



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

DNOC
POB 1019
Hays, KS 67601
ATTN: Marc Downing

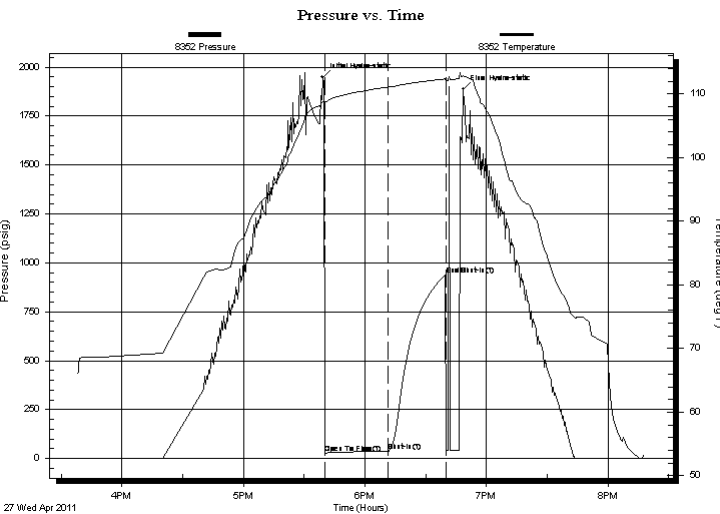
Alma Herl 1-13
13-13s-19w Ellis,KS
Job Ticket: 041817 **DST#: 5**
Test Start: 2011.04.27 @ 15:38:05

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:40:00
Time Test Ended: 20:18:29
Interval: **3674.00 ft (KB) To 3720.00 ft (KB) (TVD)**
Total Depth: 3754.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2062.00 ft (KB)
2054.00 ft (CF)
KB to GR/CF: 8.00 ft
Test Type: Conventional Straddle
Tester: Andy Carreira
Unit No: 39

Serial #: 8352 Outside
Press @ RunDepth: 36.56 psig @ 3681.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.04.27 End Date: 2011.04.27 Last Calib.: 2011.04.27
Start Time: 15:38:05 End Time: 20:18:29 Time On Btm: 2011.04.27 @ 17:39:00
Time Off Btm: 2011.04.27 @ 18:48:40

TEST COMMENT: IF:(30min) Blow died in 6 min.
IS:(30min) No Return
FF: No Blow ,Flushed,Surge,No Blow . Pulled Tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1948.37	108.72	Initial Hydro-static
1	25.79	107.99	Open To Flow (1)
33	36.56	111.08	Shut-In(1)
61	938.98	112.39	End Shut-In(1)
70	1886.99	112.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	SGMw /oil specks in tool	0.10

Gas Rates

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



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FLUID SUMMARY

DNOG **Alma Herl 1-13**
 POB 1019 **13-13s-19w Ellis,KS**
 Hays, KS 67601 Job Ticket: 041817 **DST#: 5**
 ATTN: Marc Downing Test Start: 2011.04.27 @ 15:38:05

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:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: inches			

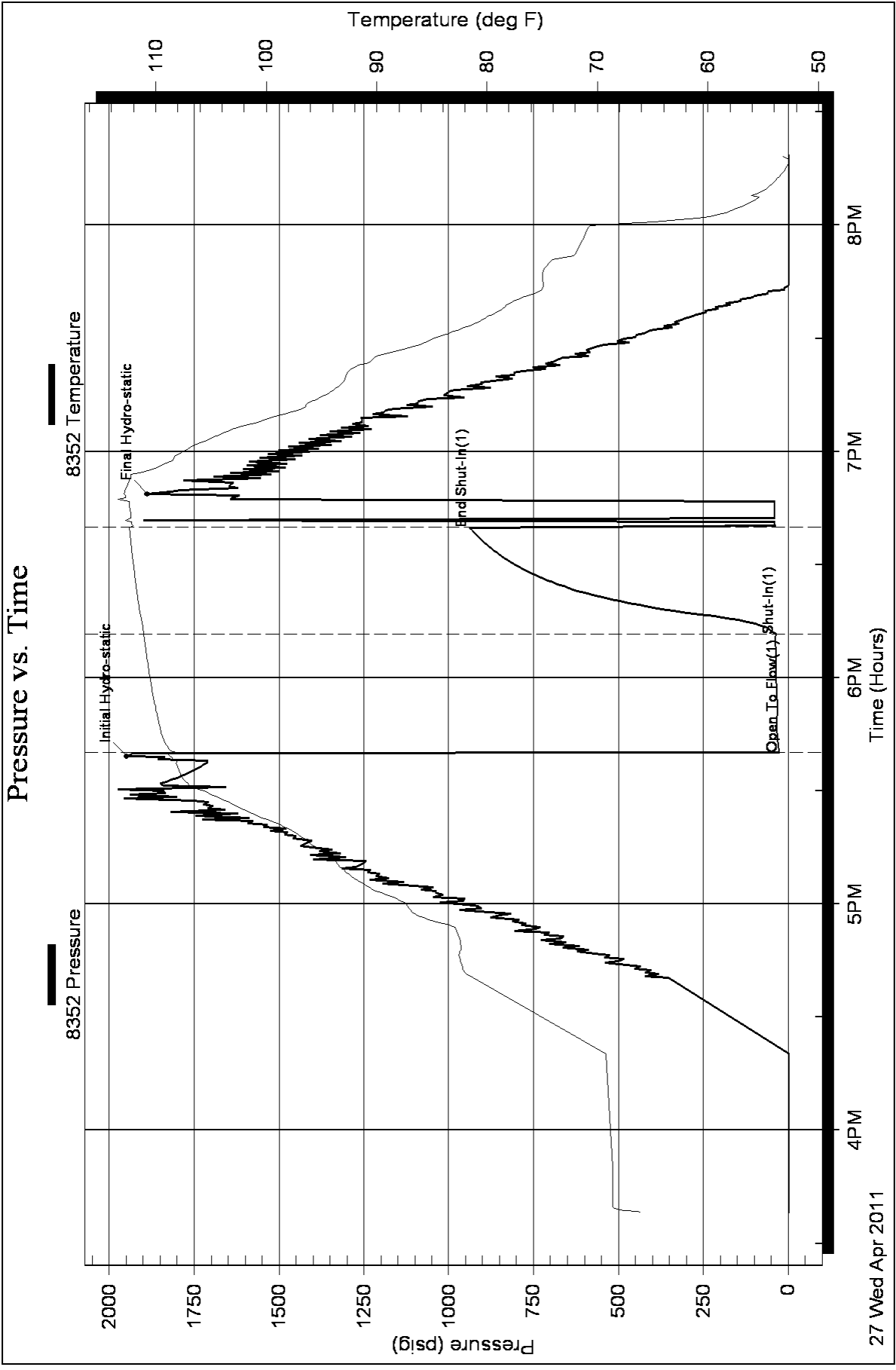
Recovery Information

Recovery Table

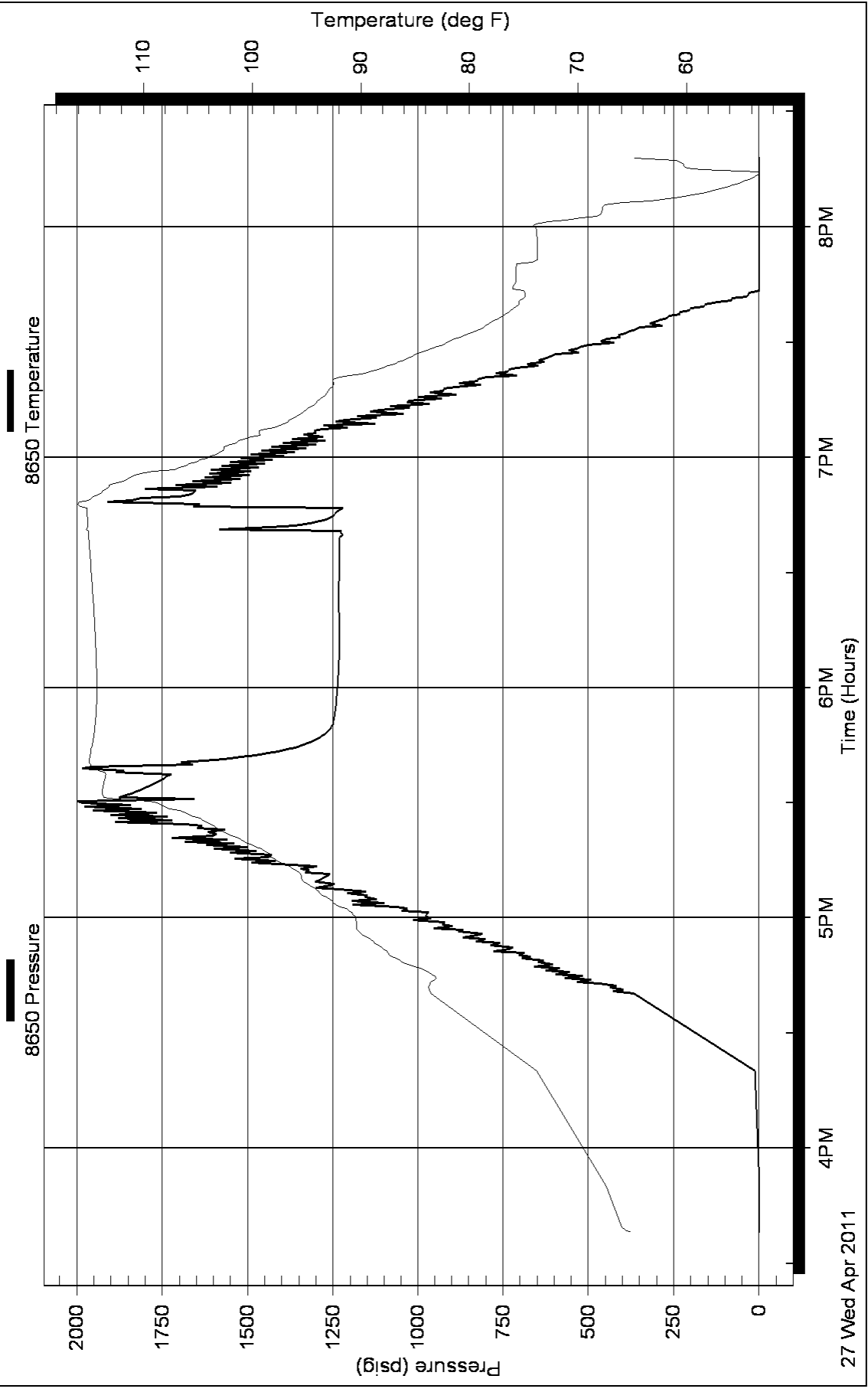
Length ft	Description	Volume bbl
20.00	SGMw /oil specks in tool	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



Pressure vs. Time



27 Wed Apr 2011