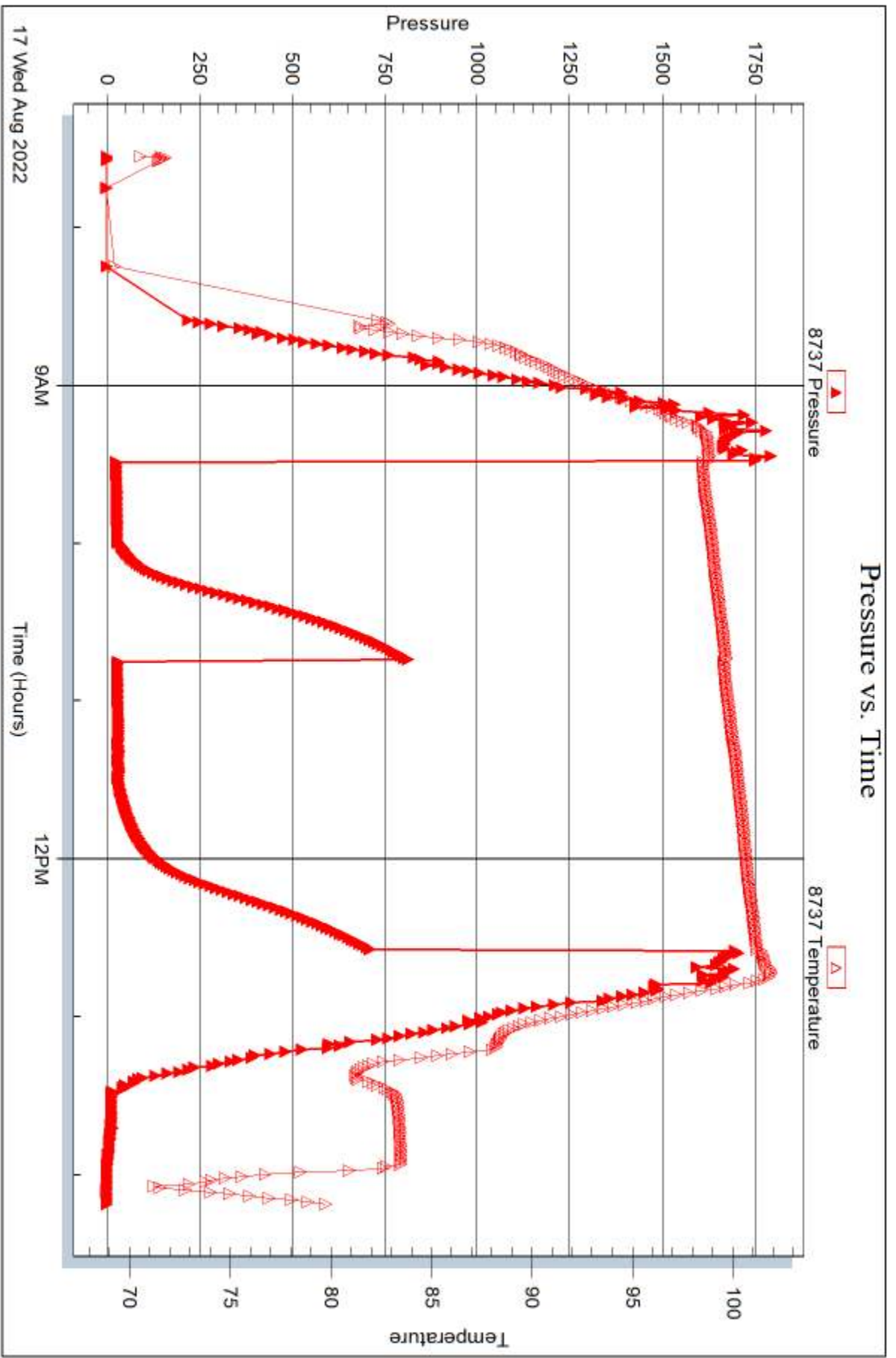


Serial #: 8737

Outside Darrah Oil Company LLC

McDonald #5

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 68665

Printed: 2022.08.23 @ 10:39:37



## DRILL STEM TEST REPORT

Prepared For: **Darrah Oil Company LLC**

125 N Market Suite 1425  
Wichita, KS 67202

ATTN: Roger Martin

### **McDonald #5**

#### **3-21s-13w Stafford,KS**

Start Date: 2022.08.17 @ 21:36:44

End Date: 2022.08.18 @ 04:06:44

Job Ticket #: 68667                      DST #: 4

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

Printed: 2022.08.23 @ 10:39:08



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Darrah Oil Company LLC

**3-21s-13w Stafford,KS**

125 N Market Suite 1425  
Wichita, KS 67202

**McDonald #5**

Job Ticket: 68667

**DST#: 4**

ATTN: Roger Martin

Test Start: 2022.08.17 @ 21:36:44

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:32:29

Time Test Ended: 04:06:44

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

**Interval: 3491.00 ft (KB) To 3546.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3546.00 ft (KB) (TVD)

1876.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8788**

**Inside**

Press@RunDepth: 47.70 psig @ 3492.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.17

End Date:

2022.08.18

Last Calib.:

2022.08.18

Start Time:

21:36:49

End Time:

04:06:43

Time On Btm:

2022.08.17 @ 23:29:59

Time Off Btm:

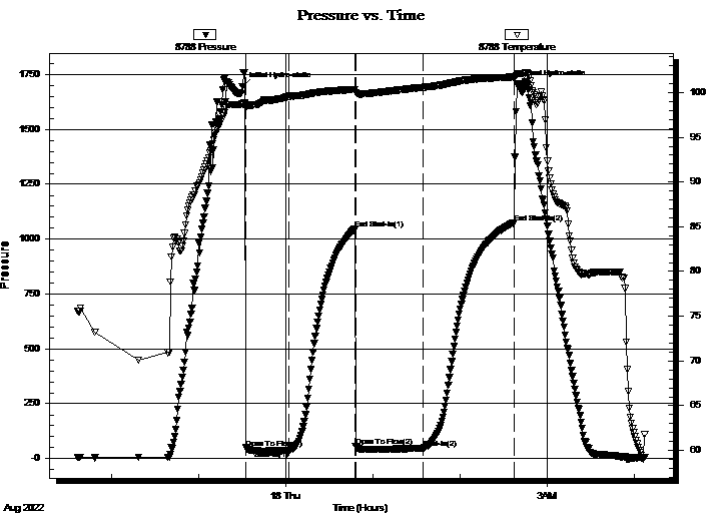
2022.08.18 @ 02:39:44

TEST COMMENT: IF: Weak Blow . Built to 3.44". (30)

IS: No Blow . (45)

FF: Weak Blow . Built to 3.94". (45)

FS: No Blow . (60)



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1694.52	98.71	Initial Hydro-static
3	48.48	98.44	Open To Flow (1)
33	36.75	99.58	Shut-In(1)
78	1046.94	100.34	End Shut-In(1)
78	54.94	99.96	Open To Flow (2)
125	47.70	100.58	Shut-In(2)
187	1075.82	101.74	End Shut-In(2)
190	1706.64	102.11	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	GOCM 13%g 22%o 65%m	0.63
0.00	110' GIP 100%g	0.00
0.00	Tool Sample- GOCM 5%g 30%o 65%m	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**

Darrah Oil Company LLC

**3-21s-13w Stafford,KS**

125 N Market Suite 1425  
Wichita, KS 67202

**McDonald #5**

Job Ticket: 68667

**DST#: 4**

ATTN: Roger Martin

Test Start: 2022.08.17 @ 21:36:44

## Tool Information

Drill Pipe:	Length: 3485.00 ft	Diameter: 3.80 inches	Volume: 48.89 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.80 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 48.89 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3491.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	86.00 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			3461.00	
Shut In Tool	5.00			3466.00	
Hydraulic tool	5.00			3471.00	
Jars	5.00			3476.00	
EMT	3.00			3479.00	
Safety Joint	3.00			3482.00	
Packer	4.00			3486.00	31.00 Bottom Of Top Packer
Packer	5.00			3491.00	
Stubb	1.00			3492.00	
Recorder	0.00	8788	Inside	3492.00	
Recorder	0.00	8737	Outside	3492.00	
Perforations	3.00			3495.00	
Change Over Sub	1.00			3496.00	
Blank Spacing	31.00			3527.00	
Change Over Sub	1.00			3528.00	
Perforations	15.00			3543.00	
Bullnose	3.00			3546.00	55.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>86.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Darrah Oil Company LLC

**3-21s-13w Stafford,KS**

125 N Market Suite 1425  
Wichita, KS 67202

**McDonald #5**

Job Ticket: 68667

**DST#: 4**

ATTN: Roger Martin

Test Start: 2022.08.17 @ 21:36:44

## 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: 63.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
45.00	GOCM 13%g 22%o 65%m	0.631
0.00	110' GIP 100%g	0.000
0.00	Tool Sample- GOCM 5%g 30%o 65%m	0.000

Total Length: 45.00 ft      Total Volume: 0.631 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

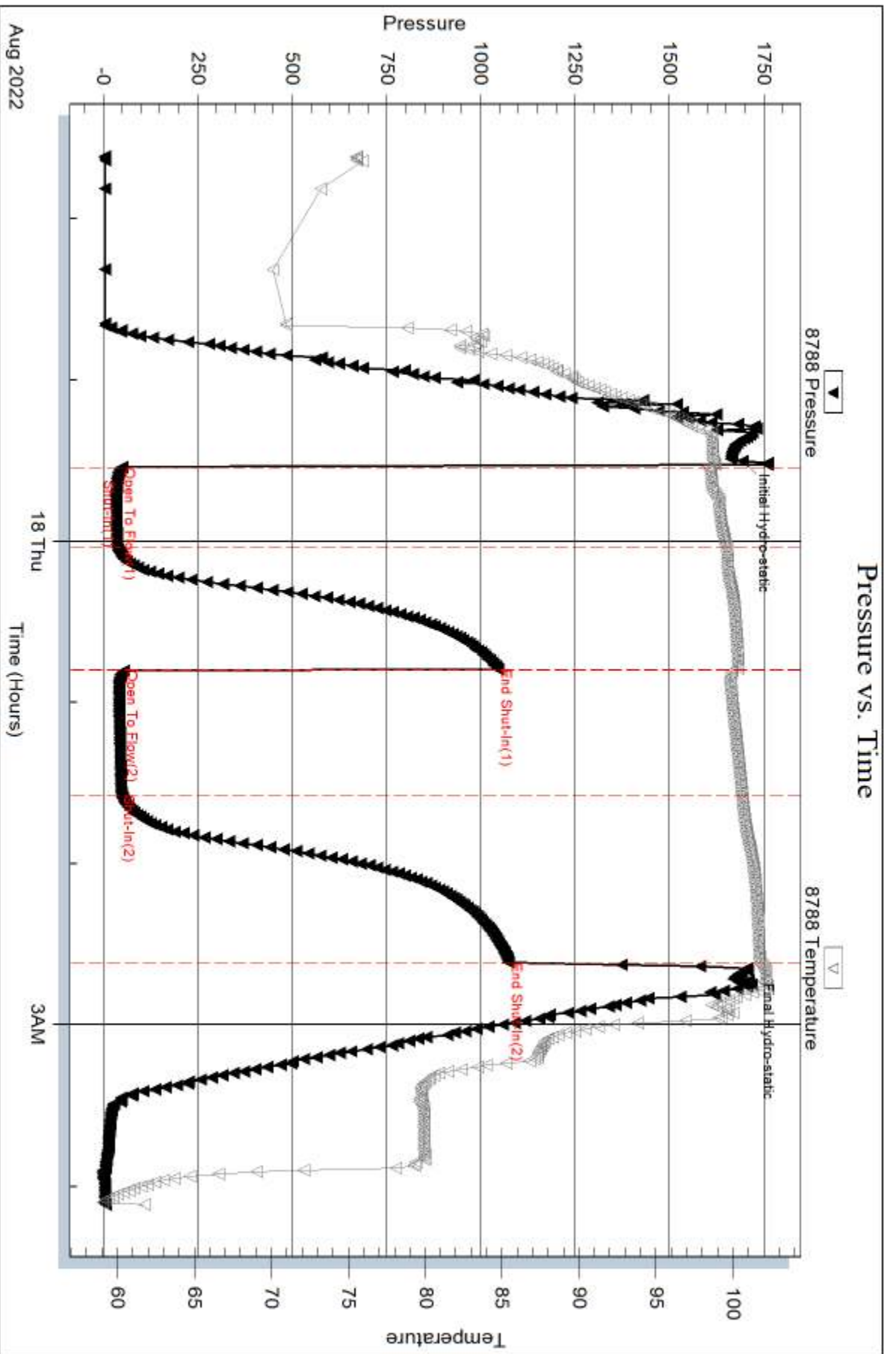
Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: 110 Feet of Gas in Pipe.

TS 5%g 30%o 65%m

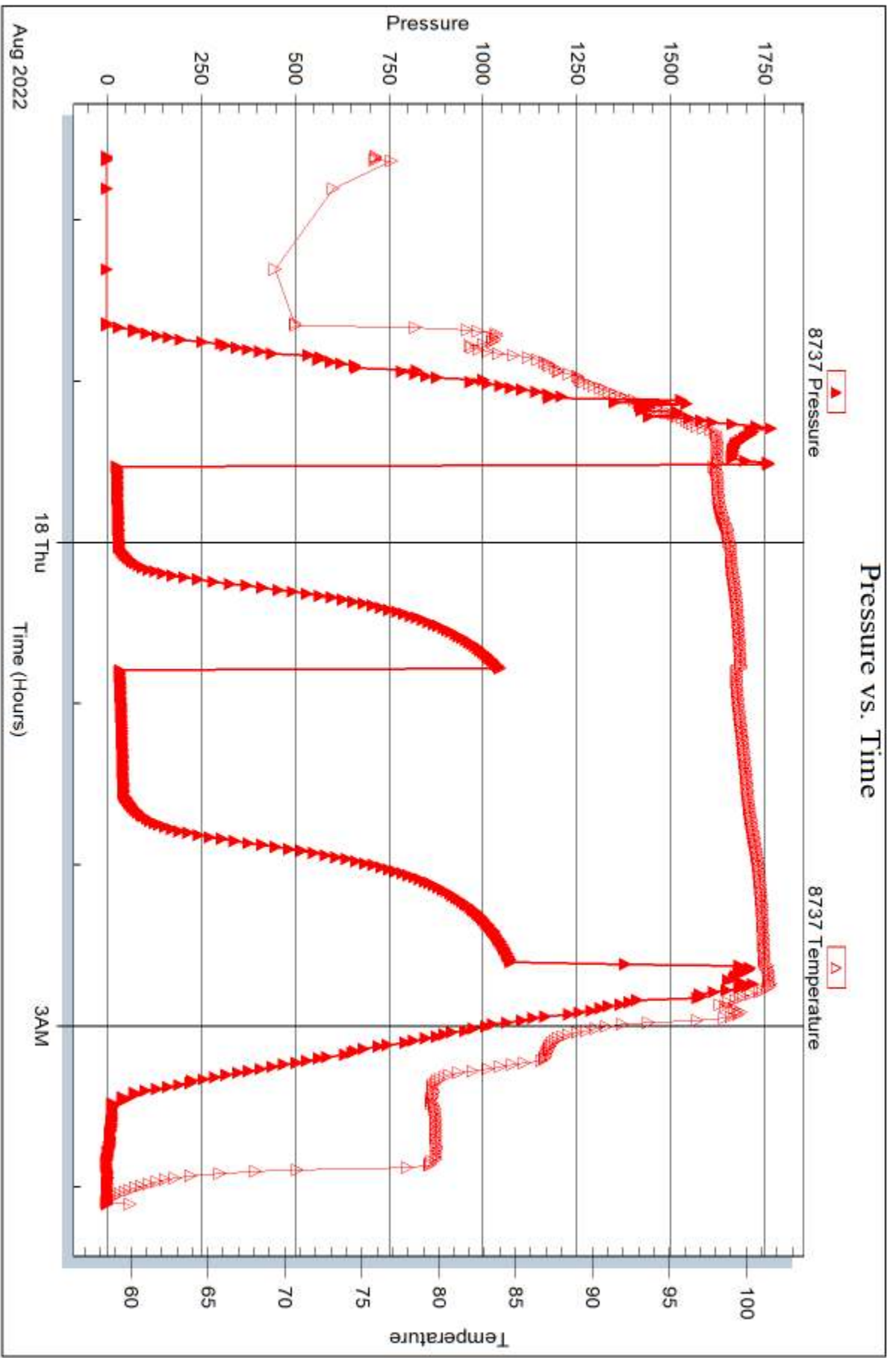


Serial #: 8737

Outside Darrah Oil Company LLC

McDonald #5

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 68667

Printed: 2022.08.23 @ 10:39:09





## DRILL STEM TEST REPORT

Prepared For: **Darrah Oil Company LLC**

125 N Market Suite 1425  
Wichita, KS 67202

ATTN: Roger Martin

### **McDonald #5**

#### **3-21s-13w Stafford,KS**

Start Date: 2022.08.18 @ 13:38:30

End Date: 2022.08.18 @ 17:59:15

Job Ticket #: 68668                      DST #: 5

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

Printed: 2022.08.23 @ 10:36:57



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Darrah Oil Company LLC

**3-21s-13w Stafford,KS**

125 N Market Suite 1425  
Wichita, KS 67202

**McDonald #5**

Job Ticket: 68668

**DST#: 5**

ATTN: Roger Martin

Test Start: 2022.08.18 @ 13:38:30

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:06:45

Time Test Ended: 17:59:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

**Interval: 3491.00 ft (KB) To 3553.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3553.00 ft (KB) (TVD)

1876.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8788** Inside

Press@RunDepth: psig @ 3492.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.18 End Date: 2022.08.18

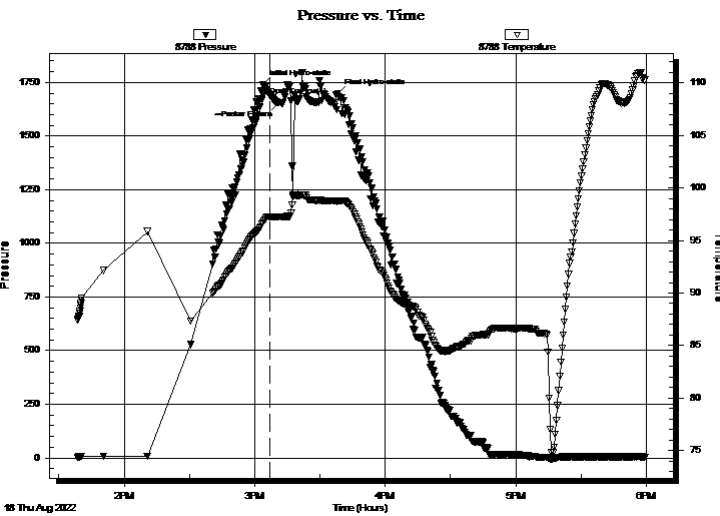
Last Calib.: 2022.08.18

Start Time: 13:38:35 End Time: 17:59:14

Time On Btm: 2022.08.18 @ 15:03:45

Time Off Btm: 2022.08.18 @ 15:38:15

TEST COMMENT: IF: Packer Failure



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1741.14	96.64	Initial Hydro-static
3	1690.36	97.26	Open To Flow (1)
8	1655.40	97.24	--Packer Failure
35	1696.15	98.77	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
451.00	DM	6.33

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Darrah Oil Company LLC

**3-21s-13w Stafford,KS**

125 N Market Suite 1425  
Wichita, KS 67202

**McDonald #5**

Job Ticket: 68668

**DST#: 5**

ATTN: Roger Martin

Test Start: 2022.08.18 @ 13:38:30

## Tool Information

Drill Pipe:	Length: 3485.00 ft	Diameter: 3.80 inches	Volume: 48.89 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.80 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 48.89 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3491.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	93.00 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			3461.00	
Shut In Tool	5.00			3466.00	
Hydraulic tool	5.00			3471.00	
Jars	5.00			3476.00	
EMT	3.00			3479.00	
Safety Joint	3.00			3482.00	
Packer	4.00			3486.00	31.00 Bottom Of Top Packer
Packer	5.00			3491.00	
Stubb	1.00			3492.00	
Recorder	0.00	8788	Inside	3492.00	
Recorder	0.00	8737	Outside	3492.00	
Perforations	3.00			3495.00	
Change Over Sub	1.00			3496.00	
Blank Spacing	31.00			3527.00	
Change Over Sub	1.00			3528.00	
Perforations	22.00			3550.00	
Bullnose	3.00			3553.00	62.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>93.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Darrah Oil Company LLC

**3-21s-13w Stafford,KS**

125 N Market Suite 1425  
Wichita, KS 67202

**McDonald #5**

Job Ticket: 68668

**DST#: 5**

ATTN: Roger Martin

Test Start: 2022.08.18 @ 13:38:30

### 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: 56.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
451.00	DM	6.326

Total Length: 451.00 ft      Total Volume: 6.326 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

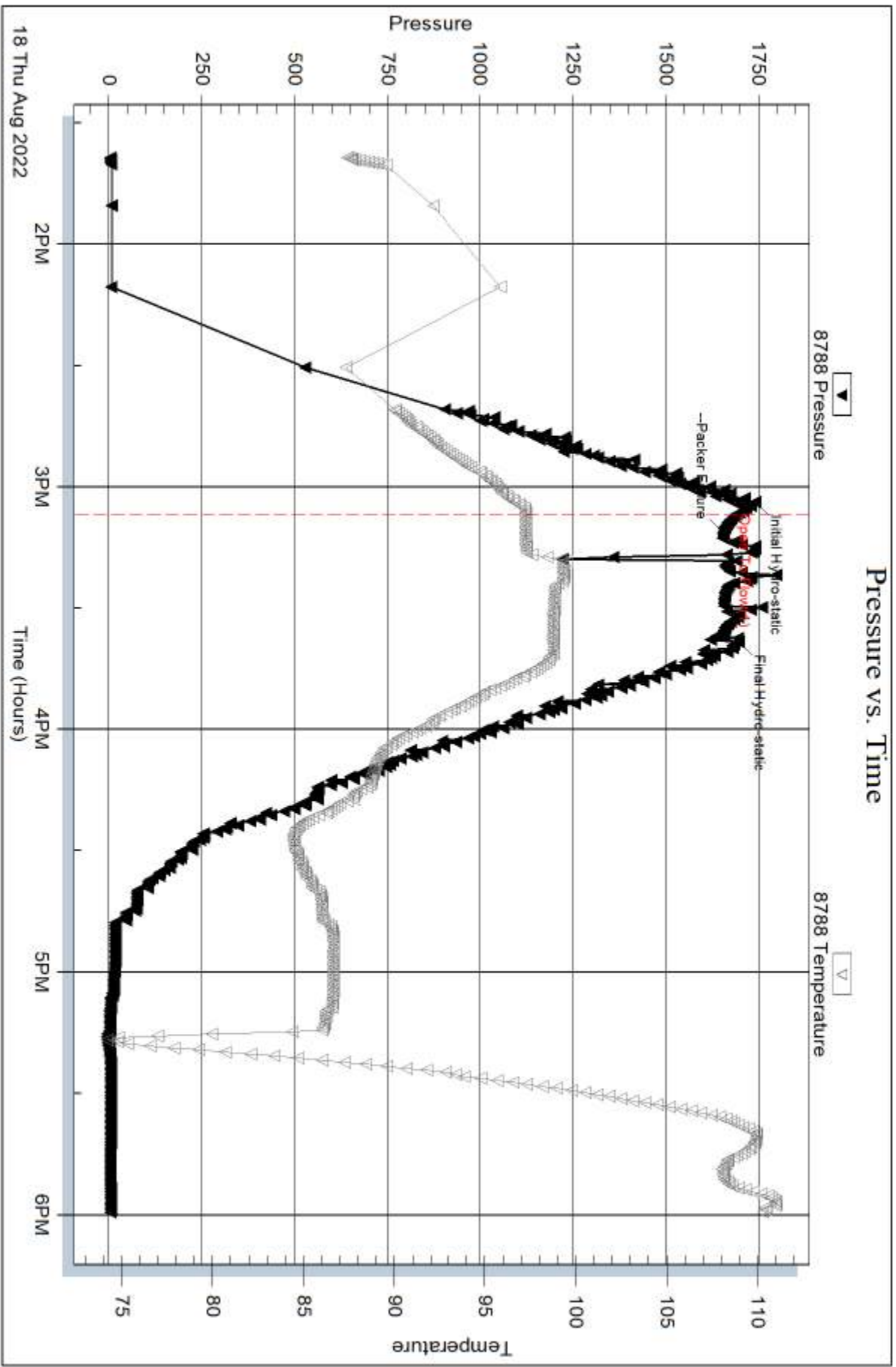
Serial #: 8788

Inside

Darrah Oil Company LLC

McDonald #5

DST Test Number: 5

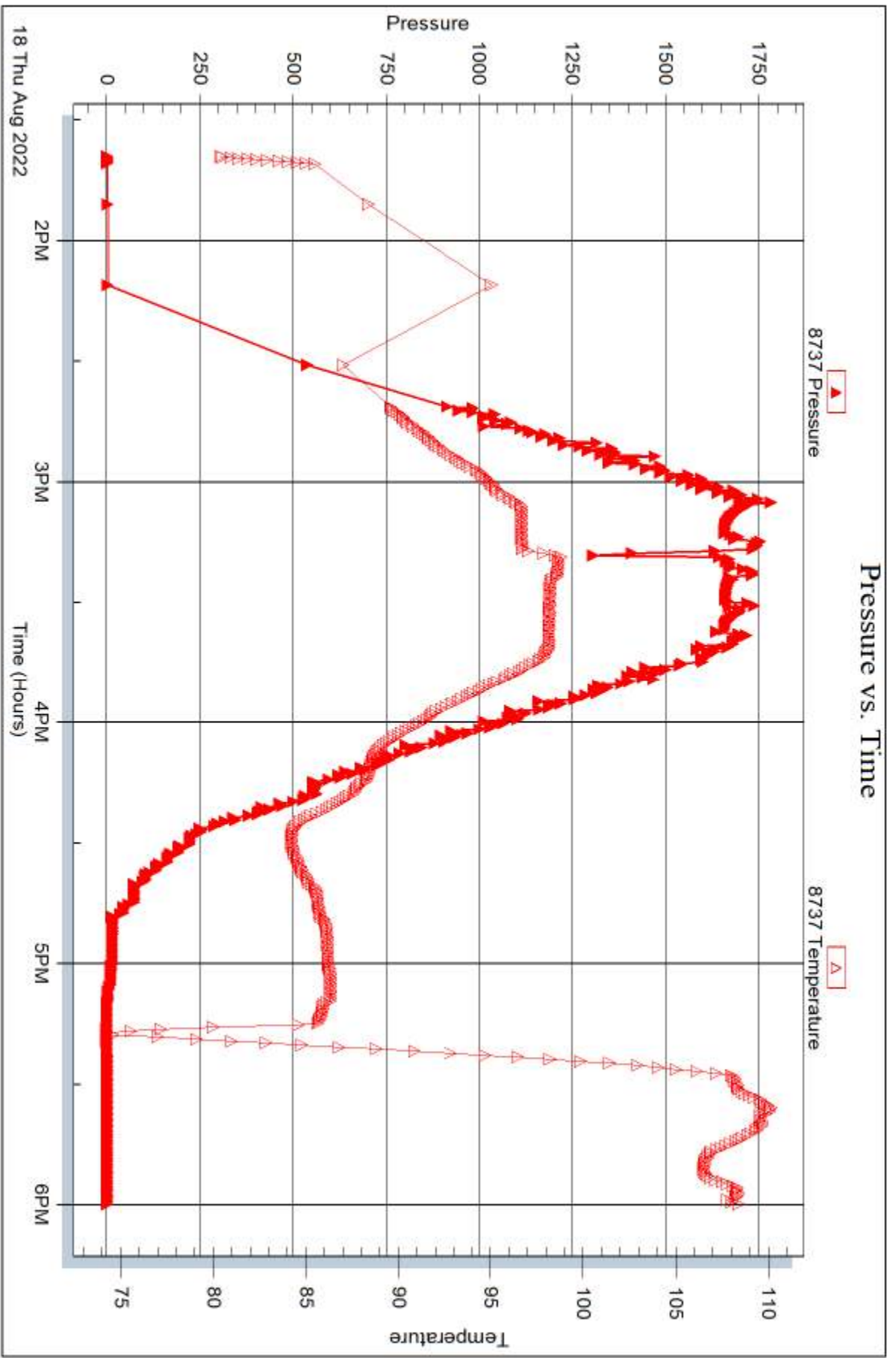


Serial #: 8737

Outside Darrah Oil Company LLC

McDonald #5

DST Test Number: 5





## DRILL STEM TEST REPORT

Prepared For: **Darrah Oil Company LLC**

125 N Market Suite 1425  
Wichita, KS 67202

ATTN: Roger Martin

### **McDonald #5**

#### **3-21s-13w Stafford,KS**

Start Date: 2022.08.19 @ 03:13:41

End Date: 2022.08.19 @ 07:11:41

Job Ticket #: 68669                      DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.08.23 @ 10:35:35





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Darrah Oil Company LLC

**3-21s-13w Stafford,KS**

125 N Market Suite 1425  
Wichita, KS 67202

**McDonald #5**

Job Ticket: 68669

**DST#: 6**

ATTN: Roger Martin

Test Start: 2022.08.19 @ 03:13:41

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 07:11:41

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

**Interval: 3545.00 ft (KB) To 3553.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3553.00 ft (KB) (TVD)

1876.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8788 Inside**

Press@RunDepth: psig @ 3546.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.19 End Date: 2022.08.19

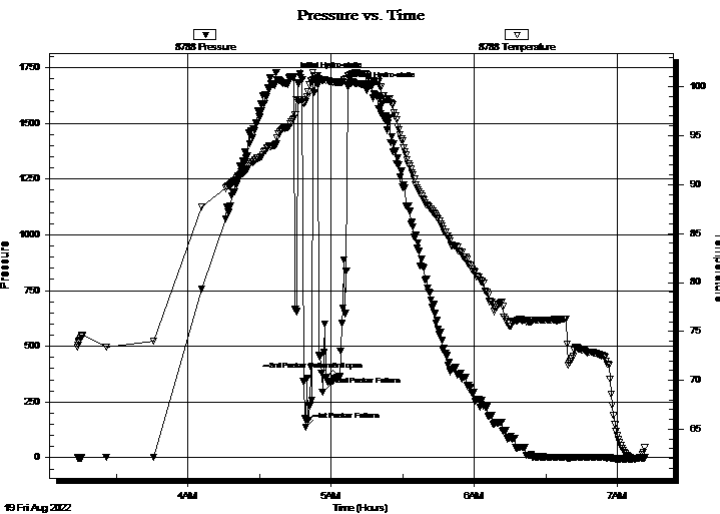
Last Calib.: 2022.08.19

Start Time: 03:13:46 End Time: 07:11:41

Time On Btm: 2022.08.19 @ 04:44:26

Time Off Btm: 2022.08.19 @ 05:06:56

TEST COMMENT: IF: Packer Failure.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1707.37	96.72	Initial Hydro-static
5	135.80	98.51	--1st Packer Failure
12	295.20	100.63	--2nd Packer Failure
14	361.86	100.62	3rd open
20	363.00	100.40	--3rd Packer Failure
23	1663.66	101.08	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
189.00	GVSOCM 5%g 2%o 93%m	2.65
252.00	GOCM 27%g 8%o 65%m	3.53
512.00	DM	7.18

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Darrah Oil Company LLC

**3-21s-13w Stafford,KS**

125 N Market Suite 1425  
Wichita, KS 67202

**McDonald #5**

Job Ticket: 68669

**DST#: 6**

ATTN: Roger Martin

Test Start: 2022.08.19 @ 03:13:41

## Tool Information

Drill Pipe:	Length: 3548.00 ft	Diameter: 3.80 inches	Volume: 49.77 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.80 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 49.77 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3545.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	42.00 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			3515.00	
Shut In Tool	5.00			3520.00	
Hydraulic tool	5.00			3525.00	
Jars	5.00			3530.00	
EMT	3.00			3533.00	
Safety Joint	3.00			3536.00	
Packer	4.00			3540.00	31.00 Bottom Of Top Packer
Packer	5.00			3545.00	
Stubb	1.00			3546.00	
Recorder	0.00	8788	Inside	3546.00	
Recorder	0.00	8737	Outside	3546.00	
Perforations	7.00			3553.00	
Bullnose	3.00			3556.00	11.00 Bottom Packers & Anchor

**Total Tool Length: 42.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Darrah Oil Company LLC

**3-21s-13w Stafford,KS**

125 N Market Suite 1425  
Wichita, KS 67202

**McDonald #5**

Job Ticket: 68669

**DST#: 6**

ATTN: Roger Martin

Test Start: 2022.08.19 @ 03:13:41

### 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: 56.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
189.00	GVSOCM 5%g 2%o 93%m	2.651
252.00	GOCM 27%g 8%o 65%m	3.535
512.00	DM	7.182

Total Length: 953.00 ft

Total Volume: 13.368 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

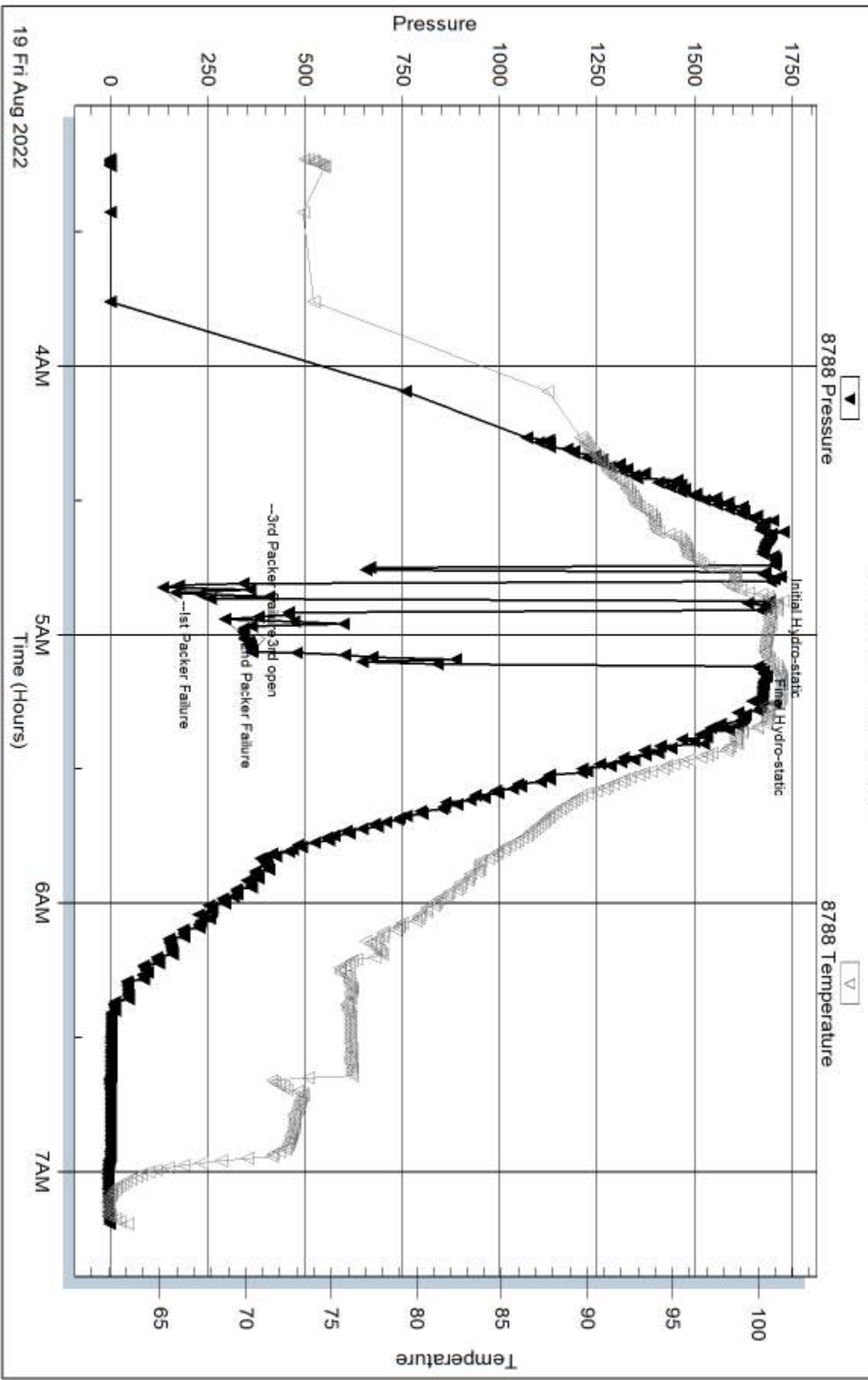
Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

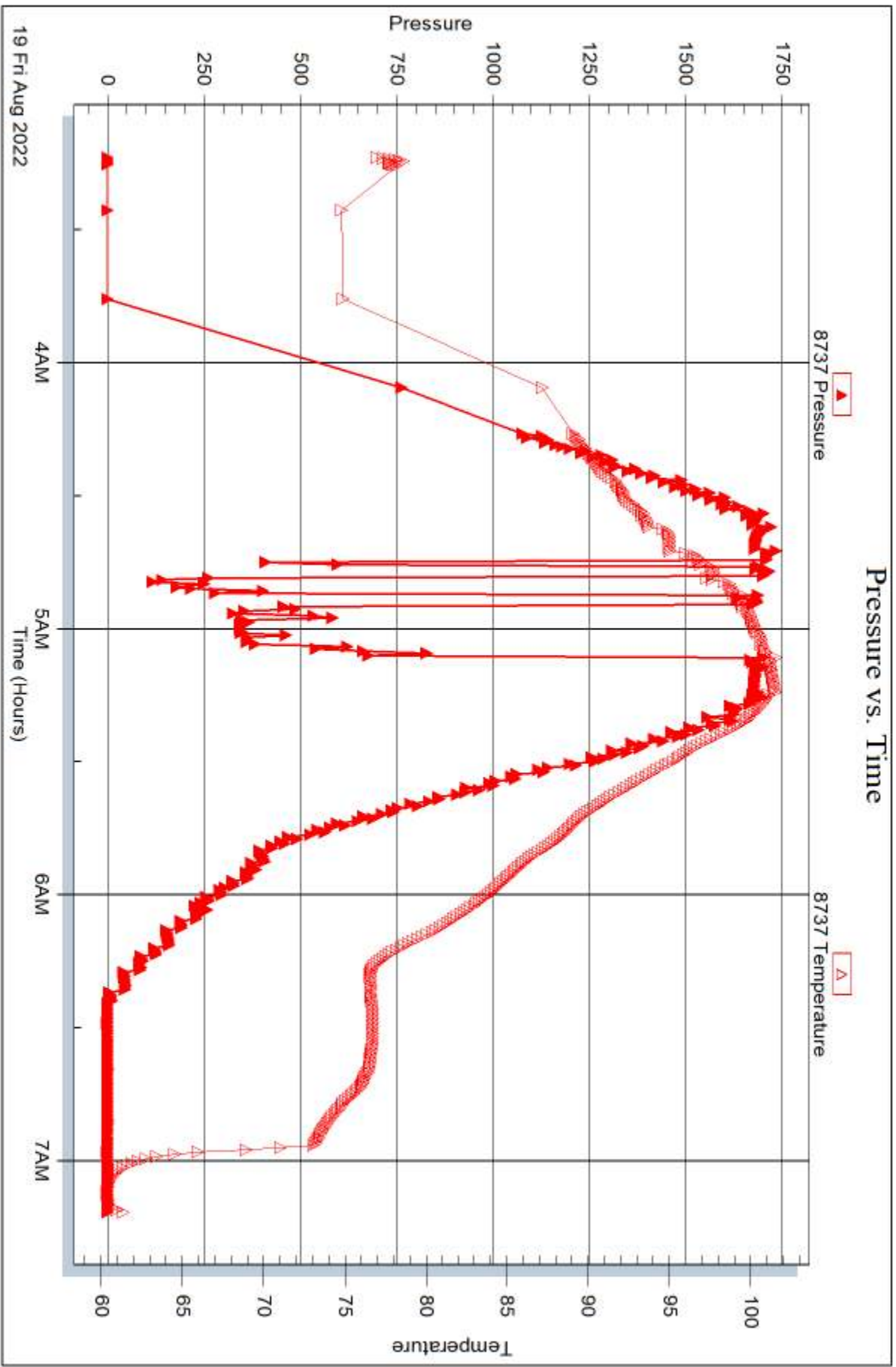


Serial #: 8737

Outside Darrah Oil Company LLC

McDonald #5

DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 68669

Printed: 2022.08.23 @ 10:35:37



## DRILL STEM TEST REPORT

Prepared For: **Darrah Oil Company LLC**

125 N Market Suite 1425  
Wichita, KS 67202

ATTN: Roger Martin

### **McDonald #5**

#### **3-21s-13w Stafford,KS**

Start Date: 2022.08.19 @ 09:14:58

End Date: 2022.08.19 @ 16:07:43

Job Ticket #: 68670                      DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.08.23 @ 10:35:02



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Darrah Oil Company LLC

**3-21s-13w Stafford,KS**

125 N Market Suite 1425  
Wichita, KS 67202

**McDonald #5**

Job Ticket: 68670

**DST#: 7**

ATTN: Roger Martin

Test Start: 2022.08.19 @ 09:14:58

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:48:28

Time Test Ended: 16:07:43

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

**Interval: 3443.00 ft (KB) To 3553.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3553.00 ft (KB) (TVD)

1876.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8788 Inside**

Press@RunDepth: 189.79 psig @ 3444.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.19 End Date: 2022.08.19

Last Calib.: 2022.08.19

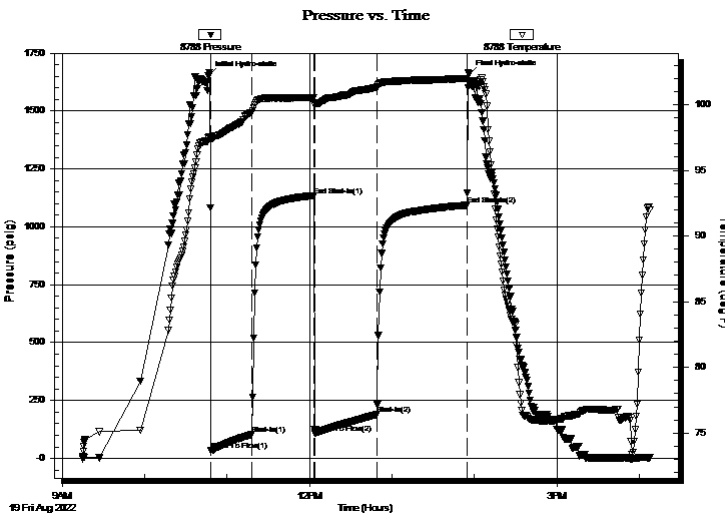
Start Time: 09:15:03 End Time: 16:07:42

Time On Btm: 2022.08.19 @ 10:46:28

Time Off Btm: 2022.08.19 @ 13:56:13

**TEST COMMENT:** IF: Strong Blow . B.O.B. in 13 mins. Built to 20.92 (30)  
IS: Weak Blow . Built to .24". (45)  
FF: Strong Blow . B.O.B. in 18 mins. Built to 30.33". (45)  
FS: Weak Blow . Built to 1.40". (60)

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1650.68	97.45	Initial Hydro-static
2	36.26	97.31	Open To Flow (1)
32	104.75	99.40	Shut-In(1)
77	1134.53	100.56	End Shut-In(1)
78	107.64	100.16	Open To Flow (2)
123	189.79	101.31	Shut-In(2)
188	1093.33	101.99	End Shut-In(2)
190	1656.99	102.35	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
191.00	GOCM 50%g 20%o 30%m	2.68
126.00	GHOCM 50%g 25%o 25%m	1.77
63.00	GHOCM 30%g 30%o 40%m	0.88
15.00	GHOCM 1%g 45%o 55%m	0.21
0.00	441' GIP 100%g	0.00
0.00	TS GMCHO 5%g 45%m 50%o	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**

Darrah Oil Company LLC

**3-21s-13w Stafford,KS**

125 N Market Suite 1425  
Wichita, KS 67202

**McDonald #5**

Job Ticket: 68670

**DST#: 7**

ATTN: Roger Martin

Test Start: 2022.08.19 @ 09:14:58

## Tool Information

Drill Pipe:	Length: 3422.00 ft	Diameter: 3.80 inches	Volume: 48.00 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.80 inches	Volume: 0.00 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 48.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3443.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	110.00 ft			
Tool Length:	141.00 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			3413.00	
Shut In Tool	5.00			3418.00	
Hydraulic tool	5.00			3423.00	
Jars	5.00			3428.00	
EMT	3.00			3431.00	
Safety Joint	3.00			3434.00	
Packer	4.00			3438.00	31.00 Bottom Of Top Packer
Packer	5.00			3443.00	
Stubb	1.00			3444.00	
Recorder	0.00	8788	Inside	3444.00	
Recorder	0.00	8737	Outside	3444.00	
Perforations	3.00			3447.00	
Change Over Sub	1.00			3448.00	
Blank Spacing	94.00			3542.00	
Change Over Sub	1.00			3543.00	
Perforations	7.00			3550.00	
Bullnose	3.00			3553.00	110.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>141.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Darrah Oil Company LLC

**3-21s-13w Stafford,KS**

125 N Market Suite 1425  
Wichita, KS 67202

**McDonald #5**

Job Ticket: 68670

**DST#: 7**

ATTN: Roger Martin

Test Start: 2022.08.19 @ 09:14:58

## 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:

11000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 19.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
191.00	GOCM 50%g 20%o 30%m	2.679
126.00	GHOCM 50%g 25%o 25%m	1.767
63.00	GHOCM 30%g 30%o 40%m	0.884
15.00	GHOCM 1%g 45%o 55%m	0.210
0.00	441' GIP 100%g	0.000
0.00	TS GMCHO 5%g 45%m 50%o	0.000

Total Length: 395.00 ft

Total Volume: 5.540 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: 441 Feet of Gas in Pipe.

Tool Sample GMCHO 5%g 45%m 50%o

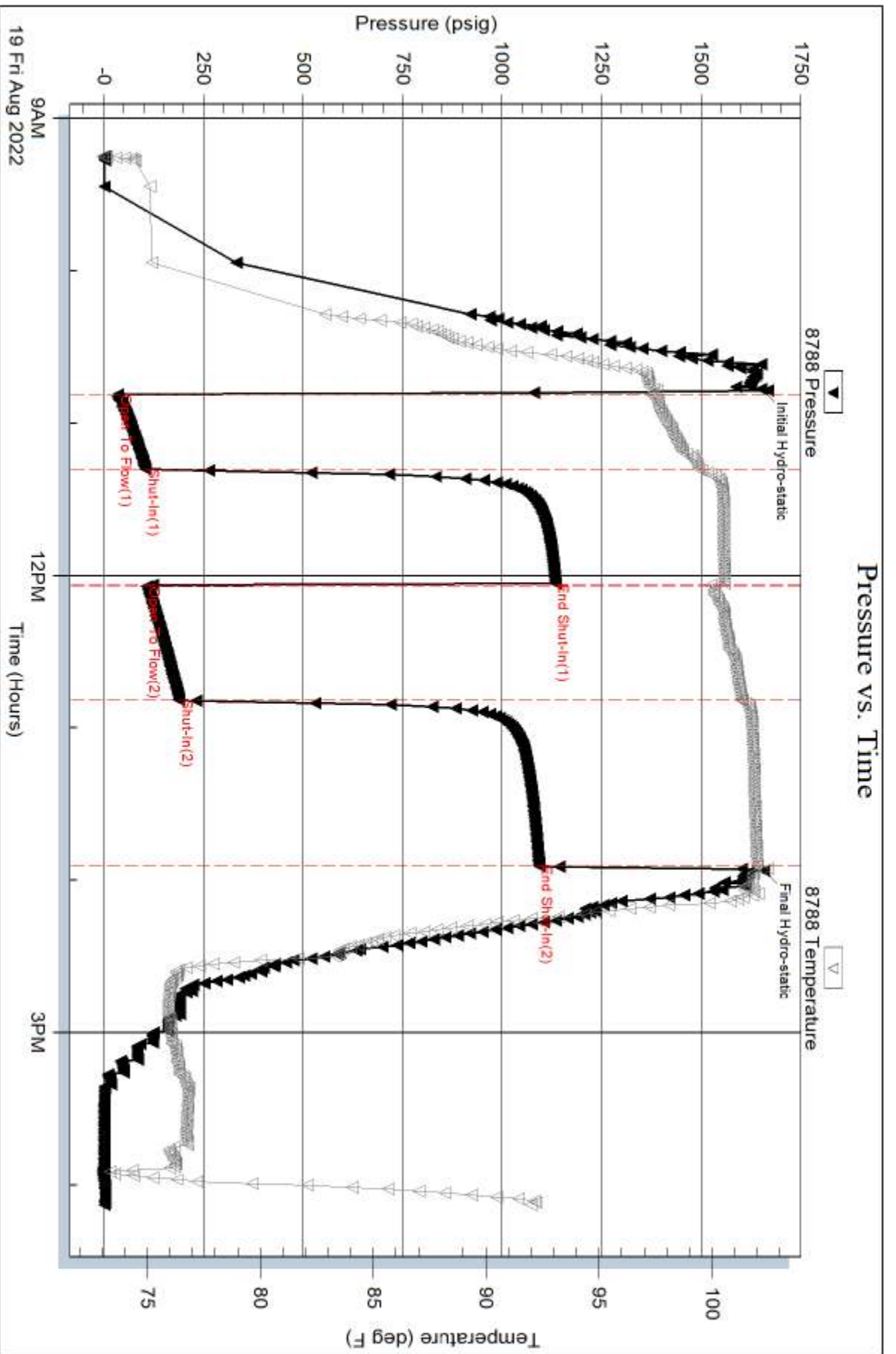
Serial #: 8788

Inside

Darrah Oil Company LLC

McDonald #5

DST Test Number: 7



Tribble Testing, Inc

Ref. No: 68670

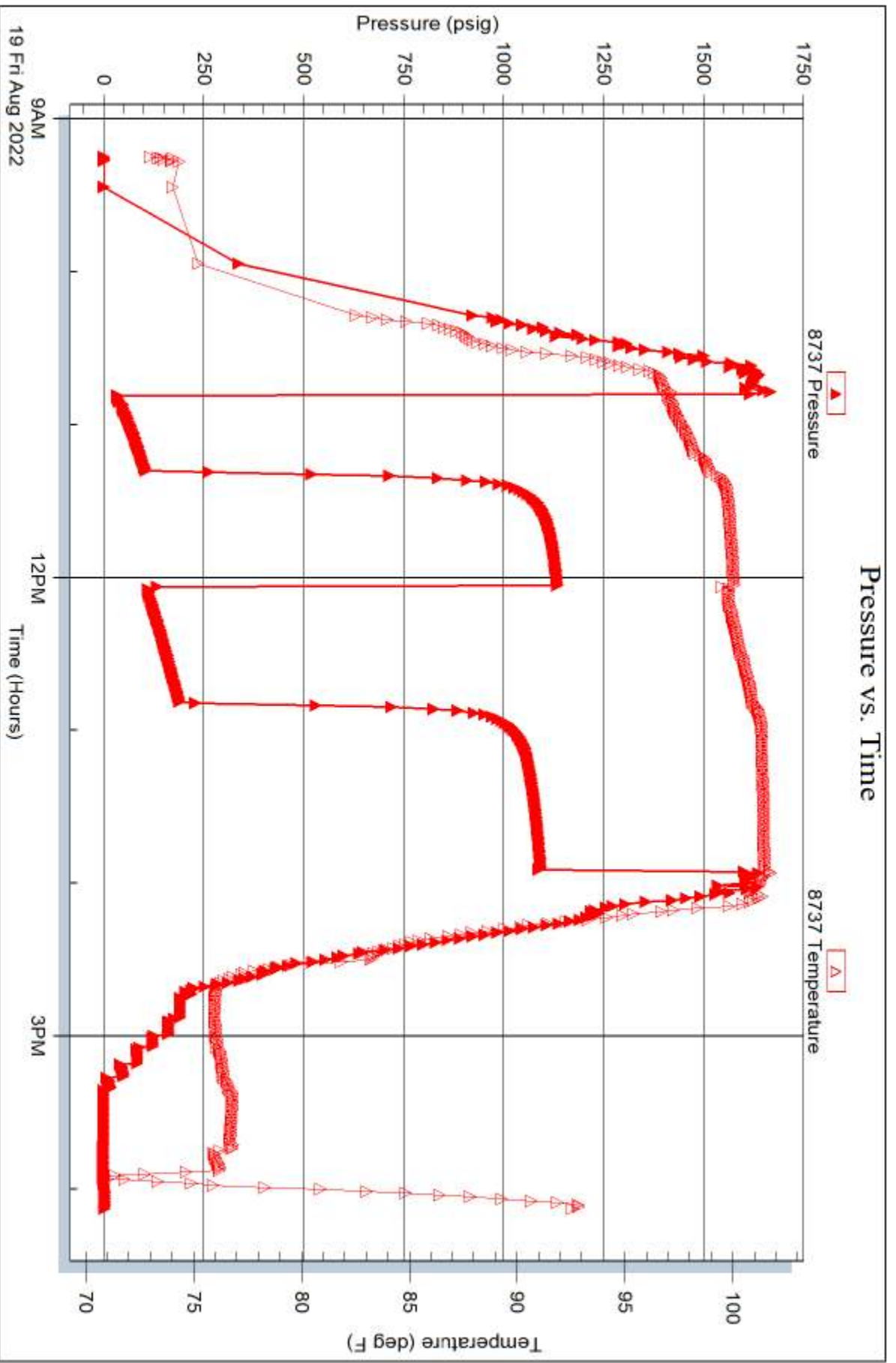
Printed: 2022.08.23 @ 10:35:04

Serial #: 8737

Outside Darrah Oil Company LLC

McDonald #5

DST Test Number: 7



Trilobite Testing, Inc

Ref. No: 68670

Printed: 2022.08.23 @ 10:35:04



# TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68663

Well Name & No. McDonald #5 Test No. 1 Date 8/15/22  
 Company Darrak Oil Company, LLC Elevation \_\_\_\_\_ KB \_\_\_\_\_ GL \_\_\_\_\_  
 Address 125 N. Market Suite 1425 Wichita, KS 67202  
 Co. Rep / Geo. Roger Martin Rig Southwind 1  
 Location: Sec. 3 Twp 21S Rge. \_\_\_\_\_ Co. Stafford State KS.

Interval Tested 3261 - 3335 Zone Tested Lansing A-D  
 Anchor Length 74' Drill Pipe Run 3264 Mud Wt. 9.0  
 Top Packer Depth 3256 Drill Collars Run 0 Vis 6C  
 Bottom Packer Depth 3261 Wt. Pipe Run 0 WL N/A  
 Total Depth 3335 Chlorides N/A ppm System LCM N/A

Blow Description IF: Weak Blow. Built to 1/2".  
ISI: No Blow.  
FF: No Blow.  
FSI: No Blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>GIP</u>	<u>100</u>			
<u>15'</u>	<u>Fluo GOSM</u>	<u>1</u>	<u>&lt;1</u>		<u>99</u>
<u>TS 0</u>	<u>GUSOCM</u>	<u>1</u>	<u>1</u>		<u>98</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 15' Fluo BHT 97° Gravity N/A API RW N/A @ \_\_\_\_\_ °F Chlorides N/A ppm

(A) Initial Hydrostatic <u>1640</u>	<input checked="" type="checkbox"/> Test <u>1800</u>	T-On Location <u>1063</u>
(B) First Initial Flow <u>38</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>1110</u>
(C) First Final Flow <u>29</u>	<input checked="" type="checkbox"/> Safety Joint _____	T-Open <u>1310</u>
(D) Initial Shut-In <u>398</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1550</u>
(E) Second Initial Flow <u>83</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1728</u>
(F) Second Final Flow <u>29</u>	<input checked="" type="checkbox"/> Mileage <u>78<sup>+</sup> prot</u> <u>117</u>	Comments _____
(G) Final Shut-In <u>116</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1602</u>	<input type="checkbox"/> Straddle _____	_____

Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input checked="" type="checkbox"/> EM Tool <u>-350</u>
Initial Shut-In <u>45</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>45</u>	<input type="checkbox"/> Day Standby _____	<input type="checkbox"/> Extra Copies _____
	<input type="checkbox"/> Accessibility _____	Sub Total <u>-350</u>
	Sub Total <u>2467</u>	Total <u>2117</u>

Approved By \_\_\_\_\_ Our Representative Matthew Smith MP/DST Disc't \_\_\_\_\_

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



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68664

Well Name & No. McDonald #5 Test No. 2 Date 8/16/2022  
 Company Darech Oil Company, LLC Elevation 1886 KB 1876 GL  
 Address 125 W. Market Suite 1425 Wichita, KS, 67202  
 Co. Rep / Geo. Roger Martin Rig Southwind 1  
 Location: Sec. 3 Twp 21S Rge. 13W Co. Stafford State KS

Interval Tested 3389 - 3510 Zone Tested KC H-2  
 Anchor Length 121' Drill Pipe Run 3391 Mud Wt. 9.4  
 Top Packer Depth 3384 Drill Collars Run 0 Vls 57  
 Bottom Packer Depth 3389 Wt. Pipe Run 0 WL N/A  
 Total Depth 3510 Chlorides N/A ppm System LCM N/A

Blow Description IF: Weak Blow. Built to 4.07".  
ISI: No Blow.  
FF: Strong Blow. B.O.B. in 43 mins. Built to 12.38".  
FSI: No Blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>217</u>	<u>GIP</u>	<u>100</u>			
<u>35</u>	<u>GOCM</u>	<u>10</u>	<u>8</u>		<u>82</u>
<u>TS</u>	<u>GUSOCM</u>	<u>1</u>	<u>5</u>		<u>94</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 35' Fluid BHT 101° Gravity N/A API RW N/A @ — °F Chlorides N/A ppm  
 (A) Initial Hydrostatic 1694  Test 1800 T-On Location 1400  
 (B) First Initial Flow 39  Jars 300 T-Started 1431  
 (C) First Final Flow 29  Safety Joint T-Open 1612  
 (D) Initial Shut-In 122  Circ Sub T-Pulled 1920  
 (E) Second Initial Flow 38  Hourly Standby T-Out 2109  
 (F) Second Final Flow 35  Mileage 78 Pratt 117 Comments \_\_\_\_\_  
 (G) Final Shut-In 117  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1665  Straddle \_\_\_\_\_  EM Tool -350  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total -350  
 Accessibility \_\_\_\_\_ Total 1867

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 60  
 Sub Total 2217 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Matthew Smith

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68665

Well Name & No. McDonald 5 Test No. 3 Date 8/17/22  
 Company Darrah Oil Company, LLC Elevation 1886 KB 1876 GL  
 Address 25 N. Market Suite 1425 Wichita, KS. 67202  
 Co. Rep / Geo. Roger Martin Rig Southwind 1  
 Location: Sec. 3 Twp 21s Rge. 13W Co. Stafford State Ks.

Interval Tested 3491 - 3541 Zone Tested Arbuckle  
 Anchor Length 50' Drill Pipe Run 3486 Mud Wt. 9.1  
 Top Packer Depth 3486 Drill Collars Run 0 Vls 58  
 Bottom Packer Depth 3491 Wt. Pipe Run 0 WL N/A  
 Total Depth 3541 Chlorides N/A ppm System LCM N/A

Blow Description IF: Weak Blow. Built to 1 1/4" in the Bucket.  
ISI: No Blow.  
FF: Weak Blow. Built to 1.13".  
FSI: No Blow.

Rec	Feet of	%gas	%oil	%water	%mud
32	GIP	100			
3	CO	0	100		
27	GOCM	2	18		80
TS	GUSOCM	1	1		98

Rec Total 30' Fluid BHT 99° Gravity N/A API RW N/A @ — °F Chlorides N/A ppm

- (A) Initial Hydrostatic 1751
- (B) First Initial Flow 46
- (C) First Final Flow 35
- (D) Initial Shut-In 811
- (E) Second Initial Flow 49
- (F) Second Final Flow 36
- (G) Final Shut-In 709
- (H) Final Hydrostatic 1702

- Test 1800
- Jars 300
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage 78 Pratt 17
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 2217

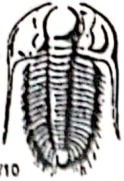
T-On Location 0706  
 T-Started 0732  
 T-Open 0928  
 T-Pulled 1240  
 T-Out 1410

- EM Tool
- Ruined Shale Packer
- Ruined Packer
- Extra Copies
- Sub Total 0
- Total 2217

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 60

Approved By \_\_\_\_\_ Our Representative Matthew Smith MP/DST Disc't \_\_\_\_\_





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68667

Well Name & No. McDonald #5 Test No. 4 Date 8/17/22  
 Company DARRAH Oil Comp Elevation 1886 KB 1876 GL  
 Address 125 N. Market Suite 1425 Wichita, KS, 67202  
 Co. Rep / Geo. Roger Martin Rig Southwind 1  
 Location: Sec. 3 Twp 21s Rge. 13w Co. Stafford State KS.

Interval Tested 3491 - 3546 Zone Tested ARBuckle  
 Anchor Length 55' Drill Pipe Run 3485 Mud Wt. 9.0  
 Top Packer Depth 3486 Drill Collars Run 0 Vis 63  
 Bottom Packer Depth 3491 Wt. Pipe Run 0 WL N/A  
 Total Depth 3546 Chlorides N/A ppm System LCM N/A

Blow Description IF: Weak Blow. Built to 3.44"  
ISI: No Blow.  
FF: Weak Blow. Built to 3.94"  
FSI: No Blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>110</u>	<u>GIP</u>	<u>100</u>			
<u>45</u>	<u>60cm</u>	<u>13</u>	<u>22</u>		<u>65</u>
<u>TS</u>	<u>60cm</u>	<u>5</u>	<u>30</u>		<u>65</u>

Rec Total 45' Fluid BHT 98° Gravity N/A API RW N/A @ N/A °F Chlorides N/A ppm

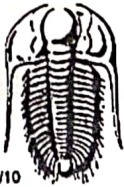
(A) Initial Hydrostatic <u>1695</u>	<input checked="" type="checkbox"/> Test <u>1800</u>	T-On Location <u>2109</u>
(B) First Initial Flow <u>48</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>2136</u>
(C) First Final Flow <u>37</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>2332</u>
(D) Initial Shut-In <u>1047</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0240</u>
(E) Second Initial Flow <u>55</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0406</u>
(F) Second Final Flow <u>48</u>	<input checked="" type="checkbox"/> Mileage <u>78 PRATT 117</u>	Comments
(G) Final Shut-In <u>1076</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1707</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool <u>-350</u>

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 60

Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total -350  
 Total 1867

Sub Total 2217 MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative Matthew Smith  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68668

Well Name & No. McDonald #5 Test No. 5 Date 8/18/22  
 Company Deer Creek Oil Camp Elevation 1886 KB 1876 GL  
 Address 125 N. Market Suite 1425 Wichita, KS. 67202  
 Co. Rep / Geo. Roger Martin Rig Southwind 1  
 Location: Sec. 3 Twp 21S Rge. 13W Co. Stafford State KS.

Interval Tested 3941 - 3553 Zone Tested Arbuckle  
 Anchor Length 62 Drill Pipe Run 3485 Mud Wt. 9.4  
 Top Packer Depth 3986 Drill Collars Run 2 Vls 56  
 Bottom Packer Depth 3941 Wt. Pipe Run 2 WL N/A  
 Total Depth 3553 Chlorides N/A ppm System LCM N/A

Blow Description IF: Packer Failure  
 ISI:  
 FF:  
 FSI:

Rec	Feet of	%gas	%oil	%water	%mud
<u>451</u>	<u>DM</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	Feet of	%gas	%oil	%water	%mud

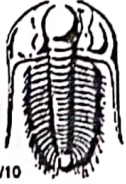
Rec Total 451' DM BHT 92° Gravity N/A API RW N/A @ — °F Chlorides N/A ppm

(A) Initial Hydrostatic 1741  Test 1350 T-On Location 1215  
 (B) First Initial Flow 1690  Jars 300 T-Started 1330  
 (C) First Final Flow 1655 PF  Safety Joint \_\_\_\_\_ T-Open 1506  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub \_\_\_\_\_ T-Pulled 1530  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 1759  
 (F) Second Final Flow \_\_\_\_\_  Mileage 78 PRAU 117 Comments \*Motel Stay\*  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1696  Straddle \_\_\_\_\_  EM Tool -350

Initial Open 20  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In \_\_\_\_\_  Ruined Packer 460  
 Final Flow \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_  Day Standby \_\_\_\_\_ Sub Total 460 - 350  
 Accessibility \_\_\_\_\_ Total 1877

Sub Total 1767 MP/DST Disc't \_\_\_\_\_  
 Approved By \_\_\_\_\_ Our Representative [Signature] / Archie

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68669

Well Name & No. McDonald #5 Test No. 6 Date 08/19/22  
 Company Dartch Oil Comp., LLC Elevation 1886 KB 1876 GL  
 Address 125 N. Market Suite 1425 Wichita, KS, 67202  
 Co. Rep / Geo. Roger Martin Rig Southwind 1  
 Location: Sec. 3 Twp 21S Rge. 13W Co. Stafford State KS.

Interval Tested 3545 - 3553 Zone Tested Arbuckle  
 Anchor Length 8' Drill Pipe Run 3548 Mud Wt. 9.4  
 Top Packer Depth 3540 Drill Collars Run 0 Vls 56  
 Bottom Packer Depth 3545 Wt. Pipe Run 0 WL N/A  
 Total Depth 3553 Chlorides N/A ppm System LCM N/A

Blow Description IF: Packer Failure: Set 3 staves

ISI:

FF:

FSI:

Rec	Feet of	%gas	%oil	%water	%mud
512	Dim			100	
252	60cm	27	8	65	
189	6 US0cm	5	2	93	

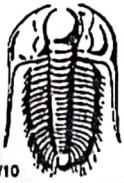
Rec Total 953' Fluid BHT \_\_\_\_\_ Gravity N/A API RW N/A @ \_\_\_\_\_ °F Chlorides N/A ppm

(A) Initial Hydrostatic \_\_\_\_\_  Test 1350 T-On Location 0050  
 (B) First Initial Flow \_\_\_\_\_  Jars 300 T-Started 0313  
 (C) First Final Flow \_\_\_\_\_  Safety Joint \_\_\_\_\_ T-Open 0430  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub \_\_\_\_\_ T-Pulled 0450  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 0711  
 (F) Second Final Flow \_\_\_\_\_  Mileage 117 Comments \* Metal Stays \*  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic \_\_\_\_\_  Straddle \_\_\_\_\_  EM Tool -350  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total -350  
 Accessibility \_\_\_\_\_ Total 1417

Initial Open \_\_\_\_\_  
 Initial Shut-In \_\_\_\_\_  
 Final Flow \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_  
 Sub Total 1767  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Matthew Smith / Ritchie

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



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68670

Well Name & No. Mc Donald #5 Test No. 7 Date 8/19/22  
 Company Daerah Oil Company Elevation 1886 KB 1876 GL  
 Address 125 N. Market Suite 1425 Wichita, KS. 67202  
 Co. Rep / Geo. Roger Martin Rig Southwind 1  
 Location: Sec. 3 Twp 21S Rge. 13W Co. Stafford State KS

Interval Tested 3443 ~ 3553 Zone Tested Arbuckle  
 Anchor Length 110' Drill Pipe Run 3422 Mud Wt. 9.4  
 Top Packer Depth 3438 Drill Collars Run 0 Vls 56  
 Bottom Packer Depth 3443 Wt. Pipe Run 0 WL 20.0"  
 Total Depth 3553 Chlorides 11,000 ppm System LCM  
 Blow Description IF: Strong Blow. B.O.B. in 13 mins. Bwt to 20.92".  
ITS: Weak Blow. Bwt to 24".  
FF: Strong Blow. B.O.B. in 18 mins. Bwt to 30.33".  
FSI: Weak Blow. Bwt to

Rec	Feet of	%gas	%oil	%water	%mud
441	GIP	100%			
15'	GHOCM	1%	44%		55%
63	GHOCM	30%	30%		40%
126	GHOCM	50%	25%		25%
<del>191</del> 191	GOCM	50%	20%		30%

Rec Total 395' Fluid BHT 97° Gravity N/A API RW N/A @ —° F Chlorides 11000 ppm

(A) Initial Hydrostatic <u>1651</u>	<input checked="" type="checkbox"/> Test <u>1800</u>	T-On Location <u>1230</u>
(B) First Initial Flow <u>36</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>0914</u>
(C) First Final Flow <u>105</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>1048</u>
(D) Initial Shut-In <u>1135</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1400</u>
(E) Second Initial Flow <u>108</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1607</u>
(F) Second Final Flow <u>190</u>	<input checked="" type="checkbox"/> Mileage <u>78 Pratt</u> 117	Comments <u>IS - 5%g - 45% m</u>
(G) Final Shut-In <u>1093</u>	<input type="checkbox"/> Sampler	<u>50% on * Motel</u>
(H) Final Hydrostatic <u>1657</u>	<input type="checkbox"/> Straddle	<u>Stay *</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input checked="" type="checkbox"/> EM Tool
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Shale Packer
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Packer
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>2217</u>
	Sub Total <u>2217</u>	MP/DST Disc't

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

# COPELAND

## Acid & Cement

POST OFFICE BOX 438  
 HAYSVILLE, KS 67060  
 (316) 524-1225  
 (316) 524-1027 FAX

**Invoice**

BURRTON, KS    ♦    GREAT BEND, KS  
 (620) 463-5161    (620) 793-3366  
 FAX (620) 463-2104    FAX (620) 793-3536

INVOICE NUMBER:  
 C60652-IN

BILL TO:  
 DARRAH OIL COMPANY LLC  
 PO BOX 2786  
 WICHITA, KS 67202-2786

LEASE: MCDONALD 5

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
08/29/2022	60652		08/20/2022	MCDONALD 5	NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
		NEW WELL				
20.00	MI	MILEAGE CEMENT PUMP TRUCK		0.00	6.00	120.00
1.00	EA	PUMP CHARGE LONG STRING		0.00	1,650.00	1,650.00
225.00	SK	60/40 POZ MIX 2% GEL		0.00	13.25	2,981.25
150.00	EACH	DEFOAMER C41-P		0.00	4.75	712.50
50.00	LB	FLUID LOSS C-12		0.00	7.00	350.00
150.00	LB	FRICTION REDUCER C-37		0.00	5.00	750.00
1,050.00	LB	FINE SALT		0.00	0.75	787.50
900.00	LB	GILSONITE		0.00	1.50	1,350.00
5.00	EA	5 1/2 TURBO-CENTRALIZER		0.00	85.00	425.00
1.00	EA	5 1/2" BASKET		0.00	155.00	155.00
1.00	EA	LATCH DOWN PLUG & BATTLE		0.00	175.00	175.00
1.00	EA	AUTO FILL ASSEMBLY		0.00	70.00	70.00
1.00	EA	INSERT FLOAT SHOE		0.00	285.00	285.00
500.00	GAL	MUD FLUSH		0.00	1.00	500.00

Continued

# COPELAND

**Acid & Cement**

POST OFFICE BOX 438  
 HAYSVILLE, KS 67060  
 (316) 524-1225  
 (316) 524-1027 FAX

**Invoice**

BURRTON, KS    GREAT BEND, KS  
 (620) 463-5161    (620) 793-3366  
 FAX (620) 463-2104    FAX (620) 793-3536

INVOICE NUMBER:  
**C60652-IN**

**BILL TO:**  
 DARRAH OIL COMPANY LLC  
 PO BOX 2786  
 WICHITA, KS 67202-2786

LEASE: MCDONALD 5

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
08/29/2022	60652		08/20/2022	MCDONALD 5	NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
271.00	EA	BULK CHARGE		0.00	1.25	338.75
119.24	MI	BULK TRUCK - TON MILES		0.00	1.85	220.59
<b>REMIT TO:</b> P.O. BOX 438 HAYSVILLE, KS 67060		COP		Net Invoice:		10,870.59
RECEIVED BY _____		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		STFCO Sales Tax:		640.59
				Invoice Total:		<u>11,511.18</u>
		<b>NET 30 DAYS</b>				

There will be a charge of 1.5% "per month" (18% annual rate) on all accounts over 30 days pas

Copeland Acid & Cement is a subsidiary of Gressel Oil Field Service

Gressel Oil Field Service reserves a security interest in the goods sold until the same are paid for in full and reserve all the rights of a secured party under the Uniform Commercial Code.

# COPELAND

## Acid & Cement



### NEW WELL

BOX 438 - HAYSVILLE, KANSAS 67060  
316-524-1225

FIELD  
ORDER

N° C 60652

DATE 20-Aug 20 22

IS AUTHORIZED BY: DARRAH OIL (NAME OF CUSTOMER)

Address \_\_\_\_\_ City \_\_\_\_\_ State KS

TO TREAT WELL  
AS FOLLOWS Lease MCDONALD Well No. 5 Customer Order No. \_\_\_\_\_

Sec. Twp. \_\_\_\_\_  
Range \_\_\_\_\_ County STAFFORD State KS

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid is to service or treat at owners risk, the hereinbefore mentioned well and is not to be held liable for any damage that may occur in connection with said service or treatment. Copeland Acid Service has made no representation, expressed or implied, and no representations have been relied on, as to what may be the results or effect of the servicing or treating said well. The consideration of said service or treatment is payable. There will be no discount allowed subsequent to such date. 6% interest will be charged after 60 days. Total charges are subject to correction by our invoicing department in accordance with latest published price schedules.

The undersigned represents himself to be duly authorized to sign this order for well owner or operator.

THIS ORDER MUST BE SIGNED  
BEFORE WORK IS COMMENCED \_\_\_\_\_ By \_\_\_\_\_  
Well Owner or Operator Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
20.0002	20	Mileage P.T.	\$6.00	\$120.00
20.0007	1	Pump Charge Long String	\$1,650.00	\$1,650.00
20.1002	225	60/40 Poz 2% Gel	\$13.25	\$2,981.25
20.1008	150	C-41P per lb. Defoamer	\$4.75	\$712.50
20.1009	50	C-12 per lb. Fluid Loss	\$7.00	\$350.00
20.101	150	C-37 per lb. Friction Reducer	\$5.00	\$750.00
20.1015	1050	Fine Salt per lb.	\$0.75	\$787.50
20.1016	900	Gilsonite per lb.	\$1.50	\$1,350.00
20.2002	5	5 1/2" Turbo-Centralizer	\$85.00	\$425.00
20.2006	1	5 1/2" Basket	\$155.00	\$155.00
20.2009	1	Latch Down Plug & Baffle	\$175.00	\$175.00
20.2011	1	Auto Fill Assembly	\$70.00	\$70.00
20.2012	1	Insert Float Shoe	\$285.00	\$285.00
20.1018	500	Mud Flush per gal	\$1.00	\$500.00
20.0011	271	Bulk Charge	\$1.25	\$338.75
20.0012	119.24	Bulk Truck Miles	\$1.85	\$220.59
		Process License Fee on Gallons		
		<b>TOTAL BILLING</b>		<b>\$10,870.59</b>

I certify that the above material has been accepted and used; that the above service was performed in a good and workmanlike manner under the direction, supervision and control of the owner, operator or his agent, whose signature appears below.

Copeland Representative GREG C.

Station GB

ROGER MARTIN

Well Owner, Operator or Agent

Remarks \_\_\_\_\_

**NET 30 DAYS**



TREATMENT REPORT

Acid Stage No. \_\_\_\_\_

Date 8/20/2022 District GB F.O. No. C60652  
 Company DARRAH OIL  
 Well Name & No. MCDONALD #5  
 Location \_\_\_\_\_ Field \_\_\_\_\_  
 County STAFFORD State KS

Casing: Size 5 1/2 Type & Wt. 14# Set at 3532' ft.  
 Formation: \_\_\_\_\_ Perf. \_\_\_\_\_ to \_\_\_\_\_  
 Formation: \_\_\_\_\_ Perf. \_\_\_\_\_ to \_\_\_\_\_  
 Formation: \_\_\_\_\_ Perf. \_\_\_\_\_ to \_\_\_\_\_  
 Liner: Size \_\_\_\_\_ Type & Wt. \_\_\_\_\_ Top at \_\_\_\_\_ ft. Bottom at \_\_\_\_\_ ft.  
 Cemented:  Yes Perforated from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Tubing: Size & Wt. \_\_\_\_\_ Swung at \_\_\_\_\_ ft.  
 Perforated from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Type Treatment:	Amt.	Type Fluid	Sand Size	Pounds of Sand
Bkdown	_____ Bbl./Gal.			
	_____ Bbl./Gal.			
	_____ Bbl./Gal.			
	_____ Bbl./Gal.			
Flush	_____ Bbl./Gal.			
Treated from _____ ft. to _____ ft.				No. ft. <u>0</u>
from _____ ft. to _____ ft.				No. ft. <u>0</u>
from _____ ft. to _____ ft.				No. ft. <u>0</u>
Actual Volume of Oil / Water to Load Hole: _____				Bbl./Gal.
Pump Trucks.	No. Used: <u>320</u>	Std. _____ Sp. _____	Twin _____	
Auxiliary Equipment		<u>327</u>		
Personnel <u>GREG CLARENCE JOE</u>				
Auxiliary Tools _____				
Plugging or Sealing Materials: Type _____				
				Gals. _____ lb. _____

Open Hole Size \_\_\_\_\_ T.D. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

Company Representative ROGER MARTIN Treater GREG C.

TIME	PRESSURES		Total Fluid Pumped	REMARKS
	Tubing	Casing		
8:30				ON LOCATION
				PIPE TD: 3532' INSERT: 3512'
				CENTRALIZERS ON TOP OF JTS: 2, 4, 6, 10, 15
				BASKET ON TOP OF JT 3
				CIRCULATE FOR 1 HOUR
				PUMP 500 GALS MUD FLUSH
				PLUG RATHOLE WITH 30 SKS AND PLUG MOUSEHOLE WITH 20 SKS.
				MIX 175 SKS 60/40 2% GEL, 3/4% C-41P, 1/4% C-12, 3/4% C-37, 5#/SK GIL.
				6#/SK SALT
				PUMP LINE AND PUMP CLEAN, RELEASE PLUG
				DISPLACE WITH 85.7 BBLs
4:15				PLUG LANDED @ 1500#, PLUG HELD. PLUG DOWN
4:30				JOB COMPLETE
				THANK YOU!!!



# COPELAND

## Acid & Cement

BURRTON, KS    ♦    GREAT BEND, KS  
 (620) 463-5161    (620) 793-3366  
 FAX (620) 463-2104    FAX (620) 793-3536

POST OFFICE BOX 438  
 HAYSVILLE, KS 67060  
 (316) 524-1225  
 (316) 524-1027 FAX

**Invoice**

INVOICE NUMBER:  
**C60634-IN**

**BILL TO:**  
 DARRAH OIL COMPANY LLC  
 PO BOX 2786  
 WICHITA, KS 67202-2786

LEASE: MCDONALD #5

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
08/15/2022	60634		08/11/2022	MCDONALD #5	NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
		NEW WELL				
20.00	MI	MILEAGE CEMENT PUMP TRUCK		0.00	6.00	120.00
1.00	EA	PUMP CHARGE SURFACE		0.00	1,150.00	1,150.00
225.00	SK	COMMON CEMENT		0.00	16.75	3,768.75
13.00	SK	CALCIUM CHLORIDE		0.00	42.00	546.00
238.00	EA	BULK CHARGE		0.00	1.25	297.50
111.86	MI	BULK TRUCK - TON MILES		0.00	1.85	206.94
<b>REMIT TO:</b> P.O. BOX 438 HAYSVILLE, KS 67060		COP		Net Invoice: 6,089.19		
		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		STFCO Sales Tax: 323.61		
<b>RECEIVED BY</b>		<b>NET 30 DAYS</b>		<b>Invoice Total:</b>		<b>6,412.80</b>

There will be a charge of 1.5% "per month" (18% annual rate) on all accounts over 30 days pas

Copeland Acid & Cement is a subsidiary of Grossef Oil Field Service

Grossef Oil Field Service reserves a security interest in the goods sold until the same are paid for in full and reserve all the rights of a secured party under the Uniform Commercial Code.









**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Darrah Oil Company LLC

**3-21s-13w Stafford Ks**

125 N Market Suite 1425  
Wichita, Ks. 67202

**McDonald 5**

Job Ticket: 68663

**DST#: 1**

ATTN: Roger Martin

Test Start: 2022.08.15 @ 11:10:40

## GENERAL INFORMATION:

Formation: **Lansing A-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:10:40

Time Test Ended: 17:28:10

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

**Interval: 3261.00 ft (KB) To 3335.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3335.00 ft (KB) (TVD)

1876.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8788 Inside**

Press@RunDepth: 29.24 psig @ 3262.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.15 End Date: 2022.08.15

Last Calib.: 2022.08.15

Start Time: 11:10:45 End Time: 17:28:09

Time On Btm: 2022.08.15 @ 13:08:25

Time Off Btm: 2022.08.15 @ 15:45:10

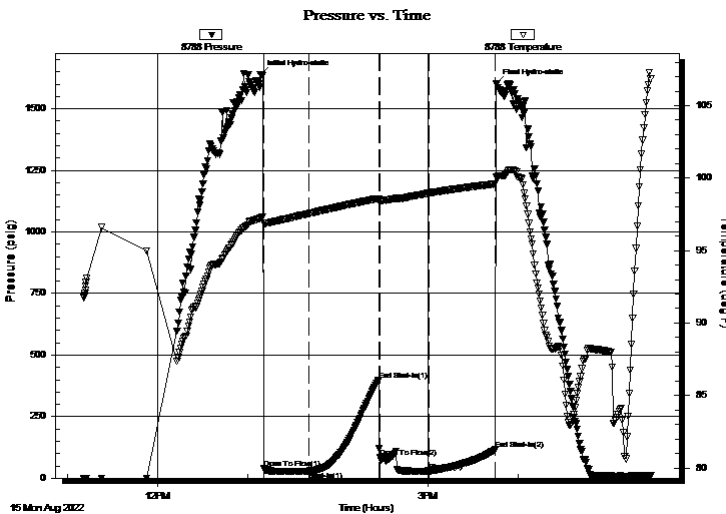
TEST COMMENT: IF: Weak Blow . Built to .59". (30)

IS: No Blow . (45)

FF: No Blow . (30)

FS: No Blow . (45)

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1640.17	97.25	Initial Hydro-static
3	38.01	96.88	Open To Flow (1)
33	28.66	97.55	Shut-In(1)
79	398.11	98.59	End Shut-In(1)
80	82.86	98.48	Open To Flow (2)
112	29.24	98.96	Shut-In(2)
156	115.48	99.59	End Shut-In(2)
157	1602.48	100.06	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	GOSM 1%g <1%o >99%m	0.21
0.00	TS GVSOCM 1%g 1%o 98%m	0.00
0.00	31' GIP	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Darrah Oil Company LLC

**3-21s-13w Stafford Ks**

125 N Market Suite 1425  
Wichita, Ks. 67202

**McDonald 5**

Job Ticket: 68663

**DST#: 1**

ATTN: Roger Martin

Test Start: 2022.08.15 @ 11:10:40

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	GOSM 1%g <1%o >99%m	0.210
0.00	TS GVSOCM 1%g 1%o 98%m	0.000
0.00	31' GIP	0.000

Total Length: 15.00 ft      Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: 31 Feet of Gas in Pipe.

Tool Sample GVSOCM 1%g 1%o 98%m

Serial #: 8788

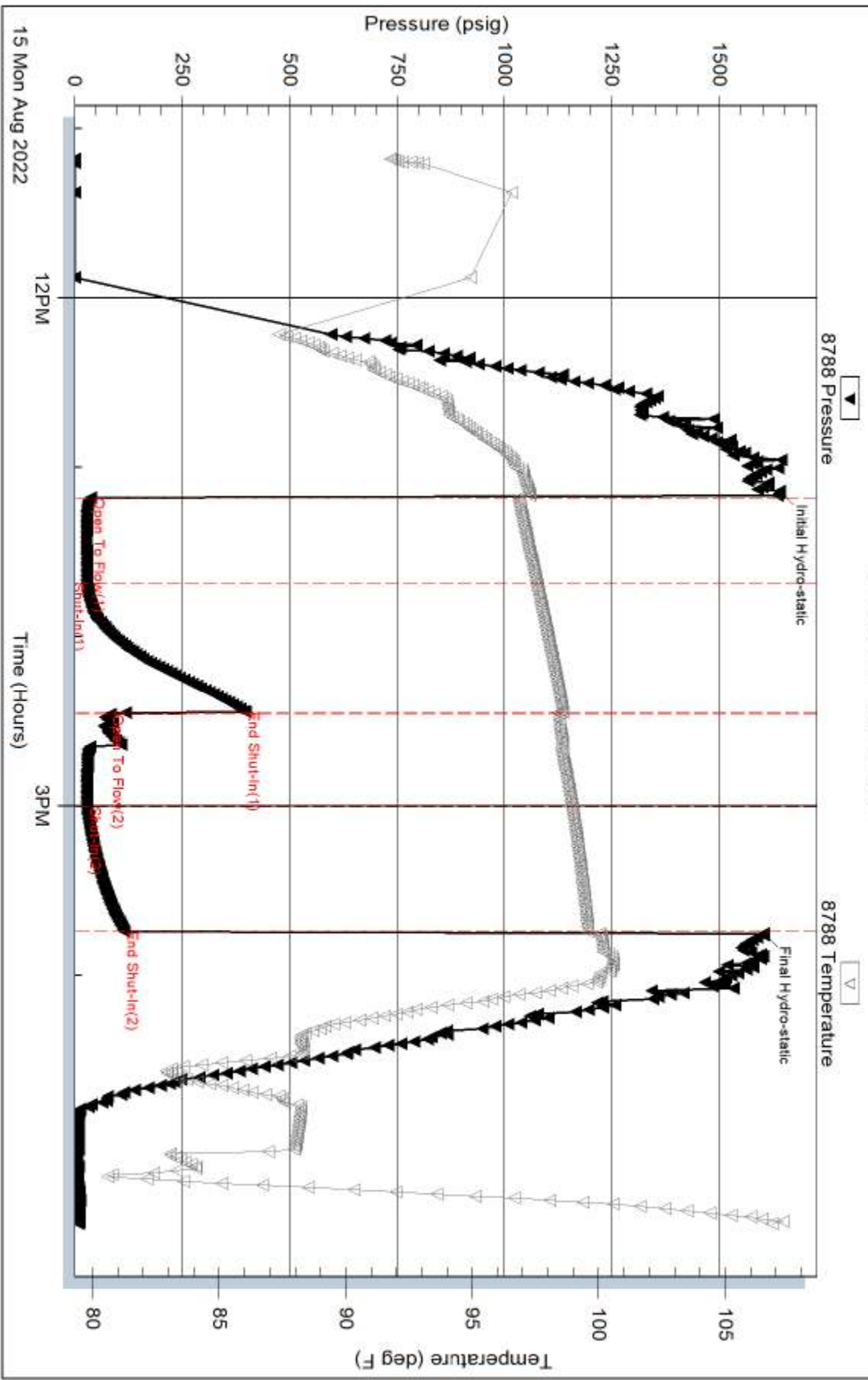
Inside

Darrah Oil Company LLC

McDonald 5

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 68663

Printed: 2022.08.15 @ 18:25:14



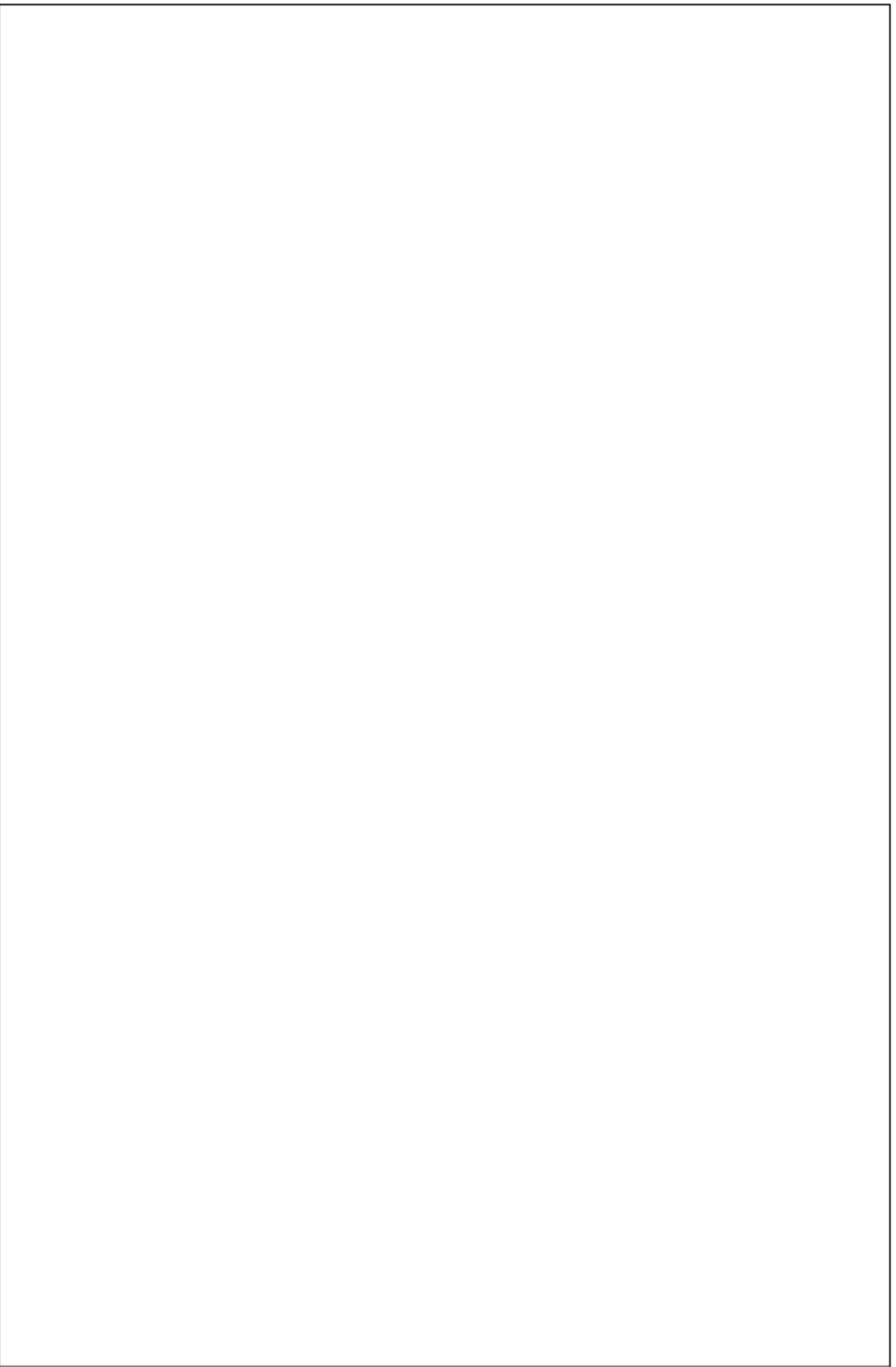
Serial #: 8737

Outside

Darrah Oil Company LLC

McDonald 5

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 68663

Printed: 2022.08.15 @ 18:25:14



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Darrah Oil Company LLC

**3-21s-13w Stafford Ks**

125 N Market Suite 1425  
Wichita, Ks. 67202

**McDonald 5**

Job Ticket: 68664

**DST#: 2**

ATTN: Roger Martin

Test Start: 2022.08.16 @ 14:31:35

## GENERAL INFORMATION:

Formation: **KC H-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:12:50

Time Test Ended: 21:09:05

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

**Interval: 3389.00 ft (KB) To 2510.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3510.00 ft (KB) (TVD)

1876.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8788**

**Inside**

Press@RunDepth: 34.96 psig @ 3390.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.16

End Date:

2022.08.16

Last Calib.:

2022.08.16

Start Time: 14:31:40

End Time:

21:09:04

Time On Btm:

2022.08.16 @ 16:09:05

Time Off Btm:

2022.08.16 @ 19:20:20

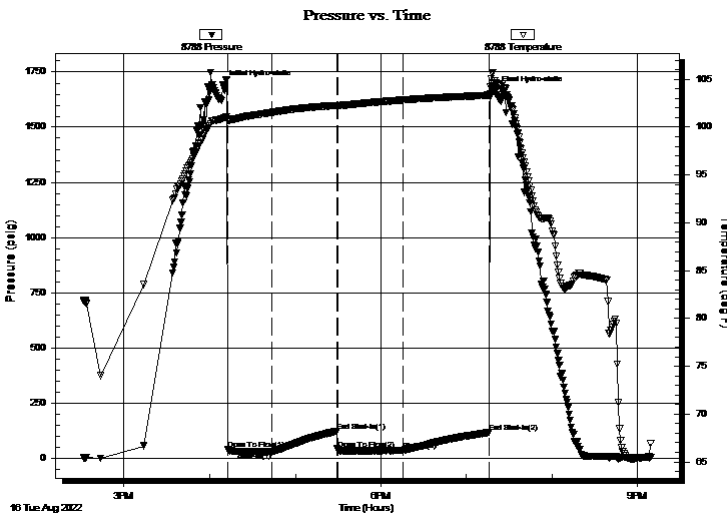
TEST COMMENT: IF: Weak Blow . Built to 4.07". (30)

IS: No Blow . (45)

FF: Strong Blow . B.O.B. in 43 mins. Built to 12.38". (45)

FS: No Blow . (60)

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1693.71	100.91	Initial Hydro-static
4	38.60	100.67	Open To Flow (1)
35	29.15	101.53	Shut-In(1)
80	121.83	102.27	End Shut-In(1)
81	37.84	102.24	Open To Flow (2)
127	34.96	102.84	Shut-In(2)
187	117.12	103.33	End Shut-In(2)
192	1665.85	104.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
35.00	GOCM 10%g 8%o 82%m	0.49
0.00	TS GVSOCM 1%g 5%o 94%m	0.00
0.00	217' GIP 100%g	0.00

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Darrah Oil Company LLC

**3-21s-13w Stafford Ks**

125 N Market Suite 1425  
Wichita, Ks. 67202

**McDonald 5**

Job Ticket: 68664

**DST#: 2**

ATTN: Roger Martin

Test Start: 2022.08.16 @ 14:31:35

### 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: 57.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	GOCM 10%g 8%o 82%m	0.491
0.00	TS GVSOCM 1%g 5%o 94%m	0.000
0.00	217' GIP 100%g	0.000

Total Length: 35.00 ft      Total Volume: 0.491 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: 217 Feet of Gas in Pipe.

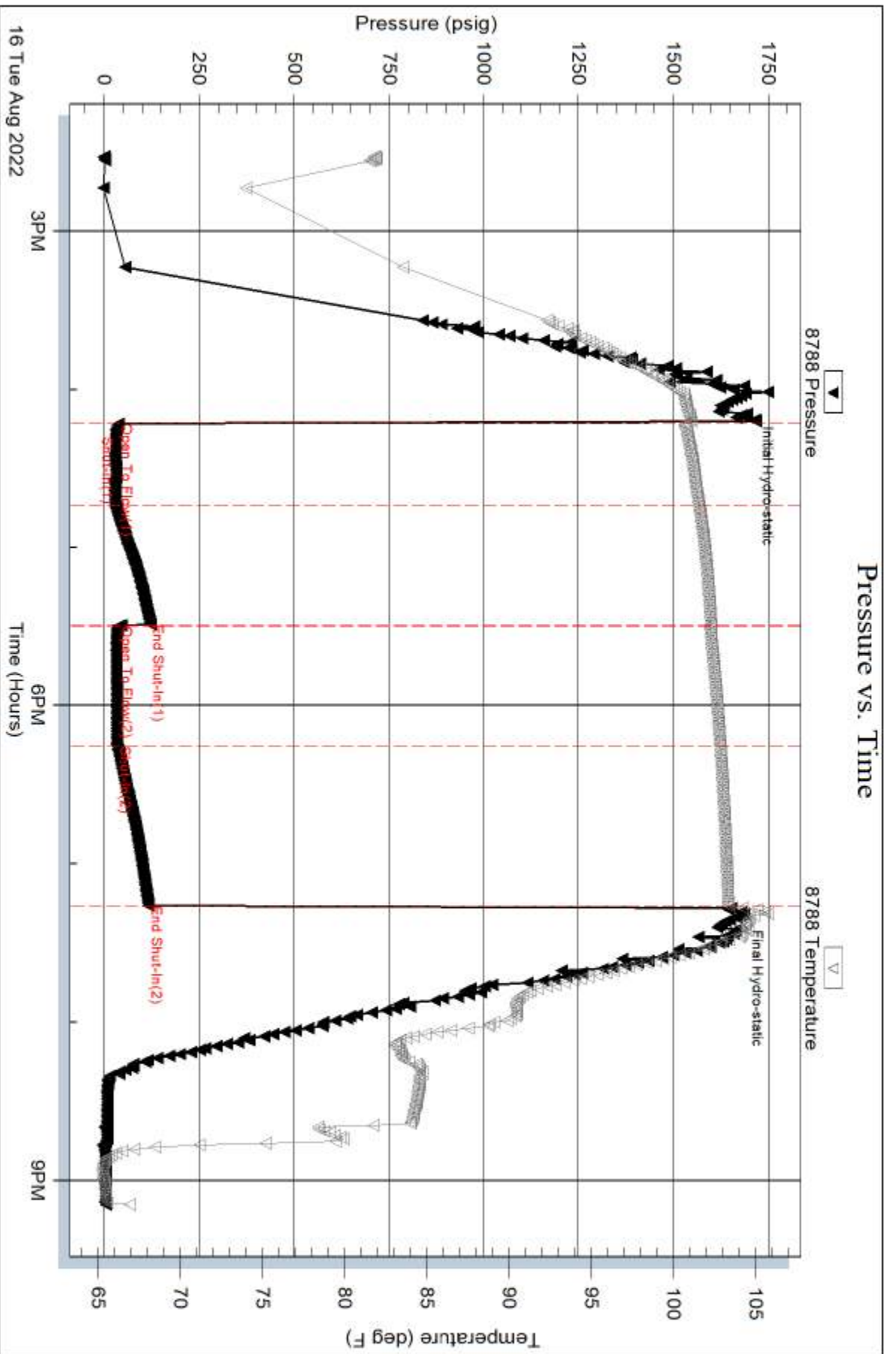
Serial #: 8788

Inside

Darrah Oil Company LLC

McDonald 5

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 68664

Printed: 2022.08.17 @ 07:42:11

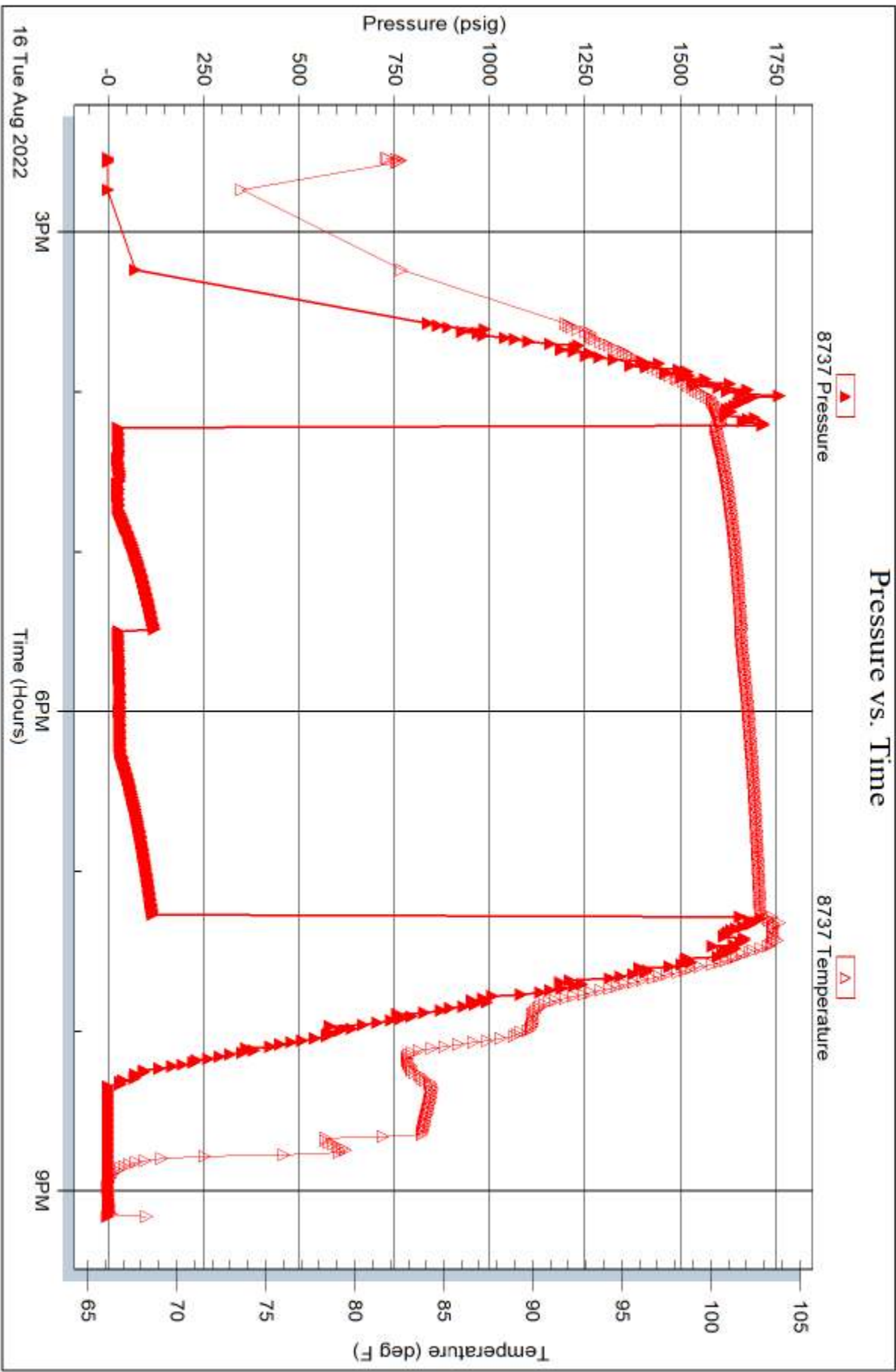
Serial #: 8737

Outside

Darrah Oil Company LLC

McDonald 5

DST Test Number: 2





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Darrah Oil Company LLC

**3-21s-13w Stafford Ks**

125 N Market Suite 1425  
Wichita, Ks. 67202

**McDonald #5**

Job Ticket: 68665

**DST#: 3**

ATTN: Roger Martin

Test Start: 2022.08.17 @ 07:32:19

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:28:19

Time Test Ended: 14:10:49

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

**Interval: 3491.00 ft (KB) To 3541.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3541.00 ft (KB) (TVD)

1876.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8788**

**Inside**

Press@RunDepth: 35.66 psig @ 3492.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.17

End Date:

2022.08.17

Last Calib.:

2022.08.17

Start Time:

07:32:24

End Time:

14:10:48

Time On Btm:

2022.08.17 @ 09:27:49

Time Off Btm:

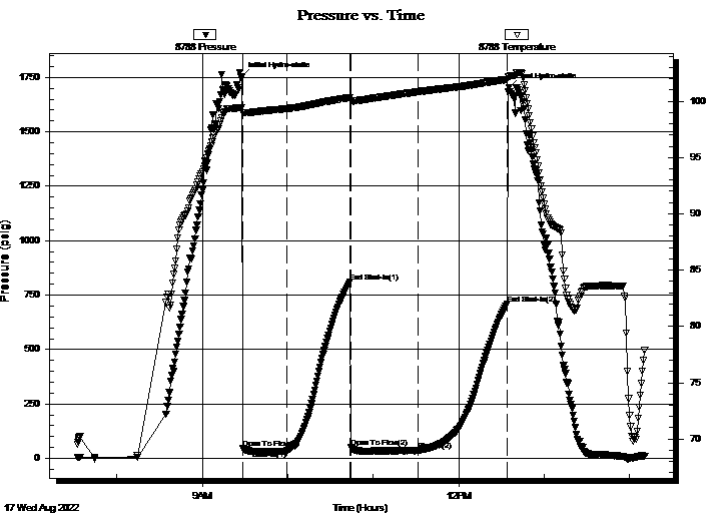
2022.08.17 @ 12:35:19

**TEST COMMENT:** IF: Weak Blow . Built to 1 1/4", in the Bucket. (30)

IS: No Blow . (45)

FF: Weak Blow . Built to 1.13". (45)

FS: No Blow . (60)



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1751.18	99.43	Initial Hydro-static
1	46.46	98.97	Open To Flow (1)
32	34.53	99.34	Shut-In(1)
76	810.84	100.31	End Shut-In(1)
77	49.15	100.03	Open To Flow (2)
124	35.66	100.83	Shut-In(2)
186	708.54	101.93	End Shut-In(2)
188	1702.22	102.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
27.00	GOCM 2%g 18%o 80%m	0.38
3.00	CO 100%o	0.04
0.00	32' GIP 100%g	0.00
0.00	TS GVSOCM 1%g 1%o 98%m	0.00

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Darrah Oil Company LLC

**3-21s-13w Stafford Ks**

125 N Market Suite 1425  
Wichita, Ks. 67202

**McDonald #5**

Job Ticket: 68665

**DST#: 3**

ATTN: Roger Martin

Test Start: 2022.08.17 @ 07:32:19

## 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: 58.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
27.00	GOCM 2%g 18%o 80%m	0.379
3.00	CO 100%o	0.042
0.00	32' GIP 100%g	0.000
0.00	TS GVSOCM 1%g 1%o 98%m	0.000

Total Length: 30.00 ft      Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

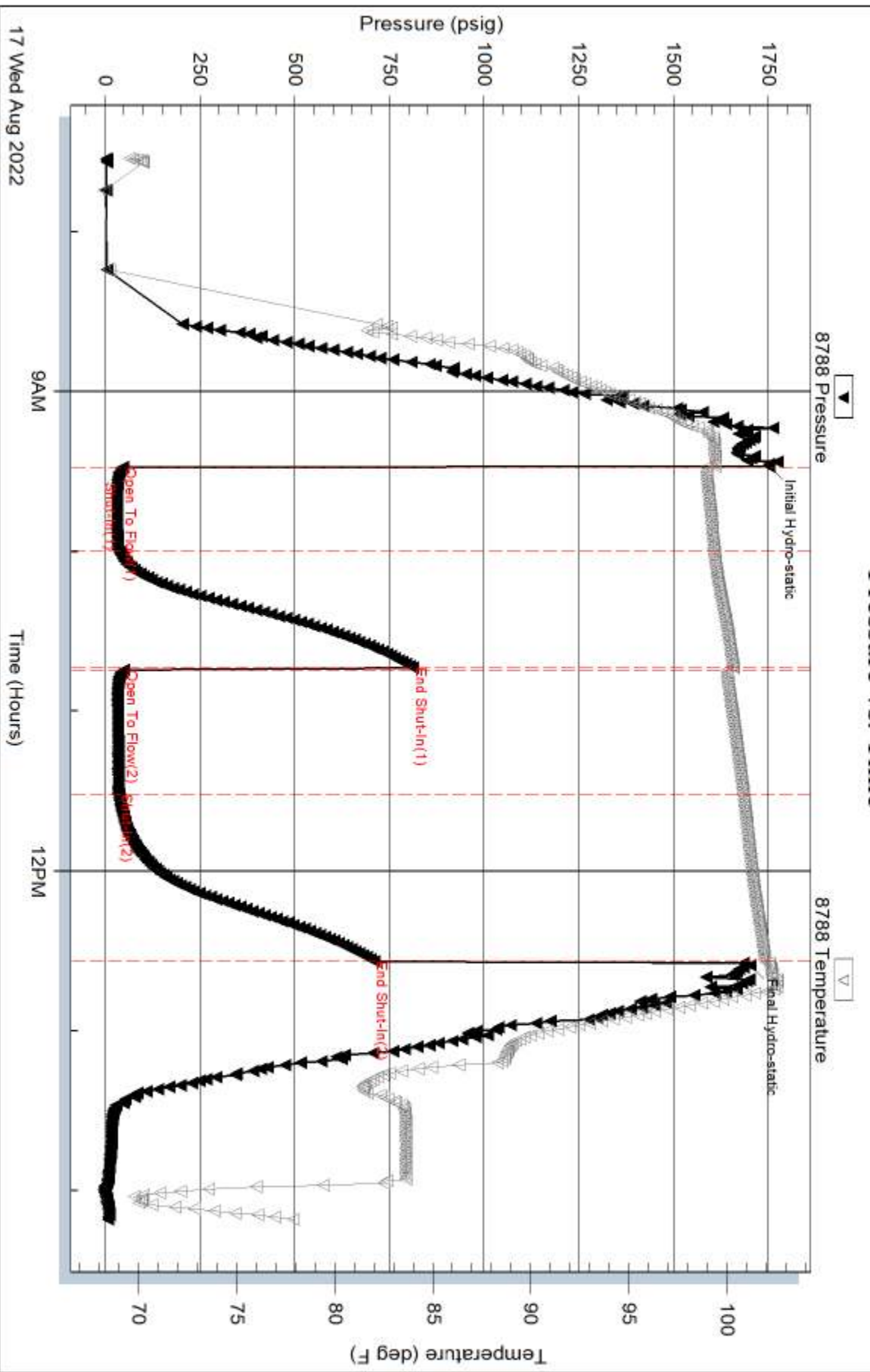
Laboratory Name:

Laboratory Location:

Recovery Comments: 32 Feet of Gas In Pipe.

Tool Sample GVSOCM 1%g 1%o 98%m

# Pressure vs. Time

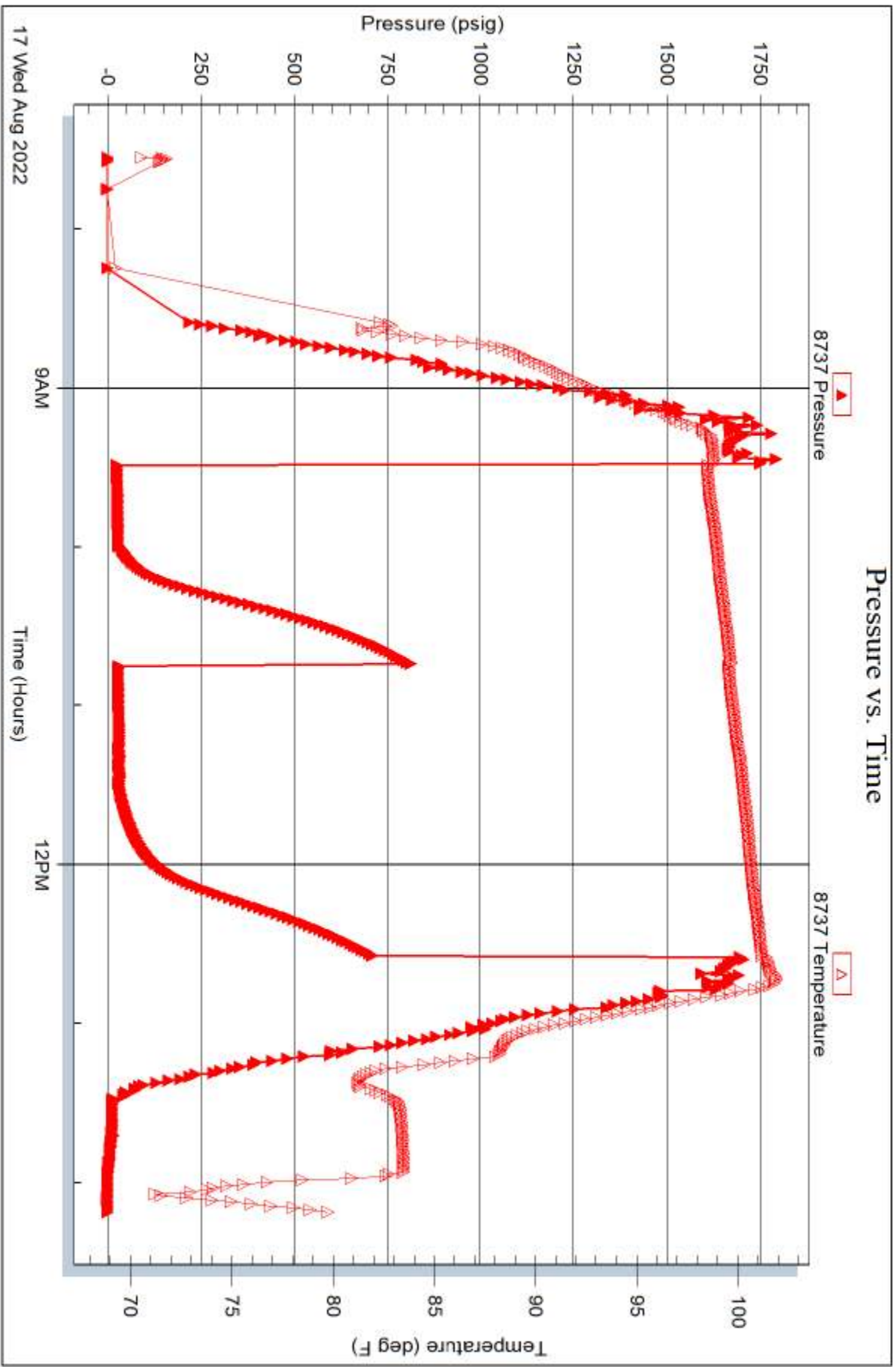


Serial #: 8737

Outside Darrah Oil Company LLC

McDonald #5

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 68665

Printed: 2022.08.17 @ 14:50:19



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Darrah Oil Company LLC

**3-21s-13w Stafford Ks**

125 N Market Suite 1425  
Wichita, Ks. 67202

**McDonald 5**

Job Ticket: 68667

**DST#: 4**

ATTN: Roger Martin

Test Start: 2022.08.17 @ 21:36:44

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:32:29

Time Test Ended: 04:06:44

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

**Interval: 3491.00 ft (KB) To 3546.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3546.00 ft (KB) (TVD)

1876.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8788**

**Inside**

Press@RunDepth: 47.70 psig @ 3492.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.17

End Date:

2022.08.18

Last Calib.:

2022.08.18

Start Time: 21:36:49

End Time:

04:06:43

Time On Btm:

2022.08.17 @ 23:29:59

Time Off Btm:

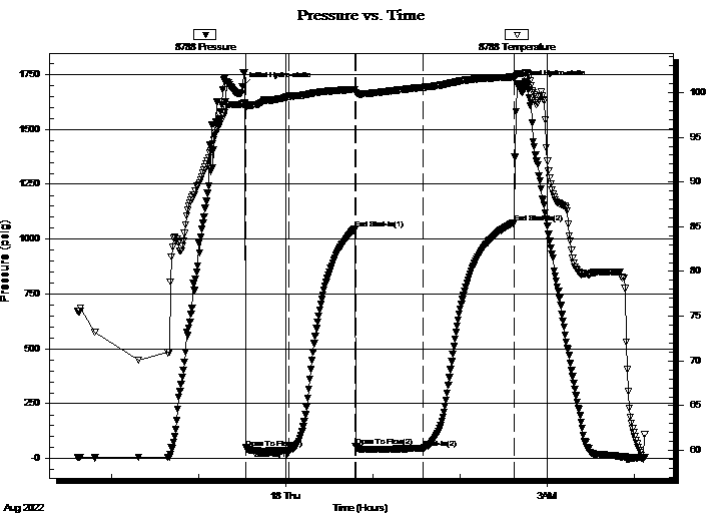
2022.08.18 @ 02:39:44

TEST COMMENT: IF: Weak Blow . Built to 3.44". (30)

IS: No Blow . (45)

FF: Weak Blow . Built to 3.94". (45)

FS: No Blow . (60)



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1694.52	98.71	Initial Hydro-static
3	48.48	98.44	Open To Flow (1)
33	36.75	99.58	Shut-In(1)
78	1046.94	100.34	End Shut-In(1)
78	54.94	99.96	Open To Flow (2)
125	47.70	100.58	Shut-In(2)
187	1075.82	101.74	End Shut-In(2)
190	1706.64	102.11	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	GOCM 13%g 22%o 65%m	0.63
0.00	110' GIP 100%g	0.00
0.00	Tool Sample- GOCM 5%g 30%o 65%m	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Darrah Oil Company LLC

**3-21s-13w Stafford Ks**

125 N Market Suite 1425  
Wichita, Ks. 67202

**McDonald 5**

Job Ticket: 68667

**DST#: 4**

ATTN: Roger Martin

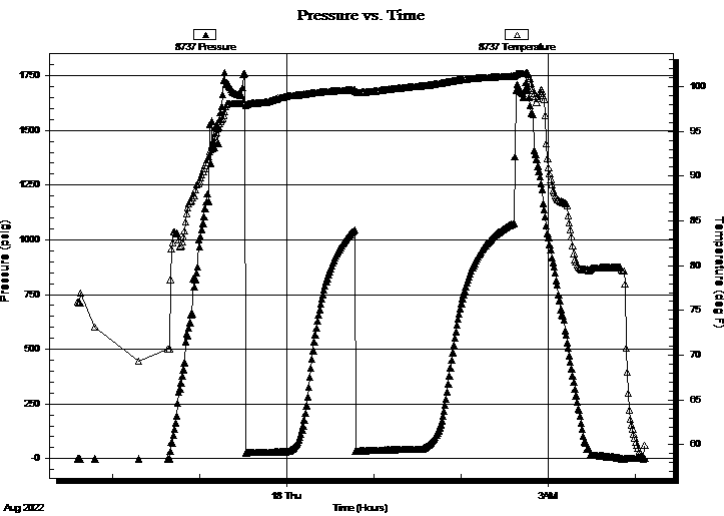
Test Start: 2022.08.17 @ 21:36:44

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:32:29  
 Time Test Ended: 04:06:44  
 Interval: **3491.00 ft (KB) To 3546.00 ft (KB) (TVD)**  
 Total Depth: 3546.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Matt Smith  
 Unit No: 68  
 Reference Elevations: 1886.00 ft (KB)  
 1876.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8737 Outside**  
 Press@RunDepth: psig @ 3492.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.08.17 End Date: 2022.08.18 Last Calib.: 2022.08.18  
 Start Time: 21:36:16 End Time: 04:06:10 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: Weak Blow . Built to 3.44". (30)  
 IS: No Blow . (45)  
 FF: Weak Blow . Built to 3.94". (45)  
 FS: No Blow . (60)



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	GOCM 13%g 22%o 65%m	0.63
0.00	110' GIP 100%g	0.00
0.00	Tool Sample- GOCM 5%g 30%o 65%m	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Darrah Oil Company LLC

**3-21s-13w Stafford Ks**

125 N Market Suite 1425  
Wichita, Ks. 67202

**McDonald 5**

Job Ticket: 68667

**DST#: 4**

ATTN: Roger Martin

Test Start: 2022.08.17 @ 21:36:44

## 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: 63.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	GOCM 13%g 22%o 65%m	0.631
0.00	110' GIP 100%g	0.000
0.00	Tool Sample- GOCM 5%g 30%o 65%m	0.000

Total Length: 45.00 ft      Total Volume: 0.631 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

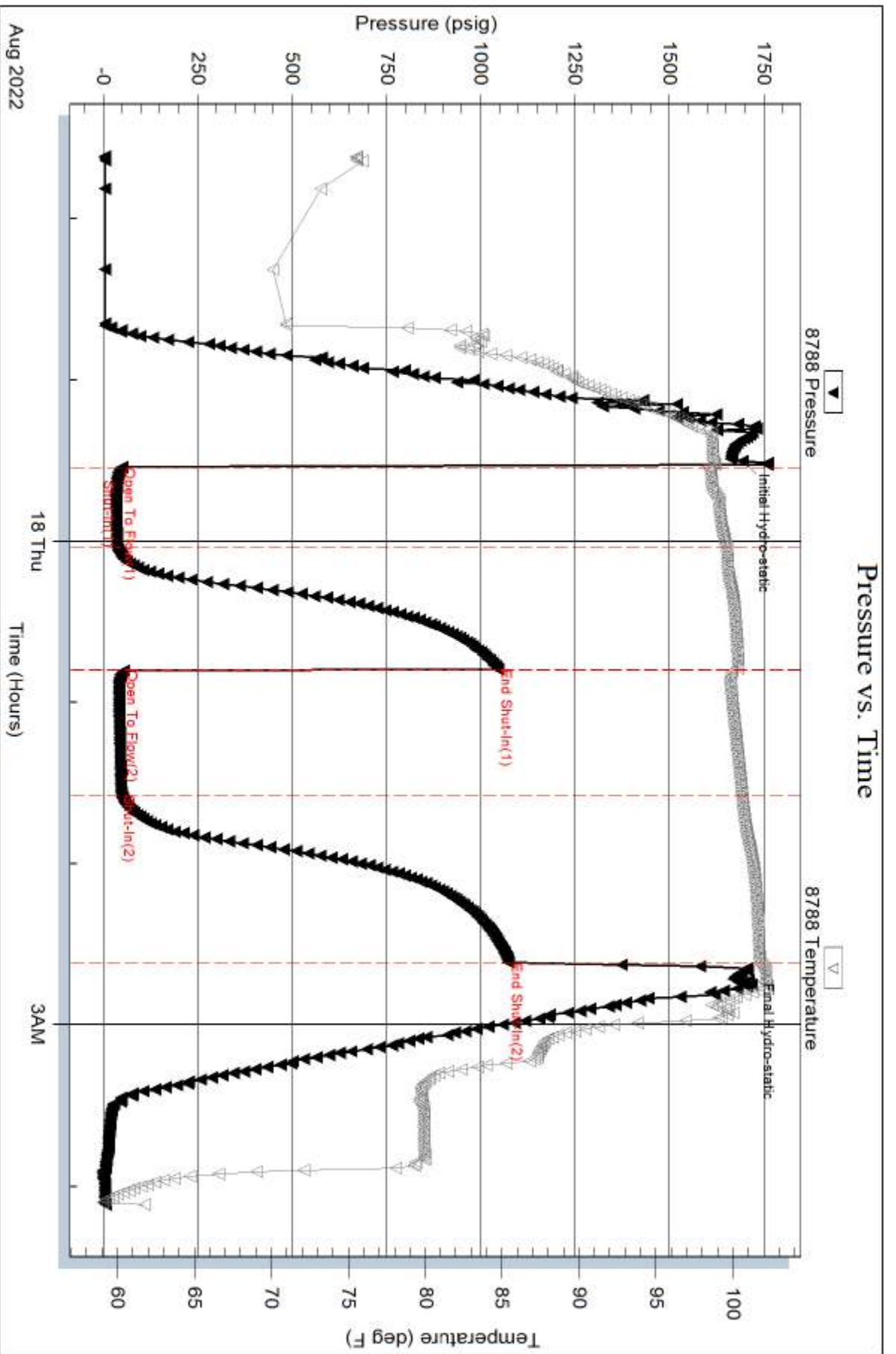
Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: 110 Feet of Gas in Pipe.

TS 5%g 30%o 65%m



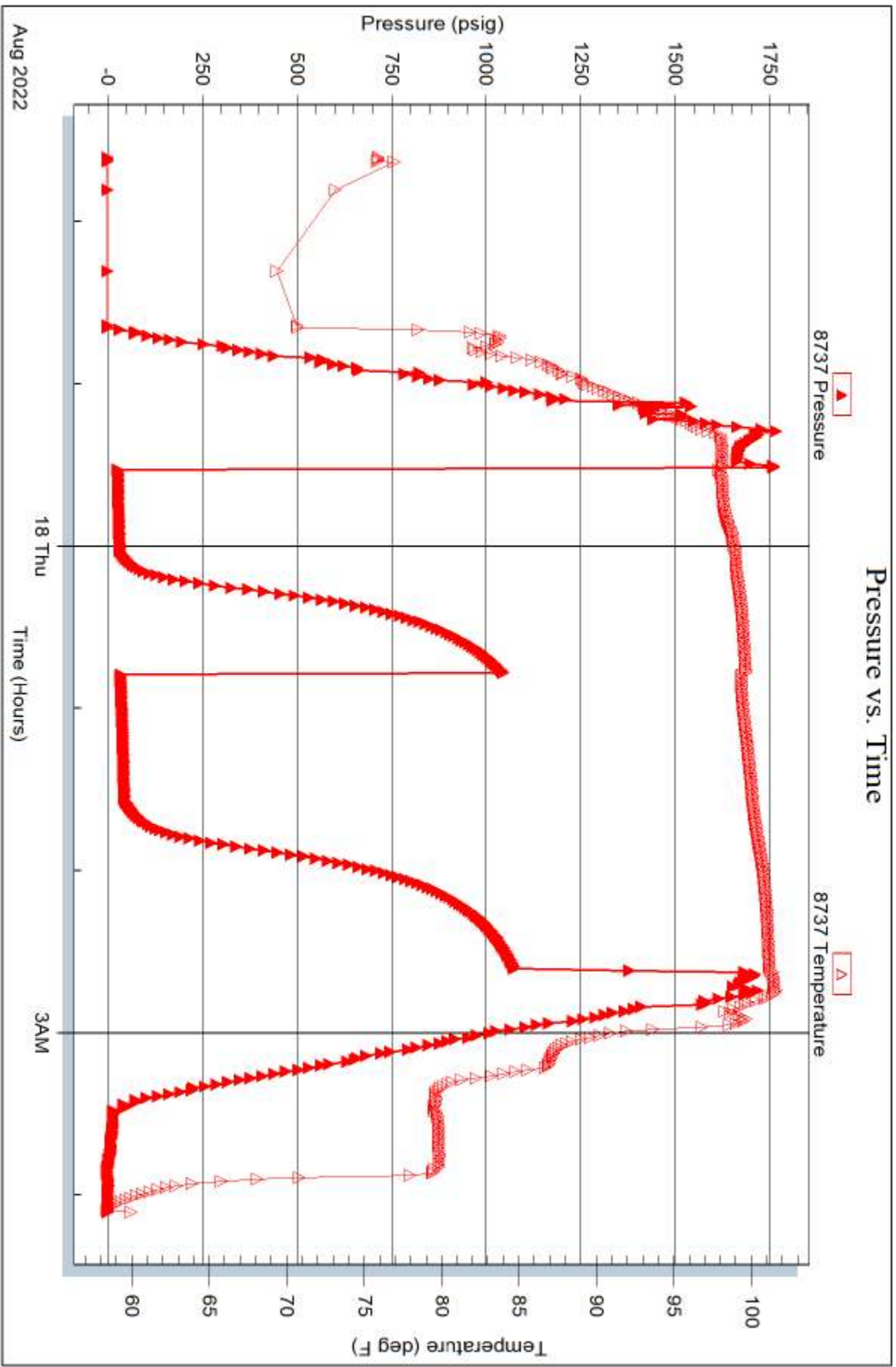
Serial #: 8737

Outside

Darrah Oil Company LLC

McDonald 5

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 68667

Printed: 2022.08.18 @ 07:13:00





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Darrah Oil Company LLC

**3-21s-13w Stafford Ks**

125 N Market Suite 1425  
Wichita, Ks. 67202

**McDonald 5**

Job Ticket: 68668

**DST#: 5**

ATTN: Roger Martin

Test Start: 2022.08.18 @ 13:38:30

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:06:45

Time Test Ended: 17:59:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

**Interval: 3491.00 ft (KB) To 3553.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3553.00 ft (KB) (TVD)

1876.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8788 Inside**

Press@RunDepth: psig @ 3492.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.18 End Date: 2022.08.18

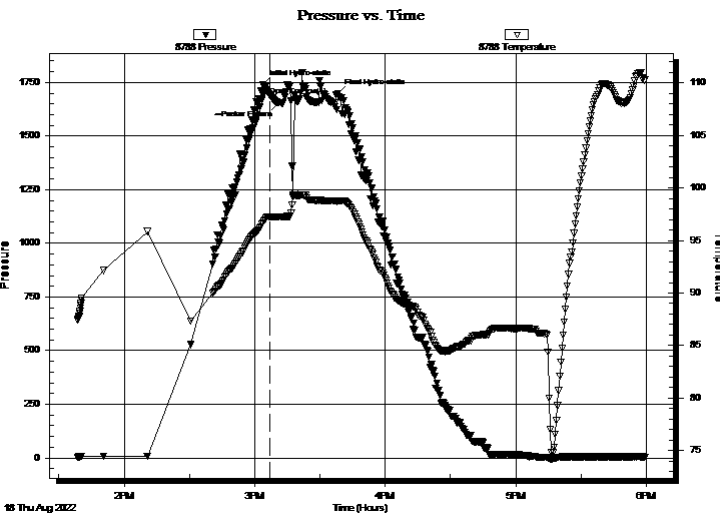
Last Calib.: 2022.08.18

Start Time: 13:38:35 End Time: 17:59:14

Time On Btm: 2022.08.18 @ 15:03:45

Time Off Btm: 2022.08.18 @ 15:38:15

TEST COMMENT: IF: Packer Failure



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1741.14	96.64	Initial Hydro-static
3	1690.36	97.26	Open To Flow (1)
8	1655.40	97.24	--Packer Failure
35	1696.15	98.77	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
451.00	DM	6.33

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Darrah Oil Company LLC

**3-21s-13w Stafford Ks**

125 N Market Suite 1425  
Wichita, Ks. 67202

**McDonald 5**

Job Ticket: 68668

**DST#: 5**

ATTN: Roger Martin

Test Start: 2022.08.18 @ 13:38:30

### 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: 56.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
451.00	DM	6.326

Total Length: 451.00 ft

Total Volume: 6.326 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

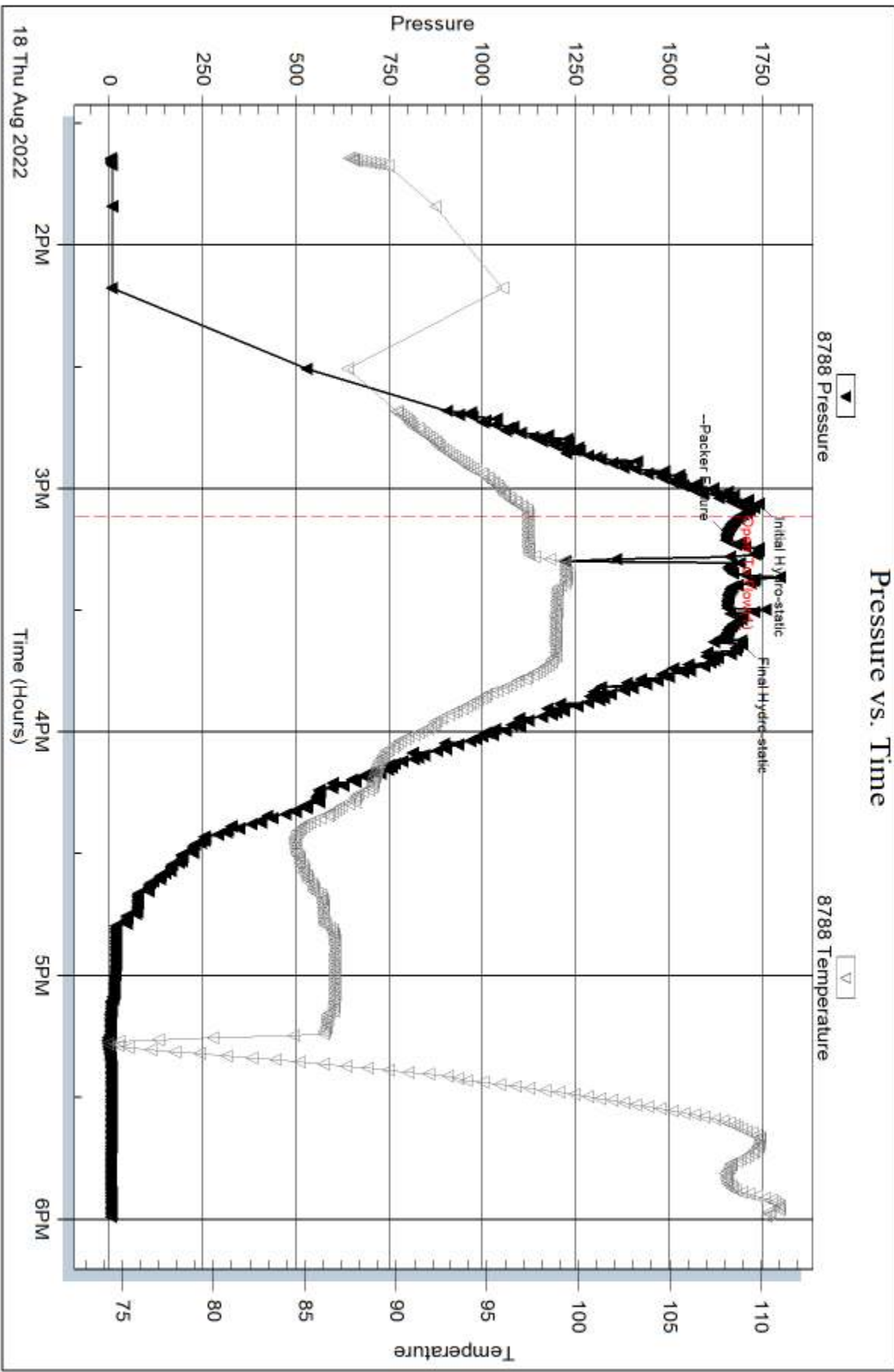
Serial #: 8788

Inside

Darrah Oil Company LLC

McDonald 5

DST Test Number: 5

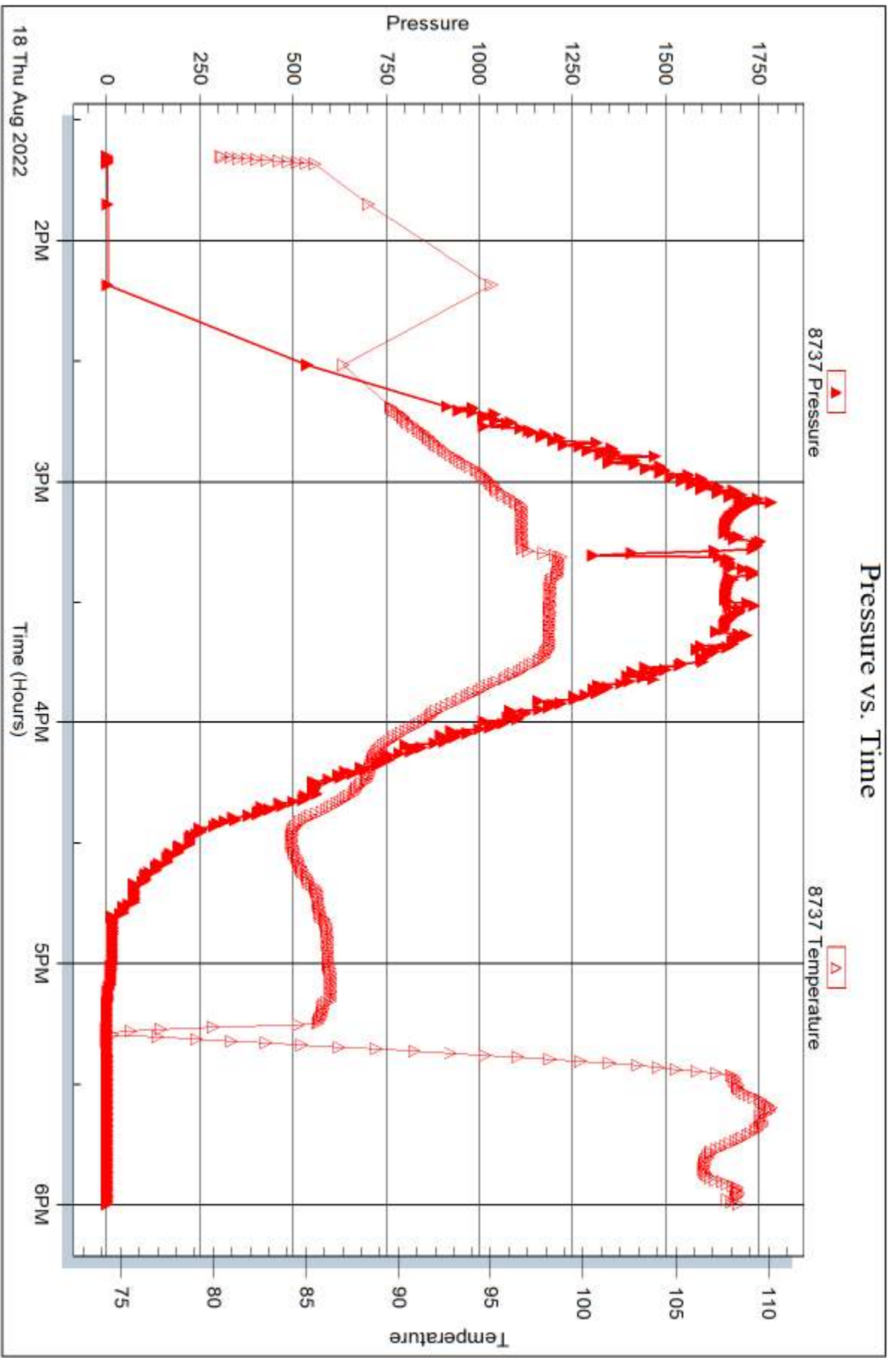


Serial #: 8737

Outside Darrah Oil Company LLC

McDonald 5

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 68668

Printed: 2022.08.19 @ 08:20:18



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Darrah Oil Company LLC

**3-21s-13w Stafford Ks**

125 N Market Suite 1425  
Wichita, Ks. 67202

**McDonald 5**

Job Ticket: 68670

**DST#: 7**

ATTN: Roger Martin

Test Start: 2022.08.19 @ 09:14:58

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:48:28

Time Test Ended: 16:07:43

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

**Interval: 3443.00 ft (KB) To 3553.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3553.00 ft (KB) (TVD)

1876.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8788 Inside**

Press@RunDepth: 189.79 psig @ 3444.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.19 End Date: 2022.08.19

Last Calib.: 2022.08.19

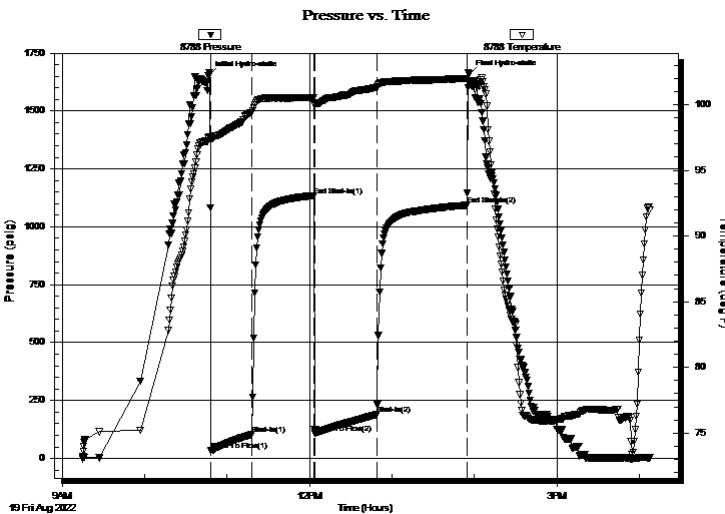
Start Time: 09:15:03 End Time: 16:07:42

Time On Btm: 2022.08.19 @ 10:46:28

Time Off Btm: 2022.08.19 @ 13:56:13

**TEST COMMENT:** IF: Strong Blow . B.O.B. in 13 mins. Built to 20.92 (30)  
IS: Weak Blow . Built to .24". (45)  
FF: Strong Blow . B.O.B. in 18 mins. Built to 30.33". (45)  
FS: Weak Blow . Built to 1.40". (60)

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1650.68	97.45	Initial Hydro-static
2	36.26	97.31	Open To Flow (1)
32	104.75	99.40	Shut-In(1)
77	1134.53	100.56	End Shut-In(1)
78	107.64	100.16	Open To Flow (2)
123	189.79	101.31	Shut-In(2)
188	1093.33	101.99	End Shut-In(2)
190	1656.99	102.35	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
191.00	GOCM 50%g 20%o 30%m	2.68
126.00	GHOCM 50%g 25%o 25%m	1.77
63.00	GHOCM 30%g 30%o 40%m	0.88
15.00	GHOCM 1%g 45%o 55%m	0.21
0.00	441' GIP 100%g	0.00
0.00	TS GMCHO 5%g 45%m 50%o	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Darrah Oil Company LLC

**3-21s-13w Stafford Ks**

125 N Market Suite 1425  
Wichita, Ks. 67202

**McDonald 5**

Job Ticket: 68670

**DST#: 7**

ATTN: Roger Martin

Test Start: 2022.08.19 @ 09:14:58

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:48:28

Time Test Ended: 16:07:43

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

**Interval: 3443.00 ft (KB) To 3553.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3553.00 ft (KB) (TVD)

1876.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8737 Outside**

Press@RunDepth: psig @ 3444.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.19

End Date: 2022.08.19

Last Calib.: 2022.08.19

Start Time: 09:15:01

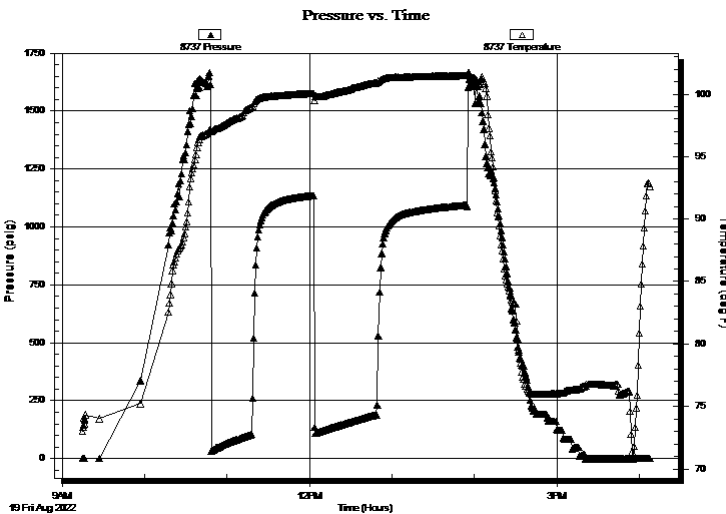
End Time: 16:07:40

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: Strong Blow . B.O.B. in 13 mins. Built to 20.92 (30)  
IS: Weak Blow . Built to .24". (45)  
FF: Strong Blow . B.O.B. in 18 mins. Built to 30.33". (45)  
FS: Weak Blow . Built to 1.40". (60)

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
191.00	GOCM 50%g 20%o 30%m	2.68
126.00	GHOCM 50%g 25%o 25%m	1.77
63.00	GHOCM 30%g 30%o 40%m	0.88
15.00	GHOCM 1%g 45%o 55%m	0.21
0.00	441' GIP 100%g	0.00
0.00	TS GMCHO 5%g 45%m 50%o	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Darrah Oil Company LLC

**3-21s-13w Stafford Ks**

125 N Market Suite 1425  
Wichita, Ks. 67202

**McDonald 5**

Job Ticket: 68670

**DST#: 7**

ATTN: Roger Martin

Test Start: 2022.08.19 @ 09:14:58

### 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:

11000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 19.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11000.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
191.00	GOCM 50%g 20%o 30%m	2.679
126.00	GHOCM 50%g 25%o 25%m	1.767
63.00	GHOCM 30%g 30%o 40%m	0.884
15.00	GHOCM 1%g 45%o 55%m	0.210
0.00	441' GIP 100%g	0.000
0.00	TS GMCHO 5%g 45%m 50%o	0.000

Total Length: 395.00 ft

Total Volume: 5.540 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

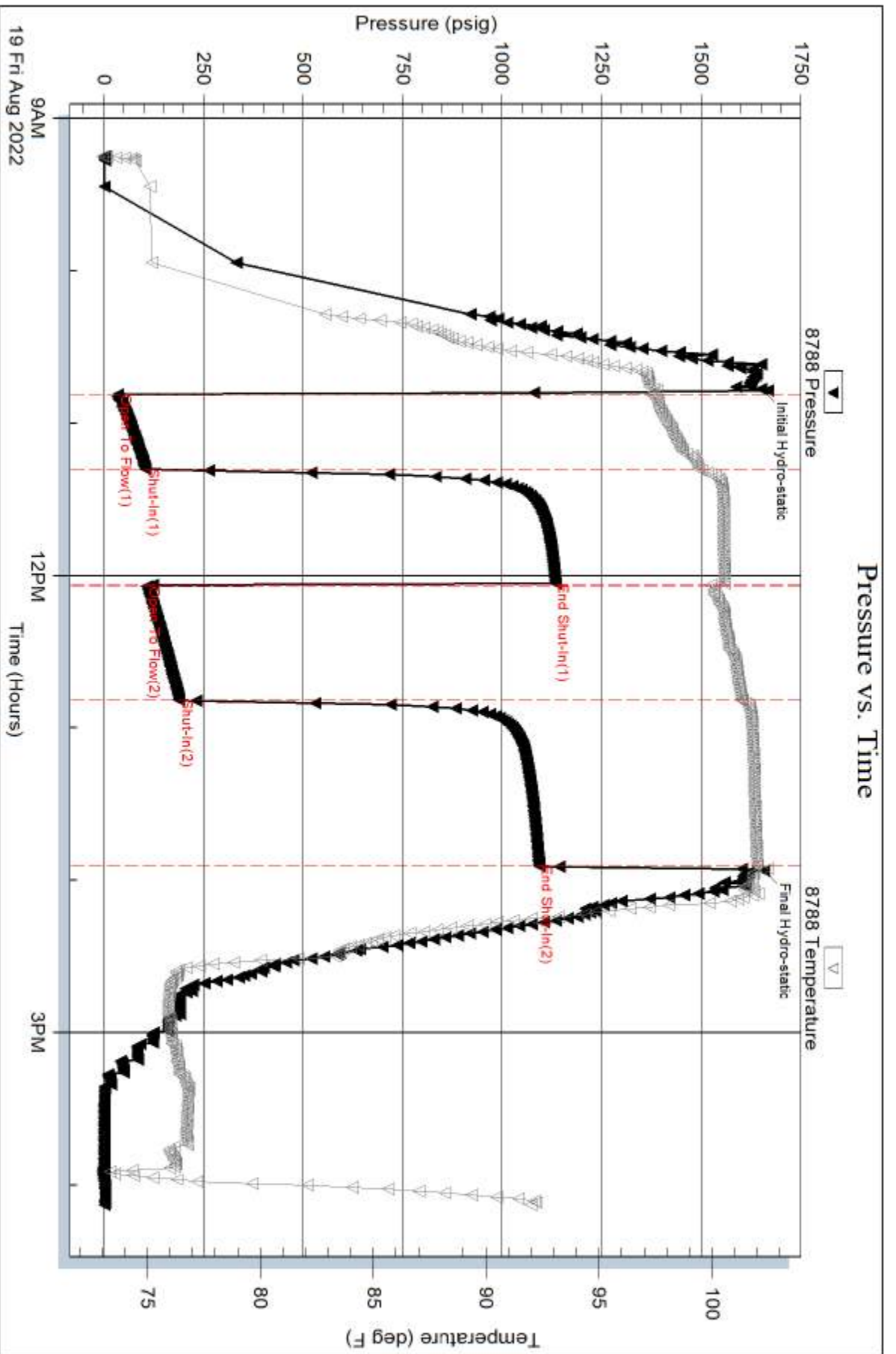
Laboratory Name:

Laboratory Location:

Recovery Comments: 441 Feet of Gas in Pipe.

Tool Sample GMCHO 5%g 45%m 50%o



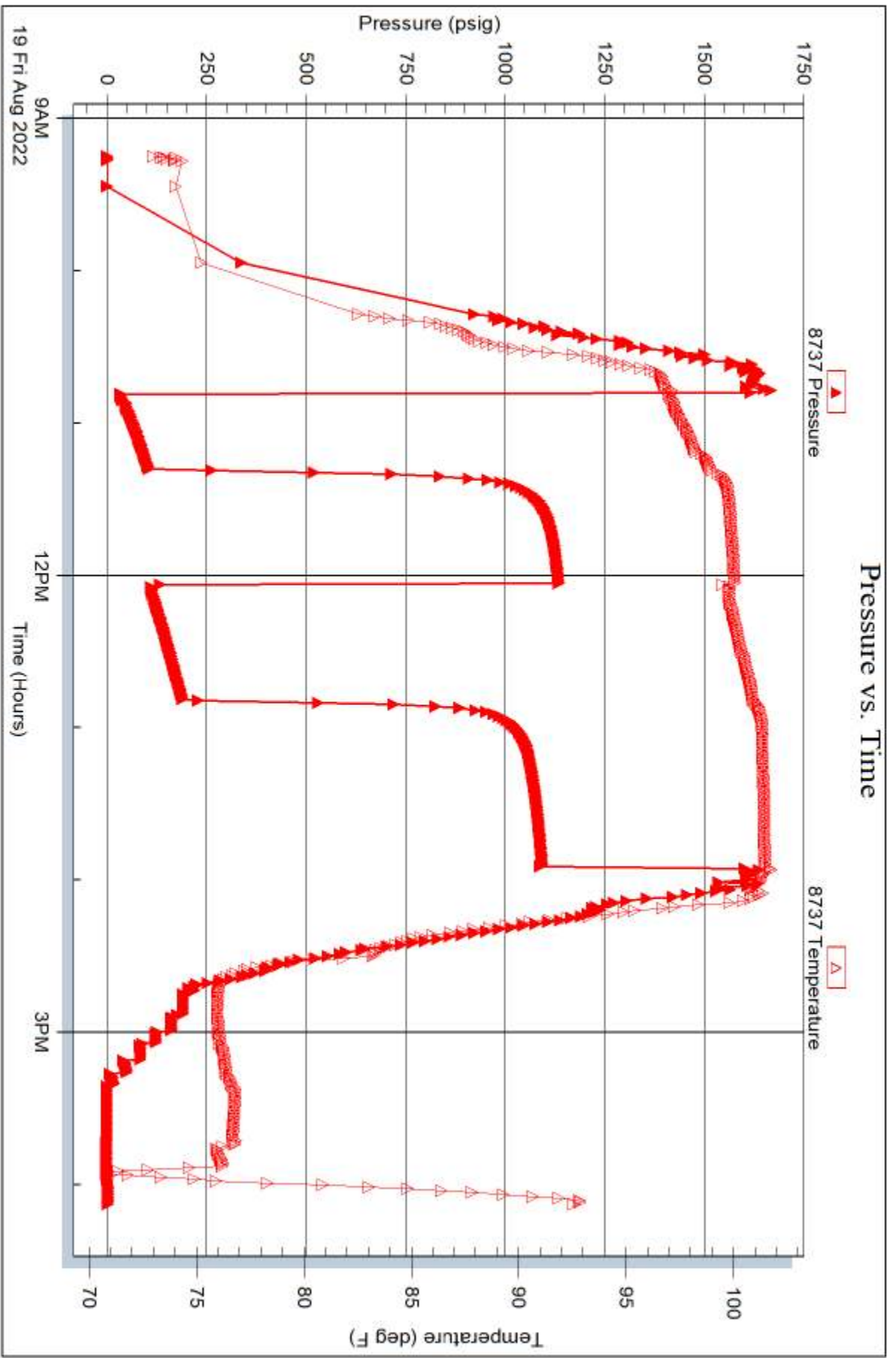


Serial #: 8737

Outside Darrah Oil Company LLC

McDonald 5

DST Test Number: 7



Trilobite Testing, Inc

Ref. No: 69670

Printed: 2022.08.19 @ 17:12:10



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Darrah Oil Company LLC

**3-21s-13w Stafford Ks**

125 N Market Suite 1425  
Wichita, Ks. 67202

**McDonald 5**

Job Ticket: 68669

**DST#: 6**

ATTN: Roger Martin

Test Start: 2022.08.19 @ 03:13:41

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 07:11:41

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

**Interval: 3545.00 ft (KB) To 3553.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3553.00 ft (KB) (TVD)

1876.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8788 Inside**

Press@RunDepth: psig @ 3546.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.19 End Date: 2022.08.19

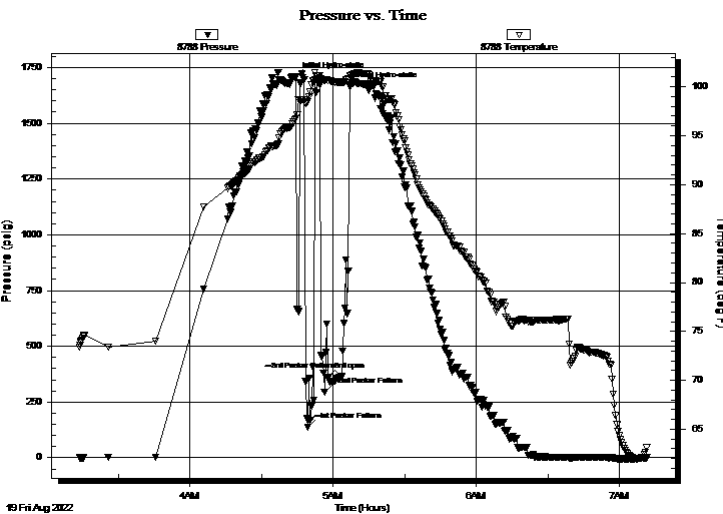
Last Calib.: 2022.08.19

Start Time: 03:13:46 End Time: 07:11:41

Time On Btm: 2022.08.19 @ 04:44:26

Time Off Btm: 2022.08.19 @ 05:06:56

TEST COMMENT: IF: Packer Failure.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1707.37	96.72	Initial Hydro-static
5	135.80	98.51	--1st Packer Failure
12	295.20	100.63	--2nd Packer Failure
14	361.86	100.62	3rd open
20	363.00	100.40	--3rd Packer Failure
23	1663.66	101.08	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
189.00	GVSOCM 5%g 2%o 93%m	2.65
252.00	GOCM 27%g 8%o 65%m	3.53
512.00	DM	7.18

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Darrah Oil Company LLC

**3-21s-13w Stafford Ks**

125 N Market Suite 1425  
Wichita, Ks. 67202

**McDonald 5**

Job Ticket: 68669

**DST#: 6**

ATTN: Roger Martin

Test Start: 2022.08.19 @ 03:13:41

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

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

Resistivity: ohm.m

Salinity: ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
189.00	GVSOCM 5%g 2%o 93%m	2.651
252.00	GOCM 27%g 8%o 65%m	3.535
512.00	DM	7.182

Total Length: 953.00 ft      Total Volume: 13.368 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

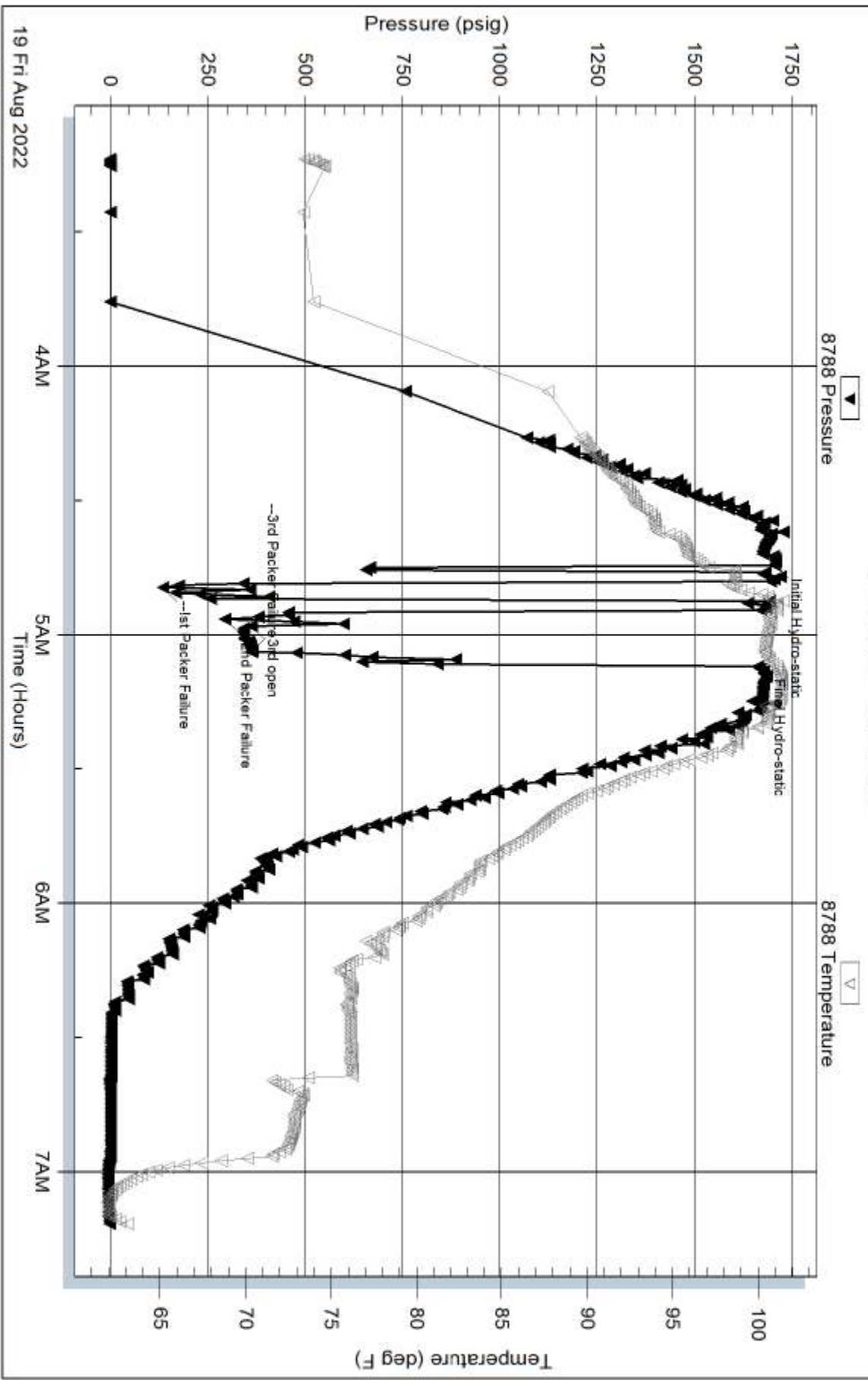
Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

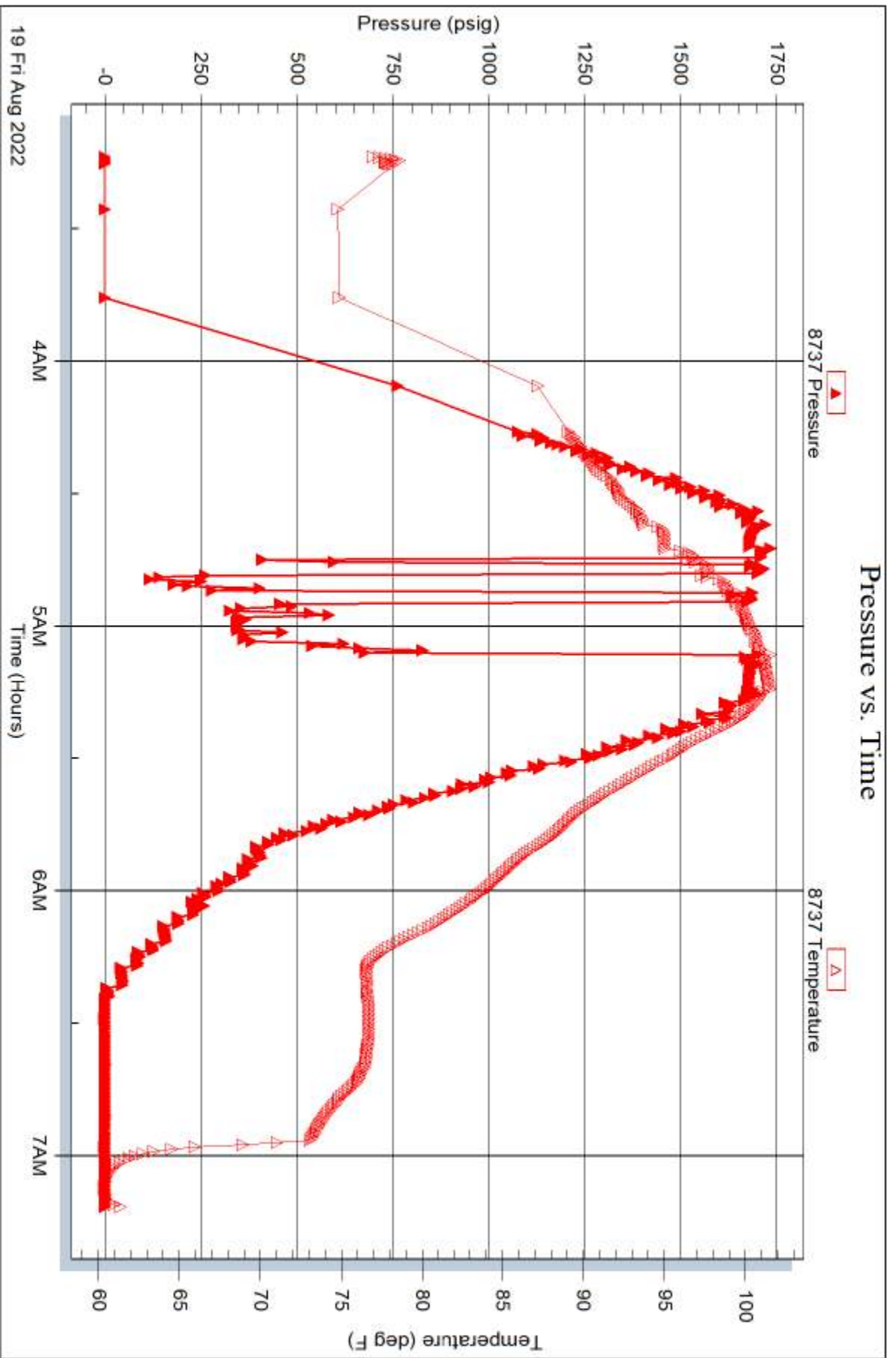


Serial #: 8737

Outside Darrah Oil Company LLC

McDonald 5

DST Test Number: 6



5 1/2 x 14 #

RECEIVED ON CAR OR TRUCK NO.

FROM

DATE

SENT TO  
Darrah-McDonald 5

ON CAR OR TRUCK NO.

DATE SENT

TRANSFER OR ORDER NO. WEIGHT GRADE THREAD COUPLING CONDITION  
 NEW  FAIR  
 GOOD  JUNK

	INCH		INCH		INCH		INCH		INCH	
	FEET	INCHES	FEET	INCHES	FEET	INCHES	FEET	INCHES	FEET	INCHES
1	21	28	42	46	43	-	42	88	40	81
2	42	51	42	48	42	49	42	45	43	39
3	41	36	42	46	42	50	42	44	41	97
4	42	47	42	90	43	63	42	46	42	48
5	42	93	42	50	42	50	43	03	40	08
6	42	48	42	48	40	76	42	52	20	96
7	42	25	42	57	42	51	42	45	229	69
8	42	47	40	39	42	46	42	49		
9	42	91	42	48	42	46	42	45		
10	42	53	42	50	42	48	42	60		
11	42	50	43	13	42	45	42	50		
12	42	40	42	47	42	50	42	47		
13	42	50	40	61	42	50	42	48		
14	42	49	42	51	42	45	42	54		
15	42	28	42	50	42	64	42	48		
16	42	49	42	39	42	49	42	49		
17	42	47	42	69	42	48	42	48		
18	43	47	42	52	42	48	42	49		
19	42	60	42	46	42	45	42	04		
20	42	48	42	49	42	65	41	84		
TOT.	828	87	846	99	849	87	849	58	3605.00	

20' off btm

TOTALS	PIECES	FEET	INCHES
COL. NO. 1		828	87
COL. NO. 2		846	99
COL. NO. 3		849	87
COL. NO. 4		849	58
COL. NO. 5		229	69
TOTALS THIS PAGE		3605	00

REMARKS  
Land start 13.6  
3618.6  
- 43.63  
- 43.39  
Total csq = 3531.58

Csg set ~20' off btm ~3532' KB Insert @ ~3511

MADE IN U.S.A.



Date 8/20/2022 District GB F.O. No. 60652  
 Company DARRAH OIL  
 Well Name & No. MCDONALD #5  
 Location \_\_\_\_\_ Field \_\_\_\_\_  
 County STAFFORD State KS

Type Treatment: \_\_\_\_\_ Amt. \_\_\_\_\_ Type Fluid \_\_\_\_\_ Sand Size \_\_\_\_\_ Pounds of Sand \_\_\_\_\_  
 Bkdown \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 Flush \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 Treated from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. No. ft. 0  
 from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. No. ft. 0  
 from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. No. ft. 0

Casing: Size 5 1/2 Type & Wt. 14# Set at \_\_\_\_\_ ft.  
 Formation: \_\_\_\_\_ Perf. \_\_\_\_\_ to \_\_\_\_\_  
 Formation: \_\_\_\_\_ Perf. \_\_\_\_\_ to \_\_\_\_\_  
 Formation: \_\_\_\_\_ Perf. \_\_\_\_\_ to \_\_\_\_\_  
 Liner: Size \_\_\_\_\_ Type & Wt. \_\_\_\_\_ Top at \_\_\_\_\_ ft. Bottom at \_\_\_\_\_ ft.  
 Cemented:  Yes  No Perforated from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Tubing: Size & Wt. \_\_\_\_\_ Swung at \_\_\_\_\_ ft.  
 Perforated from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Open Hole Size \_\_\_\_\_ T.D. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

Actual Volume of Oil / Water to Load Hole: \_\_\_\_\_ Bbl./Gal.  
 Pump Trucks. No. Used: Std. 320 Sp. \_\_\_\_\_ Twin \_\_\_\_\_  
 Auxiliary Equipment 327  
 Personnel GREG CLARENCE JOE  
 Auxiliary Tools \_\_\_\_\_  
 Plugging or Sealing Materials: Type \_\_\_\_\_ Gals. \_\_\_\_\_ lb.

Company Representative ROGER MARTIN Treater GREG C.

TIME a.m./p.m.	PRESSURES		Total Fluid Pumped	REMARKS
	Tubing	Casing		
				ON LOCATION
				Pipe Total: 3532 Insert 3511
				Cent: 2, 4, 6, 10, 15
				Basket 3
				Circulate for 1 hour
				Pump Mud Flush - 500 Gals
				Plug R.H. with 30 Sks
				plug M.H. with 20 Sks
				Mix 175 Sks
				Rinse Pump & line out
				Displace with 85.7 Gals @ 1500 #
				Plug down @ 4:15
4:30				Job Complete
				Thank You!!!