



DRILL STEM TEST REPORT

Prepared For: **Vess Oil Corporation**

1700 N Waterfront Parkway
Building 500
Wichita, KS 67206-6619

ATTN: Dylan Klaus/Roger Ma

Wilson A #456

8-25S-5E Butler,KS

Start Date: 2019.07.12 @ 15:46:00

End Date: 2019.07.12 @ 22:50:39

Job Ticket #: 63946 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Vess Oil Corporation
 1700 N Waterfront Parkway
 Building 500
 Wichita, KS 67206-6619
 ATTN: Dylan Klaus/Roger Ma

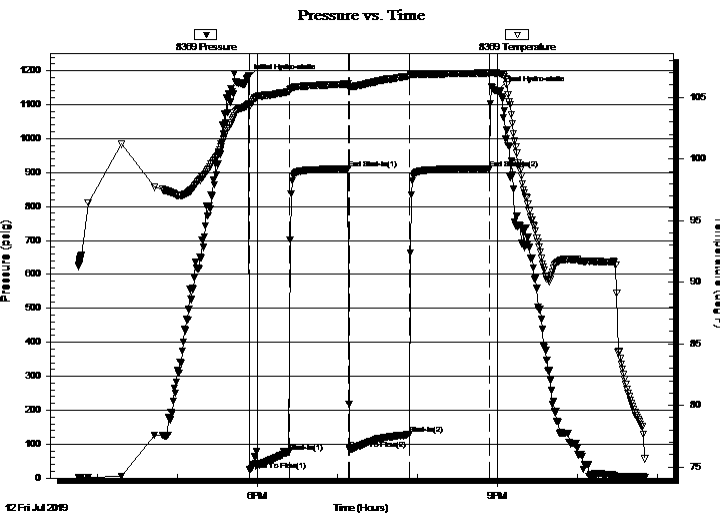
8-25S-5E Butler, KS
Wilson A #456
 Job Ticket: 63946 **DST#: 1**
 Test Start: 2019.07.12 @ 15:46:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:54:00
 Time Test Ended: 22:50:39
 Interval: **2426.00 ft (KB) To 2480.00 ft (KB) (TVD)**
 Total Depth: 2480.00 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: 1382.00 ft (KB)
 1373.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8369 Outside
 Press@RunDepth: 128.36 psig @ 2427.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.07.12 End Date: 2019.07.12 Last Calib.: 2019.07.12
 Start Time: 15:46:01 End Time: 22:50:40 Time On Btm: 2019.07.12 @ 17:52:40
 Time Off Btm: 2019.07.12 @ 21:00:09

TEST COMMENT: IF - Weak blow building to 8"
 FF - Weak blow building to 12"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1176.84	104.39	Initial Hydro-static
2	24.13	104.20	Open To Flow (1)
32	77.34	105.46	Shut-In(1)
76	910.41	106.09	End Shut-In(1)
77	83.81	105.87	Open To Flow (2)
122	128.36	106.70	Shut-In(2)
182	911.01	106.98	End Shut-In(2)
188	1140.45	106.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
245.00	HMCO 52% O & 48% M	1.20
40.00	Clean oil 100% O	0.56
0.00	TS HMCO 51% O & 49% M	0.00

Gas Rates

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



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TESTING, INC.**

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TOOL DIAGRAM

Vess Oil Corporation

8-25S-5E Butler,KS

1700 N Waterfront Parkway
Building 500
Wichita, KS 67206-6619
ATTN: Dylan Klaus/Roger Ma

Wilson A #456

Job Ticket: 63946

DST#: 1

Test Start: 2019.07.12 @ 15:46:00

Tool Information

Drill Pipe:	Length: 2175.00 ft	Diameter: 3.80 inches	Volume: 30.51 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 21000.00 lb
Drill Collar:	Length: 245.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 31.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	2426.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	74.00 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			2407.00	
Shut In Tool	5.00			2412.00	
Hydraulic tool	5.00			2417.00	
Packer	5.00			2422.00	20.00 Bottom Of Top Packer
Packer	4.00			2426.00	
Stubb	1.00			2427.00	
Recorder	0.00	8369	Outside	2427.00	
Recorder	0.00	8846	Inside	2427.00	
Perforations	15.00			2442.00	
Change Over Sub	0.50			2442.50	
Blank Spacing	32.00			2474.50	
Change Over Sub	0.50			2475.00	
Bullnose	5.00			2480.00	54.00 Bottom Packers & Anchor

Total Tool Length: 74.00



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FLUID SUMMARY

Vess Oil Corporation

8-25S-5E Butler,KS

1700 N Waterfront Parkway
Building 500
Wichita, KS 67206-6619
ATTN: Dylan Klaus/Roger Ma

Wilson A #456

Job Ticket: 63946

DST#: 1

Test Start: 2019.07.12 @ 15:46:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38.2 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
245.00	HMCO 52% O & 48% M	1.205
40.00	Clean oil 100% O	0.561
0.00	TS HMCO 51% O & 49% M	0.000

Total Length: 285.00 ft

Total Volume: 1.766 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

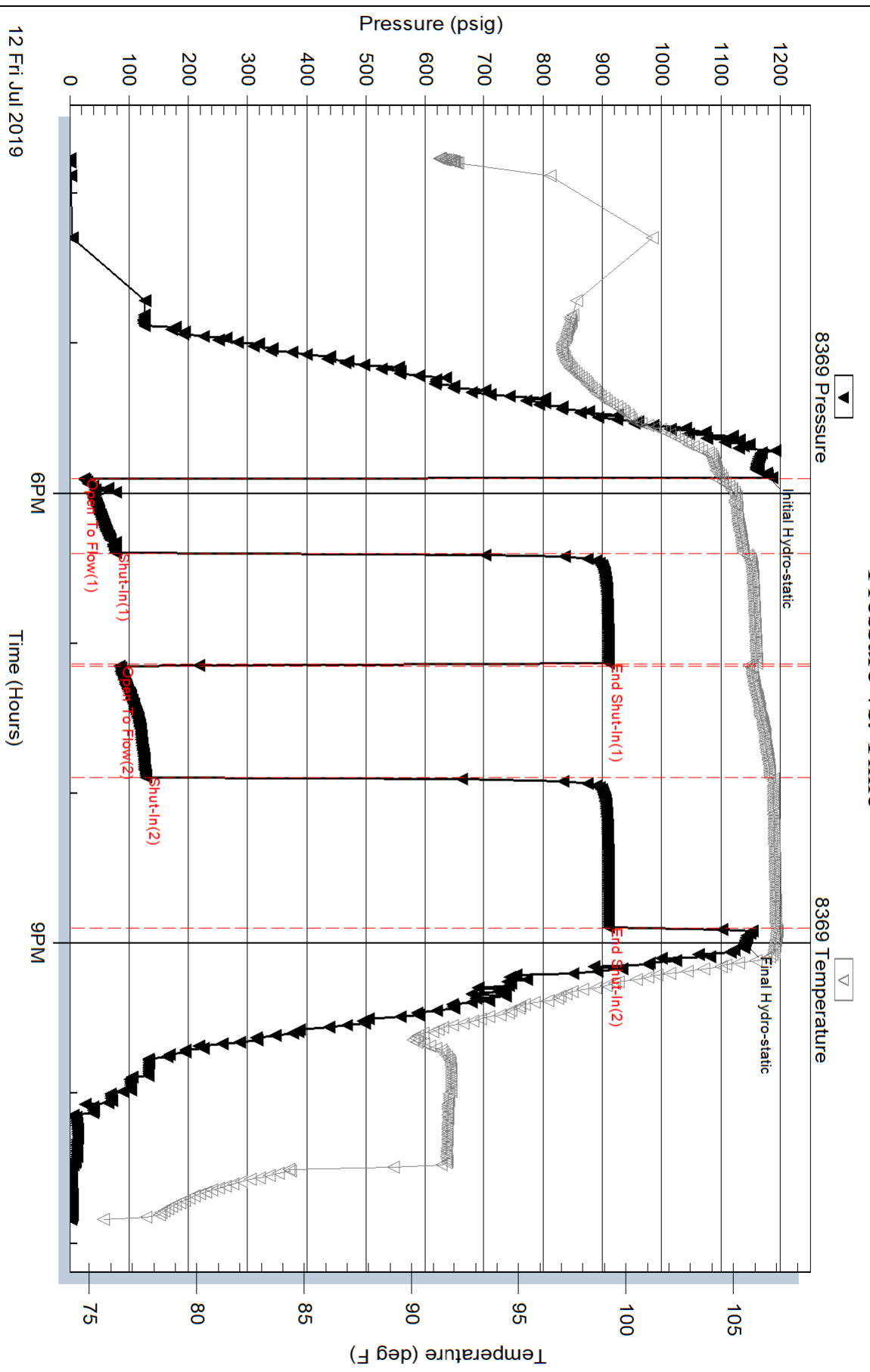
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



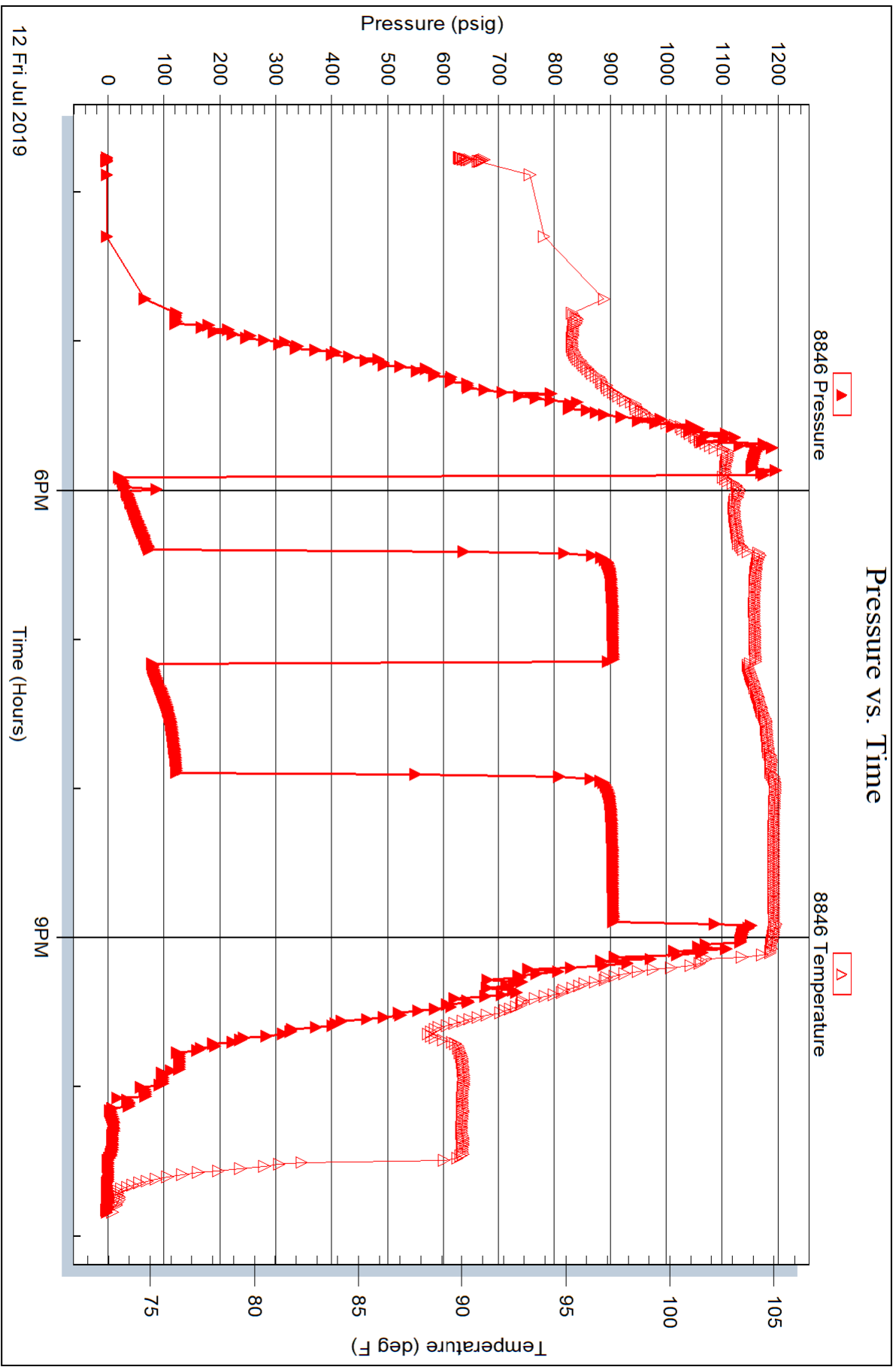
Serial #: 8846

Inside

Vess Oil Corporation

Wilson A #456

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63946

Well Name & No. Wilson A # 456 Test No. 1 Date 7-12-19
 Company Vess Oil Corporation Elevation 1382 KB 1383 GL
 Address 1700 N. Waterfront Parkway Building 500 Wichita, KS 67206
 Co. Rep / Geo. Dylan Klaus / Roger Martin Rig C + 6 #2
 Location: Sec. 8 Twp 25 S Rge. 5 E Co. Butler State KS

Interval Tested 2426 - 2480 Zone Tested Viola
 Anchor Length 54 Drill Pipe Run 2175 Mud Wt. 9.2
 Top Packer Depth 2421 Drill Collars Run 245 Vis 49
 Bottom Packer Depth 2426 Wt. Pipe Run 0 WL 11.2
 Total Depth 2480 Chlorides 1400 ppm System LCM
 Blow Description IF - weak blow building to 8 inches IFA
FF - weak blow building to 12 inches FFP

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>Clean Oil</u>		<u>100%</u>		
<u>245</u>	<u>HMCO</u>		<u>52%</u>		<u>48%</u>
<u>75</u>	<u>HMCO</u>		<u>51%</u>		<u>49%</u>

Rec Total 285 BHT _____ Gravity 38.2 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1177 Test 1200 T-On Location 1500
 (B) First Initial Flow 24 Jars 250 T-Started 1546
 (C) First Final Flow 77 Safety Joint 75 T-Open 1753
 (D) Initial Shut-In 910 Circ Sub _____ T-Pulled 2053
 (E) Second Initial Flow 84 Hourly Standby _____ T-Out 2230
 (F) Second Final Flow 128 Mileage 234rt RT 88 Comments _____
 (G) Final Shut-In 911 Sampler _____
 (H) Final Hydrostatic 1140 Straddle _____
 Ruined Shale Packer
 Ruined Packer
 Extra Copies _____
 Initial Open 30 Shale Packer _____
 Initial Shut-In 45 Extra Packer _____
 Final Flow 45 Extra Recorder _____
 Final Shut-In 60 Day Standby _____
 Accessibility _____
 Sub Total 1759 Total 1759 MP/DST Disc't _____

Approved By Roger Martin Our Representative Jimmy Dickel
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