



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil

3-24S-23W Hodgeman KS

202 W Main
Salem, IL 62881

Schaffer 1-3

Job Ticket: 65920

DST#: 1

ATTN: Steve Davis

Test Start: 2019.11.02 @ 00:27:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:35:47

Time Test Ended: 09:38:47

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Interval: 4710.00 ft (KB) To 4738.00 ft (KB) (TVD)

Reference Elevations: 2440.00 ft (KB)

Total Depth: 4738.00 ft (KB) (TVD)

2431.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8672

Inside

Press@RunDepth: 123.37 psig @ 4711.00 ft (KB)

Capacity: psig

Start Date: 2019.11.02

End Date:

2019.11.02

Last Calib.:

2019.11.02

Start Time: 00:27:01

End Time:

09:38:47

Time On Btm:

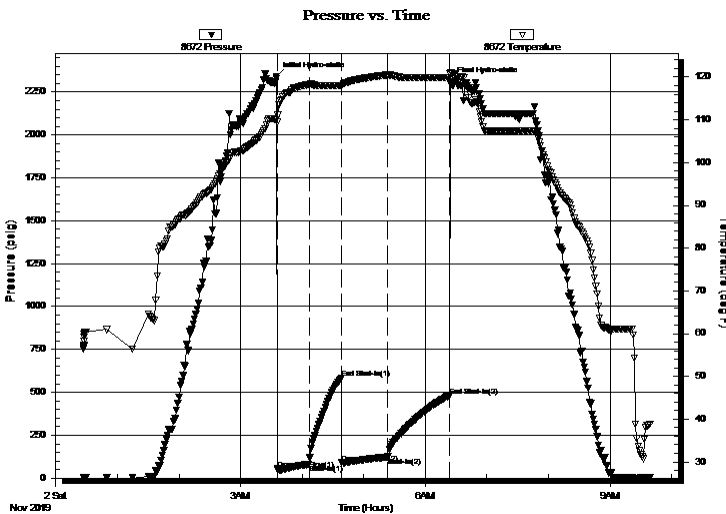
2019.11.02 @ 03:34:47

Time Off Btm:

2019.11.02 @ 06:24:17

TEST COMMENT: IF: Fair Blow , BOB in 14 minutes, Built to 23 inches
IS: No Blow Back
FF: Fair Blow , BOB in 14 minutes, Built to 26 inches
FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2340.40	110.06	Initial Hydro-static
1	53.88	109.44	Open To Flow (1)
32	82.00	118.26	Shut-In(1)
64	580.75	117.96	End Shut-In(1)
64	89.10	117.77	Open To Flow (2)
109	123.37	120.48	Shut-In(2)
169	479.82	119.88	End Shut-In(2)
170	2309.14	120.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	346 GIP	0.00
125.00	GOCM 10%G 20%O 70%M	1.75
94.00	GMCO 20%G 22%M 58%O	1.32

Gas Rates

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



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Reference Elevations: 2440.00 ft (KB)

Total Depth: 4738.00 ft (KB) (TVD)

2431.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 6751 Outside

Press@RunDepth: psig @ 4711.00 ft (KB)

Capacity: psig

Start Date: 2019.11.02 End Date: 2019.11.02

Last Calib.: 2019.11.02

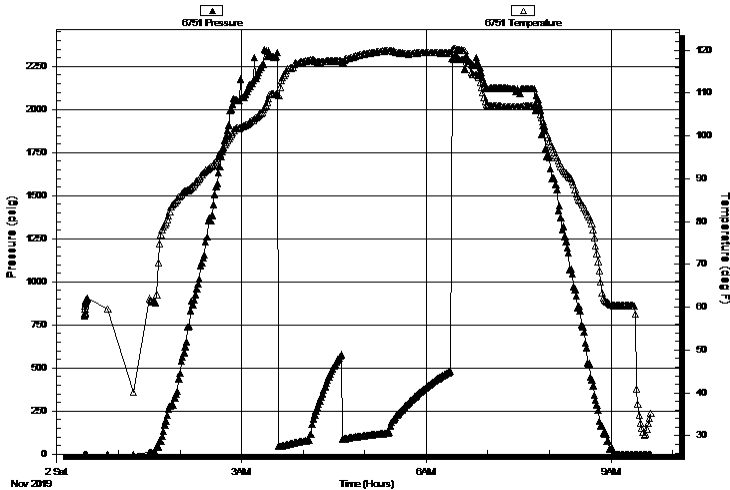
Start Time: 00:27:01 End Time: 09:38:47

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Fair Blow, BOB in 14 minutes, Built to 23 inches
IS: No Blow Back
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FS: No Blow Back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	346 GIP	0.00
125.00	GOCM 10%G 20%O 70%M	1.75
94.00	GMCO 20%G 22%M 58%O	1.32

Gas Rates

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



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FLUID SUMMARY

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3-24S-23W Hodgeman KS

202 W Main
Salem, IL 62881

Schaffer 1-3

Job Ticket: 65920

DST#: 1

ATTN: Steve Davis

Test Start: 2019.11.02 @ 00:27:00

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:

ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5100.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	346 GIP	0.000
125.00	GOCM 10%G 20%O 70%M	1.753
94.00	GMCO 20%G 22%M 58%O	1.319

Total Length: 219.00 ft Total Volume: 3.072 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

