



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carrie Exploration adn Development

17/19S/10W/Rice

210 W 22nd
Hays, Kansas 67601

Hager C-1

Job Ticket: 60273

DST#: 1

ATTN: Steve Reed

Test Start: 2014.09.23 @ 13:49:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:16:30

Time Test Ended: 18:43:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: S1 Great Bend/40

Interval: 2984.00 ft (KB) To 3080.00 ft (KB) (TVD)

Reference Elevations: 1772.00 ft (KB)

Total Depth: 3080.00 ft (KB) (TVD)

1764.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6749 Inside

Press @ RunDepth: 90.28 psig @ 3075.95 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.23

End Date: 2014.09.23

Last Calib.: 2014.09.23

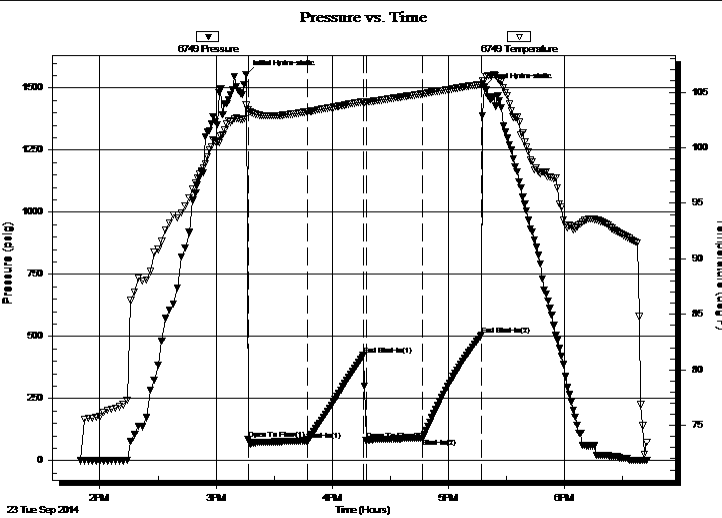
Start Time: 13:50:00

End Time: 18:43:00

Time On Btm: 2014.09.23 @ 15:15:30

Time Off Btm: 2014.09.23 @ 17:18:30

TEST COMMENT: 1ST Open 30 Minutes/Good blow/Blow built to bottom of bucket in 1 minute 15 seconds
 1ST Shut In 30 Minutes/Weak surface blow back
 2ND Open 30 Minues/Strong blow/Blow built to bottom of bucket in 15 seconds
 2ND Shut In 30 Minutes/Blow back built to 1/4 inch



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1554.64	103.84	Initial Hydro-static
1	87.07	103.41	Open To Flow (1)
32	80.43	103.23	Shut-In(1)
61	423.96	104.15	End Shut-In(1)
62	81.06	104.10	Open To Flow (2)
91	90.28	104.84	Shut-In(2)
122	504.77	105.70	End Shut-In(2)
123	1503.39	106.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Mud with show of oil/Mud 100%	0.98
0.00	1232 feet of gas in pipe/Gas 100%	0.00

Gas Rates

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



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Reference Elevations: 1772.00 ft (KB)

Total Depth: 3080.00 ft (KB) (TVD)

1764.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6663 Outside

Press @ Run Depth: 505.70 psig @ 3076.95 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.23

End Date: 2014.09.23

Last Calib.: 2014.09.23

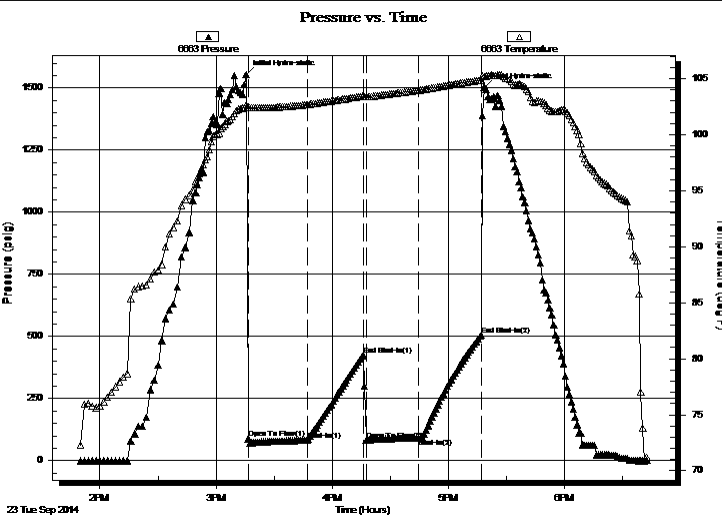
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PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1555.06	102.68	Initial Hydro-static
1	88.40	102.43	Open To Flow (1)
32	82.56	102.69	Shut-In(1)
61	425.56	103.46	End Shut-In(1)
62	81.64	103.37	Open To Flow (2)
89	91.65	103.98	Shut-In(2)
122	505.70	104.89	End Shut-In(2)
123	1503.62	105.18	Final Hydro-static

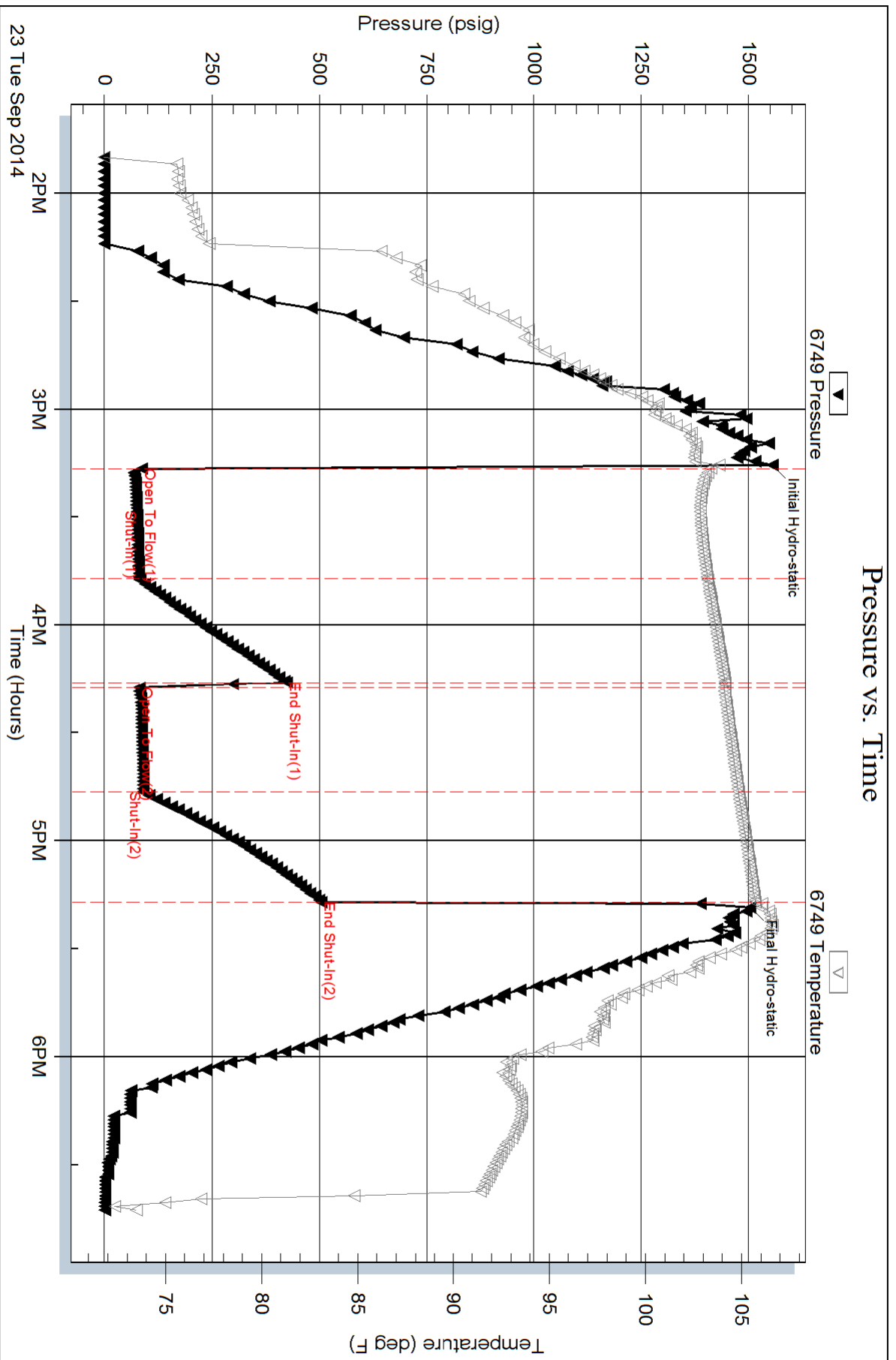
Recovery

Length (ft)	Description	Volume (bbl)
70.00	Mud with show of oil/Mud 100%	0.98
0.00	1232 feet of gas in pipe/Gas 100%	0.00

Gas Rates

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

Pressure vs. Time



Pressure vs. Time

