



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Sam Gary
1515 Wynkoop St. Ste 700
Denver, CO
80202
ATTN: Clayton Camozzi

Rajewski et al 1-5
5-15-16/ELLIS
Job Ticket: 42796 **DST#: 4**
Test Start: 2011.04.19 @ 02:34:48

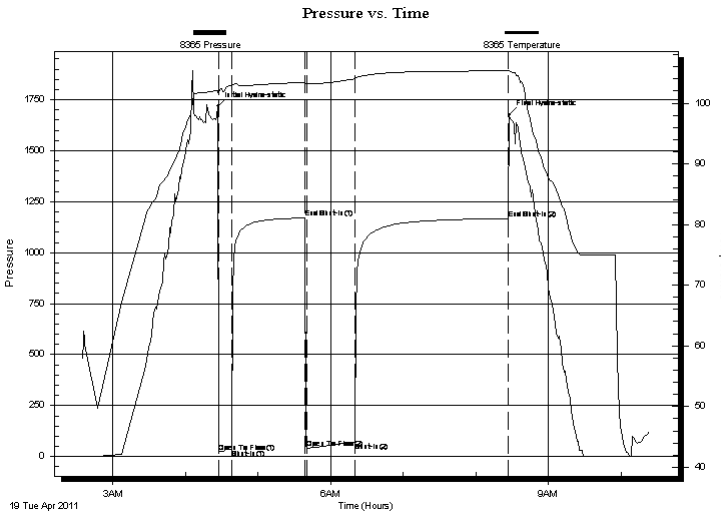
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:27:18
Time Test Ended: 10:24:18
Interval: **3442.00 ft (KB) To 3456.00 ft (KB) (TVD)**
Total Depth: 3548.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole
Tester: Dustin Rash
Unit No: 41
Reference Elevations: 1889.00 ft (KB)
1881.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8365 Fluid
Press @ Run Depth: 72.25 psig @ 3414.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.04.19 End Date: 2011.04.19 Last Calib.: 2011.04.19
Start Time: 02:34:49 End Time: 10:24:18 Time On Btm: 2011.04.19 @ 04:26:48
Time Off Btm: 2011.04.19 @ 08:27:48

TEST COMMENT: IF-Weak building blow . Built to 2&1/4 inches.
ISI-No Return.
FF-Weak building blow . Built to 7&1/2 inches.
FSI-No Return. Time Intervals-10-60-40-120

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1717.22	102.02	Initial Hydro-static
1	20.33	101.47	Open To Flow (1)
11	36.01	102.87	Shut-In(1)
72	1170.08	103.43	End Shut-In(1)
74	40.01	103.21	Open To Flow (2)
113	72.25	103.99	Shut-In(2)
240	1166.83	105.29	End Shut-In(2)
241	1675.89	105.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	90%Water/10%Mud	0.59
62.00	60%Water/40%Mud	0.87

Gas Rates

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



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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:	26500 ppm
Viscosity:	53.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	9.18 in ³	Gas Cushion Type:			
Resistivity:	0.40 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6700.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	90%Water/10%Mud	0.587
62.00	60%Water/40%Mud	0.870

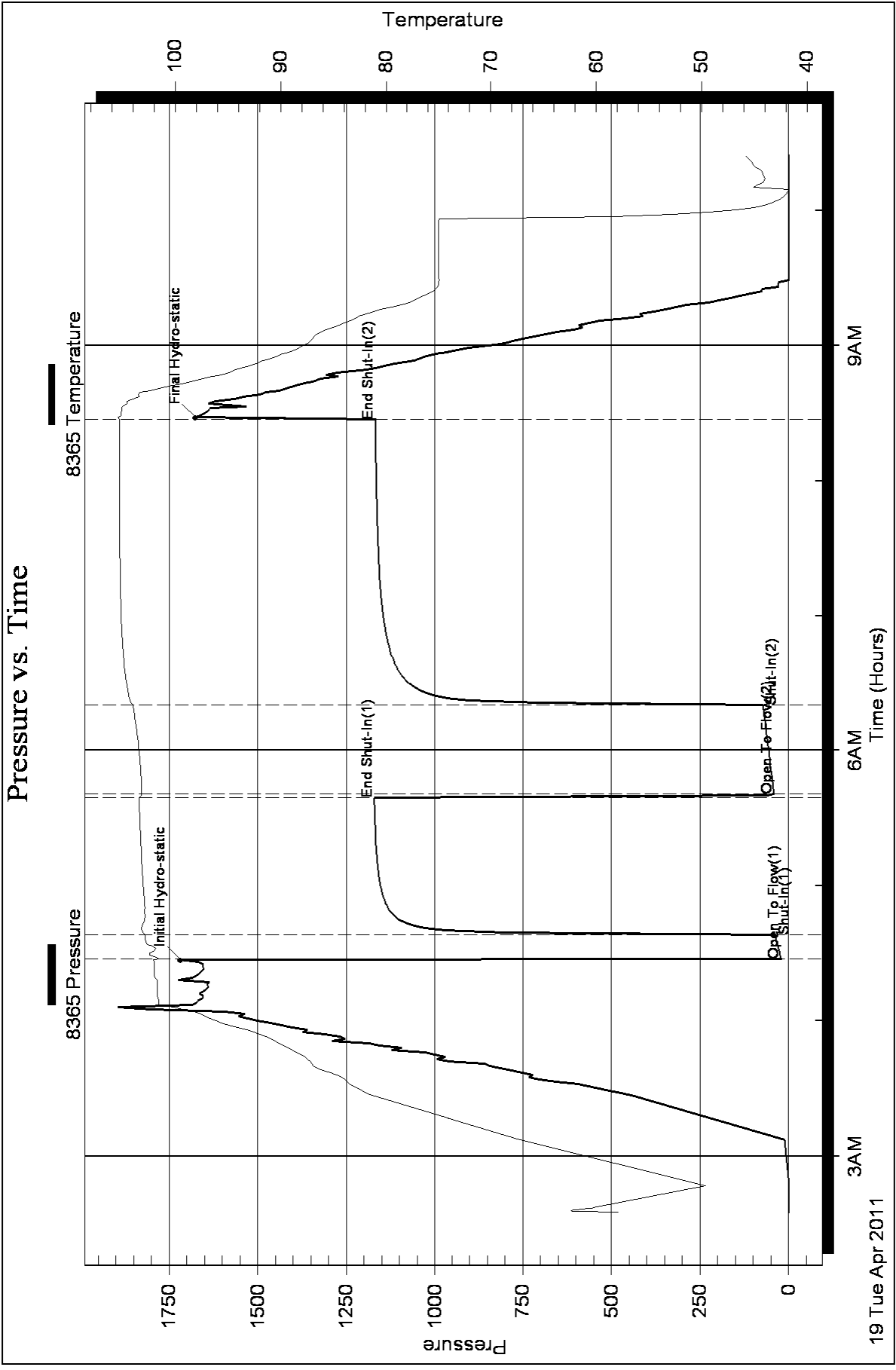
Total Length: 124.00 ft Total Volume: 1.457 bbl

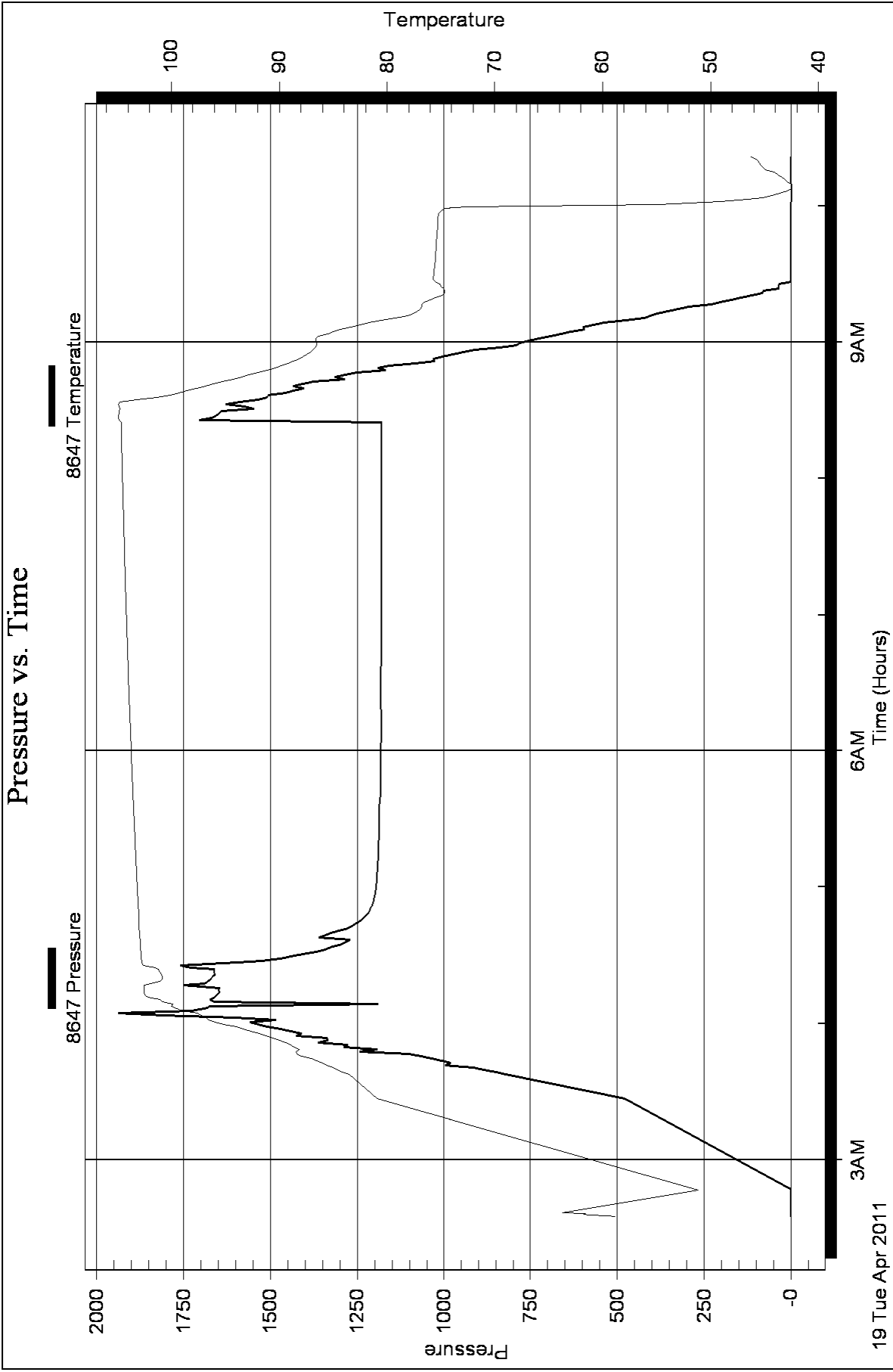
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Sampler- 1900ML-Water 100ML-Mud
Pressure- 850# Resistivity- .441@44=24,500ppm

Pressure vs. Time





Serial #: 8734

Outside Sam Gary

5-15-16/Elis

DST Test Number: 4

