



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Vess Oil Corp.
 1700 Waterfront Parkway
 Building 500
 Wichita, KS 67206
 ATTN: Csey Coats/Roger Mar

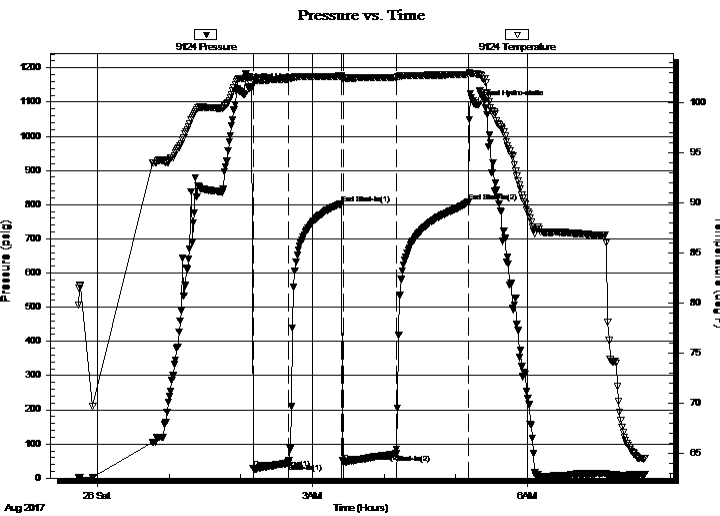
22/25S/5E Butler, KS
Mills A #41
 Job Ticket: 63591 **DST#: 1**
 Test Start: 2017.08.25 @ 23:44:00

GENERAL INFORMATION:

Formation: **Simpson Sand & Arbuc**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:10:20
 Time Test Ended: 07:38:50
 Interval: **2371.00 ft (KB) To 2426.00 ft (KB) (TVD)**
 Total Depth: 2426.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jimmy Ricketts
 Unit No: 80
 Reference Elevations: 1376.00 ft (KB)
 1370.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 9124 Inside
 Press@RunDepth: 71.07 psig @ 2372.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.08.25 End Date: 2017.08.26 Last Calib.: 1899.12.30
 Start Time: 23:44:05 End Time: 07:38:50 Time On Btm: 2017.08.26 @ 02:06:40
 Time Off Btm: 2017.08.26 @ 05:16:50

TEST COMMENT: IF - Weak blow building to 6 inches initial flow period.
 FF - Weak blow building to 6 inches final flow period.
 TS - Oil and water cut mud 19% oil, 6% water and 75% mud.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1142.99	102.55	Initial Hydro-static
4	27.69	102.27	Open To Flow (1)
33	44.35	102.35	Shut-In(1)
78	802.86	102.63	End Shut-In(1)
80	46.59	102.42	Open To Flow (2)
124	71.07	102.51	Shut-In(2)
184	806.80	102.79	End Shut-In(2)
191	1091.64	102.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Oil & water cut mud 10%O 5%W & 85%M	0.15
45.00	Oil cut mud 14%O & 86%M	0.22
45.00	Clean oil 100%O	0.22
0.00	TS oil & water cut mud 19%O 6%W & 75%M	0.00

Gas Rates

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



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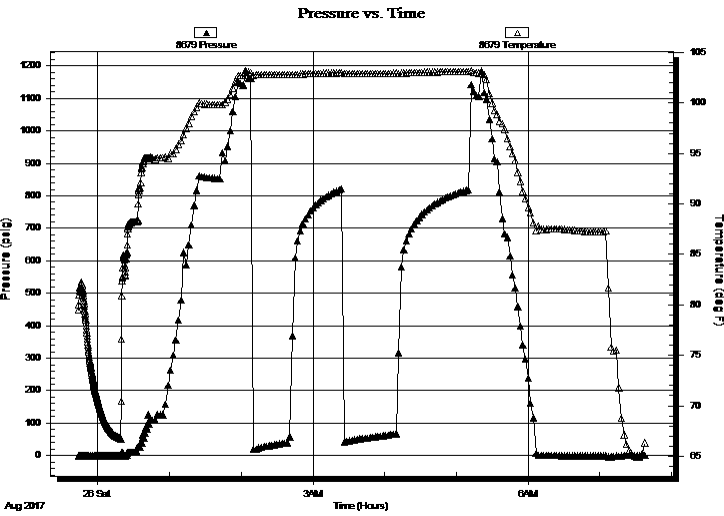
22/25S/5E Butler, KS
Mills A #41
Job Ticket: 63591 **DST#: 1**
Test Start: 2017.08.25 @ 23:44:00

GENERAL INFORMATION:

Formation: **Simpson Sand & Arbuc**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 02:10:20 Tester: Jimmy Ricketts
Time Test Ended: 07:38:50 Unit No: 80
Interval: 2371.00 ft (KB) To 2426.00 ft (KB) (TVD) Reference Elevations: 1376.00 ft (KB)
Total Depth: 2426.00 ft (KB) (TVD) 1370.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 6.00 ft

Serial #: 8679 **Outside**
Press@RunDepth: psig @ 2372.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.08.25 End Date: 2017.08.26 Last Calib.: 1899.12.30
Start Time: 23:44:01 End Time: 07:38:50 Time On Btm:
Time Off Btm:

TEST COMMENT: IF - Weak blow building to 6 inches initial flow period.
FF - Weak blow building to 6 inches final flow period.
TS - Oil and water cut mud 19% oil, 6% water and 75% mud.



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

Recovery		
Length (ft)	Description	Volume (bbl)
30.00	Oil & water cut mud 10%O 5%W & 85%M	0.15
45.00	Oil cut mud 14%O & 86%M	0.22
45.00	Clean oil 100%O	0.22
0.00	TS oil & water cut mud 19%O 6%W & 75%M	0.00

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Vess Oil Corp.
1700 Waterfront Parkway
Building 500
Wichita, KS 67206
ATTN: Csey Coats/Roger Mar

22/25S/5E Butler, KS
Mills A #41
Job Ticket: 63591 **DST#: 1**
Test Start: 2017.08.25 @ 23:44:00

Tool Information

Drill Pipe:	Length: 2144.00 ft	Diameter: 3.34 inches	Volume: 23.23 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 207.00 ft	Diameter: 2.25 inches	Volume: 1.02 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 24.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	2371.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	83.00 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			2344.00	
Shut In Tool	5.00			2349.00	
Hydraulic tool	5.00			2354.00	
Jars	5.00			2359.00	
Safety Joint	3.00			2362.00	
Packer	4.00			2366.00	28.00 Bottom Of Top Packer
Packer	5.00			2371.00	
Stubb	1.00			2372.00	
Recorder	0.00	8679	Outside	2372.00	
Recorder	0.00	9124	Inside	2372.00	
Perforations	15.00			2387.00	
Change Over Sub	0.50			2387.50	
Blank Spacing	29.50			2417.00	
Change Over Sub	1.00			2418.00	
Perforations	3.00			2421.00	
Bullnose	5.00			2426.00	55.00 Bottom Packers & Anchor
Total Tool Length:	83.00				



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FLUID SUMMARY

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22/25S/5E Butler, KS

1700 Waterfront Parkway
Building 500
Wichita, KS 67206
ATTN: Csey Coats/Roger Mar

Mills A #41

Job Ticket: 63591

DST#: 1

Test Start: 2017.08.25 @ 23:44:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 58.00 sec/qt

Water Loss: 8.19 in³

Resistivity: ohm.m

Salinity: 850.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: 36.1 deg API

Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Oil & water cut mud 10%O 5%W & 85%M	0.148
45.00	Oil cut mud 14%O & 86%M	0.221
45.00	Clean oil 100%O	0.221
0.00	TS oil & water cut mud 19%O 6%W & 75%M	0.000

Total Length: 120.00 ft Total Volume: 0.590 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

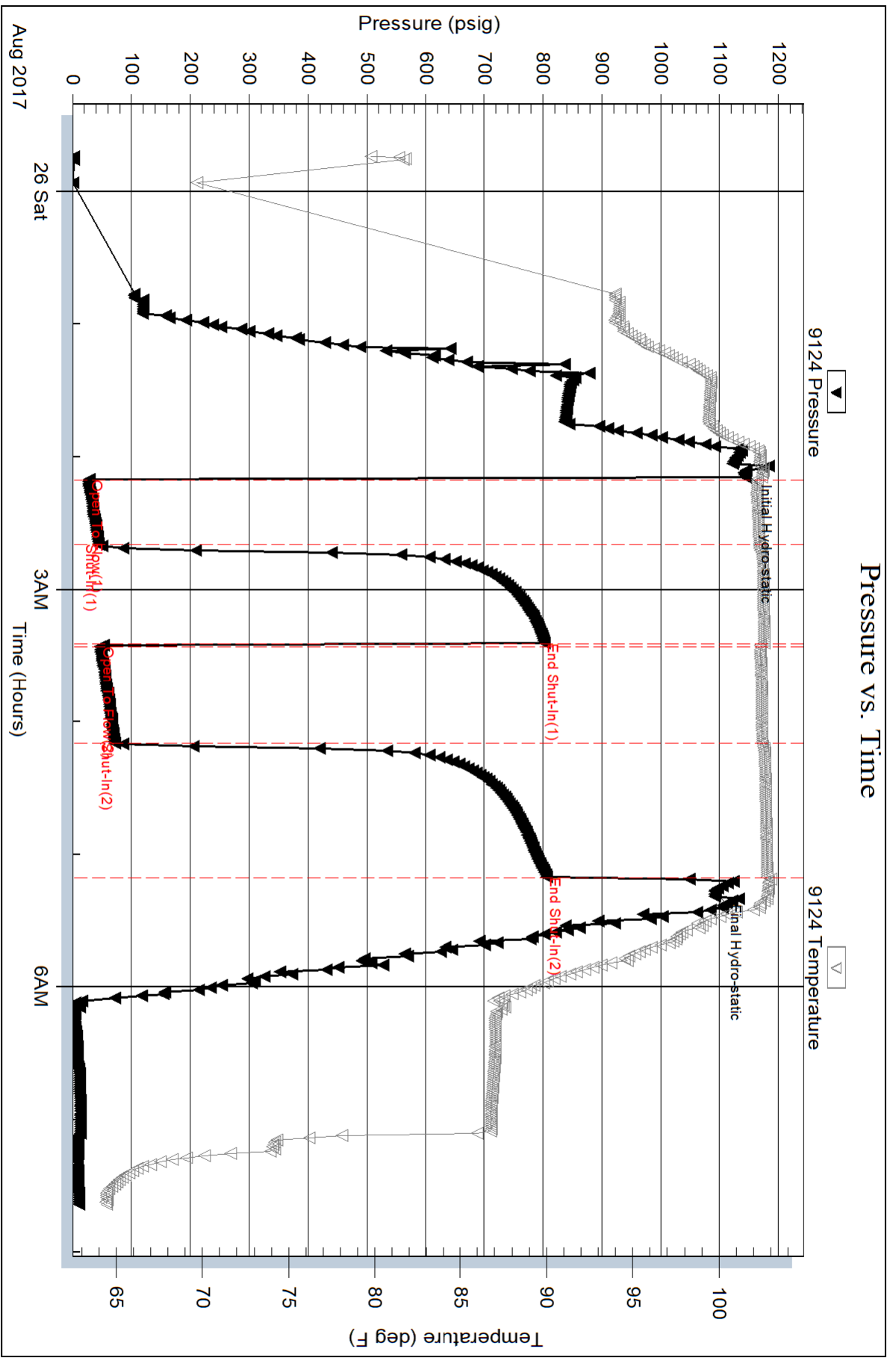
Serial #: 9124

Inside

Vess Oil Corp.

Mills A #41

DST Test Number: 1



Serial #: 8679

Outside Vess Oil Corp.

Mills A #41

DST Test Number: 1

