



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Vess oil Corporation
 1700 N Waterfront Parkway
 Building 500
 Wichita, Kansas 67206+6619
 ATTN: Roger Martin

21/9S/18W/Rooks

Paradise Creek 3-03

Job Ticket: 63464

DST#: 1

Test Start: 2018.10.01 @ 09:34:00

GENERAL INFORMATION:

Formation: **Oread-Lansing F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:41:17

Time Test Ended: 16:42:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Hays/ 60

Interval: **3200.00 ft (KB) To 3413.00 ft (KB) (TVD)**

Reference Elevations: 2176.00 ft (KB)

Total Depth: 3413.00 ft (KB) (TVD)

2169.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8322

Inside

Press@RunDepth: 178.77 psig @ 3201.00 ft (KB)

Capacity: psig

Start Date: 2018.10.01

End Date:

2018.10.01

Last Calib.:

2018.10.01

Start Time: 09:34:01

End Time:

16:42:02

Time On Btm:

2018.10.01 @ 11:40:32

Time Off Btm:

2018.10.01 @ 14:51:02

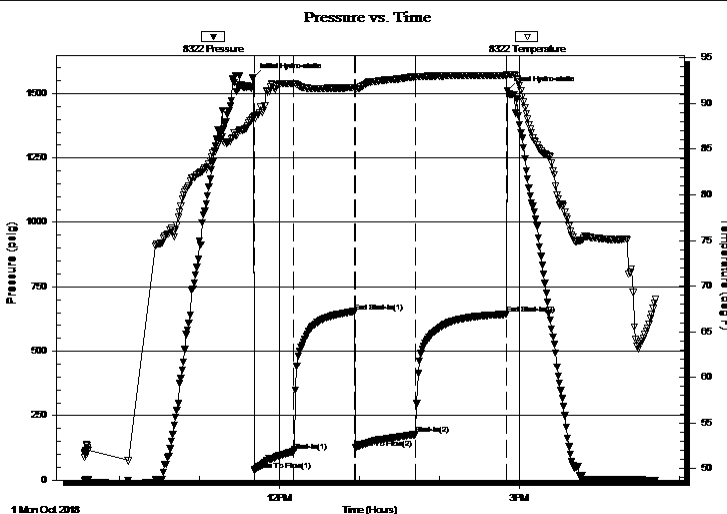
TEST COMMENT: I.F. 30 Minutes/ Blow built to BOB in 15 1/2 minutes/ Total build 17 inches

I.S.I. 45 Minutes/ 1 inch blow back

F.F. 45 Minutes/ Blow built to BOB in 31 minutes/ Total build 16 inches

F.S.I. 60 Minutes/ No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1561.19	88.59	Initial Hydro-static
1	38.51	88.60	Open To Flow (1)
31	111.68	92.22	Shut-In(1)
76	652.65	91.72	End Shut-In(1)
77	125.38	91.65	Open To Flow (2)
122	178.77	92.97	Shut-In(2)
190	644.25	93.08	End Shut-In(2)
191	1512.11	93.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	Oil cut Muddy Water	2.61
0.00	Oil 10% Mud 25% Water 65%	0.00
185.00	Oil cut Watery Mud	2.60
0.00	Oil 10% Water 30% Mud 60%	0.00
1.00	Clean Oil	0.01

Gas Rates

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



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Paradise Creek 3-03

Job Ticket: 63464

DST#: 1

Test Start: 2018.10.01 @ 09:34:00

GENERAL INFORMATION:

Formation: **Oread-Lansing F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:41:17

Time Test Ended: 16:42:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Hays/ 60

Interval: 3200.00 ft (KB) To 3413.00 ft (KB) (TVD)

Reference Elevations: 2176.00 ft (KB)

Total Depth: 3413.00 ft (KB) (TVD)

2169.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 67652

Press@RunDepth: 661.08 psig @ ft (KB)

Capacity: psig

Start Date: 2018.10.01

End Date:

2018.10.01

Last Calib.:

2018.10.01

Start Time: 09:34:01

End Time:

16:43:02

Time On Btm:

2018.10.01 @ 11:40:32

Time Off Btm:

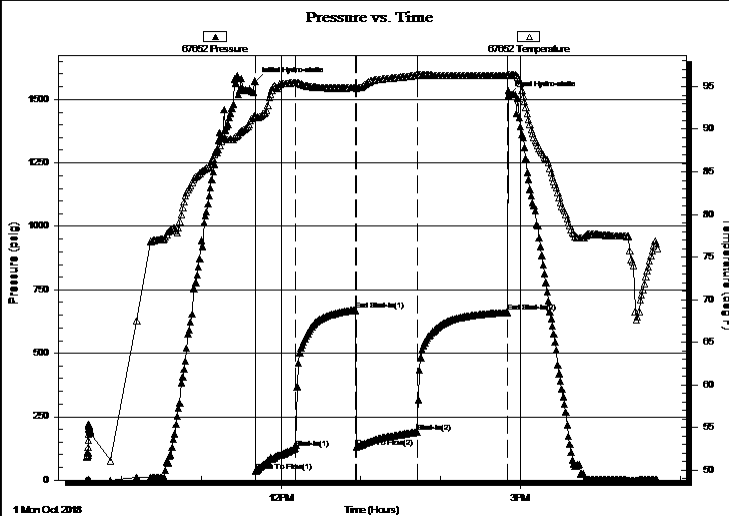
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TEST COMMENT: I.F. 30 Minutes/ Blow built to BOB in 15 1/2 minutes/ Total build 17 inches

I.S.I. 45 Minutes/ 1 inch blow back

F.F. 45 Minutes/ Blow built to BOB in 31 minutes/ Total build 16 inches

F.S.I. 60 Minutes/ No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1570.86	91.57	Initial Hydro-static
1	36.00	91.48	Open To Flow (1)
31	124.22	95.48	Shut-In(1)
76	670.13	94.84	End Shut-In(1)
77	129.15	94.82	Open To Flow (2)
122	190.65	96.34	Shut-In(2)
190	661.08	96.30	End Shut-In(2)
191	1515.24	96.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	Oil cut Muddy Water	2.61
0.00	Oil 10% Mud 25% Water 65%	0.00
185.00	Oil cut Watery Mud	2.60
0.00	Oil 10% Water 30% Mud 60%	0.00
1.00	Clean Oil	0.01

Gas Rates

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



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FLUID SUMMARY

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ATTN: Roger Martin

Paradise Creek 3-03

Job Ticket: 63464

DST#: 1

Test Start: 2018.10.01 @ 09:34:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

23000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
186.00	Oil cut Muddy Water	2.609
0.00	Oil 10% Mud 25% Water 65%	0.000
185.00	Oil cut Watery Mud	2.595
0.00	Oil 10% Water 30% Mud 60%	0.000
1.00	Clean Oil	0.014

Total Length: 372.00 ft Total Volume: 5.218 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Recovery Resistivity .271 ohms @ 73 deg.

Sample from tool Oil 10% Mud 20% Water 70%

Pressure vs. Time

