



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Sam Gary Jr&Associates Inc

15-5s-23w Norton

1515 Wynkoop
Ste 700
Denver Co 80202
ATTN: Spencer Musgrove,Jim

Hilderbrand #1-15

Job Ticket: 64150 **DST#: 1**
Test Start: 2017.05.13 @ 00:15:28

GENERAL INFORMATION:

Formation: **LKC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:47:23
 Time Test Ended: 10:02:38
 Interval: **3350.00 ft (KB) To 3412.00 ft (KB) (TVD)**
 Total Depth: 3412.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ray Schwager
 Unit No: 77
 Reference Elevations: 2212.00 ft (KB)
 2204.00 ft (CF)
 KB to GR/CF: 8.00 ft

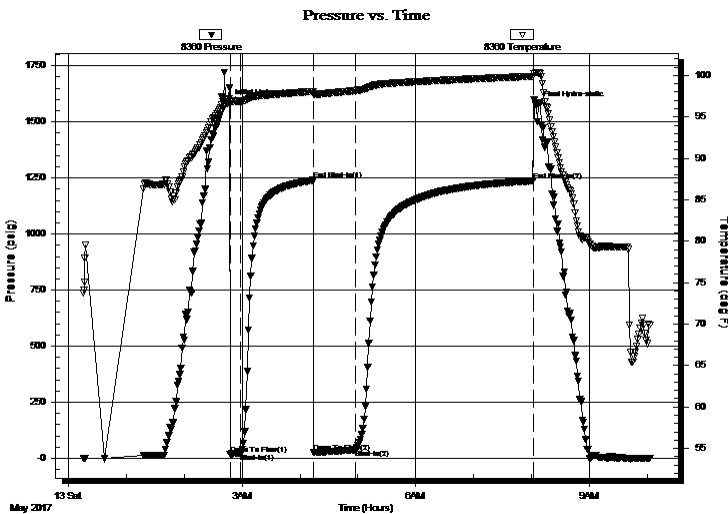
Serial #: 8360

Inside

Press@RunDepth: 39.54 psig @ 3352.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.05.13 End Date: 2017.05.13 Last Calib.: 2017.05.13
 Start Time: 00:15:28 End Time: 10:02:38 Time On Btm: 2017.05.13 @ 02:45:23
 Time Off Btm: 2017.05.13 @ 08:04:52

TEST COMMENT: 10-IFP-w k bl thru-out 1/4"to 3/4"bl
 75-ISIP-no bl bk
 45-FFP-surface bl thru-out
 180-FSIP-no bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1579.50	97.16	Initial Hydro-static
2	18.59	96.60	Open To Flow (1)
13	23.23	96.91	Shut-In(1)
89	1239.59	98.09	End Shut-In(1)
89	26.74	97.76	Open To Flow (2)
133	39.54	98.18	Shut-In(2)
317	1236.56	99.89	End Shut-In(2)
320	1572.70	100.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	GMO 5%G40%M55%O	0.25
10.00	CO	0.07

Gas Rates

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



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Hilderbrand #1-15
 Job Ticket: 64150 **DST#: 1**
 Test Start: 2017.05.13 @ 00:15:28

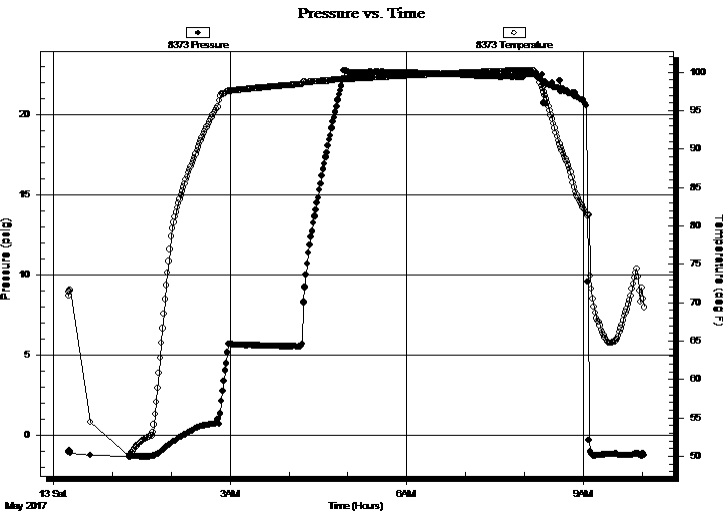
GENERAL INFORMATION:

Formation: **LKC**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 02:47:23 Tester: Ray Schwager
 Time Test Ended: 10:02:38 Unit No: 77
 Interval: **3350.00 ft (KB) To 3412.00 ft (KB) (TVD)** Reference Elevations: 2212.00 ft (KB)
 Total Depth: 3412.00 ft (KB) (TVD) 2204.00 ft (CF)
 Hole Diameter: 7.85 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8373 Fluid

Press@RunDepth: psig @ 3315.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.05.13 End Date: 2017.05.13 Last Calib.: 2017.05.13
 Start Time: 00:15:10 End Time: 10:02:50 Time On Btm:
 Time Off Btm:

TEST COMMENT: 10-IFP-w k bl thru-out 1/4" to 3/4" bl
 75-ISIP-no bl bk
 45-FFP-surface bl thru-out
 180-FSIP-no bl bk



PRESSURE SUMMARY

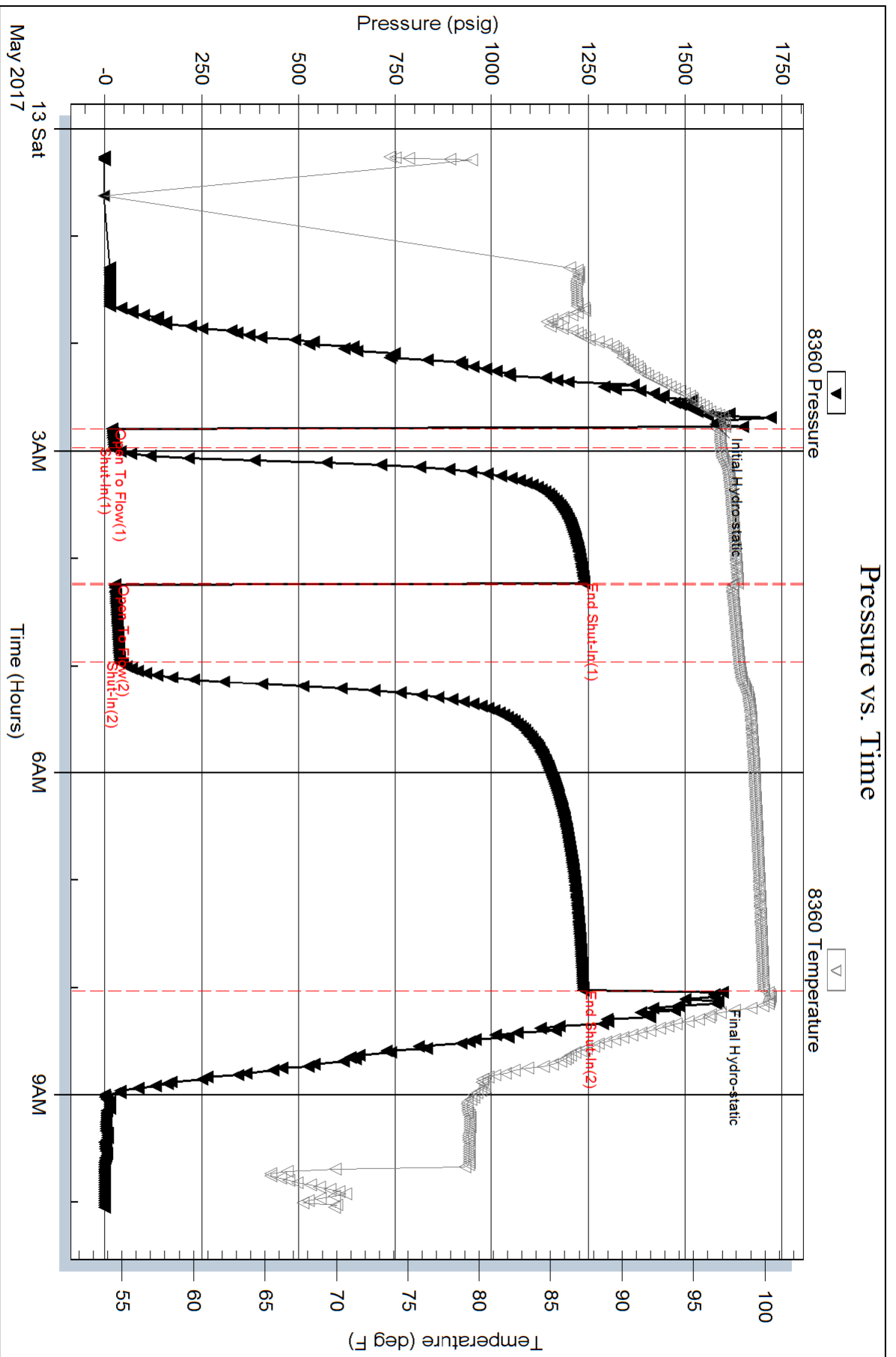
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
35.00	GMO 5%G40%M55%O	0.25
10.00	CO	0.07

Gas Rates

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

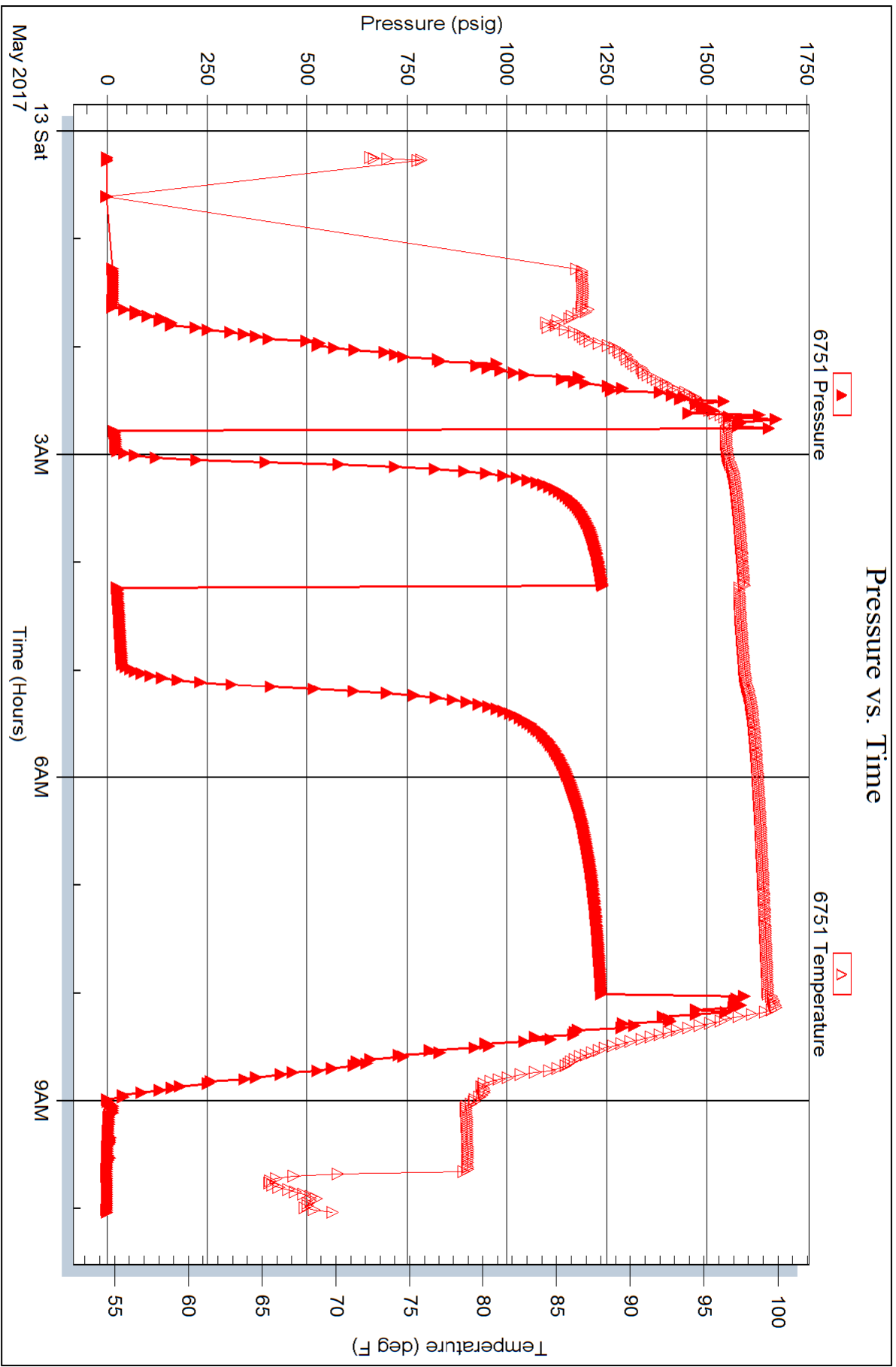


Serial #: 6751

Outside Sam Gary Jr&Associates Inc

Hilderbrand #1-15

DST Test Number: 1



Serial #: 8373

Fluid

Sam Gary Jr&Associates Inc

Hilderbrand #1-15

DST Test Number: 1

