



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary Jr. & Associates

10-10-22, Graham, KS

1515 Wynkoop STE 700
Denver CO 80202

Rice Estate #1-10

Job Ticket: 55480

DST#: 1

ATTN: Dan Pritchard

Test Start: 2013.11.28 @ 16:56:00

GENERAL INFORMATION:

Formation: **KC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:25:45
 Time Test Ended: 01:52:00
 Interval: **3742.00 ft (KB) To 3778.00 ft (KB) (TVD)**
 Total Depth: 3778.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 2328.00 ft (KB)
 2320.00 ft (CF)
 KB to GR/CF: 8.00 ft

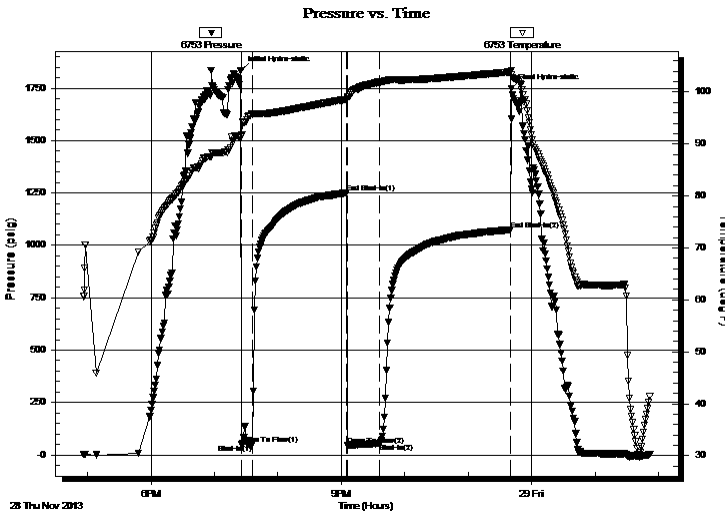
Serial #: 6753

Inside

Press @ Run Depth: 55.07 psig @ 3743.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.28 End Date: 2013.11.29 Last Calib.: 2013.11.29
 Start Time: 16:56:05 End Time: 01:52:00 Time On Btm: 2013.11.28 @ 19:25:00
 Time Off Btm: 2013.11.28 @ 23:41:00

TEST COMMENT: 10min IF-3in blow
 90min ISI-No blow
 30min FF-2 1/2in blow
 120min FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1834.82	91.63	Initial Hydro-static
1	51.55	91.68	Open To Flow (1)
11	49.83	95.73	Shut-In(1)
100	1250.74	98.58	End Shut-In(1)
101	46.49	98.74	Open To Flow (2)
132	55.07	101.94	Shut-In(2)
255	1074.07	103.87	End Shut-In(2)
256	1749.37	103.26	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
5.00	GO 5%G 95%O	0.07
65.00	VSOMCW 2%O 20%M 78%W	0.91

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



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FLUID SUMMARY

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DST#: 1

ATTN: Dan Pritchard

Test Start: 2013.11.28 @ 16:56:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

65000 ppm

Viscosity: 71.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	GO 5%G 95%O	0.070
65.00	VSOMCW 2%O 20%M 78%W	0.912

Total Length: 70.00 ft Total Volume: 0.982 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

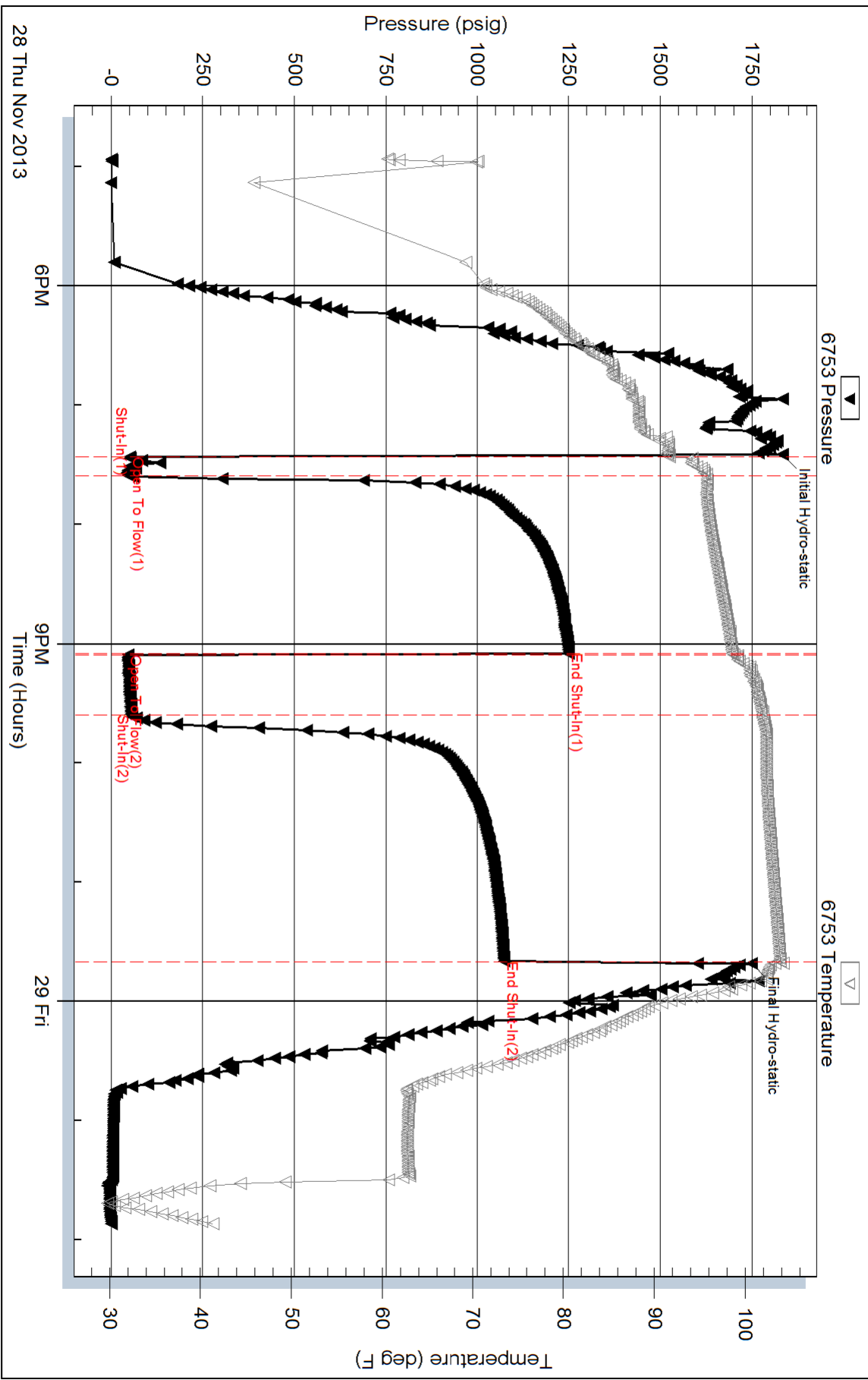
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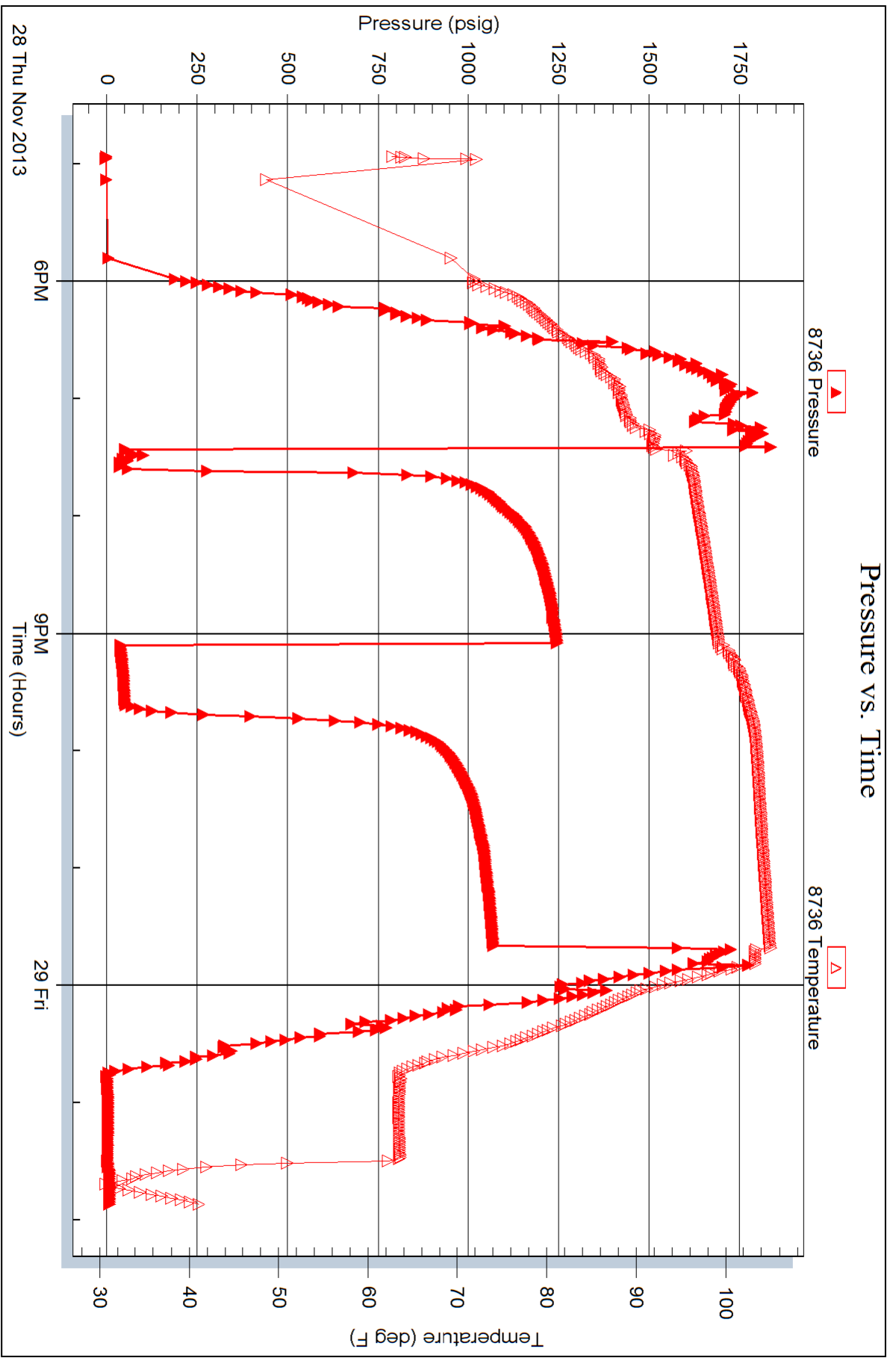
Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data 500mlM 1400ml W 100ml O 75 PSI RW .25@35

Pressure vs. Time





Serial #: 8319

Fluid

Sam Gary Jr. & Associates

Rice Estate #1-10

DST Test Number: 1

