

**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Val Energy
200 W. Douglas Ave.
Suite 520
Wichita, KS 67202
ATTN: Sean Deenihan

S18-8-35 Thomas, KS
Schroeder-Frodin Uni
Job Ticket: 51772 DST#: 1
Test Start: 2013.06.30 @ 13:51:00

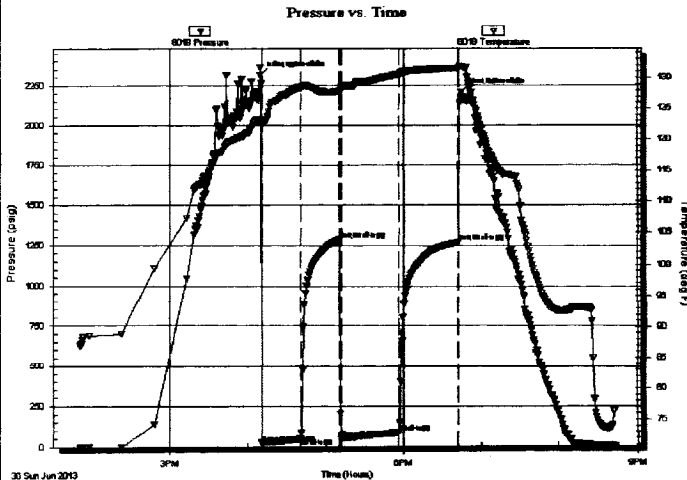
GENERAL INFORMATION:

Formation: **Altamont**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: 16:11:00
Time Test Ended: 20:42:00
Interval: **4477.00 ft (KB) To 4563.00 ft (KB) (TVD)**
Total Depth: **4563.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole (Initial)**
Tester: **Chuck Smith**
Unit No: **62**
Reference Elevations: **3367.00 ft (KB)**
3356.00 ft (CF)
KB to GR/CF: **11.00 ft**

Serial #: 8018 Inside
Press@RunDepth: **86.61 psig @ 4481.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2013.06.30** End Date: **2013.06.30** Last Calib.: **2013.06.30**
Start Time: **13:51:02** End Time: **20:42:00** Time On Btm: **2013.06.30 @ 16:09:40**
Time Off Btm: **2013.06.30 @ 18:44:09**

TEST COMMENT: **4" Blow .
No return.
%" Blow .
No return.**

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2314.66	123.23	Initial Hydro-static
2	22.11	122.29	Open To Flow (1)
32	48.57	128.39	Shut-In(1)
61	1286.99	127.88	End Shut-In(1)
63	52.32	128.44	Open To Flow (2)
107	86.61	130.60	Shut-In(2)
153	1271.48	131.54	End Shut-In(2)
155	2207.90	131.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW. @ degrees F = PPM	0.00
135.00	M 100m	1.89

Gas Rates

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

Serial #: 8018

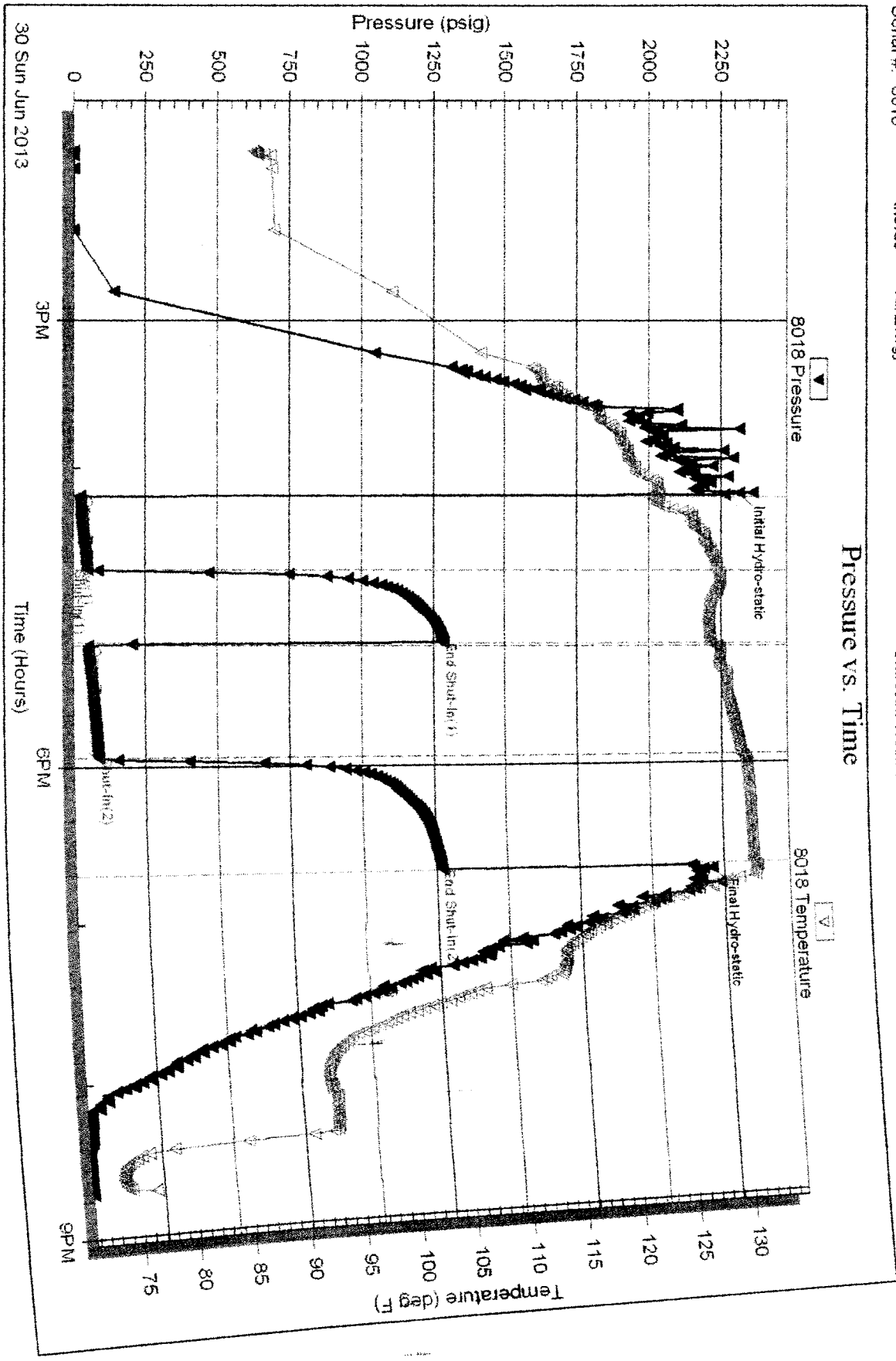
Inside

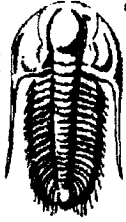
Val Energy

Schroeder-Frohn Unit

DST Test Number: 1

Pressure vs. Time





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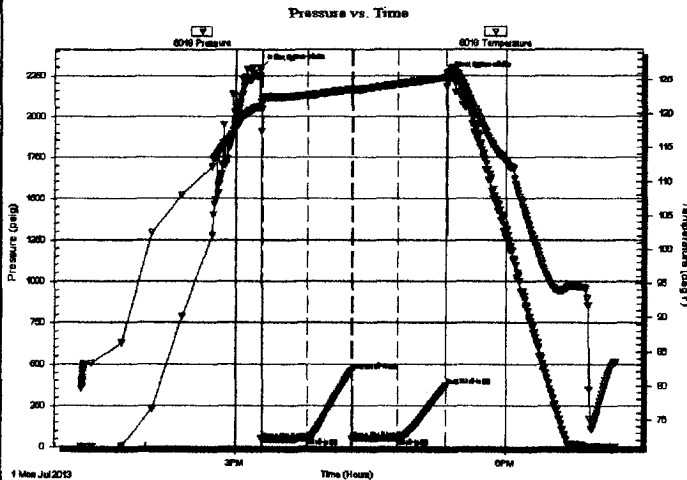
S18-8-35 Thomas, KS
Schroeder-Frodin Uni
Job Ticket: 51773 **DST#: 2**
Test Start: 2013.07.01 @ 13:17:00

GENERAL INFORMATION:

Formation: **Ft. Scott**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 15:17:00
Time Test Ended: 19:12:30
Interval: **4598.00 ft (KB) To 4695.00 ft (KB) (TVD)**
Total Depth: **4695.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole (Reset)**
Tester: **Chuck Smith**
Unit No: **62**
Reference Elevations: **3367.00 ft (KB)**
3356.00 ft (CF)
KB to GR/CF: **11.00 ft**

Serial #: 8018 **Inside**
Press@RunDepth: **48.71 psig @ 4602.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2013.07.01** End Date: **2013.07.01** Last Calib.: **2013.07.01**
Start Time: **13:17:00** End Time: **19:12:30** Time On Btm: **2013.07.01 @ 15:15:50**
Time Off Btm: **2013.07.01 @ 17:20:30**

TEST COMMENT: 1/2" Blow died @ 20 min. Tool slid 5 feet.
No return.
No blow.
No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2296.66	120.99	Initial Hydro-static
2	47.03	121.61	Open To Flow (1)
32	48.22	122.72	Shut-in(1)
62	460.90	123.64	End Shut-in(1)
62	47.64	123.30	Open To Flow (2)
92	48.71	124.33	Shut-in(2)
124	369.31	125.39	End Shut-in(2)
125	2250.66	126.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: @ degrees F = PPM	0.00
60.00	M 100m Oil spots in tool.	0.84

* Recovery from multiple tests

Gas Rates

Chole (inches)	Pressure (psig)	Gas Rate (Mct/d)

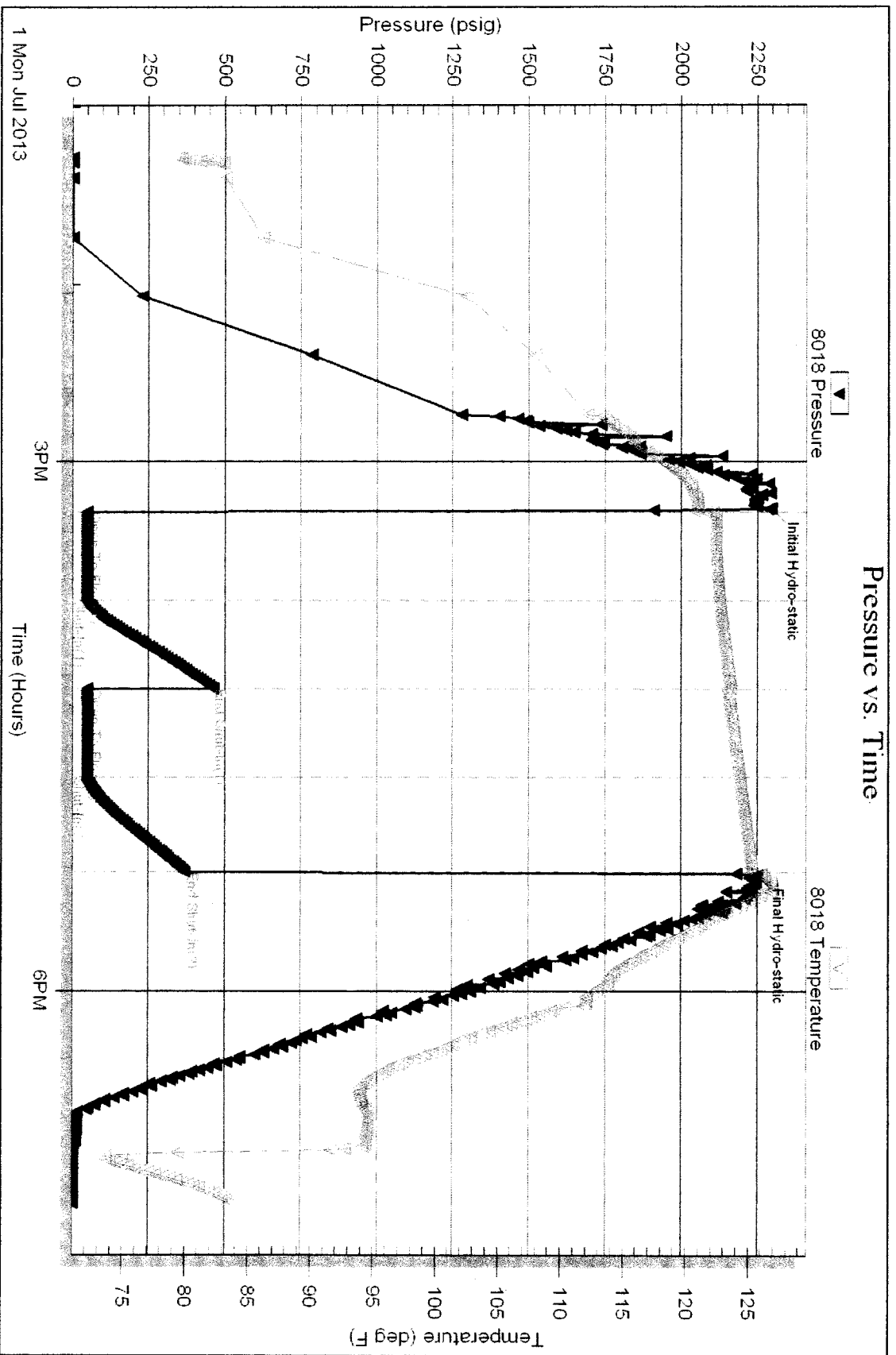
Serial #: 8018

Inside

Val Energy

Schroeder-Frodin Uhi

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 51773

Printed: 2013.07.01 @ 19:21:13