

15-057-20643

7-295-22w



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Vincent Oil Co.**

155 N. Market STE700
Wichita Ks, 67202

ATTN: Ken LeBlanc

7 29 22 Ford KS

Smith 1-7

Start Date: 2009.09.11 @ 01:50:17

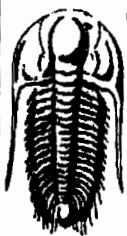
End Date: 2009.09.11 @ 11:13:32

Job Ticket #: 34045 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Vincent Oil Co.

155 N. Market STE700
Wichita Ks, 67202

ATTN: Ken LeBlanc

Smith 1-7

7 29 22 Ford KS

Job Ticket: 34045

DST#: 1

Test Start: 2009.09.11 @ 01:50:17

GENERAL INFORMATION:

Formation: **Basil pen sand**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 05:29:27

Time Test Ended: 11:13:32

Test Type: **Conventional Bottom Hole**

Tester: **Mike Slomp**

Unit No: **28**

Interval: **5276.00 ft (KB) To 5320.00 ft (KB) (TVD)**

Total Depth: **5320.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Fair**

Reference Elevations: **2543.00 ft (KB)**

2531.00 ft (CF)

KB to GR/CF: **12.00 ft**

Serial #: 6751 **Inside**

Press@RunDepth: **1626.36 psig @ 5278.00 ft (KB)**

Start Date: **2009.09.11**

End Date:

2009.09.11

Start Time: **01:50:18**

End Time:

11:13:32

Capacity: **7000.00 psig**

Last Calib.: **2009.09.11**

Time On Btm: **2009.09.11 @ 05:27:27**

Time Off Btm: **2009.09.11 @ 09:05:17**

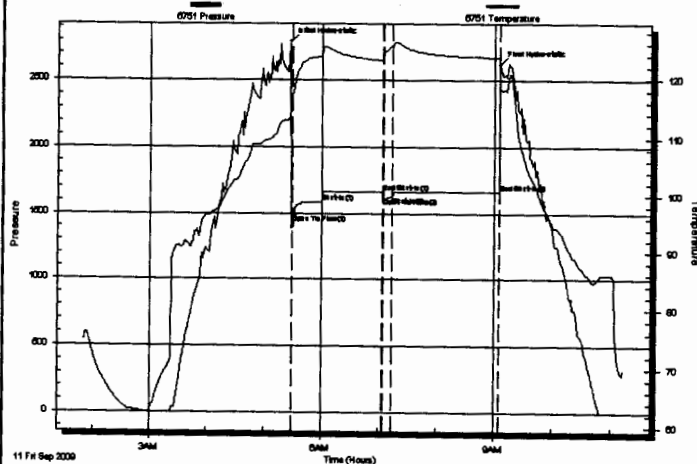
TEST COMMENT: IF- BOB ASAO GTS in 1 min. 30 min flow

ISI- No blow back. 60 min

FF-BOB ASAO GTS. Shut in after 15 min due to choke leaking gas on floor.

FSI- No blow back. 120 min

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2783.88	113.40	Initial Hydro-static
2	1424.13	117.29	Open To Flow (1)
32	1582.92	123.93	Shut-In (1)
96	1663.36	123.22	End Shut-In (1)
98	1623.07	124.51	Open To Flow (2)
107	1626.36	125.61	Shut-In (2)
218	1661.75	123.71	End Shut-In (2)
218	2615.72	118.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	WCOM60%mud30%water10%oil	0.21

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	250.00	7601.19
Last Gas Rate	1.00	280.00	8463.65
Max. Gas Rate	1.00	280.00	8463.65



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Vincent Oil Co.

Smith 1-7

155 N. Market STE700
Wichita Ks, 67202

7 29 22 Ford KS

Job Ticket: 34045

DST#: 1

ATTN: Ken LeBlanc

Test Start: 2009.09.11 @ 01:50:17

Tool Information

Drill Pipe:	Length: 5260.00 ft	Diameter: 3.80 inches	Volume: 73.78 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			Total Volume: 73.78 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	5276.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	44.00 ft				
Tool Length:	71.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			5250.00		
Shut In Tool	5.00			5255.00		
Hydraulic tool	5.00			5260.00		
Jars	5.00			5265.00		
Safety Joint	2.00			5267.00		
Packer	5.00		Fluid	5272.00	27.00	Bottom Of Top Packer
Packer	4.00			5276.00		
Stubb	1.00			5277.00		
Perforations	1.00			5278.00		
Recorder	0.00	6751	Inside	5278.00		
Recorder	0.00	8321	Inside	5278.00		
Perforations	6.00			5284.00		
Change Over Sub	1.00			5285.00		
Drill Pipe	31.00			5316.00		
Change Over Sub	1.00			5317.00		
Bullnose	3.00			5320.00	44.00	Bottom Packers & Anchor
Total Tool Length:		71.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Co.

Smith 1-7

155 N. Market STE700
Wichita Ks, 67202

7 29 22 Ford KS

Job Ticket: 34045

DST#: 1

ATTN: Ken LeBlanc

Test Start: 2009.09.11 @ 01:50:17

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

18000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 12.74 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	WCOM60% mud30% water10% oil	0.210

Total Length: 15.00 ft

Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Vincent Oil Co.

Smith 1-7

155 N. Market STE700
Wichita Ks, 67202

7 29 22 Ford KS

Job Ticket: 34045

DST#: 1

ATTN: Ken LeBlanc

Test Start: 2009.09.11 @ 01:50:17

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	10	1.00	250.00	7601.19
1	10	1.00	250.00	7601.19
1	30	1.00	275.00	8319.91
2	10	1.00	280.00	8463.65

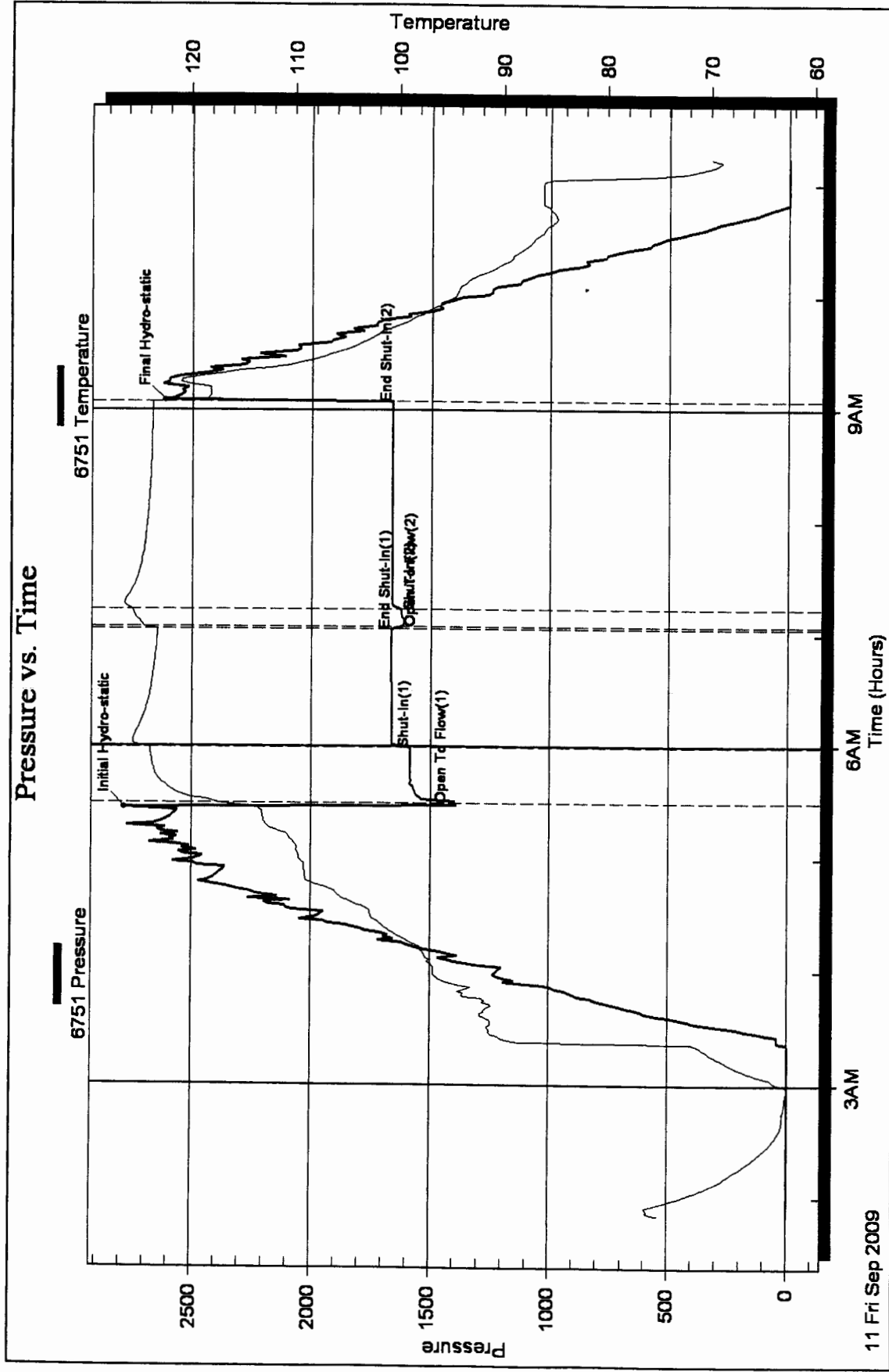
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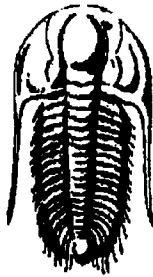
Inside

Vincent Oil Co.

7 29 22 Ford KS

DST Test Number: 1





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Vincent Oil Co.**

155 N. Market STE700
Wichita Ks, 67202

ATTN: Ken LeBlanc

7 29 22 Ford KS

Smith 1-7

Start Date: 2009.09.12 @ 19:35:00

End Date: 2009.09.13 @ 04:46:49

Job Ticket #: 36508 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Vincent Oil Co.

155 N. Market STE700
Wichita Ks, 67202

ATTN: Ken LeBlanc

Smith 1-7

7 29 22 Ford KS

Job Ticket: 36508

DST#: 2

Test Start: 2009.09.12 @ 19:35:00

GENERAL INFORMATION:

Formation: **Basal Penn Sand**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 22:14:00

Time Test Ended: 04:46:49

Test Type: **Conventional Straddle**

Tester: **Jake Fahrenbruch**

Unit No: **43**

Interval: **5320.00 ft (KB) To 5346.00 ft (KB) (TVD)**

Total Depth: **5564.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Good**

Reference Elevations: **2543.00 ft (KB)**

2531.00 ft (CF)

KB to GR/CF: **12.00 ft**

Serial #: 8352

Inside

Press@RunDepth: **1328.54 psig @ 5321.00 ft (KB)**

Start Date: **2009.09.12**

End Date: **2009.09.13**

Start Time: **19:35:02**

End Time: **04:46:49**

Capacity: **7000.00 psig**

Last Calib.: **2009.09.13**

Time On Btm: **2009.09.12 @ 22:11:10**

Time Off Btm: **2009.09.13 @ 01:03:00**

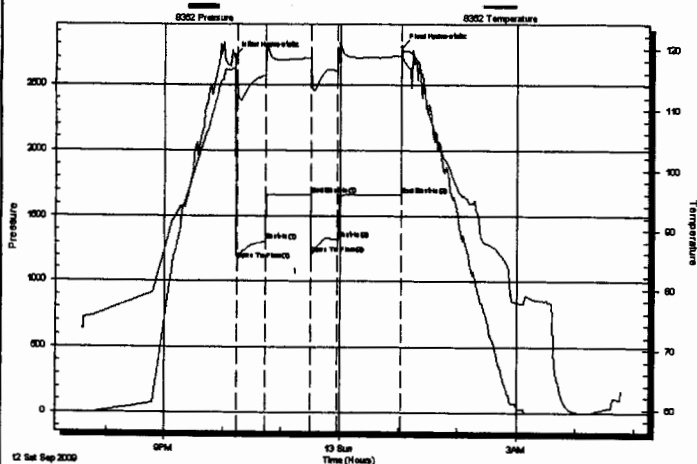
TEST COMMENT: IF: Very strong blow, BOB in 10 sec, GTS in 1 min 40 seconds.

IS: Bled off, no blow back.

FF: Flowing gas, Flared gas, Flow ed Oil @ 12 min into flow period.

FS: Bled off, weak surface blow back.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2710.79	116.68	Initial Hydro-static
3	1162.81	114.56	Open To Flow (1)
32	1311.87	115.72	Shut-In(1)
79	1663.87	118.52	End Shut-In(1)
79	1214.74	117.75	Open To Flow(2)
107	1328.54	116.48	Shut-In(2)
172	1661.85	118.91	End Shut-In(2)
172	2773.75	118.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Clean Oil 100%o	0.84
45.00	Water 100%w	0.63
0.00	38 corrected gravity	0.00
0.00	RW= .18ohm@61degF=47500ppmChl	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	210.00	3505.10
Last Gas Rate	1.00	220.00	6738.72
Max. Gas Rate	1.00	230.00	7026.21



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Vincent Oil Co.

Smith 1-7

155 N. Market STE700
Wichita Ks, 67202

7 29 22 Ford KS

Job Ticket: 36508

DST#: 2

ATTN: Ken LeBlanc

Test Start: 2009.09.12 @ 19:35:00

Tool Information

Drill Pipe:	Length: 5322.00 ft	Diameter: 3.80 inches	Volume: 74.65 bbl	Tool Weight:	5500.00 lb	
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb	
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	75000.00 lb	
			Total Volume:	74.65 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	65000.00 lb	
Depth to Top Packer:	5320.00 ft			Final	65000.00 lb	
Depth to Bottom Packer:	5346.00 ft					
Interval between Packers:	26.00 ft					
Tool Length:	272.00 ft					
Number of Packers:	3	Diameter:	6.75 inches			
Tool Comments:						

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			5297.00	
Hydraulic tool	5.00			5302.00	
Jars	5.00			5307.00	
Safety Joint	3.00			5310.00	
Packer	5.00			5315.00	28.00 Bottom Of Top Packer
Packer	5.00			5320.00	
Stubb	1.00			5321.00	
Recorder	0.00	8352	Inside	5321.00	
Perforations	22.00			5343.00	
Recorder	0.00	10270	Outside	5343.00	
Blank Off Sub	3.00			5346.00	26.00 Tool Interval
Packer	3.00			5349.00	
Perforations	18.00			5367.00	
Recorder	0.00	6799	Below	5367.00	
Blank Spacing	192.00			5559.00	
Bullnose	5.00			5564.00	218.00 Bottom Packers & Anchor
Total Tool Length:	272.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Co.

Smith 1-7

155 N. Market STE700
Wichita Ks, 67202

7 29 22 Ford KS

Job Ticket: 36508

DST#: 2

ATTN: Ken LeBlanc

Test Start: 2009.09.12 @ 19:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

47500 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 13.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Clean Oil 100%o	0.842
45.00	Water 100%w	0.631
0.00	38 corrected gravity	0.000
0.00	RW=.18ohm@61degF=47500ppmCl	0.000

Total Length: 105.00 ft

Total Volume: 1.473 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Vincent Oil Co.

Smith 1-7

155 N. Market STE700
Wichita Ks, 67202

7 29 22 Ford KS

Job Ticket: 36508

DST#: 2

ATTN: Ken LeBlanc

Test Start: 2009.09.12 @ 19:35:00

Gas Rates Information

Temperature: 59 deg C

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	5	0.75	210.00	3505.10
1	5	0.75	210.00	3505.10
1	10	1.00	165.00	5157.54
1	15	1.00	180.00	5588.77
1	20	1.00	185.00	5732.51
1	25	1.00	190.00	5876.26
1	30	1.00	190.00	5876.26
2	10	1.00	165.00	5157.54
2	15	1.00	190.00	5876.26
2	20	1.00	230.00	7026.21
2	30	1.00	220.00	6738.72

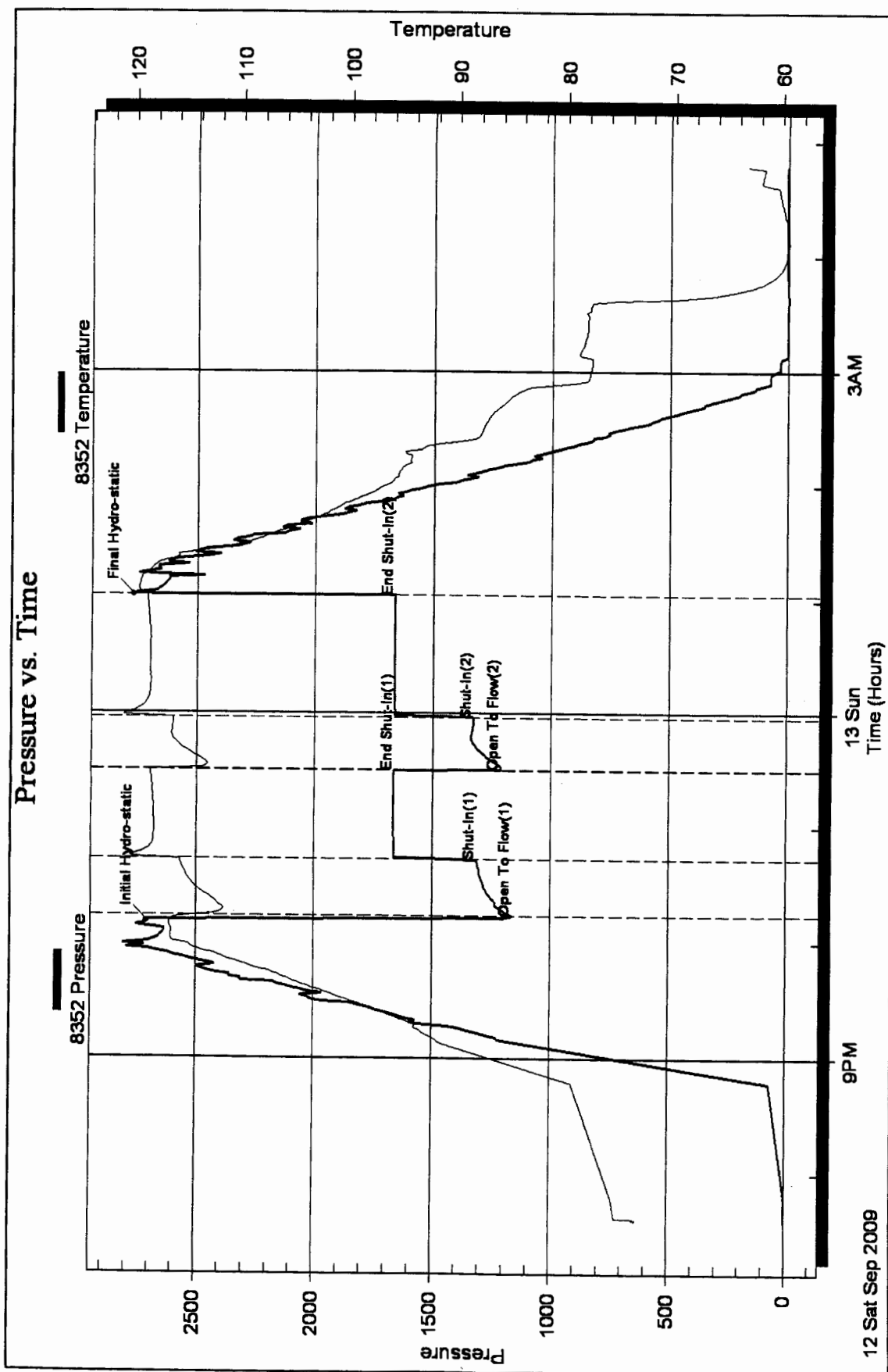
DST Test Number: 2

7 29 22 Ford KS

Inside Vincent Oil Co.

Serial #: 8352

Pressure vs. Time



Ref. No: 36508

Trilobite Testing, Inc

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