



DRILL STEM TEST REPORT

Prepared For: **Vess Oil Corporation**

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

ATTN: Dylan Klaus/Roger Ma

Moler A #37

32-25S-5E Butler, KS

Start Date: 2019.07.19 @ 02:43:00

End Date: 2019.07.19 @ 10:33:00

Job Ticket #: 63947 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Vess Oil Corporation
1700 N Waterfront Parkway
Building 500
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ATTN: Dylan Klaus/Roger Ma

32-25S-5E Butler, KS

Moler A #37

Job Ticket: 63947

DST#: 1

Test Start: 2019.07.19 @ 02:43:00

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:32:00

Time Test Ended: 10:33:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 65

Interval: 2417.00 ft (KB) To 2467.00 ft (KB) (TVD)

Reference Elevations: 1368.00 ft (KB)

Total Depth: 2467.00 ft (KB) (TVD)

1359.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8369 Inside

Press@RunDepth: 110.27 psig @ 2429.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.07.19 End Date: 2019.07.19

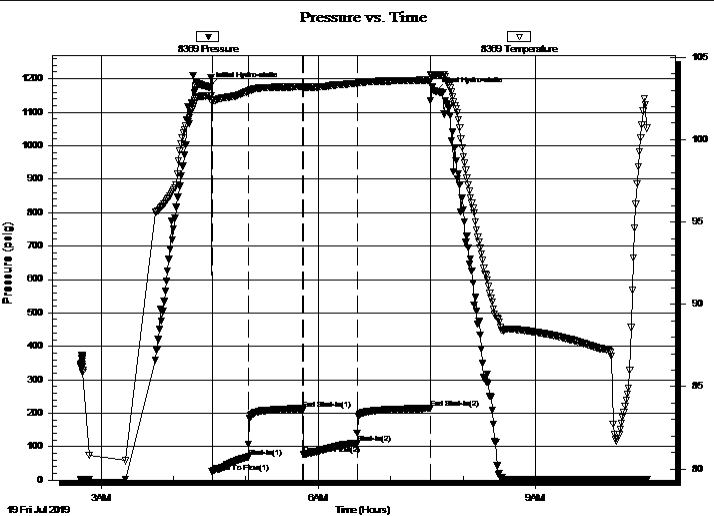
Last Calib.: 2019.07.19

Start Time: 02:43:01 End Time: 10:33:00

Time On Btm: 2019.07.19 @ 04:30:00

Time Off Btm: 2019.07.19 @ 07:37:00

TEST COMMENT: IF - Weak blow building to 8"
FF - Weak blow building to 6"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1175.38	102.66	Initial Hydro-static
2	24.74	102.25	Open To Flow (1)
32	69.42	102.93	Shut-In(1)
77	213.25	103.21	End Shut-In(1)
78	76.71	103.18	Open To Flow (2)
122	110.27	103.42	Shut-In(2)
183	214.52	103.62	End Shut-In(2)
187	1162.17	103.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
135.00	OCM 13%O & 87% M	0.66
90.00	Clean Oil 100% O	0.53
0.00	TS O&SWCM 24%O 7%W 69%M	0.00

Gas Rates

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



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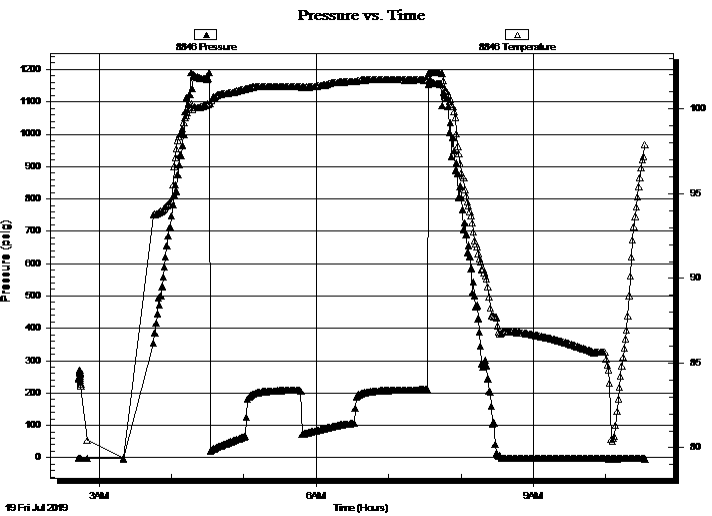
32-25S-5E Butler, KS
Moler A #37
 Job Ticket: 63947 **DST#: 1**
 Test Start: 2019.07.19 @ 02:43:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:32:00
 Time Test Ended: 10:33:00
Interval: 2417.00 ft (KB) To 2467.00 ft (KB) (TVD)
 Total Depth: 2467.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jimmy Ricketts
 Unit No: 65
 Reference Elevations: 1368.00 ft (KB)
 1359.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8846 Outside
 Press@RunDepth: psig @ 2429.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.07.19 End Date: 2019.07.19 Last Calib.: 2019.07.19
 Start Time: 02:43:01 End Time: 10:32:50 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF - Weak blow building to 8"
 FF - Weak blow building to 6"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
135.00	OCM 13%O & 87% M	0.66
90.00	Clean Oil 100% O	0.53
0.00	TS O&SWCM 24%O 7%W 69%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 Corporation

32-25S-5E Butler, KS

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

Moler A #37

Job Ticket: 63947

DST#: 1

Test Start: 2019.07.19 @ 02:43:00

Tool Information

Drill Pipe:	Length: 2206.00 ft	Diameter: 3.80 inches	Volume: 30.94 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 23000.00 lb
Drill Collar:	Length: 215.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose: 59000.00 lb
			<u>Total Volume: 32.00 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	2417.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	77.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2391.00	
Shut In Tool	5.00			2396.00	
Hydraulic tool	5.00			2401.00	
Jars	5.00			2406.00	
Safety Joint	2.00			2408.00	
Packer	5.00			2413.00	27.00 Bottom Of Top Packer
Packer	4.00			2417.00	
Stubb	1.00			2418.00	
Perforations	10.00			2428.00	
change Over Sub	1.00			2429.00	
Recorder	0.00	8369	Inside	2429.00	
Recorder	0.00	8846	Outside	2429.00	
Blank Spacing	31.00			2460.00	
Change Over Sub	1.00			2461.00	
Perforations	3.00			2464.00	
Bullnose	3.00			2467.00	50.00 Bottom Packers & Anchor
Total Tool Length:	77.00				



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FLUID SUMMARY

Vess Oil Corporation

32-25S-5E Butler, KS

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

Moler A #37

Job Ticket: 63947

DST#: 1

Test Start: 2019.07.19 @ 02:43:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
135.00	OCM 13%O & 87% M	0.664
90.00	Clean Oil 100% O	0.534
0.00	TS O&SWCM 24%O 7%W 69%M	0.000

Total Length: 225.00 ft

Total Volume: 1.198 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

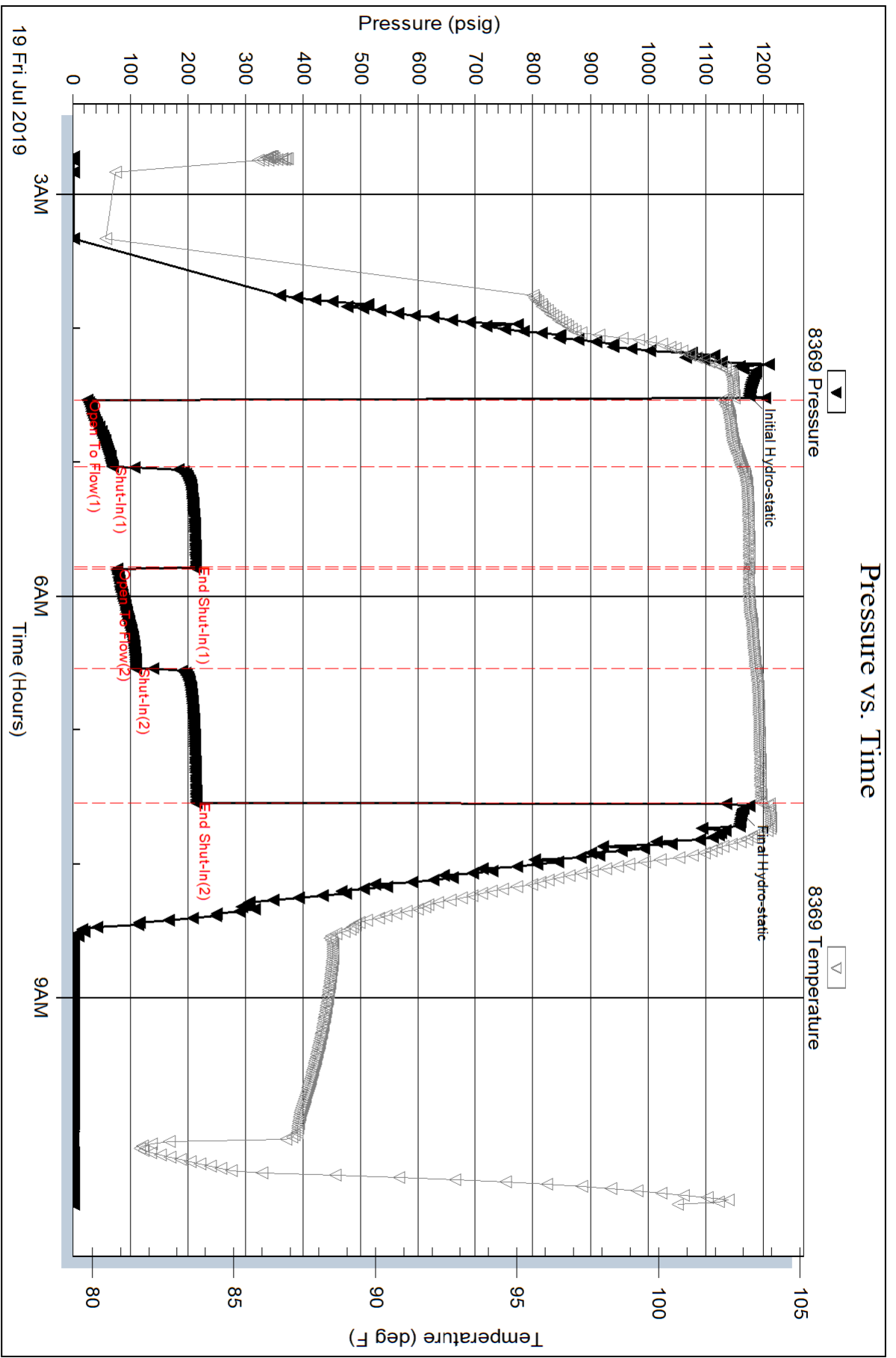
Serial #: 8369

Inside

Vess Oil Corporation

Moler A #37

DST Test Number: 1

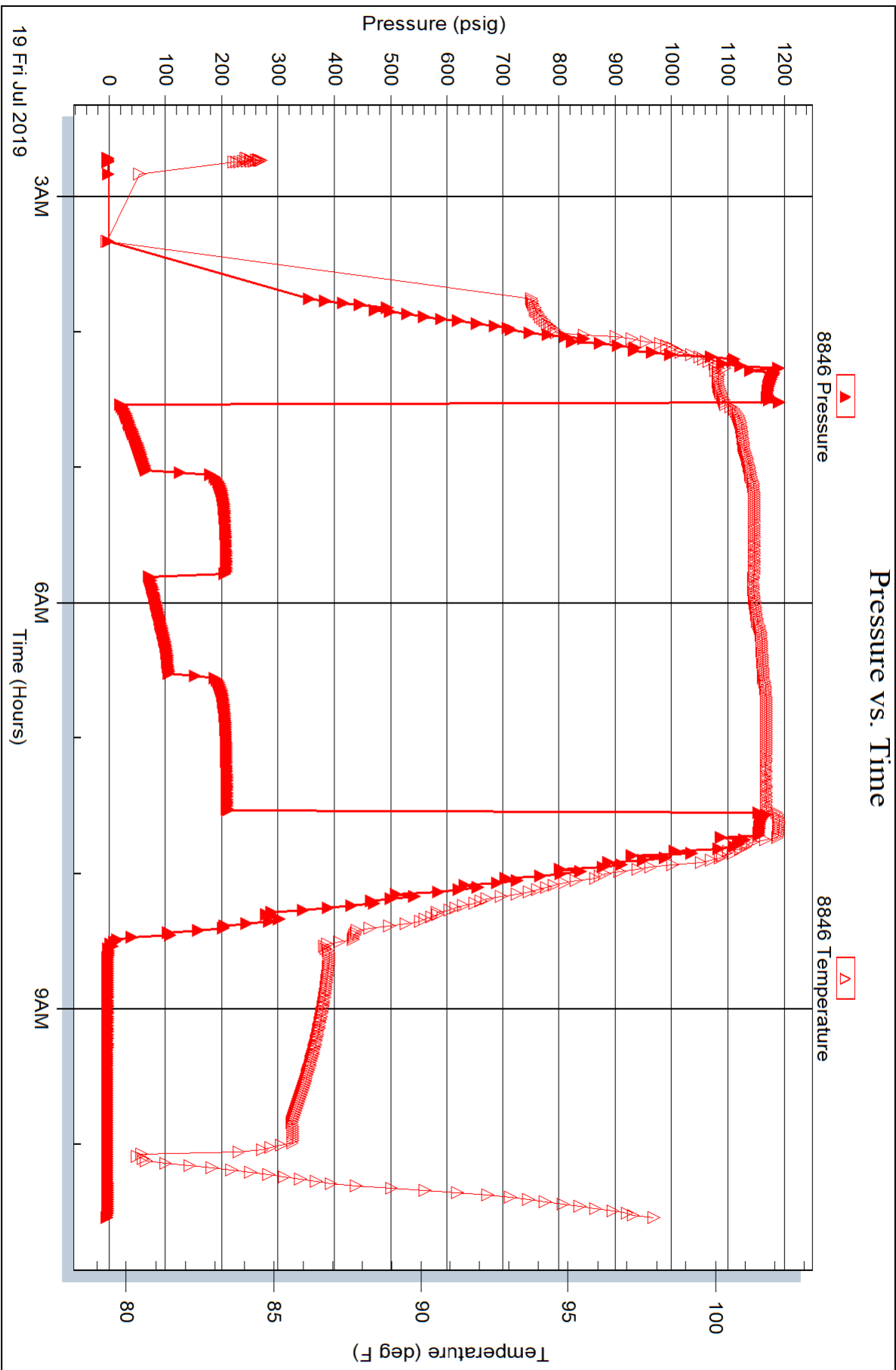


Serial #: 8846

Outside Vess Oil Corporation

Moler A #37

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63947

Well Name & No. Moler A #37 Test No. 1 Date 7-19-19
 Company Vess Oil Corp. Elevation 1368 KB 1359 GL
 Address 1700 N. Waterfront Parkway Bldg 500 Wichita, KS. 67206-6619
 Co. Rep / Geo. Dylan Klaus / Roger Martin Rig C+G #1
 Location: Sec. 32 Twp 25 S Rge. 5 E Co. Butler State KS

Interval Tested 2417-2467 Zone Tested Viola
 Anchor Length 50' Drill Pipe Run 2206 Mud Wt. 9.3
 Top Packer Depth 2412 Drill Collars Run 215 Vis 44
 Bottom Packer Depth 2417 Wt. Pipe Run 0 WL 11.2
 Total Depth 2467 Chlorides 1100 ppm System LCM
 Blow Description IF-weak blow building to 8 inches IFP
FF-weak blow building to 6 inches FFP

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>clean oil</u>		<u>100</u>		
<u>135</u>	<u>OCM</u>		<u>13</u>		<u>87</u>
<u>TS</u>	<u>O+SWCM</u>		<u>24</u>	<u>7</u>	<u>69</u>

Rec Total 225 BHT 104 Gravity 39.0 API RW @ ° F Chlorides ppm
 (A) Initial Hydrostatic Test 1200 T-On Location 0150
 (B) First Initial Flow Jars 250 T-Started 0243
 (C) First Final Flow Safety Joint 75 T-Open 0432
 (D) Initial Shut-In Circ Sub T-Pulled 0732
 (E) Second Initial Flow Hourly Standby T-Out 1030
 (F) Second Final Flow Mileage 214rt RT 92 Comments
 (G) Final Shut-In Sampler
 (H) Final Hydrostatic Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 1739

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

Approved By Roger Martin Our Representative Jimmy Rutledge
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