



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co

28-14s-32w Logan Ks

202 W Main St
Salem, IL 62881

Ottley 4-28

Job Ticket: 65235

DST#: 2

ATTN: Tim Lauer

Test Start: 2019.06.26 @ 12:59:36

GENERAL INFORMATION:

Formation: **Lansing C-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:56:36

Time Test Ended: 20:32:06

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 3710.00 ft (KB) To 3765.00 ft (KB) (TVD)

Reference Elevations: 2673.00 ft (KB)

Total Depth: 3765.00 ft (KB) (TVD)

2664.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8166 Outside

Press@RunDepth: 62.71 psig @ 3711.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.06.26 End Date: 2019.06.26

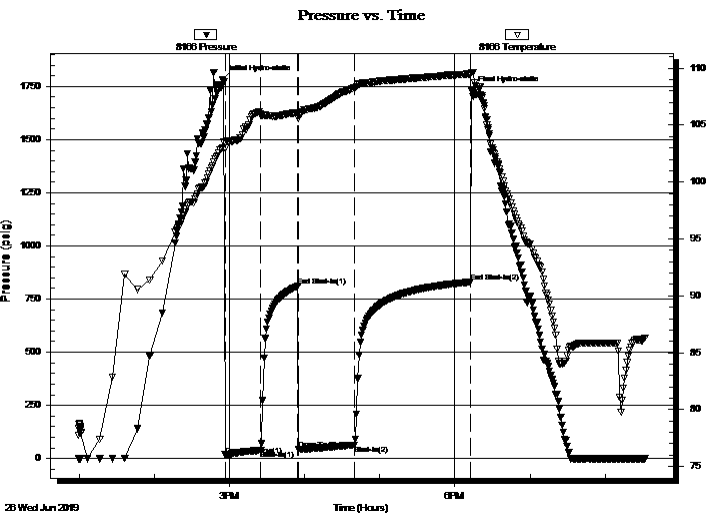
Last Calib.: 2019.06.26

Start Time: 12:59:41 End Time: 20:32:05

Time On Btm: 2019.06.26 @ 14:54:36

Time Off Btm: 2019.06.26 @ 18:13:36

TEST COMMENT: IF: 1/4 blow built to 5.
IS: No return.
FF: Surface blow built to 5 1/2.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1783.20	103.02	Initial Hydro-static
2	16.84	102.97	Open To Flow (1)
31	38.60	105.91	Shut-In(1)
60	810.48	106.11	End Shut-In(1)
61	42.13	105.58	Open To Flow (2)
106	62.71	108.30	Shut-In(2)
198	829.66	109.49	End Shut-In(2)
199	1730.94	109.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	w cm oil spots 40%w 60%m	0.87
62.00	w cm oil spots 20%w 80%m	0.87

Gas Rates

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

* Recovery from multiple tests



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TOOL DIAGRAM

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Tool Information

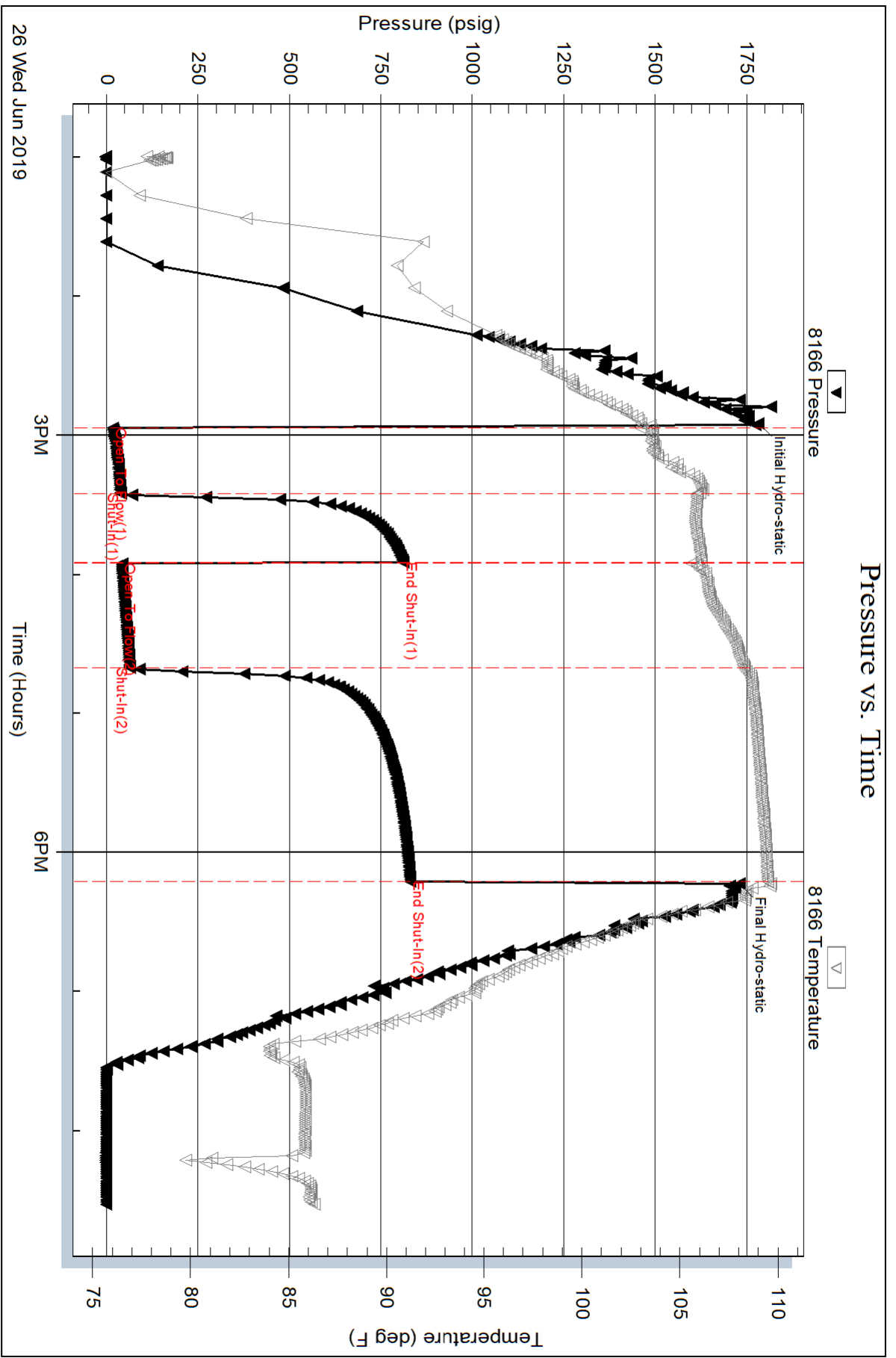
Drill Pipe:	Length: 3690.00 ft	Diameter: 3.80 inches	Volume: 51.76 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 51.76 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3710.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	55.00 ft				
Tool Length:	82.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Stubb	1.00			3684.00	
Shut In Tool	5.00			3689.00	
Hydraulic tool	5.00			3694.00	
Jars	5.00			3699.00	
Safety Joint	2.00			3701.00	
Packer	5.00			3706.00	27.00 Bottom Of Top Packer
Packer	4.00			3710.00	
Stubb	1.00			3711.00	
Recorder	0.00	6651	Inside	3711.00	
Recorder	0.00	8166	Outside	3711.00	
Perforations	15.00			3726.00	
Change Over Sub	1.00			3727.00	
Drill Pipe	32.00			3759.00	
Change Over Sub	1.00			3760.00	
Bullnose	5.00			3765.00	55.00 Bottom Packers & Anchor

Total Tool Length: 82.00



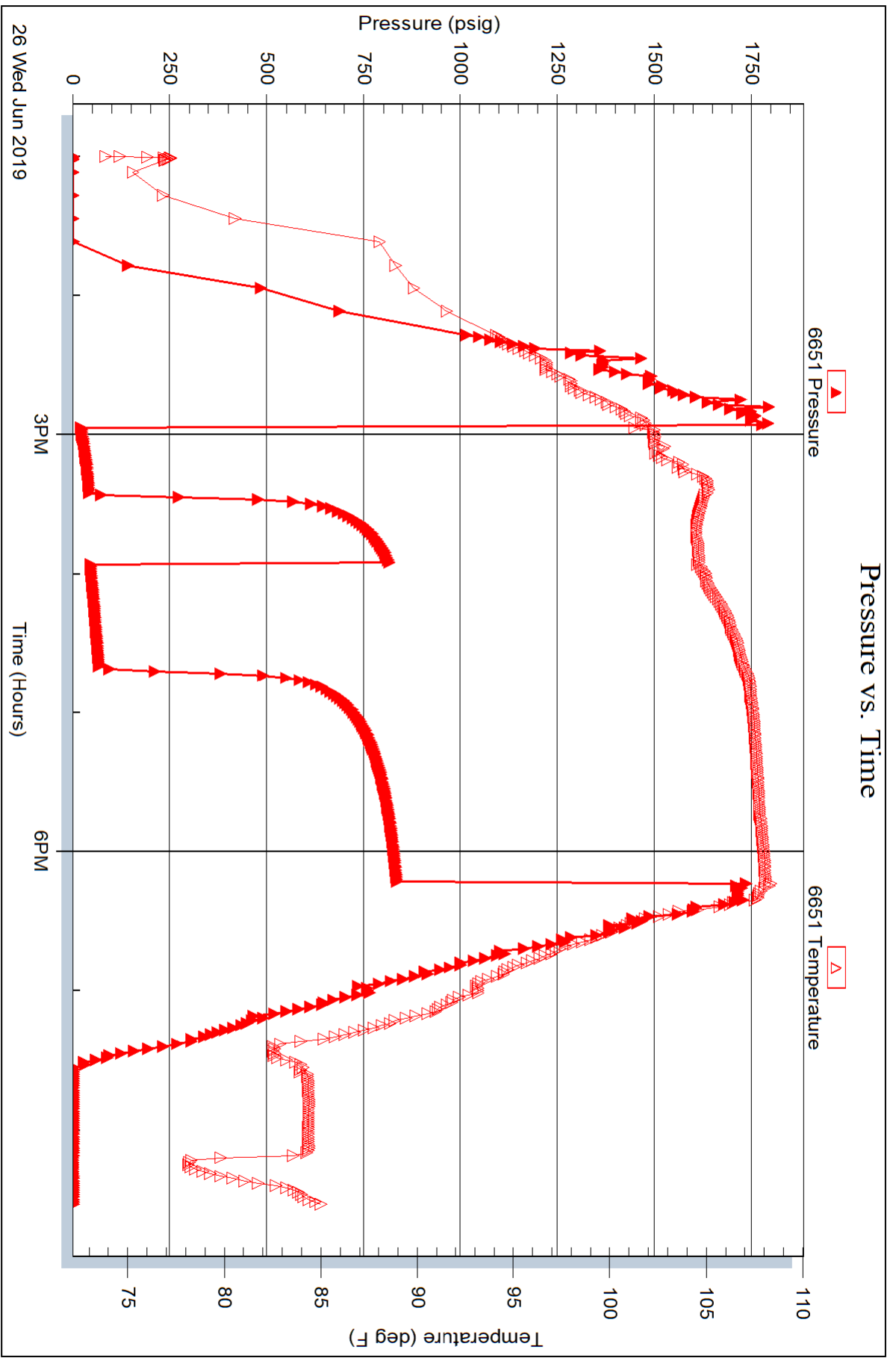
Serial #: 6651

Inside

Shakespeare Oil Co

Ottley 4-28

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65235

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