





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Tengasco, Inc.  
 1327 Noose Rd  
 PO Box 458  
 Hays Ks 67601  
 ATTN: Clayton Erickson

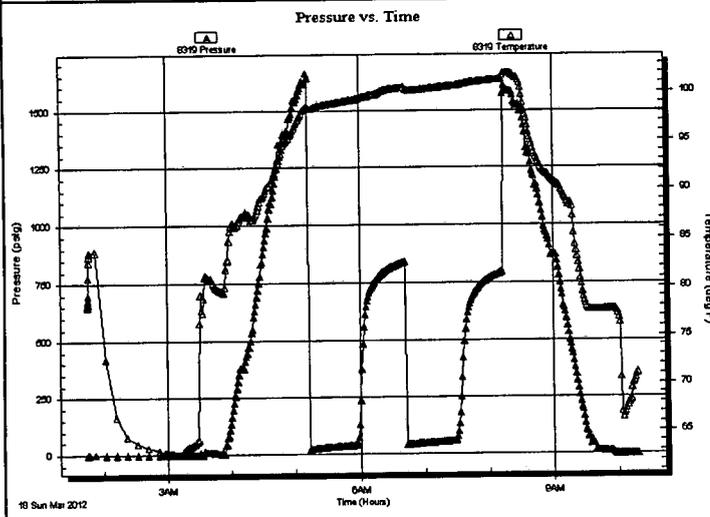
**28-8-19, Rooks, KS**  
**Veverka C #6**  
 Job Ticket: 46042      DST#: 1  
 Test Start: 2012.03.18 @ 01:45:42

## GENERAL INFORMATION:

Formation: **KC"H-K"**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: **05:13:12**  
 Time Test Ended: **10:17:42**  
 Interval: **3315.00 ft (KB) To 3406.00 ft (KB) (TVD)**  
 Total Depth: **3406.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Tester: **Brett Dickinson**  
 Unit No: **59**  
 Reference Elevations: **2011.00 ft (KB)**  
**2004.00 ft (CF)**  
 KB to GR/CF: **7.00 ft**

**Serial #: 8319**      **Outside**  
 Press@RunDepth:      psig @      **3316.00 ft (KB)**  
 Start Date:      **2012.03.18**      End Date:      **2012.03.18**  
 Start Time:      **01:45:13**      End Time:      **10:17:38**  
 Capacity:      **8000.00 psig**  
 Last Calib.:      **2012.03.18**  
 Time On Btm:  
 Time Off Btm:

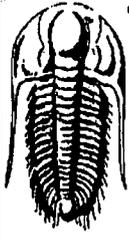
TEST COMMENT: IF-4in blow  
 IS-No blow  
 FF-1.25in blow  
 FSI-No blow



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

Recovery		
Length (ft)	Description	Volume (bbl)
75.00	VSOCM 2%O 98%M	1.05

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



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ATTN: Clayton Erickson

**28-8-19, Rooks, KS**  
**Veverka C #6**  
Job Ticket: 46042      DST#: 1  
Test Start: 2012.03.18 @ 01:45:42

**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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.80 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1800.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
75.00	VSOCM 2%O 98%M	1.052

Total Length: 75.00 ft      Total Volume: 1.052 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

DST Test Number: 1

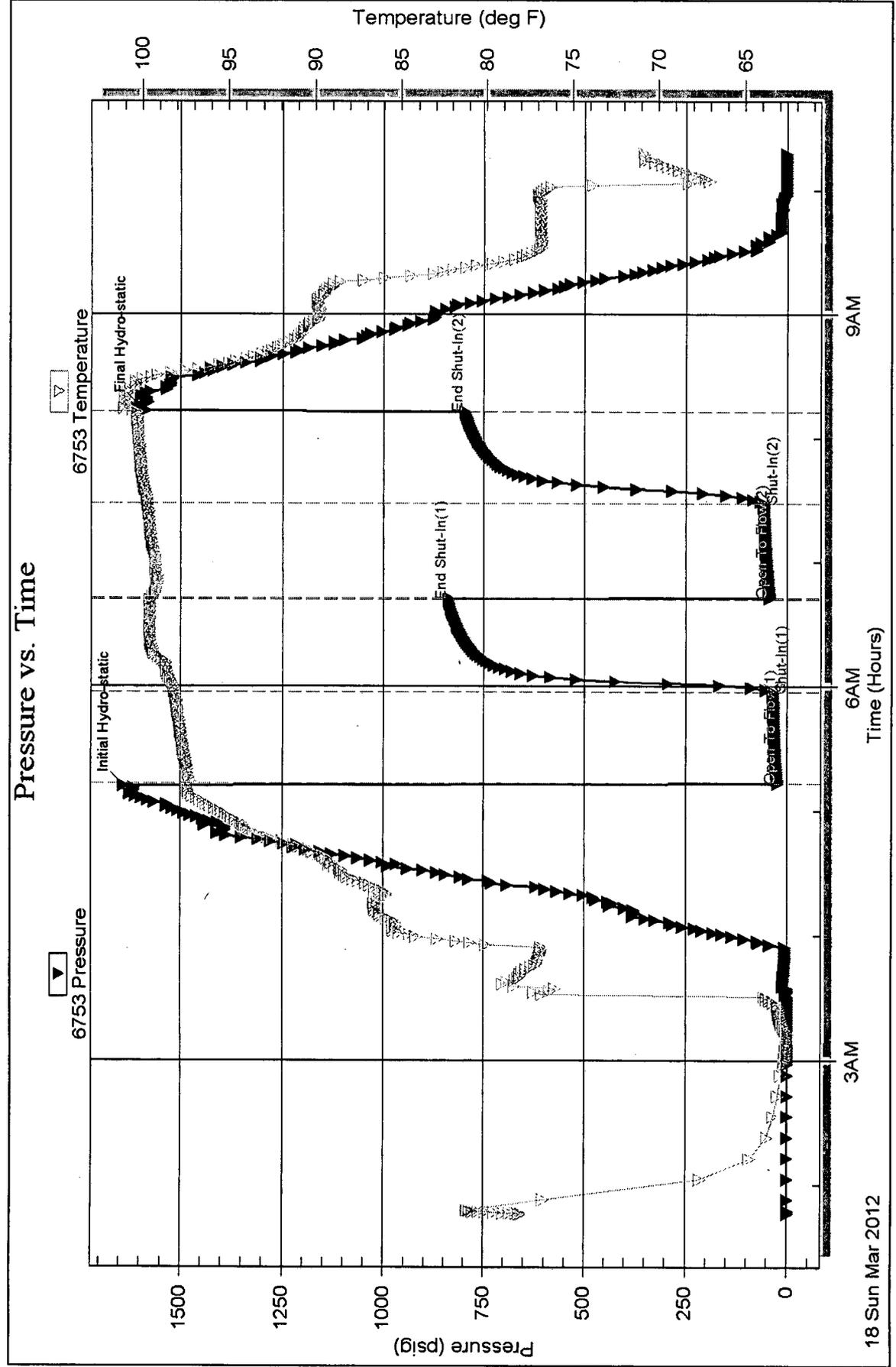
Veverka C #6

Tengasco, Inc.

Inside

Serial #: 6753

### Pressure vs. Time



Printed: 2012.03.18 @ 10:44:13

Ref. No: 46042

Trilobite Testing, Inc

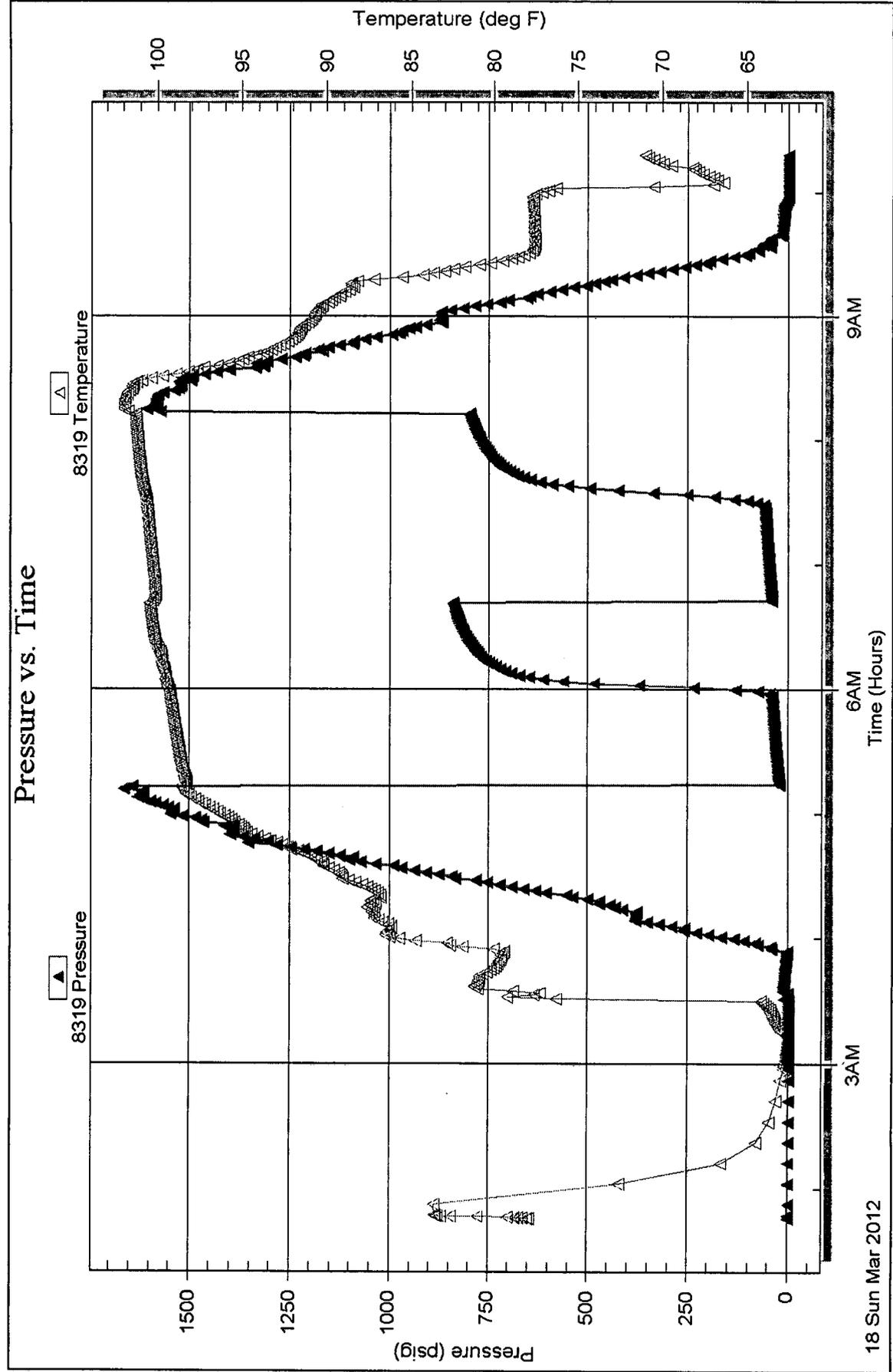
DST Test Number: 1

Veverka C #6

Outside Tengasco, Inc.

Serial #: 8319

### Pressure vs. Time



Printed: 2012.03.18 @ 10:44:14

Ref. No: 46042

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## DRILL STEM TEST REPORT

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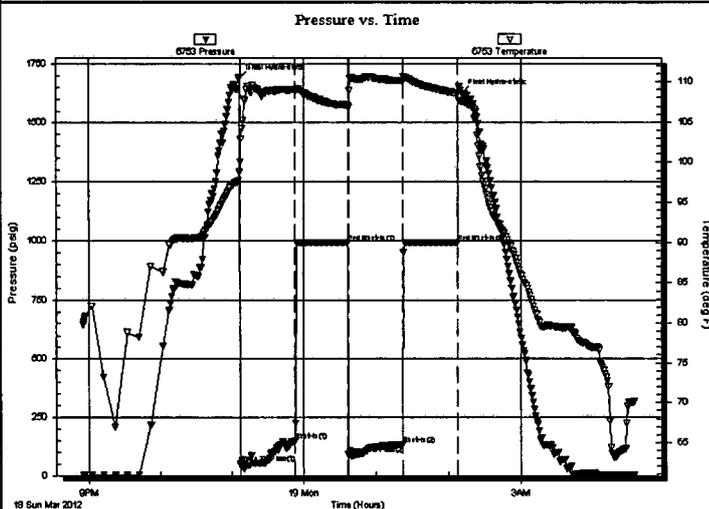
**28-8-19, Rooks, KS**  
**Veverka C #6**  
Job Ticket: 46043      **DST#: 2**  
Test Start: 2012.03.18 @ 20:55:07

### GENERAL INFORMATION:

Formation: **Arb.**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: 23:07:07  
Time Test Ended: 04:34:37  
Interval: **3446.00 ft (KB) To 3452.00 ft (KB) (TVD)**  
Total Depth: **3452.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole (Reset)**  
Tester: **Brett Dickinson**  
Unit No: **59**  
Reference Elevations: **2011.00 ft (KB)**  
**2004.00 ft (CF)**  
KB to GR/CF: **7.00 ft**

**Serial #: 6753**      **Inside**  
Press@RunDepth: **133.53 psig @ 3447.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2012.03.18**      End Date: **2012.03.19**      Last Calib.: **2012.03.19**  
Start Time: **20:55:12**      End Time: **04:34:36**      Time On Btm: **2012.03.18 @ 23:06:37**  
Time Off Btm: **2012.03.19 @ 02:10:37**

TEST COMMENT: IF-BOB -17min  
ISI-No Blow  
FF-BOB in 19min  
FSI-No blow



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1687.75	98.76	Initial Hydro-static
1	52.73	100.05	Open To Flow (1)
47	148.92	108.93	Shut-In(1)
90	991.53	107.04	End Shut-In(1)
91	90.66	106.84	Open To Flow (2)
136	133.53	110.16	Shut-In(2)
181	991.40	108.57	End Shut-In(2)
184	1622.99	107.62	Final Hydro-static

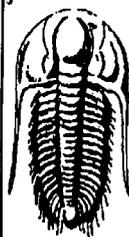
### Recovery

Length (ft)	Description	Volume (bbl)
120.00	VSOCW 5%O 95%W	1.68
120.00	OCW 25%O 75%W	1.68
30.00	VSGO 5%G 95%O	0.42

\* Recovery from multiple tests

### Gas Rates

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



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28-8-19, Rooks, KS  
Veverka C #6  
Job Ticket: 46043      DST#: 2  
Test Start: 2012.03.18 @ 20:55:07

### Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	22 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	55000 ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	6.79 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1800.00 ppm				
Filter Cake:	inches				

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	VSOCW 5%O 95%W	1.683
120.00	OCW 25%O 75%W	1.683
30.00	VSGO 5%G 95%O	0.421

Total Length: 270.00 ft      Total Volume: 3.787 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .15@65

Serial #: 6753

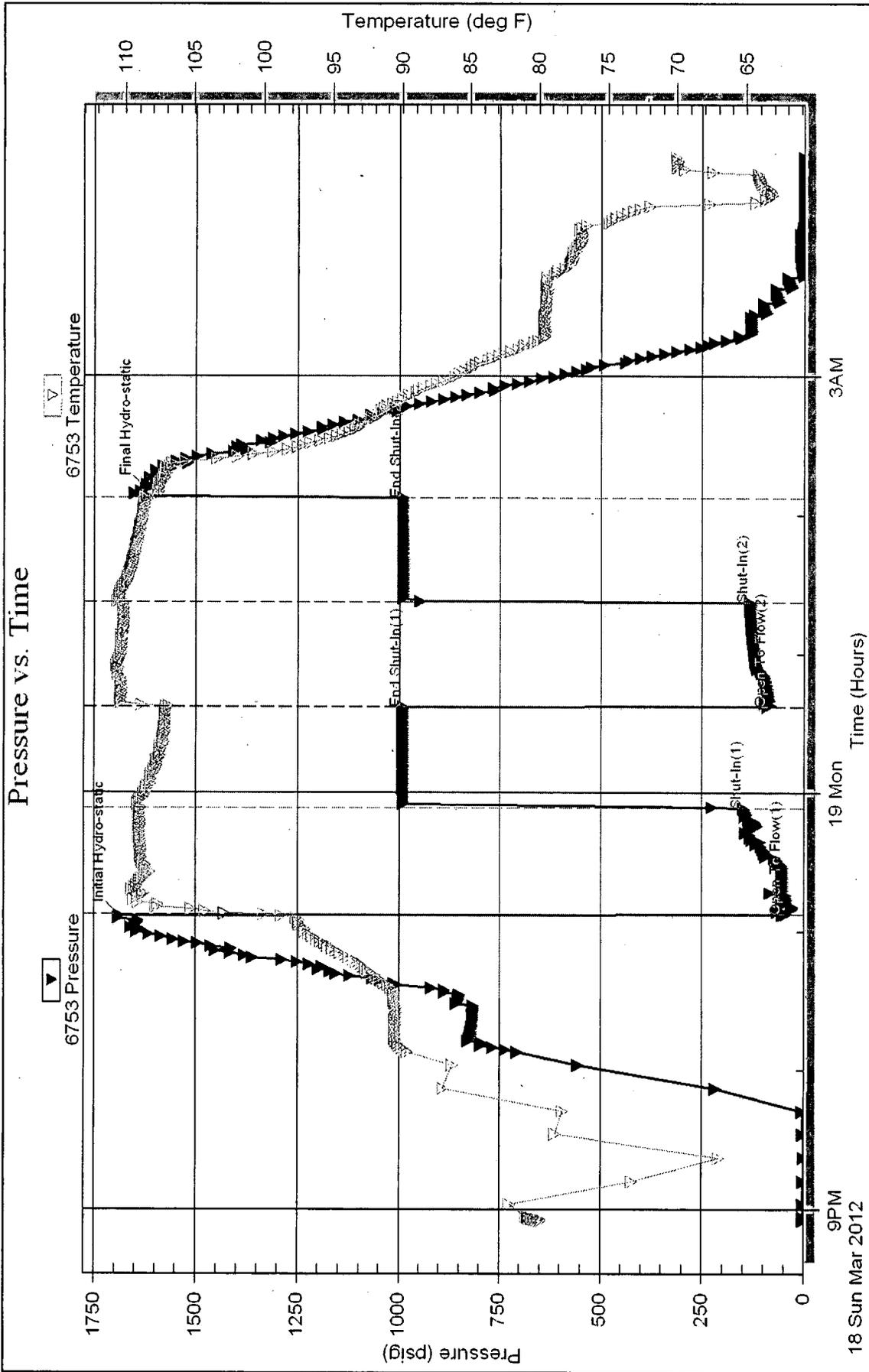
Inside

Tengasco, Inc.

Veverka C#6

DST Test Number: 2

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 46043

Printed: 2012.03.19 @ 08:20:34