



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Shelby Resources LLC

16-18s-14w Barton

621 17th st
STE 1155
Denver Co 80293-1155
ATTN: Chris Gottschalk Jer

Dale #1-16

Job Ticket: 65474

DST#: 1

Test Start: 2016.07.13 @ 14:30:44

GENERAL INFORMATION:

Formation: **LKC H-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:36:54

Time Test Ended: 22:10:53

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 77

Interval: 3320.00 ft (KB) To 3415.00 ft (KB) (TVD)

Reference Elevations: 1948.00 ft (KB)

Total Depth: 3415.00 ft (KB) (TVD)

1940.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8018 Inside

Press@RunDepth: 73.54 psig @ 3322.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.07.13

End Date:

2016.07.13

Last Calib.: 2016.07.13

Start Time: 14:30:44

End Time:

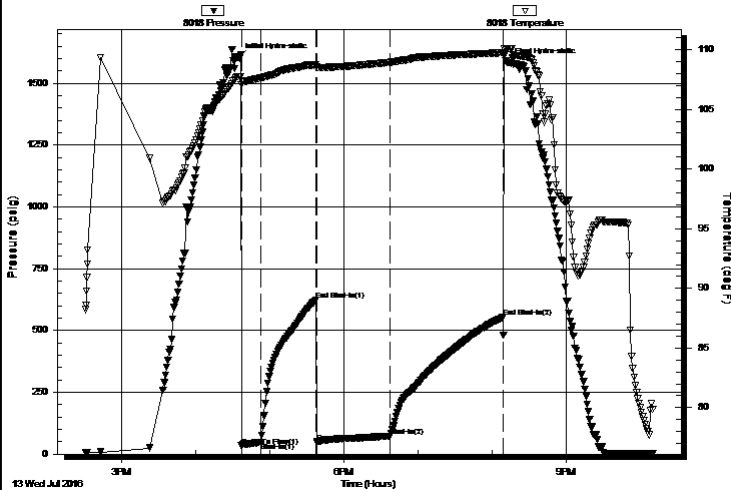
22:10:53

Time On Btm: 2016.07.13 @ 16:34:24

Time Off Btm: 2016.07.13 @ 20:13:08

TEST COMMENT: 15-IFP-w k to a gd bl 1/2"to 6 1/2"bl
45-ISIP-no bl
60-FFP-w k to a strg bl in 40 min
90-FSIP-no bl

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1604.17	107.72	Initial Hydro-static
3	33.33	107.05	Open To Flow (1)
18	48.50	107.61	Shut-In(1)
64	625.16	108.74	End Shut-In(1)
64	49.68	108.55	Open To Flow (2)
124	73.54	108.94	Shut-In(2)
215	553.96	109.74	End Shut-In(2)
219	1583.69	110.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	190' GIP	0.00
62.00	HO&GCM 5%G25%O70%M	0.60
55.00	O&GCM 20%G10%O70%M	0.77

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Tester: Ray Schwager

Unit No: 77

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Reference Elevations: 1948.00 ft (KB)

Total Depth: 3415.00 ft (KB) (TVD)

1940.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8700 Outside

Press@RunDepth: psig @ 3322.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.07.13

End Date:

2016.07.13

Last Calib.:

2016.07.13

Start Time: 14:30:31

End Time:

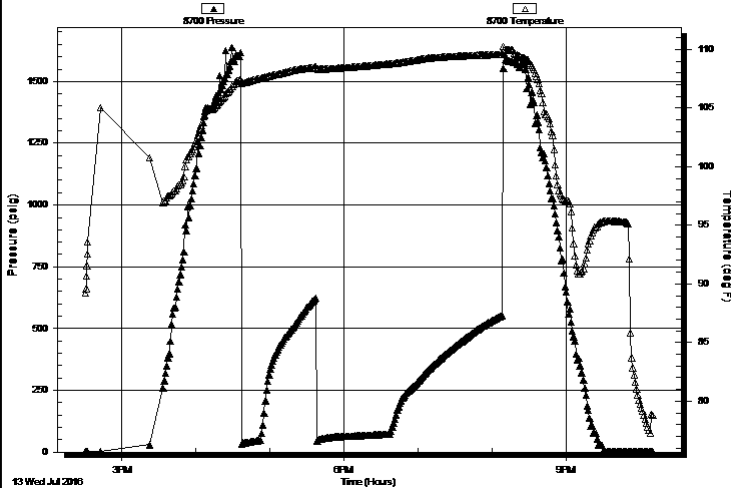
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Time On Btm:

Time Off Btm:

TEST COMMENT: 15-IFP-w k to a gd bl 1/2"to 6 1/2"bl
45-ISIP-no bl
60-FFP-w k to a strg bl in 40 min
90-FSIP-no bl

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
0.00	190' GIP	0.00
62.00	HO&GCM 5%G25%O70%M	0.60
55.00	O&GCM 20%G10%O70%M	0.77

Gas Rates

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

Shelby Resources LLC

16-18s-14w Barton

621 17th st
STE 1155
Denver Co 80293-1155
ATTN: Chris Gottschalk Jer

Dale #1-16

Job Ticket: 65474

DST#: 1

Test Start: 2016.07.13 @ 14:30:44

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 8.75 in³
Resistivity: ohm.m
Salinity: 3000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	190' GIP	0.000
62.00	HO&GCM 5%G25%O70%M	0.596
55.00	O&GCM 20%G10%O70%M	0.772

Total Length: 117.00 ft Total Volume: 1.368 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8018

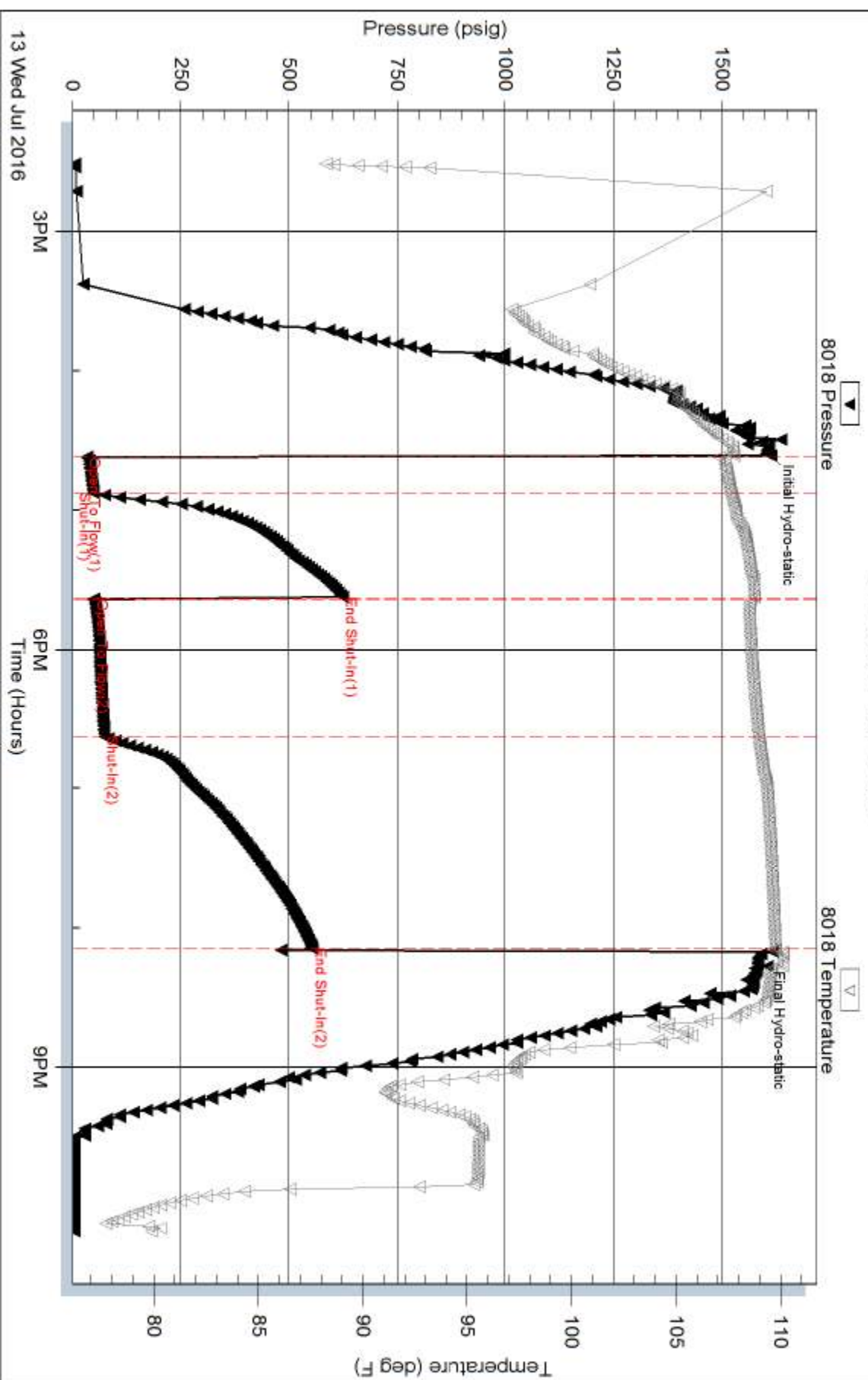
Inside

Shelby Resources LLC

Date #1-16

DST Test Number: 1

Pressure vs. Time



Serial #: 8700

Outside Shelby Resources LLC

Date #1-16

DST Test Number: 1

