

Confidentiality Requested:

Yes No

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

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

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

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Darrah Oil Company, LLC
Well Name	TED BITTER 2-6
Doc ID	1602542

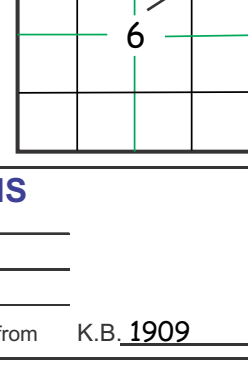
All Electric Logs Run

dual induction
micro
sonic
porosity

GEOLOGICAL REPORT FINAL

Larry A. Nicholson

NAD 83
38.69443600
-98.79514100



COMPANY Darrah Oil Company LLC
 API # 15-009-26309 FIELD Trapp
 LEASE Ted Bitter WELL # #2-6
 LOCATION N2 SE NE NE
 SURVEY 860' FNL 553' FEL
 SECTION 6 TWP 16S RGE 13W
 COUNTY Barton STATE Kansas

CONTRACTOR Murfin TP Galli Rig # 20
 SPUD 1:00am 8-19-21 COMP. K.B. 1909
 RTD 3:427 6:47am 8-25-21 LTD 3423
 MUD UP AT 2:79m D.F. 1898
 MUD TYPE Chemical Ansys All measurements from K.B. 1909

SAMPLES SAVED FROM 2800 to RTD
 DRILLING TIME FROM 2200 to RTD
 SAMPLES EXAMINED FROM 2800 to RTD
 GEOLOGICAL SUPERVISION FROM 2800 to RTD
 WELL-SITE GEOLOGIST LARRY A. NICHOLSON
 ELECTRIC SURVEYS Western Dual Den Neu Micro

ELEVATIONS
 K.B. 1909
 D.F. 1898
 G.L. 1898
 All measurements from K.B. 1909

CASING RECORD
 Conductor of 8 5/8" w/ 275' sx
 Surface 407' Production of 8 5/8" w/ 275' sx
 Production of 8 5/8" w/ 275' sx
 Drig Supervision

FORMATION	SAMPLE TOPS	SUBSEA DATUM	ELECTRO TOPS	SUBSEA DATUM	REFERENCE WELL
Stone Corral	874	+1035	874	+1035	
Topeka	2784	-875	2780	-871	
Heebner	3016	-1107	3012	-1103	
Douglas	3048	-1139	3044	-1135	
Brown Lime	3088	-1179	3084	-1175	
Lansing	3102	-1193	3098	-1189	
Muncie Creek	3232	-1323	3228	-1319	
Stark Shale	3294	-1385	3290	-1381	
BKC	3322	-1413	3318	-1409	
Arbuckle	3336	-1427	3332	-1423	
RTD	3427	-1518	3427	-1518	
LTD	3423	-1514	3423	-1514	

REFERENCE WELLS
 A: _____
 B: _____

LAN 7/92, Modified 5/05, 11/11, 4/12, 4/18 1 inch = 25.4mm 8.5 x 97.5 In Memory Tim Louer 5/05/21 last well

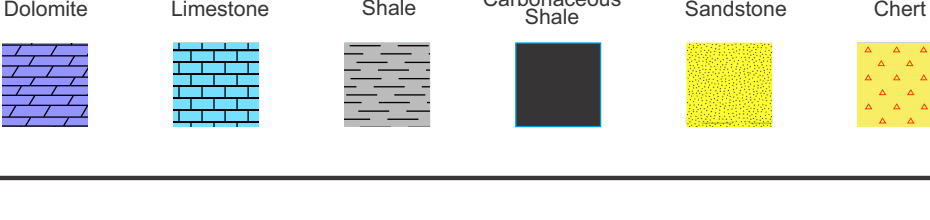
DRILLSTEM TEST SUMMARY :

Dst #1 2928-2965 (Oread) 30-30-30-30 IF-13-18 FF-20-24 SI-341-70
 Rec 10' OSM IF surf built to 1/2" died, nr FF n blow, nr BHT 102
 Dst #2 3113-3324 (Arbuckle) 15-30-15-45 IF-584-897 FF-906-1073 SI-1087-1100
 Rec Total 1165' 200 GIP 20' GO (10G 800), 315' GOCMW (10G 100 70W 10M),
 2070' GMW (10G 85W 5M), IF BOB 20 sec, built to 405',
 FF BOB 20 sec built to 211" surf blow died @ 3 min, BHT 110,
 Gravity 41, RW 201 @ 82, CL 30,000 ppm
 Dst #3 3313-3344 (Arbuckle) 60-45-15-15 IF-22-36 FF-43-42 SI-834-385
 Rec 25' OSM IF surf died in 12 min, nr FF n blow, nr BHT 107
 Dst #4 3216-3292 (LKC J) 30-45-15-15 IF-21-21 FF-20-23 SI-191-39
 Rec 5' OSM IF surf died in 12 min, nr FF n blow, nr BHT 106
 Dst #5 3313-3348 (Arbuckle) 30-45-30-45 IF-48-332 FF-312-508 SI-1105-1105
 Rec Total 1165' 200 GIP 20' GO (20G 800), 600' GWCWO (30G 350 20W 15M)
 425' GWCWO (60G 200 20W) 120' GWCWO w/ O spits (50G 45W 5M)
 IF BOB 5 1/2" built to 75" Surf to 2 3/4" FF BOB 5' built to 71" Surf to 1 1/2",
 BHT 110, Gravity 41, RW 191 @ 85, CL 30,000

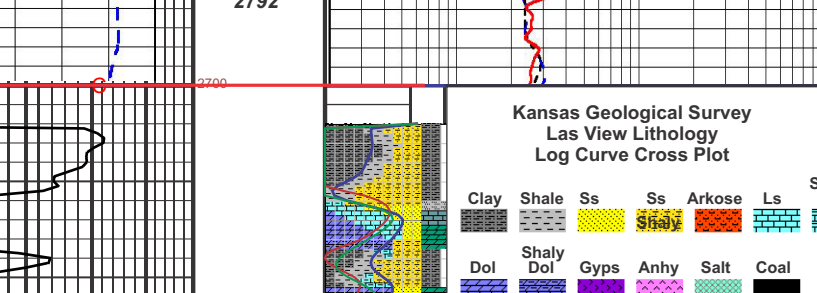
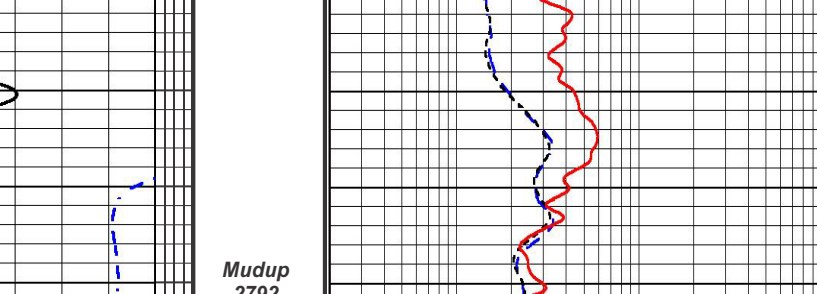
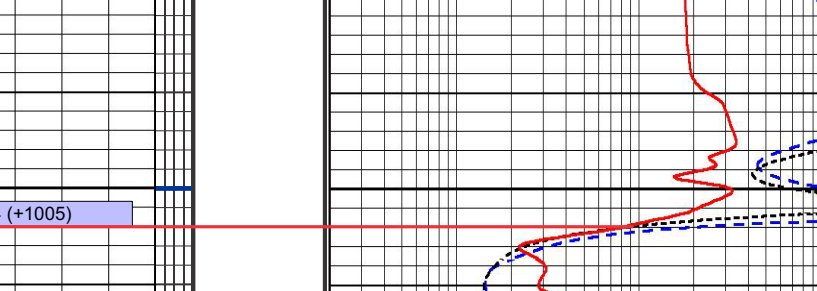
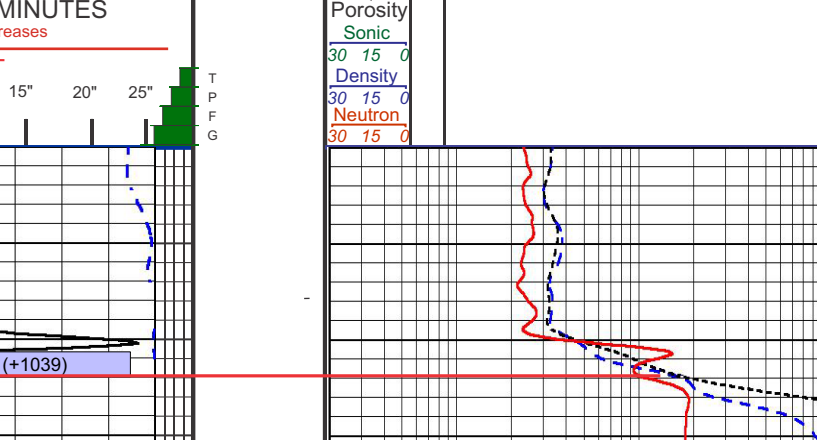
REMARKS & RECOMMENDATIONS:

Casing on Arbuckle Dst #5 results
based on run
 * RTD is 3427 Kelly down and includes bit
The LTD is 3423 4 ft less than rig depth
The log has been moved down 4 feet to
match the ROP and Dsts.

LEGEND



GAMMA RAY / SP
 Gas Units
 DRILLING TIME IN MINUTES
 PER FOOT
 CALIPER



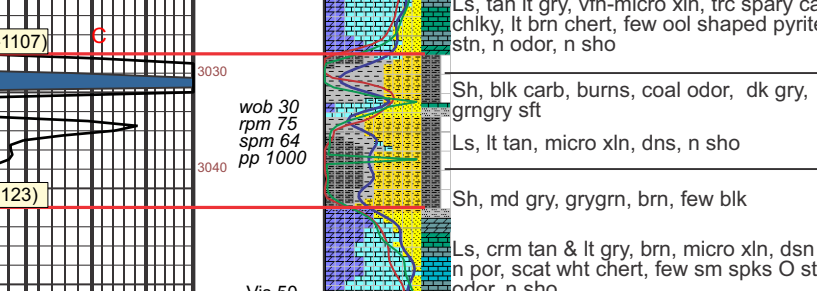
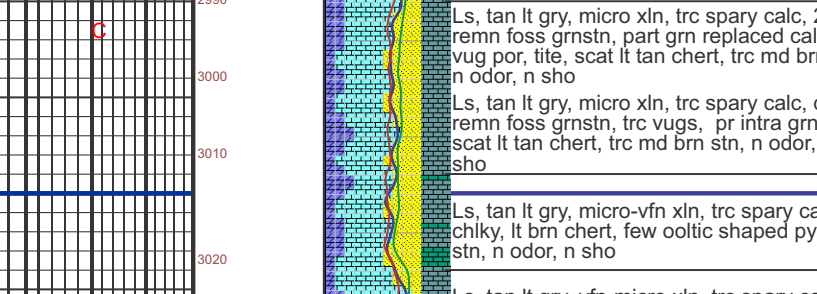
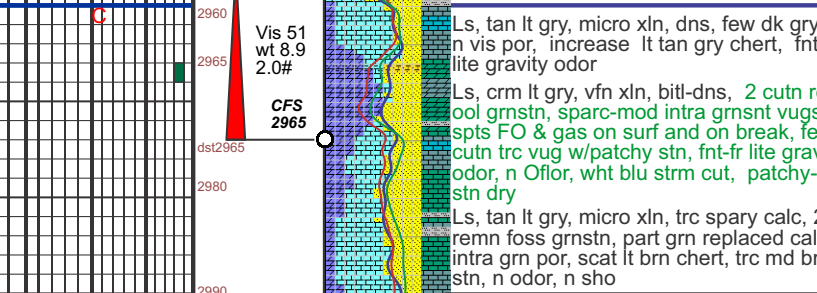
DST (1) 2928-2965 Oread 30-30-30-30
 IF: surf to 1/2" died back 14"
 IS: n return
 FF: n blow
 FS: n return
 Total Rec: 10' OSM (100M)
 FFP: 13-18 FFP: 20-24
 SIP: 1371 FSP: 1370
 HP: 1472 FHP: 1350
 BHT 102' F

DST (4) 3216-3292 LKC J 30-45-15-15
 IF: surf blow died 12 min
 IS: n return
 FF: n blow
 FS: n return
 Total Rec: 5' OSM (100M)
 FFP: 21-21 FFP: 20-23
 SIP: 191 FSP: 39
 HP: 1647 FHP: 1547
 BHT 106'

DST (2) 3313-3352 Arbuckle 15-30-15-45
 IF: BOB 20 sec, built to 405"
 IS: n return
 FF: BOB 5 min built to 211"
 FS: vob surf died @ 3 min
 Total Rec: 2400' fluid 90' GIP
 15' GO (10G 800)
 315' GOCMW (10G 100 70W 10M)
 2070' GMW (10G 85W 5M)
 425' GWCWO (60G 200 20W) 120' GWCWO w/ O spits (50G 45W 5M)
 IF BOB 5 1/2" built to 75" Surf to 2 3/4" FF BOB 5' built to 71" Surf to 1 1/2",
 BHT 110, Gravity 41, RW 201 @ 82, CL 30,000 ppm

DST (3) 3313-3344 Arbuckle 60-45-15-15
 IF: surf to 1/2" died 30"
 IS: n return
 FF: n blow
 FS: n return
 Total Rec: 25' OCM
 FFP: 22-36 FFP: 43-42
 SIP: 834 FSP: 385
 HP: 1668 FHP: 1583
 BHT 107'
 * IF dies in slips replaced

DST (5) 3313-3345 Arbuckle 30-45-30-45
 IF: BOB 5 1/2 min built to 71"
 IS: surf to 2 3/4"
 FF: BOB 5 min built to 71"
 FS: surf to 1 1/2"
 Total Rec: 1165' fluid 200' GIP
 20' GO (20G 800)
 600' GWCWO (30G 350 20W 15M)
 425' GWCWO w/ O spits (50G 45W 5M)
 FFP: 49-102 FFP: 312-508
 SIP: 834 FSP: 385
 HP: 1721 FHP: 1640
 41' Gravity BHT 110'
 RW 191 @ 85' CI 30,000 ppm



COMPANY Darrah Oil Company LLC
 LEASE Ted Bitter #2-6 N2 SE NE NE
 LOCATION 860' FNL 553' FEL SEC 6 TWP 16S RGE 13W
 COUNTY Barton STATE Ks

ELEVATIONS
 K.B. 1909
 D.F. 1898
 G.L. 1898
 All measurements from K.B. 1909





CEMENT TREATMENT REPORT

Customer: DARRAH OIL COMPANY	Well: TED BITTER 2-6	Ticket: WP1792
City, State:	County: BARTON,KS	Date: 8/27/2021
Field Rep: COOPER SEELY	S-T-R: 6-16S-13W	Service: LONGSTRING

Downhole Information	
Hole Size:	7 1/4 in
Hole Depth:	ft
Casing Size:	5 1/2 in 17#
Casing Depth:	ft
Tubing / Liner:	in
PLUG DEPTH:	3356 ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	78.6 bbls

Calculated Slurry - Lead	
Blend:	H-LONG
Weight:	15.0 ppg
Water / Sx:	6.0 gal / sx
Yield:	1.42 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	31.6 bbls
Total Sacks:	125 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
2:45PM			-	-	ON LOCATION- SPOT EQUIPMENT
2:50PM				-	RIG UP FOR JOB
				-	RIG RAN FLOAT EQUIPMENT
3:50PM	5.0	100.0	12.0	12.0	MUDFLUSH
4:00PM	5.0	100.0	20.0	32.0	H2o SPACER- 2% KCL
4:04PM	5.0	100.0	31.6	63.6	MIX 125 SKS H-LONG CEMENT @ 15 PPG
4:10PM				63.6	SHUT DOWN- CLEAR PUMP AND LINES - DROP LATCH DOWN PLUG
4:15PM	6.0	-	-	63.6	START DISPLACEMENT
4:22PM	5.0	250.0	45.0	108.6	LIFT PRESSURE
4:28PM	4.0	500.0	70.0	178.6	SLOW RATE
4:30PM	3.0	1,500.0	78.6	257.2	PLUG DOWN- HELD
					CIRCULATION THRU JOB
					PLUG RATHOLE W/ 30 SKS H-PLUG CEMENT
					PLUG MOUSEHOLE W/ 20 SKS H-PLUG CEMENT
					WASH UP PUMP TRUCK
					JOB COMPLETE,
					THANKS- KEVEN AND CREW

CREW		UNIT	SUMMARY		
Cementer:	LESLEY	75	Average Rate	Average Pressure	Total Fluid
Pump Operator:	MARTINEZ	267	4.7 bpm	354 psi	257 bbls
Bulk #1:	VALDEZ	182-533			
Bulk #2:					



CEMENT TREATMENT REPORT

Customer:	Darrah Oil Company	Well:	Ted Bitter 2-6	Ticket:	wp 1750
City, State:	Susank Kansas	County:	Barton Kansas	Date:	8/19/2021
Field Rep:		S-T-R:	6-16s-13w	Service:	8.625

Downhole Information		Calculated Slurry - Lead			Calculated Slurry - Tail		
Hole Size:	12 1/4 in	Blend:	60/40 2 & 3		Blend:		
Hole Depth:	410 ft	Weight:	14.8 ppg		Weight:	ppg	
Casing Size:	8 5/8 in	Water / Sx:	5.1 gal / sx		Water / Sx:	gal / sx	
Casing Depth:	410 ft	Yield:	1.21 ft ³ / sx		Yield:	ft ³ / sx	
Tubing / Liner:	in	Annular Bbls / Ft.:	bbs / ft.		Annular Bbls / Ft.:	bbs / ft.	
Depth:	ft	Depth:	ft		Depth:	ft	
Tool / Packer:		Annular Volume:	0.0 bbls		Annular Volume:	0 bbls	
Tool Depth:	ft	Excess:			Excess:		
Displacement:	25.0 bbls	Total Slurry:	59.2 bbls		Total Slurry:	0.0 bbls	
		Total Sacks:	275 sx		Total Sacks:	0 sx	

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
1:30 PM			-	-	on location job and safety
1:45 PM			-	-	spot trucks and rig up
2:30 PM				-	start casing in the hole
4:10 PM				-	casing on bottom and circulate
4:50 PM				-	start cement
	5.0	200.0	5.0	5.0	fresh water
	5.0	200.0	59.0	64.0	start cement
5:15 PM				64.0	cement in and shut down
				64.0	
5:20 PM	2.0	100.0			start displacement
5:30 PM	2.0	100.0	25.0		displacement in and close in the well
					cement did circulate
					plug down at 5:30 pm

CREW		UNIT	SUMMARY		
Cementer:	M Brungardt	916	Average Rate	Average Pressure	Total Fluid
Pump Operator:	R Osborn	176/521	3.5 bpm	150 psi	89 bbls
Bulk #1:	J Trivino	181/533			
Bulk #2:	B Whitfield				



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Darrah Oil Company LLC

6-16s-13w Barton KS

125 N Market Suite 1425
Wichita KS 67202+1720

Ted Bitter #2-6

Job Ticket: 67756

DST#: 1

ATTN: Larry Nicholson

Test Start: 2021.08.22 @ 21:15:00

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:32:07

Time Test Ended: 03:58:47

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J Staab

Unit No: 84

Interval: 2928.00 ft (KB) To 2965.00 ft (KB) (TVD)

Reference Elevations: 1909.00 ft (KB)

Total Depth: 2965.00 ft (KB) (TVD)

1898.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6838

Inside

Press@RunDepth: 24.07 psig @ 2929.00 ft (KB)

Capacity: psig

Start Date: 2021.08.22

End Date:

2021.08.23

Last Calib.: 2021.08.23

Start Time: 21:15:01

End Time:

03:58:47

Time On Btm: 2021.08.22 @ 23:32:02

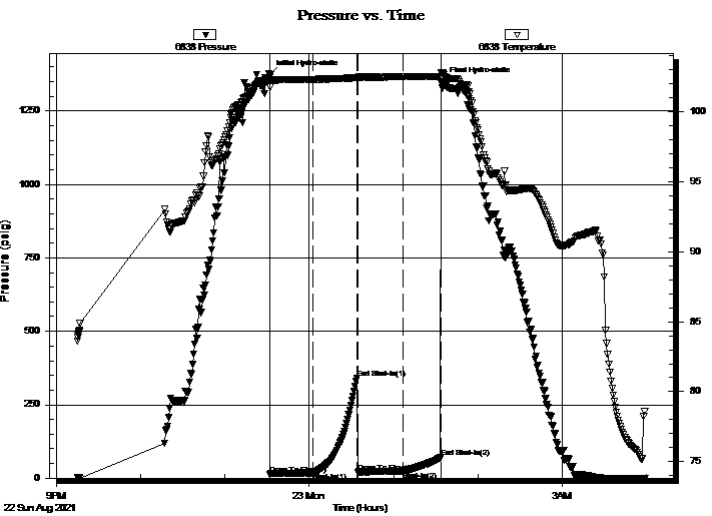
Time Off Btm: 2021.08.23 @ 01:35:17

TEST COMMENT: 30-IF-Surface to 1/2" Died back to Surface

30-ISI-No Return

30-FF-No Blow

30-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1372.61	102.44	Initial Hydro-static
1	13.71	101.75	Open To Flow (1)
31	18.53	102.29	Shut-In(1)
62	341.15	102.41	End Shut-In(1)
63	20.81	102.41	Open To Flow (2)
95	24.07	102.50	Shut-In(2)
122	70.05	102.52	End Shut-In(2)
124	1350.80	102.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Oil spotted Mud 100%M	0.05

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Darrah Oil Company LLC

6-16s-13w Barton KS

125 N Market Suite 1425
Wichita KS 67202+1720

Ted Bitter #2-6

ATTN: Larry Nicholson

Job Ticket: 67756

DST#: 1

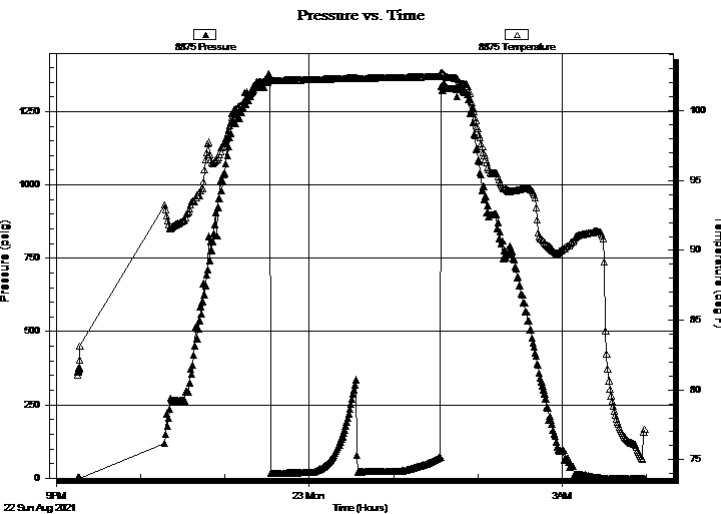
Test Start: 2021.08.22 @ 21:15:00

GENERAL INFORMATION:

Formation: **Oread**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 23:32:07
 Tester: Spencer J Staab
 Time Test Ended: 03:58:47
 Unit No: 84
Interval: 2928.00 ft (KB) To 2965.00 ft (KB) (TVD)
 Reference Elevations: 1909.00 ft (KB)
 Total Depth: 2965.00 ft (KB) (TVD)
 1898.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 11.00 ft

Serial #: 8875 Outside
 Press@RunDepth: psig @ 2929.00 ft (KB) Capacity: psig
 Start Date: 2021.08.22 End Date: 2021.08.23 Last Calib.: 2021.08.23
 Start Time: 21:15:01 End Time: 03:58:47 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF-Surface to 1/2" Died back to Surface
 30-ISI-No Return
 30-FF-No Blow
 30-FSI-No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Oil spotted Mud 100%M	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Company LLC

6-16s-13w Barton KS

125 N Market Suite 1425
Wichita KS 67202+1720

Ted Bitter #2-6

Job Ticket: 67756

DST#: 1

ATTN: Larry Nicholson

Test Start: 2021.08.22 @ 21:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Oil spotted Mud 100%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

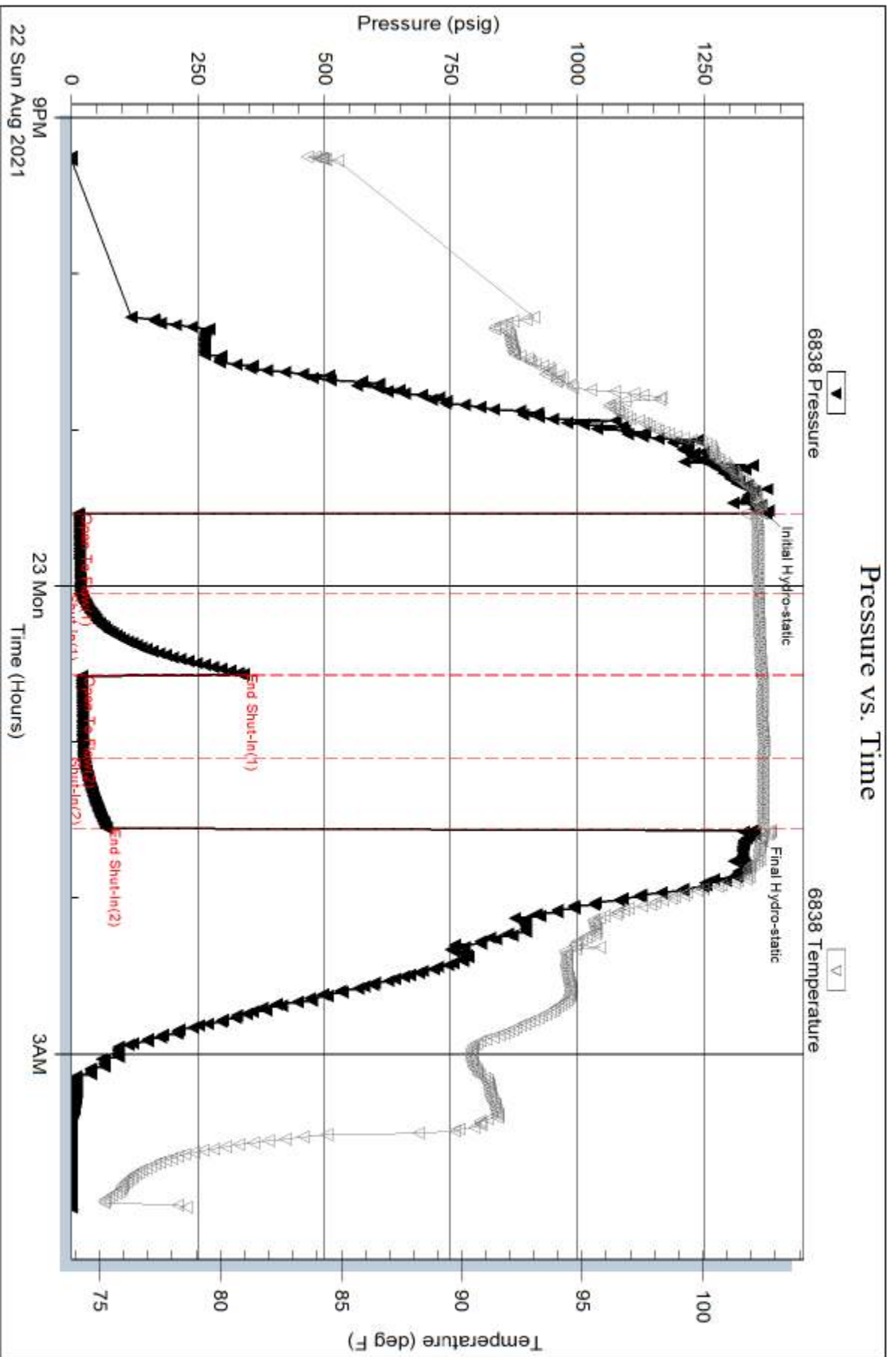
Serial #: 6838

Inside

Darrah Oil Company LLC

Ted Bitter #2-6

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 67756

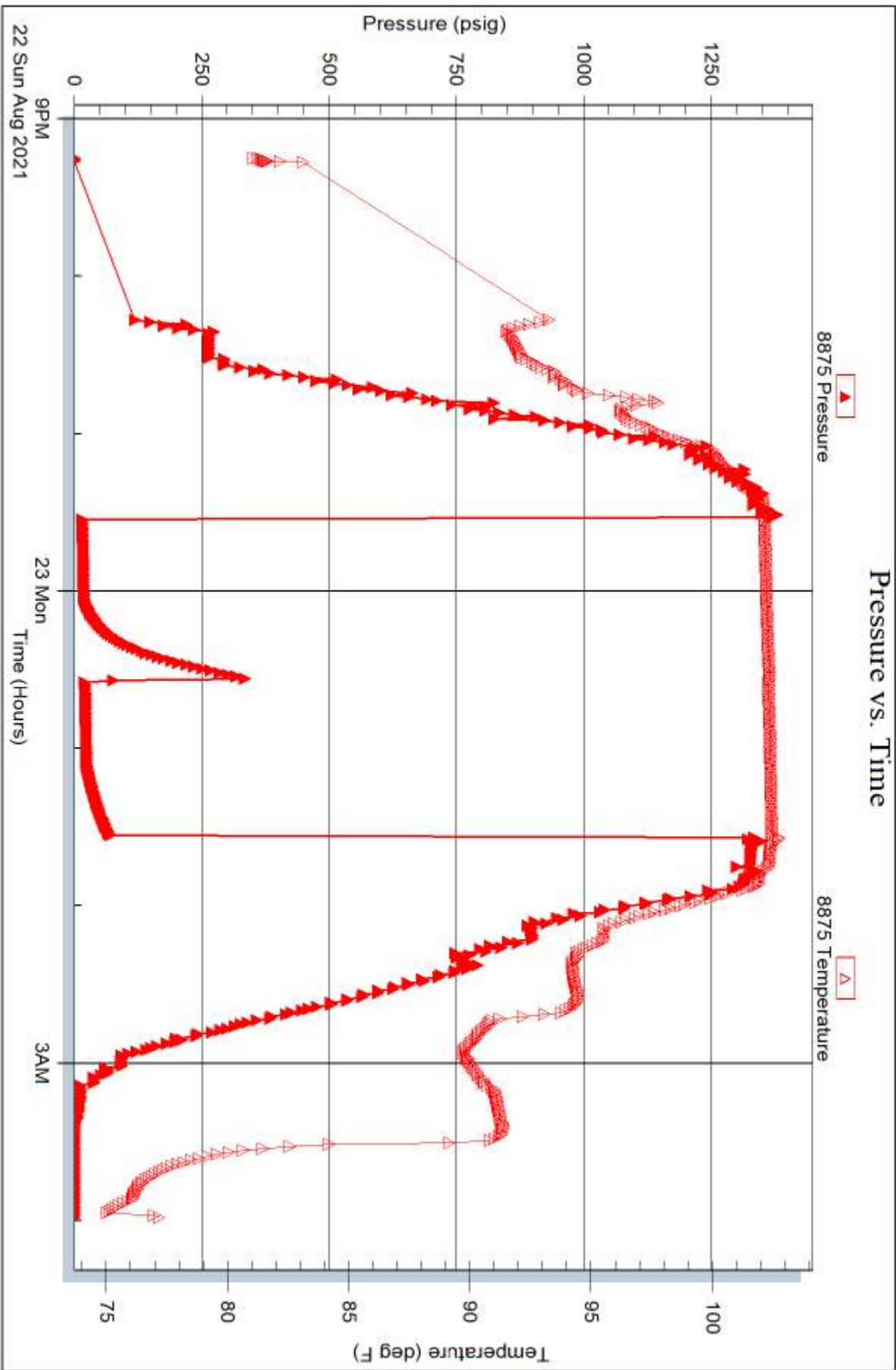
Printed: 2021.08.23 @ 07:14:54

Serial #: 8875

Outside Darrah Oil Company LLC

Ted Bitter #2-6

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Darrah Oil Company LLC

6-16s-13w Barton KS

125 N Market Suite 1425
Wichita KS 67202+1720

Ted Bitter #2-6

Job Ticket: 67757

DST#: 2

ATTN: Larry Nicholson

Test Start: 2021.08.24 @ 14:47:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:19:22

Time Test Ended: 22:03:26

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 3313.00 ft (KB) To 3352.00 ft (KB) (TVD)

Reference Elevations: 1909.00 ft (KB)

Total Depth: 3352.00 ft (KB) (TVD)

1898.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8875 Outside

Press@RunDepth: 1073.20 psig @ 3314.00 ft (KB)

Capacity: psig

Start Date: 2021.08.24

End Date:

2021.08.24

Last Calib.:

2021.08.24

Start Time: 14:47:01

End Time:

22:03:27

Time On Btm:

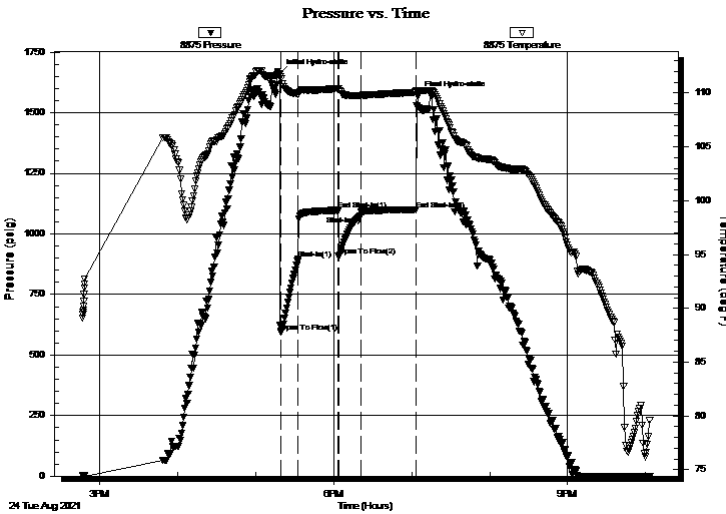
2021.08.24 @ 17:18:42

Time Off Btm:

2021.08.24 @ 19:04:52

TEST COMMENT: 15-IF-BOB 20 secs Built to 405"
30-ISI-No Return
15-FF-BOB 20 secs Bilt to 210"
45-FSI-Very Weak Surface Blow Died in 3 mins

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1662.03	111.75	Initial Hydro-static
1	594.41	111.52	Open To Flow (1)
15	897.25	109.89	Shut-In(1)
45	1097.04	110.39	End Shut-In(1)
46	906.75	110.36	Open To Flow (2)
63	1073.20	109.78	Shut-In(2)
105	1100.26	110.10	End Shut-In(2)
107	1572.00	110.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2070.00	GMW 10%G 5%M 85%W	27.70
315.00	GOCMW 10%G 10%O 10%M 70%W	4.47
15.00	GO 10%G 90%O	0.21
0.00	90 GIP 100%G	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

6-16s-13w Barton KS

125 N Market Suite 1425
Wichita KS 67202+1720

Ted Bitter #2-6

Job Ticket: 67757

DST#: 2

ATTN: Larry Nicholson

Test Start: 2021.08.24 @ 14:47:00

GENERAL INFORMATION:

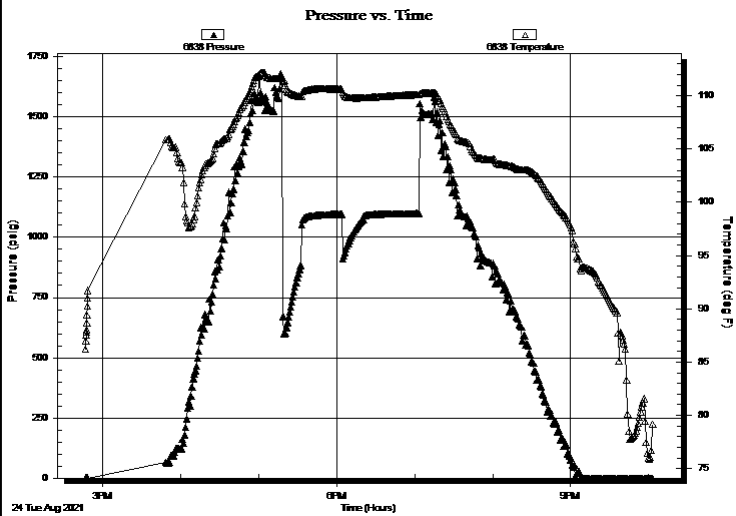
Formation: Arbuckle	Deviated: No Whipstock: ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 17:19:22	Time Test Ended: 22:03:26	Tester: Spencer J Staab
Interval: 3313.00 ft (KB) To 3352.00 ft (KB) (TVD)		Unit No: 84
Total Depth: 3352.00 ft (KB) (TVD)		Reference Elevations: 1909.00 ft (KB)
Hole Diameter: 7.88 inches	Hole Condition: Fair	1898.00 ft (CF)
		KB to GR/CF: 11.00 ft

Serial #: 6838 Inside

Press@RunDepth: psig @ 3314.00 ft (KB)	Capacity: psig
Start Date: 2021.08.24 End Date: 2021.08.24	Last Calib.: 2021.08.24
Start Time: 14:47:01 End Time: 22:03:27	Time On Btm: 22:03:27
	Time Off Btm: 22:03:27

TEST COMMENT: 15-IF-BOB 20 secs Built to 405"
30-ISI-No Return
15-FF-BOB 20 secs Bilt to 210"
45-FSI-Very Weak Surface Blow Died in 3 mins

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
2070.00	GMW 10%G 5%M 85%W	27.70
315.00	GOCMW 10%G 10%O 10%M 70%W	4.47
15.00	GO 10%G 90%O	0.21
0.00	90 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

6-16s-13w Barton KS

125 N Market Suite 1425
Wichita KS 67202+1720

Ted Bitter #2-6

Job Ticket: 67757

DST#: 2

ATTN: Larry Nicholson

Test Start: 2021.08.24 @ 14:47:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

30000 ppm

Viscosity: sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2070.00	GMW 10%G 5%M 85%W	27.695
315.00	GOCMW 10%G 10%O 10%M 70%W	4.465
15.00	GO 10%G 90%O	0.213
0.00	90 GIP 100%G	0.000

Total Length: 2400.00 ft Total Volume: 32.373 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

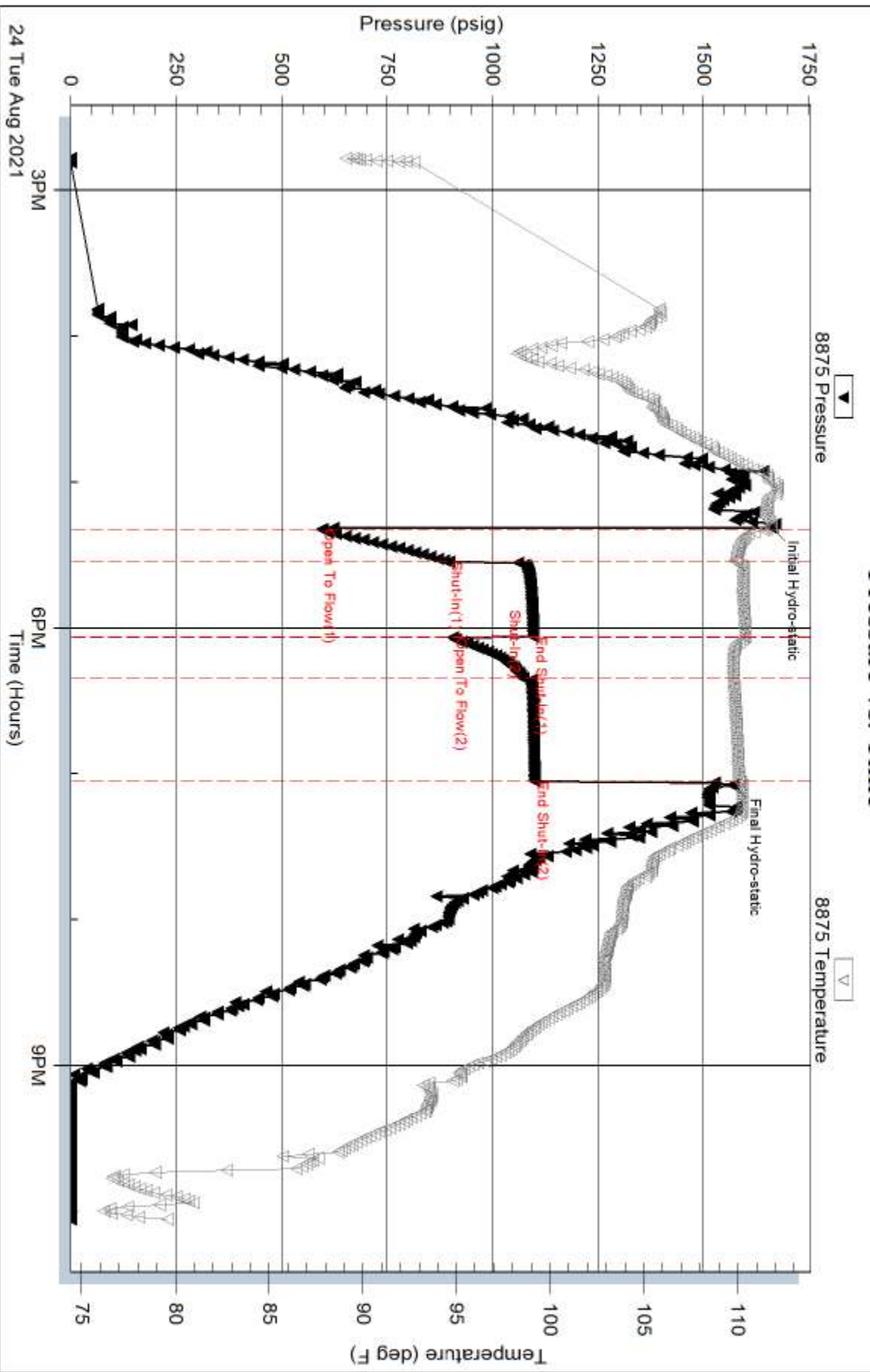
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.201@82F

Pressure vs. Time



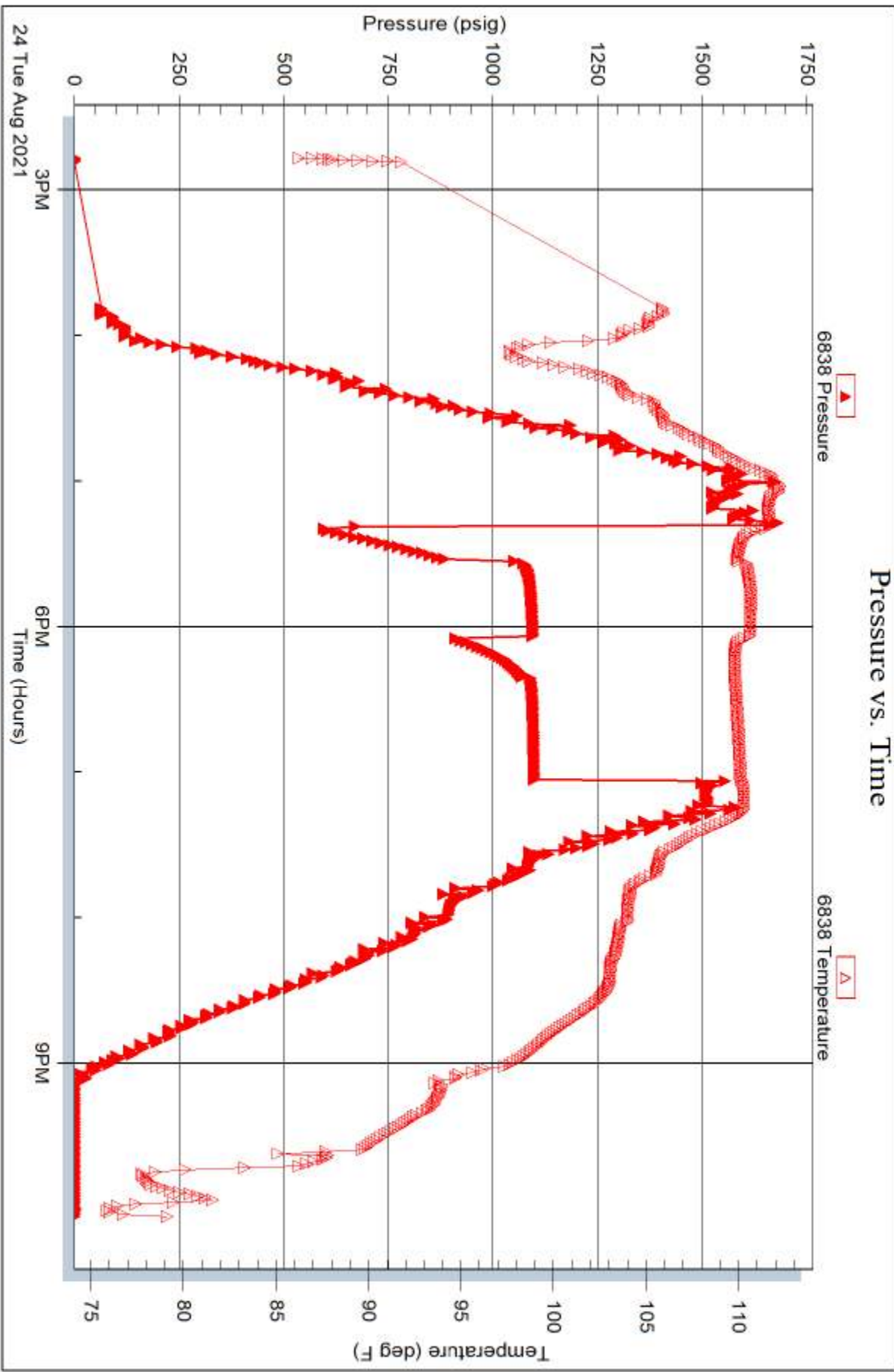
Serial #: 6838

Inside

Darrah Oil Company LLC

Ted Bitter #2-6

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 67757

Printed: 2021.08.25 @ 07:03:06



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Darrah Oil Company LLC

6-16s-13w Barton KS

125 N Market Suite 1425
Wichita KS 67202+1720

Ted Bitter #2-6

Job Ticket: 67758

DST#: 3

ATTN: Larry Nicholson

Test Start: 2021.08.25 @ 20:15:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:30:37

Time Test Ended: 03:14:47

Test Type: Conventional Straddle (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 3313.00 ft (KB) To 3344.00 ft (KB) (TVD)

Reference Elevations: 1909.00 ft (KB)

Total Depth: 3427.00 ft (KB) (TVD)

1898.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8875 Outside

Press@RunDepth: 42.71 psig @ 3314.00 ft (KB)

Capacity: psig

Start Date: 2021.08.25

End Date:

2021.08.26

Last Calib.:

2021.08.26

Start Time: 20:15:01

End Time:

03:14:47

Time On Btm:

2021.08.25 @ 22:30:32

Time Off Btm:

2021.08.26 @ 00:53:02

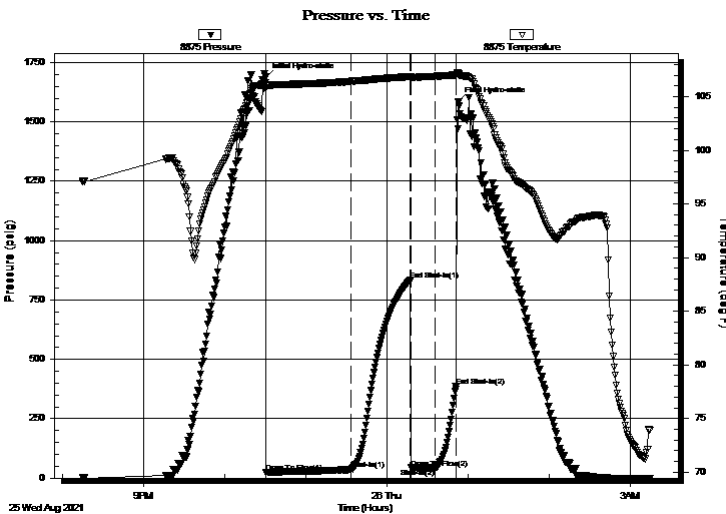
TEST COMMENT: 60-IF-Surface to 1/2" Died @ 30 mins Supposed to shut in @ 30

45-ISI-No Return

15-FF-No Blow

15-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1686.20	106.27	Initial Hydro-static
1	22.88	105.72	Open To Flow (1)
64	36.02	106.42	Shut-In(1)
107	834.71	106.86	End Shut-In(1)
108	43.31	106.56	Open To Flow (2)
126	42.71	106.90	Shut-In(2)
141	385.81	107.03	End Shut-In(2)
143	1583.92	107.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	OSM 100%M	0.12

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Darrah Oil Company LLC

6-16s-13w Barton KS

125 N Market Suite 1425
Wichita KS 67202+1720

Ted Bitter #2-6

ATTN: Larry Nicholson

Job Ticket: 67758

DST#: 3

Test Start: 2021.08.25 @ 20:15:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:30:37

Time Test Ended: 03:14:47

Interval: 3313.00 ft (KB) To 3344.00 ft (KB) (TVD)

Total Depth: 3427.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Straddle (Reset)

Tester: Spencer J Staab

Unit No: 84

Reference Elevations: 1909.00 ft (KB)

1898.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6838 Inside

Press@RunDepth: psig @ 3314.00 ft (KB)

Start Date: 2021.08.25 End Date: 2021.08.26

Start Time: 20:15:01 End Time: 03:14:47

Capacity: psig

Last Calib.: 2021.08.26

Time On Btm:

Time Off Btm:

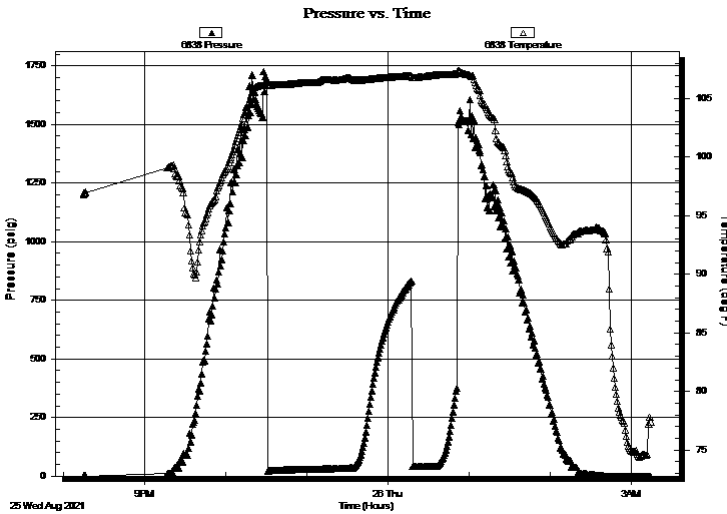
TEST COMMENT: 60-IF-Surface to 1/2" Died @ 30 mins Supposed to shut in @ 30

45-ISI-No Return

15-FF-No Blow

15-FSI-No Return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
25.00	OSM 100%M	0.12

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

6-16s-13w Barton KS

125 N Market Suite 1425
Wichita KS 67202+1720

Ted Bitter #2-6

ATTN: Larry Nicholson

Job Ticket: 67758

DST#: 3

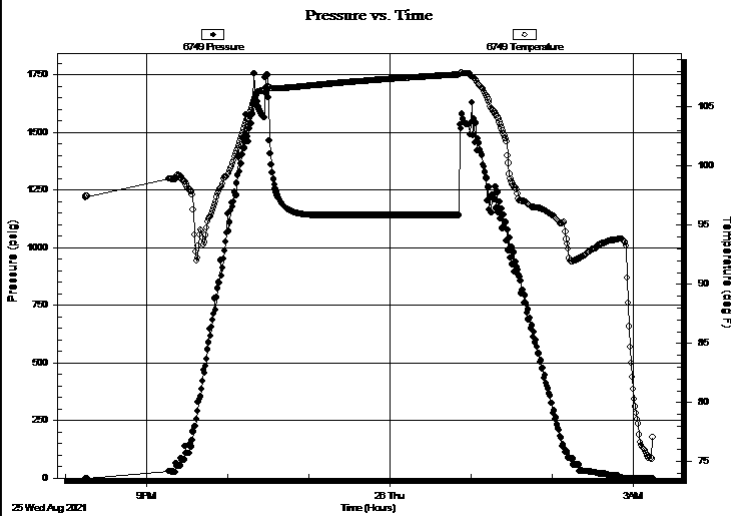
Test Start: 2021.08.25 @ 20:15:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Straddle (Reset)
 Time Tool Opened: 22:30:37
 Tester: Spencer J Staab
 Time Test Ended: 03:14:47
 Unit No: 84
Interval: 3313.00 ft (KB) To 3344.00 ft (KB) (TVD)
 Reference Elevations: 1909.00 ft (KB)
 Total Depth: 3427.00 ft (KB) (TVD)
 1898.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 11.00 ft

Serial #: 6749 Below (Straddle)
 Press@RunDepth: psig @ 3356.00 ft (KB) Capacity: psig
 Start Date: 2021.08.25 End Date: 2021.08.26 Last Calib.: 2021.08.26
 Start Time: 20:15:01 End Time: 03:14:47 Time On Btm:
 Time Off Btm:

TEST COMMENT: 60-IF-Surface to 1/2" Died @ 30 mins Supposed to shut in @ 30
 45-ISI-No Return
 15-FF-No Blow
 15-FSI-No Return



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

Recovery		
Length (ft)	Description	Volume (bbl)
25.00	OSM 100%M	0.12

* 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

6-16s-13w Barton KS

125 N Market Suite 1425
Wichita KS 67202+1720

Ted Bitter #2-6

Job Ticket: 67758

DST#: 3

ATTN: Larry Nicholson

Test Start: 2021.08.25 @ 20:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	OSM 100%M	0.123

Total Length: 25.00 ft Total Volume: 0.123 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

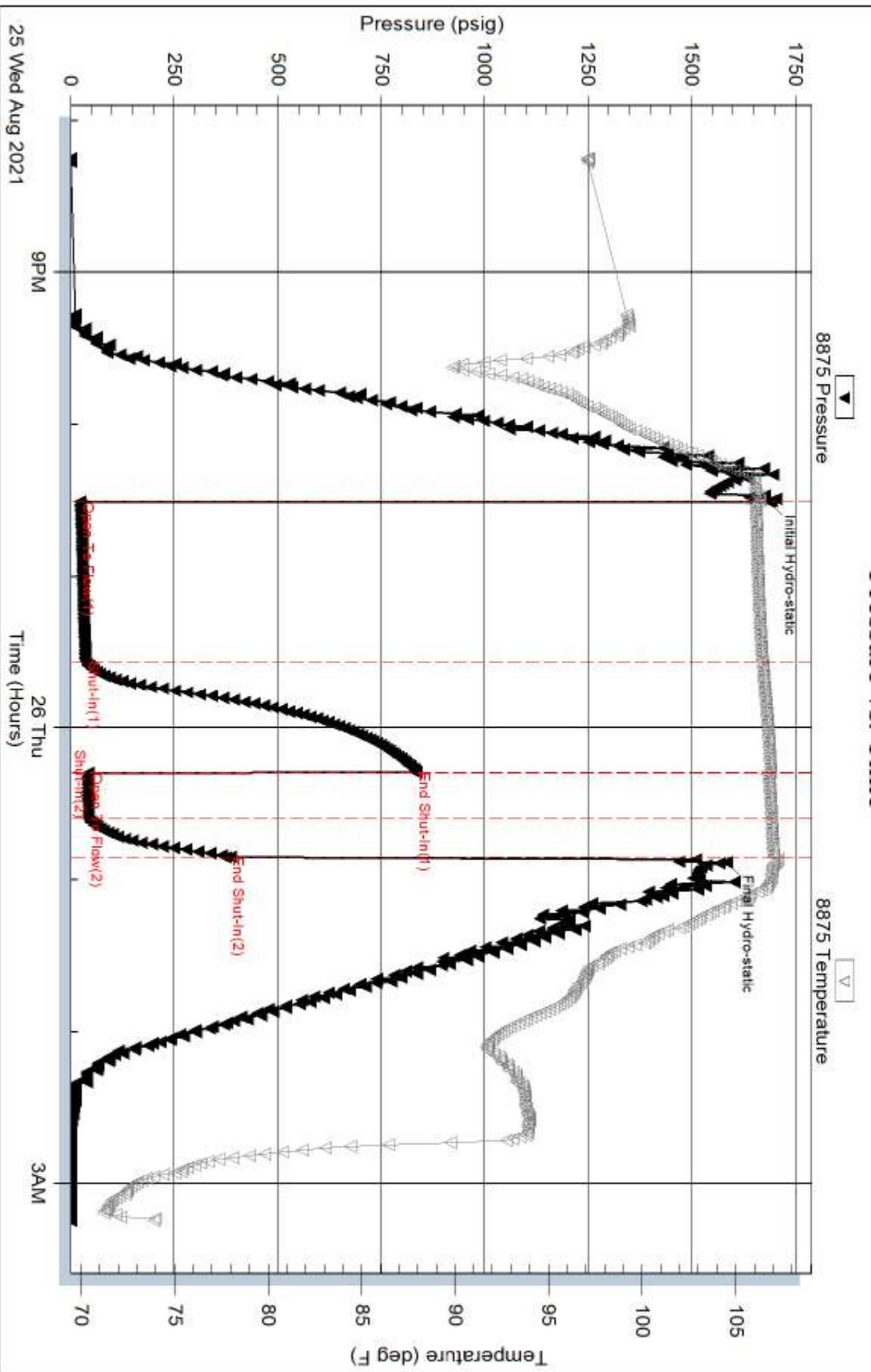
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



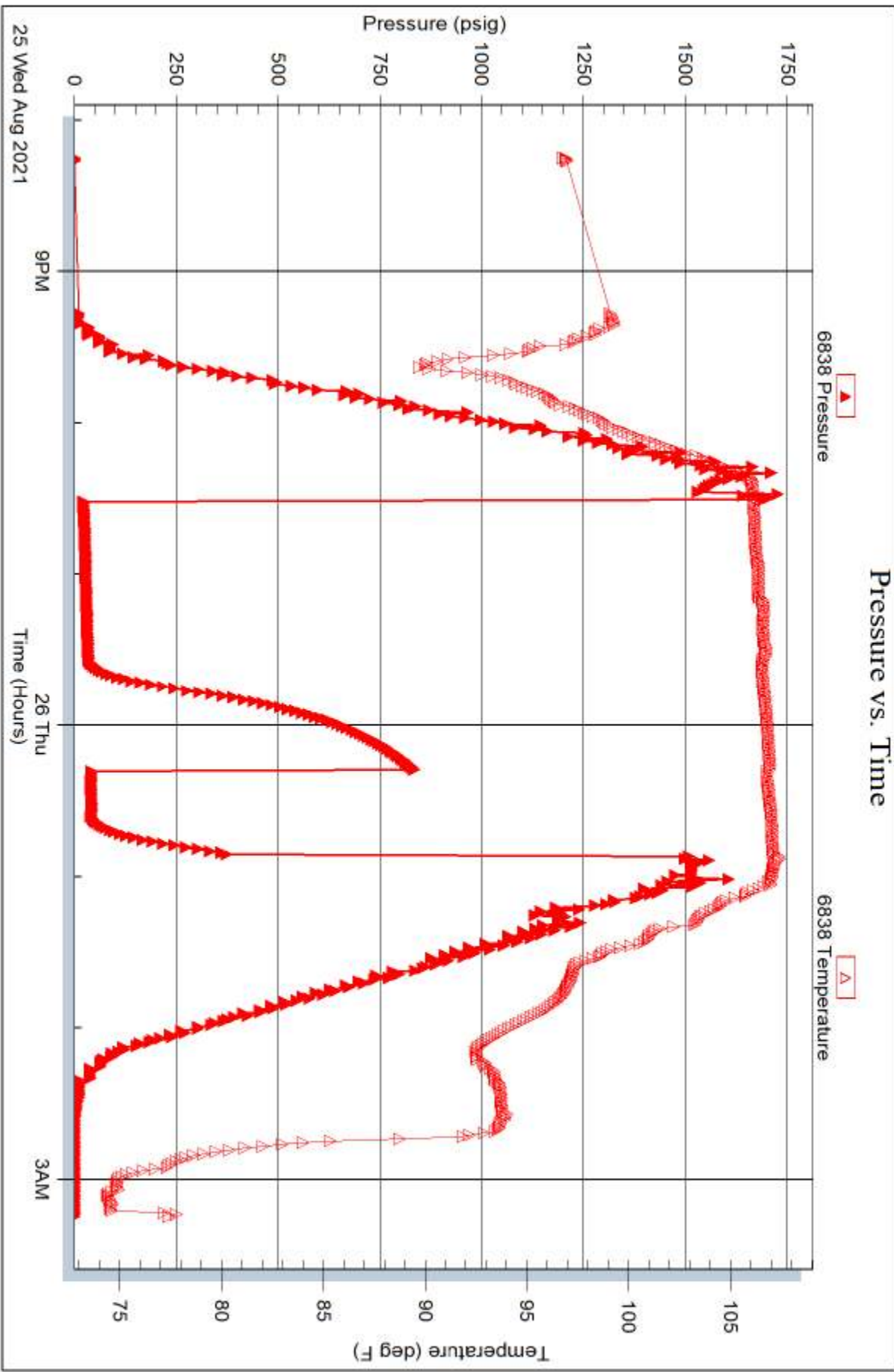
Serial #: 6838

Inside

Darrah Oil Company LLC

Ted Bitter #2-6

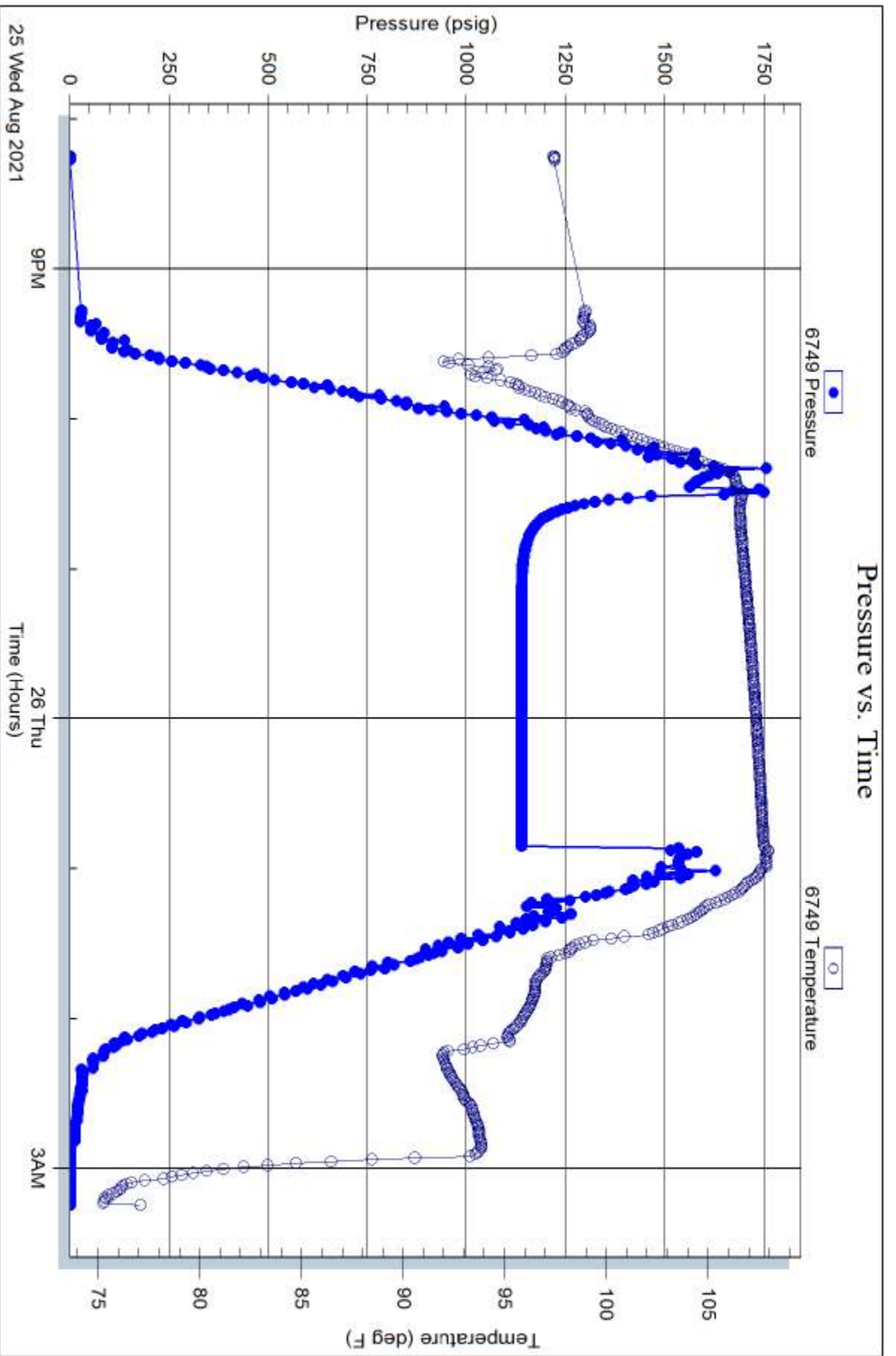
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 67758

Printed: 2021.08.26 @ 09:29:55





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Darrah Oil Company LLC

6-16s-13w Barton KS

125 N Market Suite 1425
Wichita KS 67202+1720

Ted Bitter #2-6

Job Ticket: 67759

DST#: 4

ATTN: Larry Nicholson

Test Start: 2021.08.26 @ 04:20:00

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:23:47

Time Test Ended: 10:19:52

Test Type: Conventional Straddle (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 3216.00 ft (KB) To 3292.00 ft (KB) (TVD)

Reference Elevations: 1909.00 ft (KB)

Total Depth: 3427.00 ft (KB) (TVD)

1898.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6838

Inside

Press@RunDepth: 23.45 psig @ 3219.00 ft (KB)

Capacity: psig

Start Date: 2021.08.26

End Date:

2021.08.26

Last Calib.:

2021.08.26

Start Time: 04:20:01

End Time:

10:19:52

Time On Btm:

2021.08.26 @ 06:23:42

Time Off Btm:

2021.08.26 @ 08:17:32

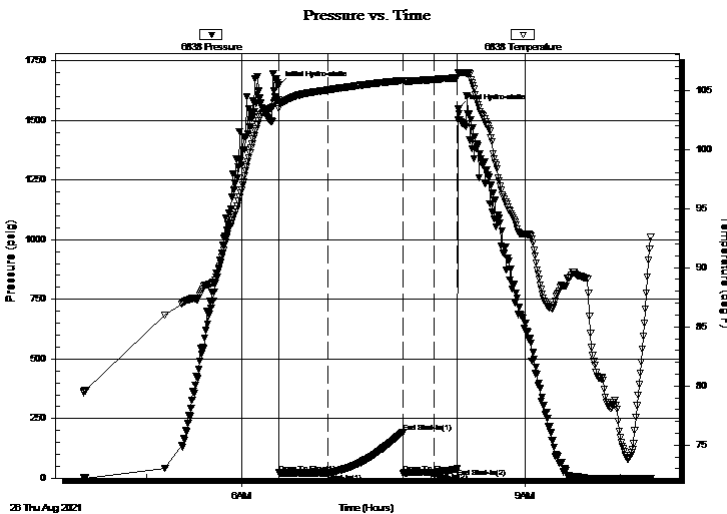
TEST COMMENT: 30-IF-Surface Blow Died in 12 mins

45-ISI-No Return

15-FF-No Blow

15-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1647.72	104.18	Initial Hydro-static
1	21.55	103.41	Open To Flow (1)
31	21.14	105.01	Shut-In(1)
79	191.40	105.81	End Shut-In(1)
79	20.52	105.80	Open To Flow (2)
99	23.45	105.90	Shut-In(2)
114	39.63	106.07	End Shut-In(2)
114	1547.83	106.47	Final Hydro-static

Recovery

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

* 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

125 N Market Suite 1425
Wichita KS 67202+1720

ATTN: Larry Nicholson

6-16s-13w Barton KS

Ted Bitter #2-6

Job Ticket: 67759

DST#: 4

Test Start: 2021.08.26 @ 04:20:00

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:23:47

Time Test Ended: 10:19:52

Test Type: Conventional Straddle (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 3216.00 ft (KB) To 3292.00 ft (KB) (TVD)

Total Depth: 3427.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1909.00 ft (KB)

1898.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8875

Inside

Press@RunDepth: psig @ 3219.00 ft (KB)

Start Date: 2021.08.26

End Date:

2021.08.26

Start Time: 04:20:01

End Time:

10:19:52

Capacity: psig

Last Calib.:

2021.08.26

Time On Btm:

Time Off Btm:

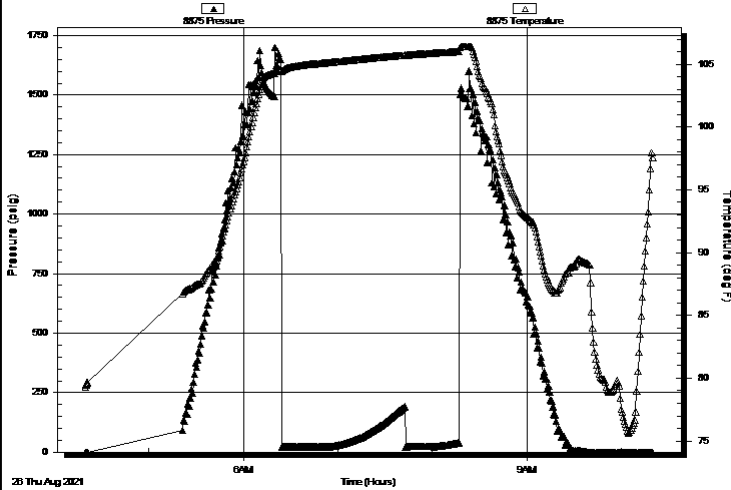
TEST COMMENT: 30-IF-Surface Blow Died in 12 mins

45-ISI-No Return

15-FF-No Blow

15-FSI-No Return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

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

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

125 N Market Suite 1425
Wichita KS 67202+1720

ATTN: Larry Nicholson

6-16s-13w Barton KS

Ted Bitter #2-6

Job Ticket: 67759

DST#: 4

Test Start: 2021.08.26 @ 04:20:00

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:23:47

Time Test Ended: 10:19:52

Test Type: Conventional Straddle (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 3216.00 ft (KB) To 3292.00 ft (KB) (TVD)

Reference Elevations: 1909.00 ft (KB)

Total Depth: 3427.00 ft (KB) (TVD)

1898.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6749 Below (Straddle)

Press@RunDepth: psig @ 3296.00 ft (KB)

Capacity: psig

Start Date: 2021.08.26

End Date:

2021.08.26

Last Calib.:

2021.08.26

Start Time: 04:20:01

End Time:

10:19:52

Time On Btm:

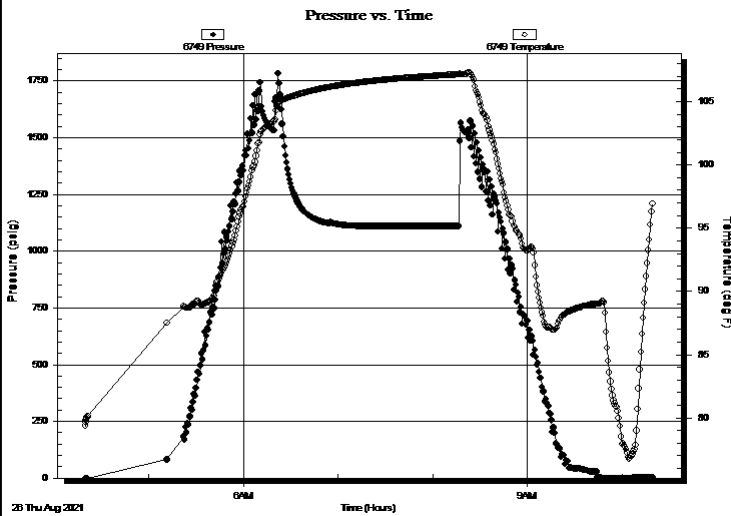
Time Off Btm:

TEST COMMENT: 30-IF-Surface Blow Died in 12 mins

45-ISI-No Return

15-FF-No Blow

15-FSI-No Return



PRESSURE SUMMARY

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

Recovery

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

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

6-16s-13w Barton KS

125 N Market Suite 1425
Wichita KS 67202+1720

Ted Bitter #2-6

Job Ticket: 67759

DST#: 4

ATTN: Larry Nicholson

Test Start: 2021.08.26 @ 04:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OSM 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

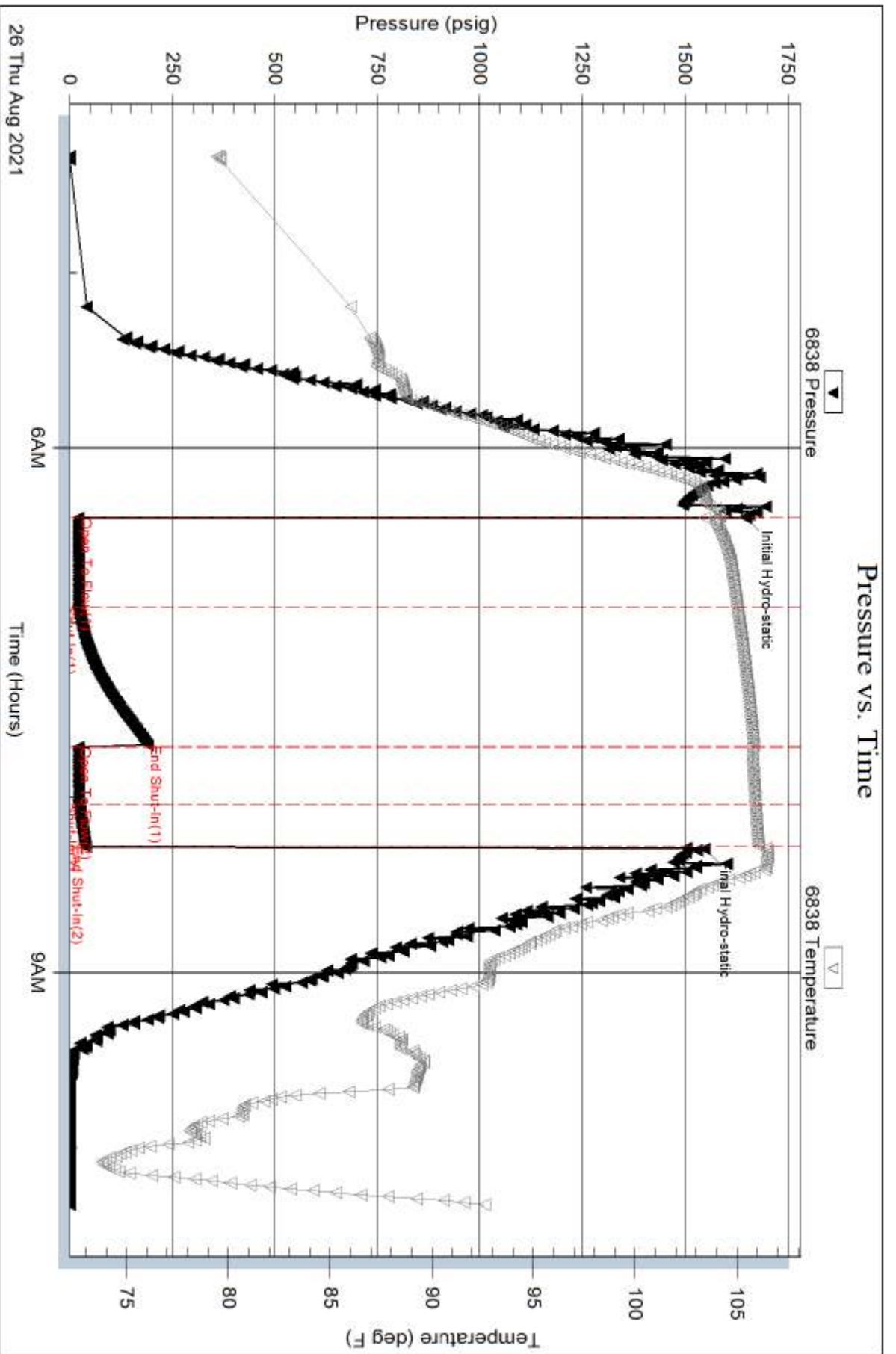
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



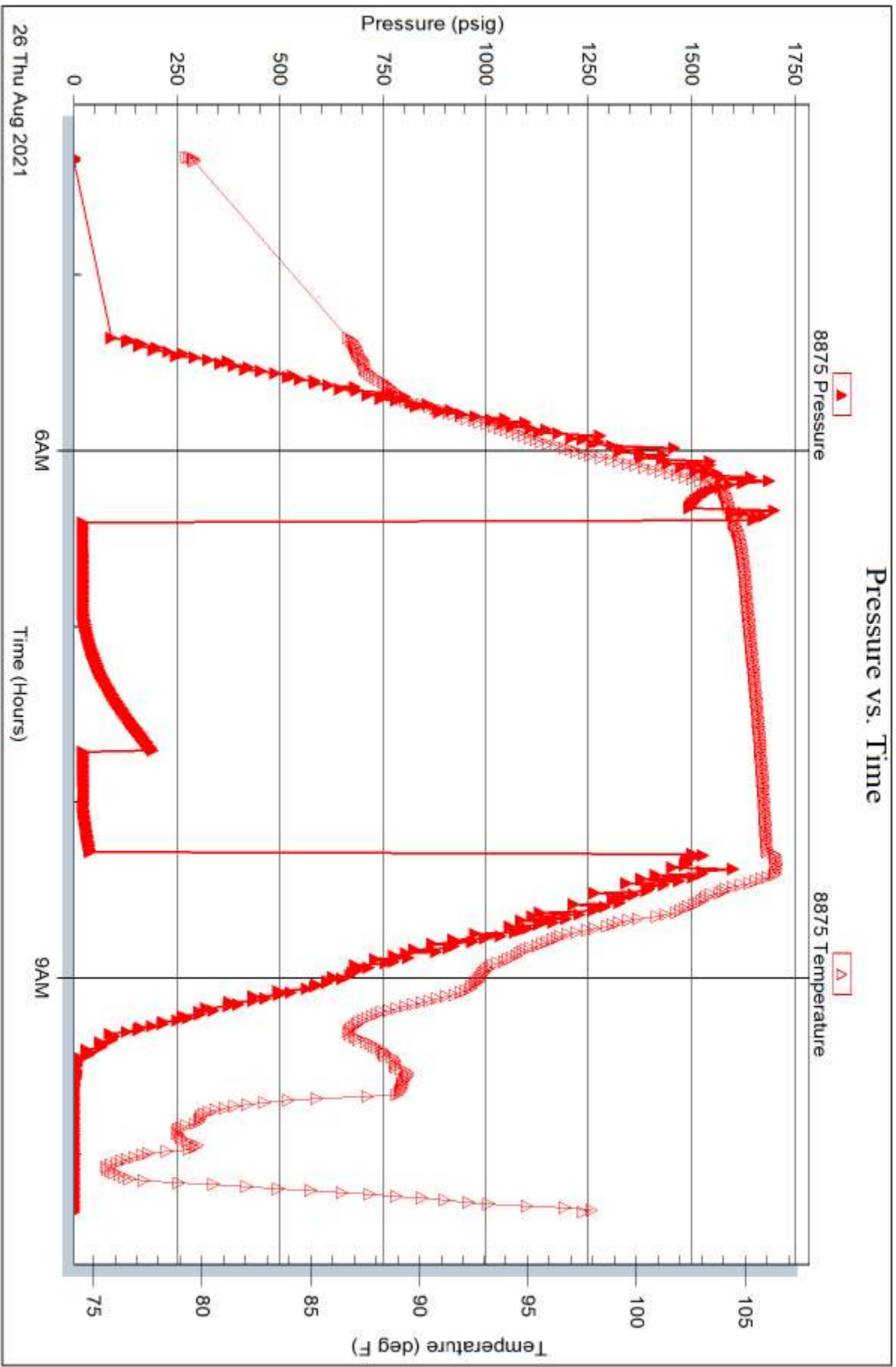
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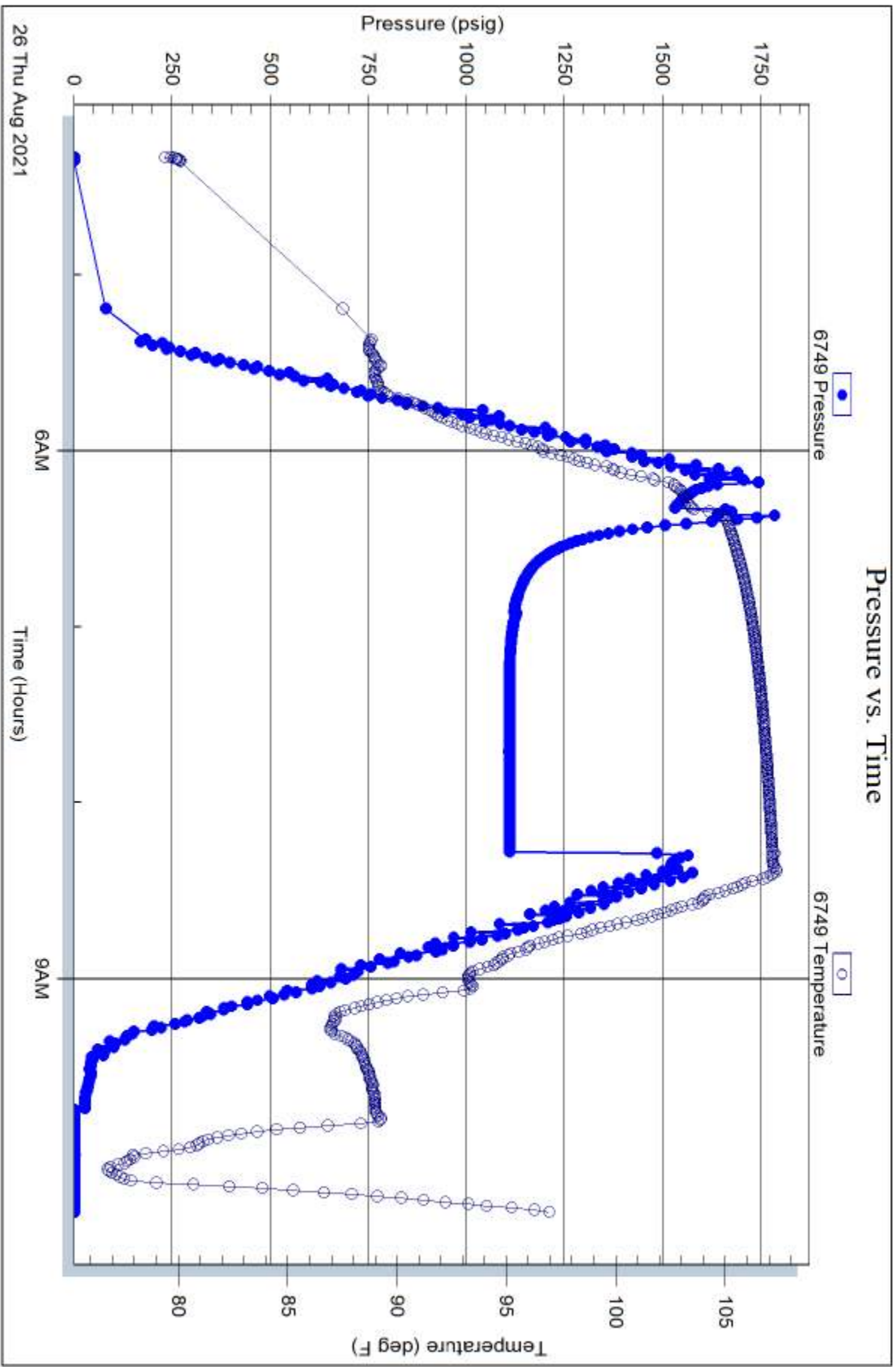
Inside

Darrah Oil Company LLC

Ted Bitter #2-6

DST Test Number: 4







TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Darrah Oil Company LLC

6-16s-13w Barton KS

125 N Market Suite 1425
Wichita KS 67202+1720

Ted Bitter #2-6

Job Ticket: 67760

DST#: 5

ATTN: Larry Nicholson

Test Start: 2021.08.26 @ 12:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:16:17

Time Test Ended: 19:54:27

Test Type: Conventional Straddle (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 3313.00 ft (KB) To 3348.00 ft (KB) (TVD)

Reference Elevations: 1909.00 ft (KB)

Total Depth: 3427.00 ft (KB) (TVD)

1898.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6838

Inside

Press@RunDepth: 508.06 psig @ 3314.00 ft (KB)

Capacity: psig

Start Date: 2021.08.26

End Date:

2021.08.26

Last Calib.:

2021.08.26

Start Time: 12:10:01

End Time:

19:54:27

Time On Btm:

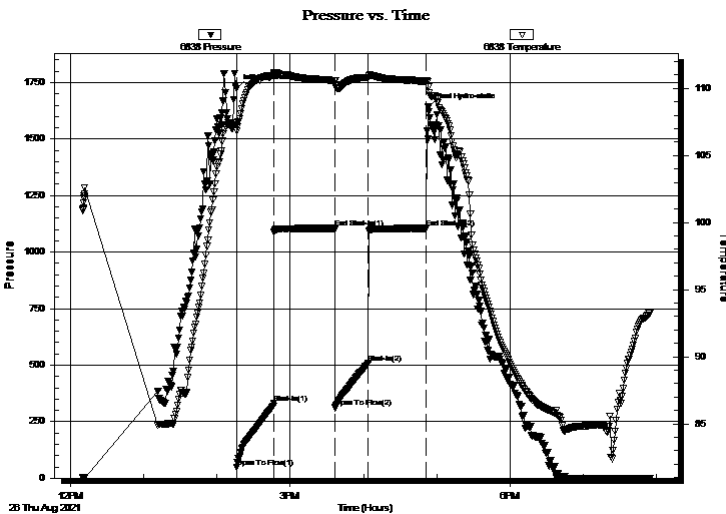
2021.08.26 @ 14:16:07

Time Off Btm:

2021.08.26 @ 16:53:07

TEST COMMENT: 30-IF-BOB 5 1/2 mins Built to 75"
45-ISI-Surface to 2 3/4"
30-FF-BOB 5 mins Built to 71"
45-FSI-Surface to 1 1/2"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1721.88	107.44	Initial Hydro-static
1	48.70	106.81	Open To Flow (1)
31	332.40	111.01	Shut-In(1)
81	1105.56	110.54	End Shut-In(1)
81	312.12	110.24	Open To Flow (2)
108	508.06	110.81	Shut-In(2)
156	1105.37	110.55	End Shut-In(2)
157	1640.92	110.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMCW w/oil spots 50%G 5%M 45%W	0.59
425.00	GWCO 60%G 20% W 20%O	5.49
600.00	GMCWO 30%G 15%M 20%W 35%O	8.51
20.00	GO 20%G 80%O	0.28
0.00	200 GIP 100%G	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

6-16s-13w Barton KS

125 N Market Suite 1425
Wichita KS 67202+1720

Ted Bitter #2-6

Job Ticket: 67760

DST#: 5

ATTN: Larry Nicholson

Test Start: 2021.08.26 @ 12:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:16:17

Time Test Ended: 19:54:27

Test Type: Conventional Straddle (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 3313.00 ft (KB) To 3348.00 ft (KB) (TVD)

Reference Elevations: 1909.00 ft (KB)

Total Depth: 3427.00 ft (KB) (TVD)

1898.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8875 Outside

Press@RunDepth: psig @ 3314.00 ft (KB)

Capacity: psig

Start Date: 2021.08.26

End Date:

2021.08.26

Last Calib.:

2021.08.26

Start Time: 12:10:01

End Time:

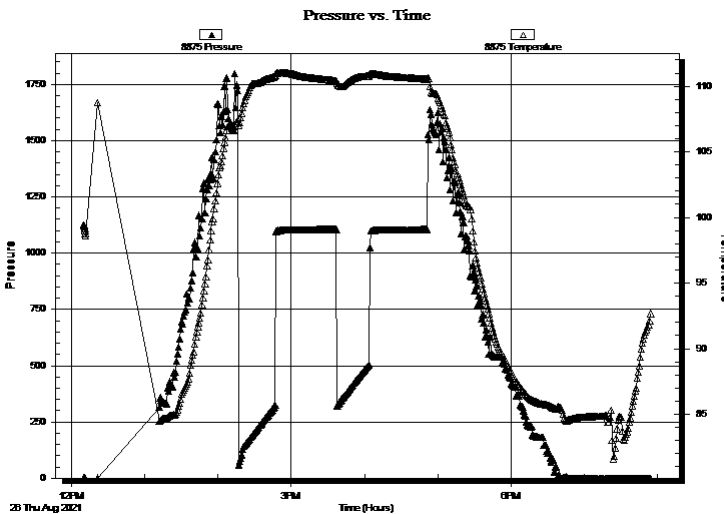
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Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-BOB 5 1/2 mins Built to 75"
45-ISI-Surface to 2 3/4"
30-FF-BOB 5 mins Built to 71"
45-FSI-Surface to 1 1/2"

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMCW w/oil spots 50%G 5%M 45%W	0.59
425.00	GWCO 60%G 20% W 20%O	5.49
600.00	GMCWO 30%G 15%M 20%W 35%O	8.51
20.00	GO 20%G 80%O	0.28
0.00	200 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

Darrah Oil Company LLC

125 N Market Suite 1425
Wichita KS 67202+1720

ATTN: Larry Nicholson

6-16s-13w Barton KS

Ted Bitter #2-6

Job Ticket: 67760

DST#: 5

Test Start: 2021.08.26 @ 12:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:16:17

Time Test Ended: 19:54:27

Test Type: Conventional Straddle (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 3313.00 ft (KB) To 3348.00 ft (KB) (TVD)

Total Depth: 3427.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1909.00 ft (KB)

1898.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6749 Below (Straddle)

Press@RunDepth: psig @ 3358.00 ft (KB)

Start Date: 2021.08.26

End Date:

2021.08.26

Start Time: 12:10:01

End Time:

19:54:27

Capacity: psig

Last Calib.:

2021.08.26

Time On Btm:

Time Off Btm:

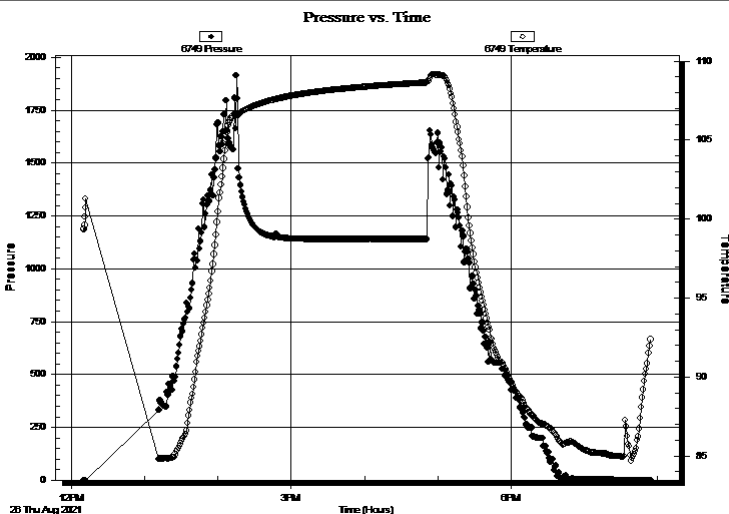
TEST COMMENT: 30-IF-BOB 5 1/2 mins Built to 75"

45-ISI-Surface to 2 3/4"

30-FF-BOB 5 mins Built to 71"

45-FSI-Surface to 1 1/2"

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMCW w/oil spots 50%G 5%M 45%W	0.59
425.00	GWCO 60%G 20% W 20%O	5.49
600.00	GMCWO 30%G 15%M 20%W 35%O	8.51
20.00	GO 20%G 80%O	0.28
0.00	200 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

6-16s-13w Barton KS

125 N Market Suite 1425
Wichita KS 67202+1720

Ted Bitter #2-6

Job Ticket: 67760

DST#: 5

ATTN: Larry Nicholson

Test Start: 2021.08.26 @ 12:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

30000 ppm

Viscosity: sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GMCW w /oil spots 50%G 5%M 45%W	0.590
425.00	GWCO 60%G 20% W 20%O	5.488
600.00	GMCWO 30%G 15%M 20%W 35%O	8.505
20.00	GO 20%G 80%O	0.284
0.00	200 GIP 100%G	0.000

Total Length: 1165.00 ft Total Volume: 14.867 bbl

Num Fluid Samples: 0

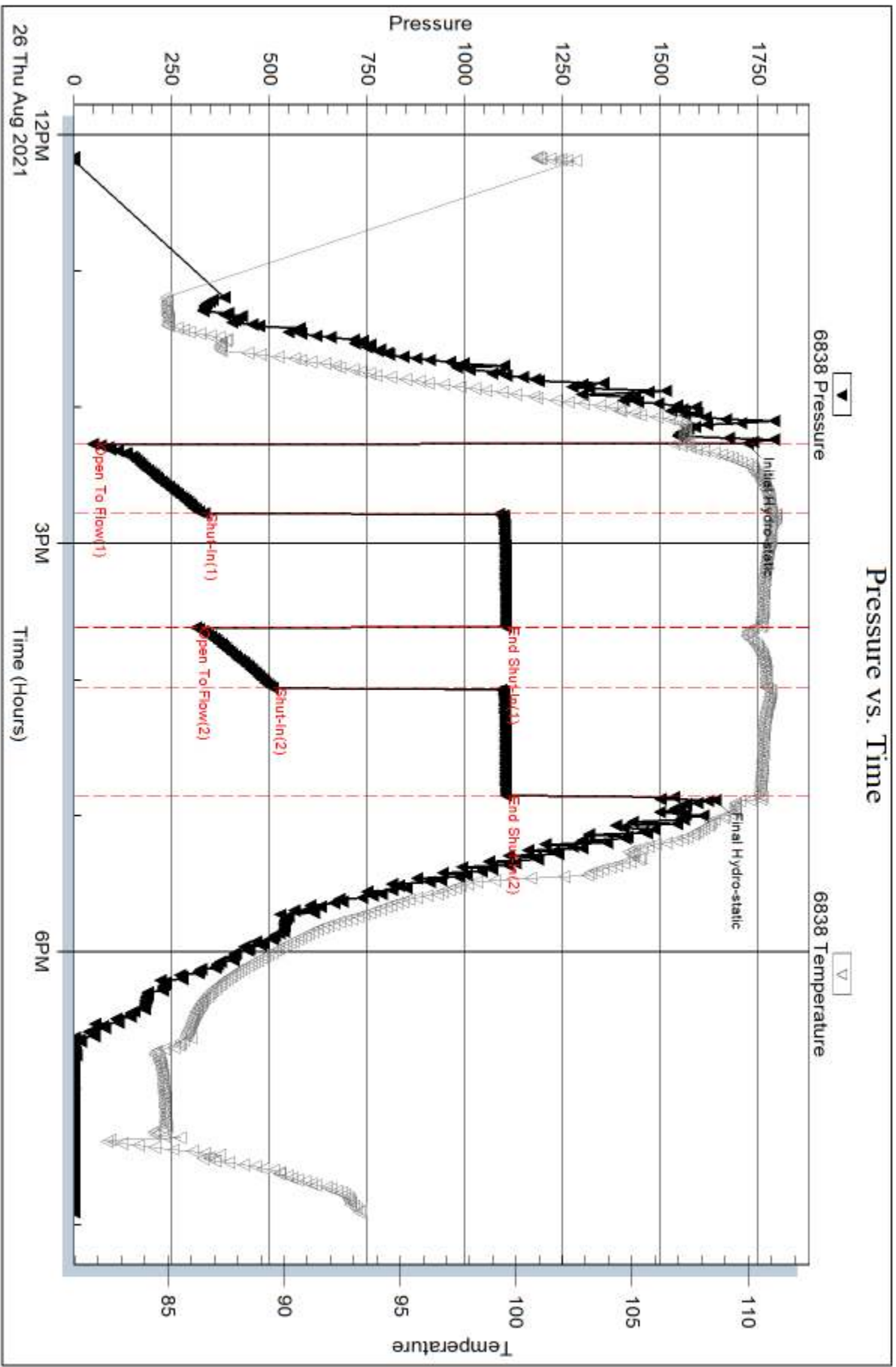
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.191@85F

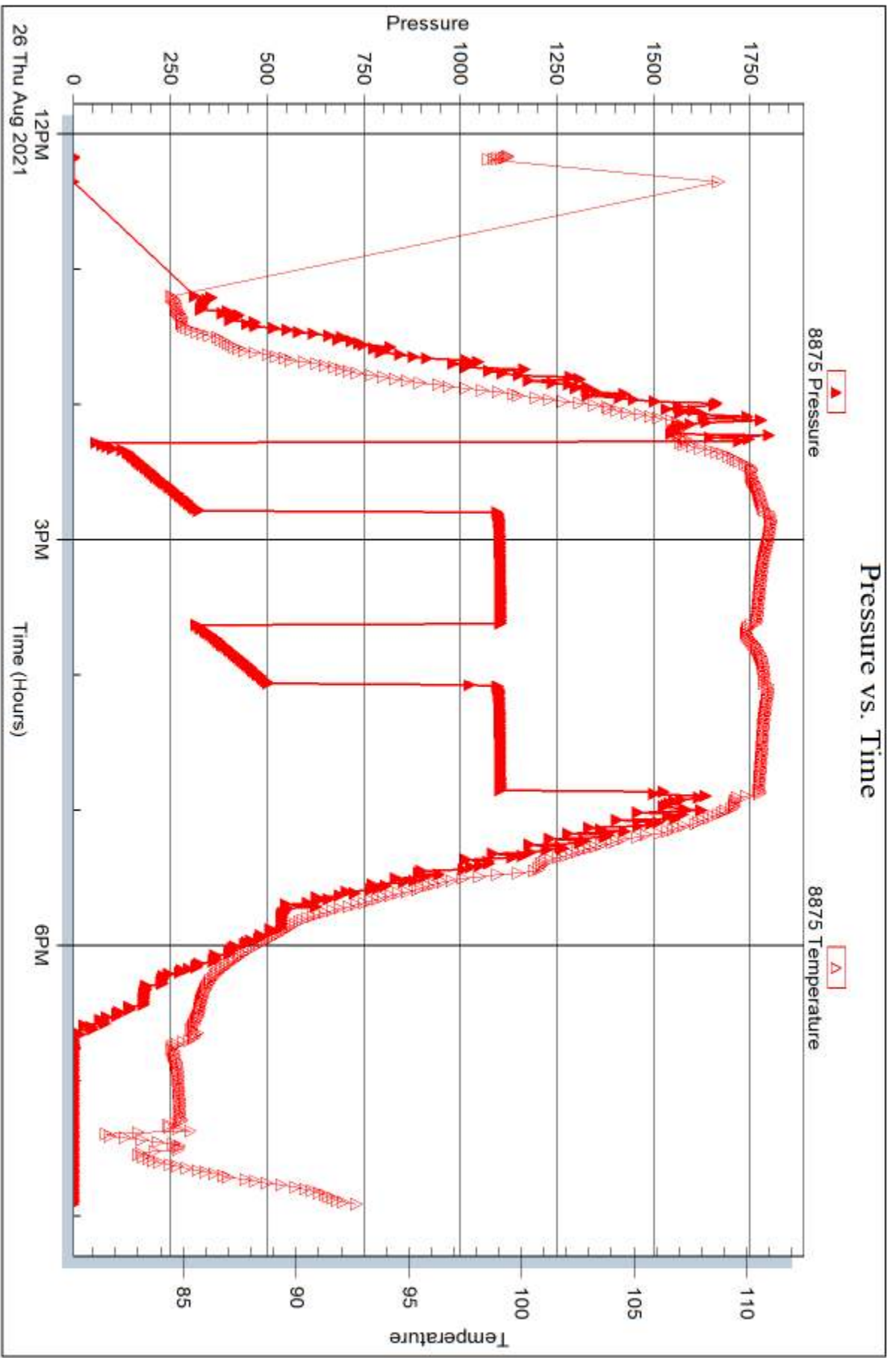


Serial #: 8875

Outside Darrah Oil Company LLC

Ted Bitter #2-6

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 67760

Printed: 2021.08.26 @ 21:04:56

