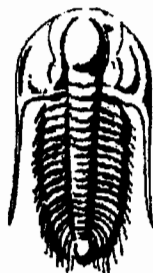


163

15-189-22588



TRILOBITE
TESTING, INC.

KCC
JUN 20 2007
CONFIDENTIAL

DRILL STEM TEST REPORT

Prepared For: **Devon Energy Production**

20 N Broadway
Oklahoma City OK 73102

ATTN: John Lindsey

11 34S38 Stevens KS

Rector 11-2

Start Date: 2007.05.15 @ 17:44:02

End Date: 2007.05.16 @ 17:24:52

Job Ticket #: 27343 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2007.05.21 @ 09:59:30 Page 1

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WICHITA, KS

Devon Energy Production

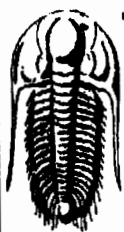
Rector 11-2

11 34S38 Stevens KS

DST # 1

Morrow

2007.05.15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Devon Energy Production

20 N Broadway
Oklahoma City OK 73102

ATTN: John Lindsey

Rector 11-2

11 34S38 Stevens KS

Job Ticket: 27343

DST#: 1

Test Start: 2007.05.15 @ 17:44:02

GENERAL INFORMATION:

Formation: **Morrow**

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

Time Tool Opened: 07:31:32

Time Test Ended: 17:24:52

Test Type: **Conventional Bottom Hole**

Tester: **Chris Hagman**

Unit No: **34**

Interval: **6250.00 ft (KB) To 6275.00 ft (KB) (TVD)**

Total Depth: **6275.00 ft (KB) (TVD)**

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

Reference Elevations: **3190.00 ft (KB)**

3180.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: 8288

Inside

Press@RunDepth: **839.76 psig @ 6252.00 ft (KB)**

Start Date: **2007.05.15**

End Date: **2007.05.16**

Start Time: **17:44:02**

End Time: **17:24:52**

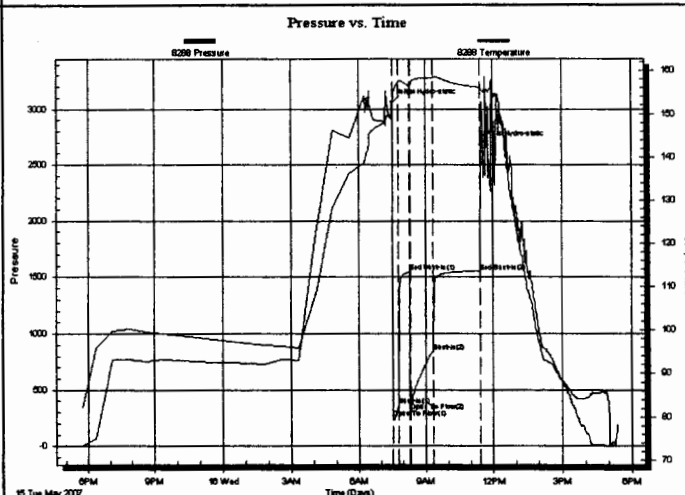
Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2007.05.16 @ 07:30:12**

Time Off Btm: **2007.05.16 @ 11:25:52**

TEST COMMENT: IF BOB 15 sec. strong dying blow
ISI Blow back immediately BOB 3 min. GTS 30 min.
FF BOB 10 sec. strong steady blow
FSI Blow back immediately BOB 1 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3059.59	149.75	Initial Hydro-static
2	250.89	152.50	Open To Flow (1)
17	357.48	157.20	Shut-In (1)
48	1545.19	156.36	End Shut-In (1)
48	387.81	155.85	Open To Flow (2)
109	839.76	158.35	Shut-In (2)
236	1548.84	156.13	End Shut-In (2)
236	2677.22	156.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1426.00	Gassy Water 5%G 95%W	17.51
310.00	Gassy Watery Muddy Oil 10%G 80%O	54.355%M

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	1.00	5.76
Last Gas Rate	0.13	4.00	6.89
Max. Gas Rate	0.13	4.00	6.89

Trilobite Testing, Inc

Ref. No: 27343

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CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Devon Energy Production

20 N Broadway
Oklahoma City OK 73102

ATTN: John Lindsey

Rector 11-2

11 34S38 Stevens KS

Job Ticket: 27343

DST#: 1

Test Start: 2007.05.15 @ 17:44:02

GENERAL INFORMATION:

Formation: **Morrow**

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

Time Tool Opened: 07:31:32

Time Test Ended: 17:24:52

Test Type: **Conventional Bottom Hole**

Tester: **Chris Hagman**

Unit No: **34**

Interval: **6250.00 ft (KB) To 6275.00 ft (KB) (TVD)**

Total Depth: **6275.00 ft (KB) (TVD)**

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

Reference Elevations: **3190.00 ft (KB)**

3180.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: 3307 **Inside**

Press@RunDepth: **1565.79 psig @ 6272.00 ft (KB)**

Start Date: **2007.05.15**

End Date:

2007.05.16

Start Time: **16:41:11**

End Time:

17:22:09

Capacity: **7000.00 psig**

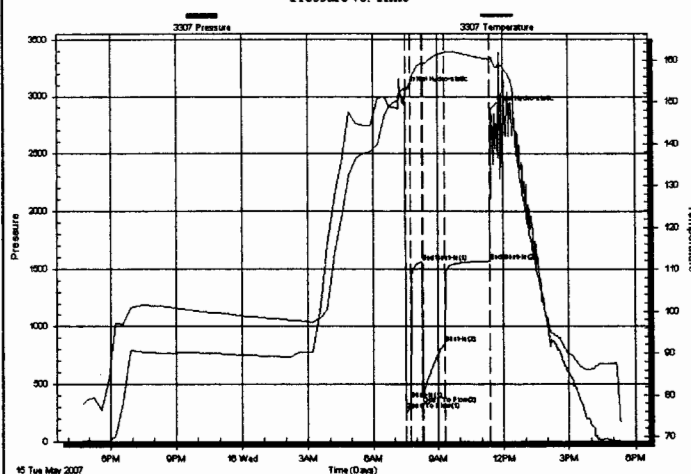
Last Calib.: **1899.12.30**

Time On Btm: **2007.05.16 @ 07:29:10**

Time Off Btm: **2007.05.16 @ 11:27:10**

TEST COMMENT: IF BOB 15 sec. strong dying blow
ISI Blow back immediately BOB 3 min. GTS 30 min.
FF BOB 10 sec. strong steady blow
FSI Blow back immediately BOB 1 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3057.96	153.29	Initial Hydro-static
2	275.03	153.02	Open To Flow (1)
17	367.52	154.99	Shut-In (1)
47	1555.94	159.15	End Shut-In (1)
49	403.69	159.19	Open To Flow (2)
110	853.18	161.73	Shut-In (2)
236	1565.79	160.17	End Shut-In (2)
238	2888.45	160.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1426.00	Gassy Water 5%G 95%W	17.51
310.00	Gassy Watery Muddy Oil 10%G 80%O 5%4.355%M	

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	1.00	5.76
Last Gas Rate	0.13	4.00	6.89
Max. Gas Rate	0.13	4.00	6.89

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WICHITA, KS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Devon Energy Production

Rector 11-2

20 N Broadway
Oklahoma City OK 73102

11 34S38 Stevens KS

Job Ticket: 27343

DST#: 1

ATTN: John Lindsey

Test Start: 2007.05.15 @ 17:44:02

Tool Information

Drill Pipe:	Length: 5978.00 ft	Diameter: 3.80 inches	Volume: 83.86 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: 20000.00 lb
Drill Collar:	Length: 274.00 ft	Diameter: 2.25 inches	Volume: 1.35 bbl	Weight to Pull Loose: 120000.0 lb
			Total Volume: 85.21 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	6250.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			6220.00	
Shut In Tool	5.00			6225.00	
Sampler	3.00			6228.00	
Hydraulic tool	5.00			6233.00	
Jars	5.00			6238.00	
Safety Joint	3.00			6241.00	
Packer	5.00			6246.00	31.00 Bottom Of Top Packer
Packer	4.00			6250.00	
Stubb	1.00			6251.00	
Perforations	1.00			6252.00	
Recorder	0.00	8288	Inside	6252.00	
Perforations	20.00			6272.00	
Recorder	0.00	3307	Inside	6272.00	
Bullnose	3.00			6275.00	25.00 Bottom Packers & Anchor

Total Tool Length: 56.00

Trilobite Testing, Inc

Ref. No: 27343

Printed: 2007.05.24 @ 09:02 AM
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JUN 22 2007

CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Devon Energy Production

Rector 11-2

20 N Broadway
Oklahoma City OK 73102

11 34S38 Stevens KS

Job Ticket: 27343

DST#: 1

ATTN: John Lindsey

Test Start: 2007.05.15 @ 17:44:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

36000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1426.00	Gassy Water 5%G 95%W	17.507
310.00	Gassy Watery Muddy Oil 10%G 80%O 5%W	4.348

Total Length: 1736.00 ft

Total Volume: 21.855 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: RW=.076@84=86,000ppm

API=41@80F=39api

JUN 22 2007



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Devon Energy Production

Rector 11-2

20 N Broadway
Oklahoma City OK 73102

11 34S38 Stevens KS

Job Ticket: 27343

DST#: 1

ATTN: John Lindsey

Test Start: 2007.05.15 @ 17:44:02

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)
2	10	0.13	1.00	5.76
2	10	0.13	1.00	5.76
2	20	0.13	1.00	5.76
2	30	0.13	2.00	6.14
2	40	0.13	3.00	6.51
2	50	0.13	4.00	6.89

JUN 22 2007

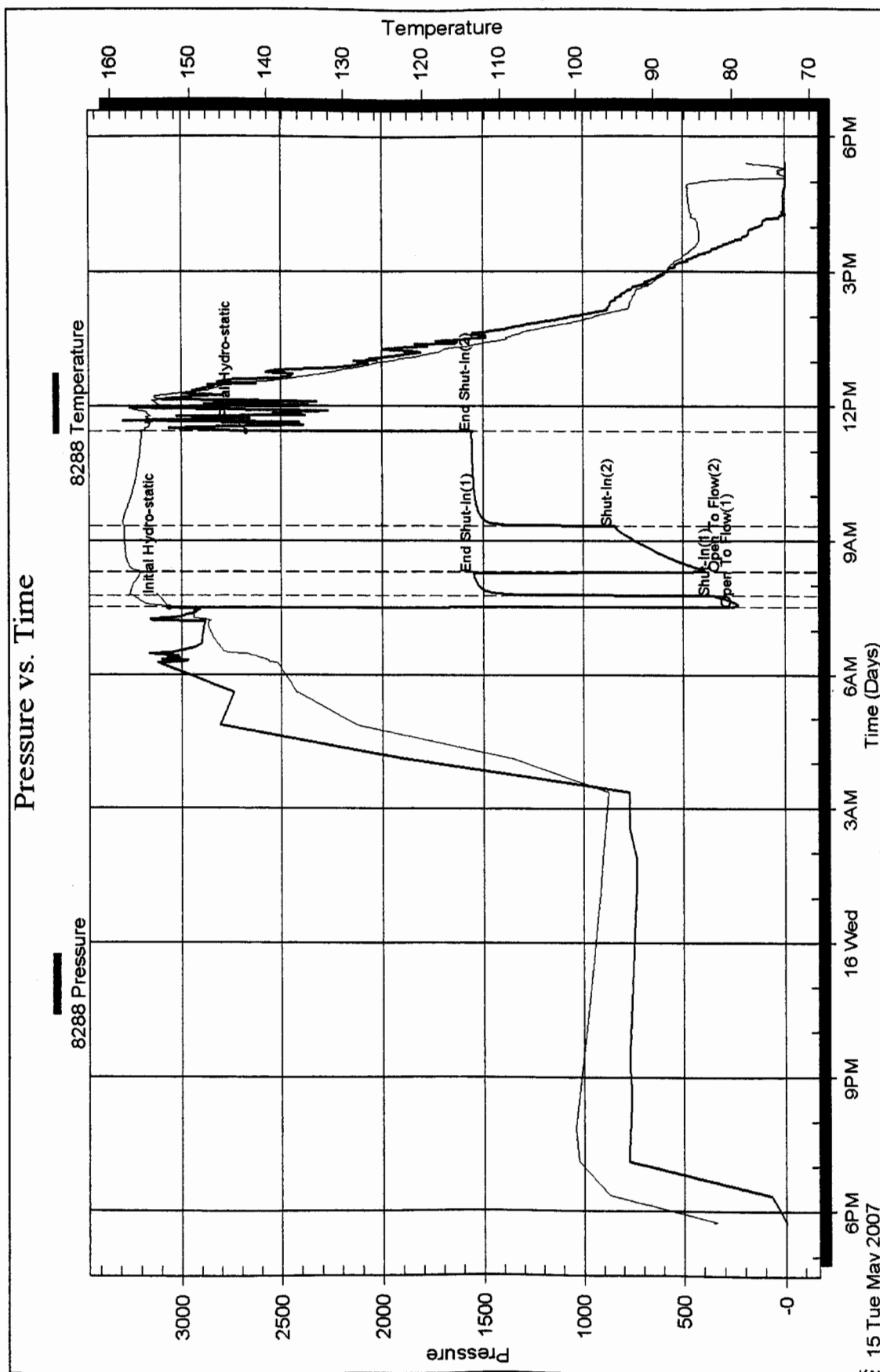
DST Test Number: 1

11 34S38 Stevens KS

Inside Devon Energy Production

Serial #: 8288

Pressure vs. Time



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WICHITA, KS

Ref. No: 27343

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DST Test Number: 1

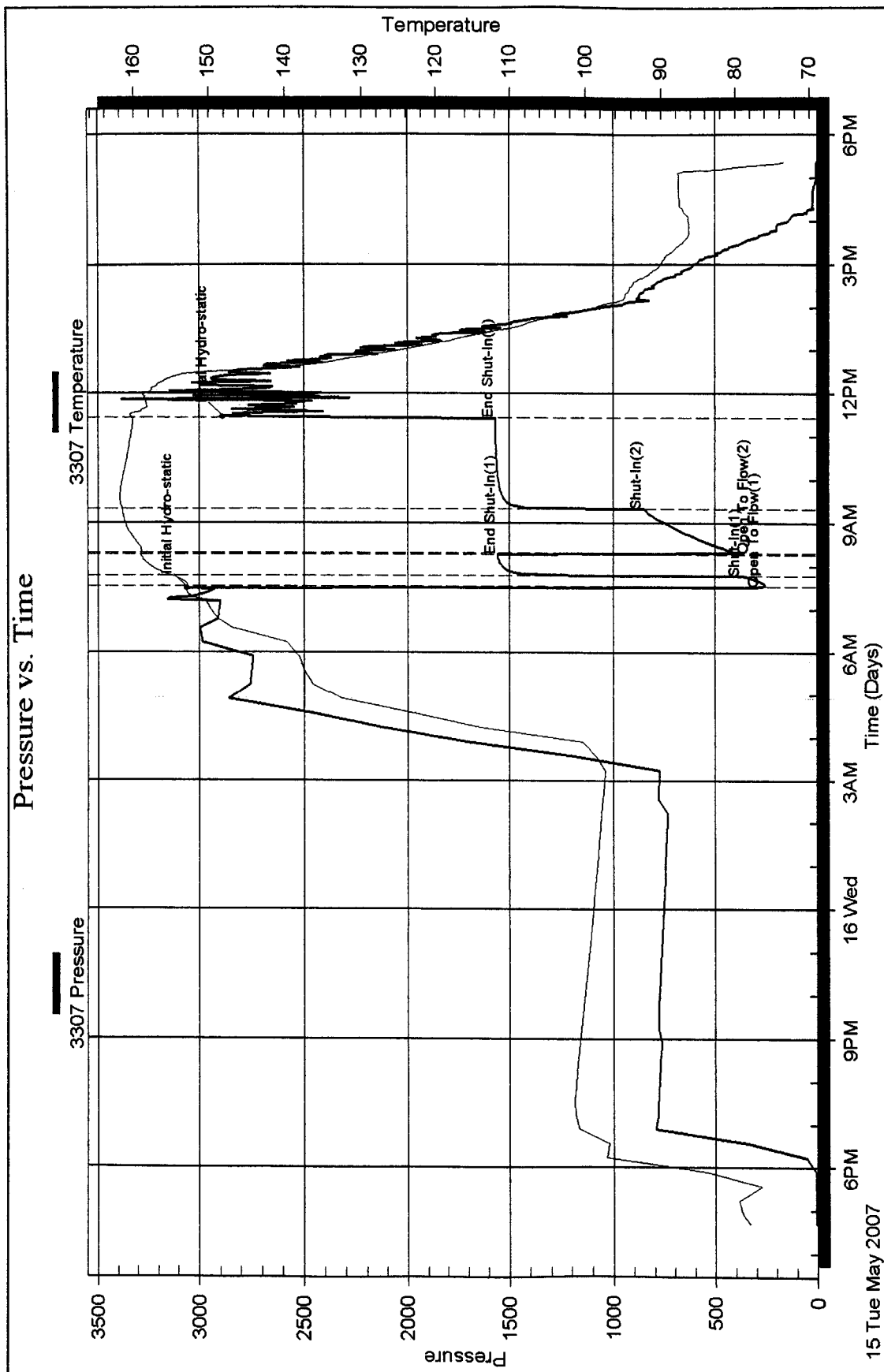
11 34538 Stevens KS

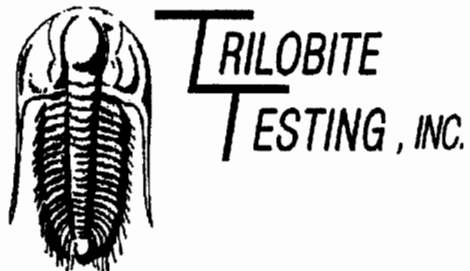
Devon Energy Production

Inside

Serial #: 3307

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Devon Energy Production**

20 N Broadway
Oklahoma City OK 73102

ATTN: John Lindsey

11 34S38 Stevens KS

Rector 11-2

Start Date: 2007.05.18 @ 02:31:13

End Date: 2007.05.18 @ 19:36:03

Job Ticket #: 27344 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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WICHITA, KS

Devon Energy Production

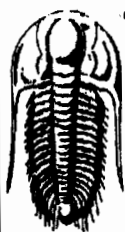
Rector 11-2

11 34S38 Stevens KS

DST # 2

St. Louis

2007.05.18



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Devon Energy Production

20 N Broadway
Oklahoma City OK 73102

ATTN: John Lindsey

Rector 11-2

11 34S38 Stevens KS

Job Ticket: 27344

DST#: 2

Test Start: 2007.05.18 @ 02:31:13

GENERAL INFORMATION:

Formation: **St. Louis**

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

Time Tool Opened: 08:22:43

Time Test Ended: 19:36:03

Test Type: **Conventional Bottom Hole**

Tester: **Chris Hagman**

Unit No: **34**

Interval: **6542.00 ft (KB) To 6564.00 ft (KB) (TVD)**

Total Depth: **6564.00 ft (KB) (TVD)**

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

Reference Elevations: **3190.00 ft (KB)**

3180.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: 8288

Inside

Press@RunDepth: **473.61 psig @ 6544.00 ft (KB)**

Start Date: **2007.05.18**

End Date:

2007.05.18

Start Time: **02:31:23**

End Time:

19:36:03

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2007.05.18 @ 08:21:13**

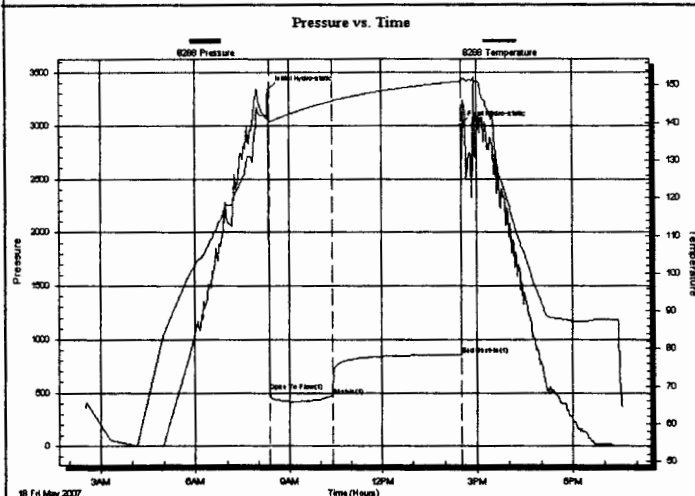
Time Off Btm: **2007.05.18 @ 14:31:12**

TEST COMMENT: IF BOB ASAO GTS 3 min. strong dying blow condensate 110 min.

ISI Blow back immediately BOB 10 min.

FF NA

FSI NA



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3337.37	141.39	Initial Hydro-static
2	512.48	140.21	Open To Flow (1)
123	473.61	145.72	Shut-In (1)
370	857.86	151.02	End Shut-In (1)
370	3003.60	152.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
806.00	Gassy Oil 40%G 60%O	8.81

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	50.00	1851.42
Last Gas Rate	1.00	34.00	1391.44
Max. Gas Rate	1.00	56.00	2023.92

Trilobite Testing, Inc

Ref. No: 27344

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WICHITA, KS



TRILOBITE
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DRILL STEM TEST REPORT

Devon Energy Production

20 N Broadway
Oklahoma City OK 73102

ATTN: John Lindsey

Rector 11-2

11 34S38 Stevens KS

Job Ticket: 27344

DST#: 2

Test Start: 2007.05.18 @ 02:31:13

GENERAL INFORMATION:

Formation: **St. Louis**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:22:43

Time Test Ended: 19:36:03

Interval: **6542.00 ft (KB) To 6564.00 ft (KB) (TVD)**

Total Depth: 6564.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Chris Hagman

Unit No: 34

Reference Elevations: 3190.00 ft (KB)

3180.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 3302 Inside

Press@RunDepth: 874.51 psig @ 6561.00 ft (KB)

Start Date: 2007.05.18 End Date: 2007.05.18

Start Time: 02:24:05 End Time: 19:30:59

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2007.05.18 @ 08:19:00

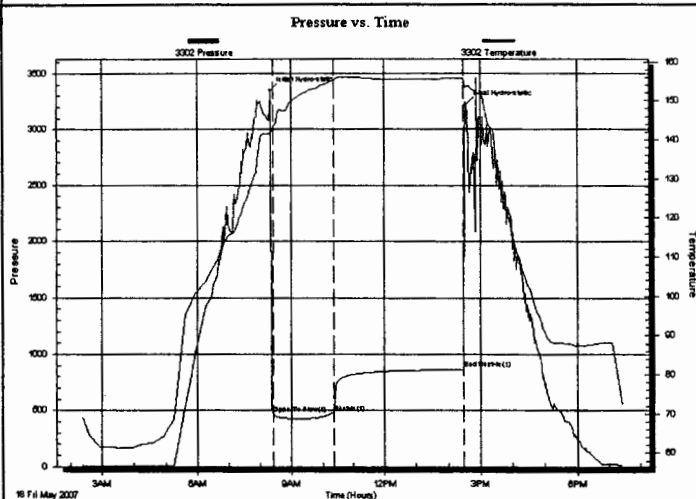
Time Off Btm: 2007.05.18 @ 14:34:00

TEST COMMENT: IF BOB ASAO GTS 3 min. strong dying blow condensate 110 min.

ISI Blow back imedeatley BOB 10 min.

FF NA

FSI NA



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3347.91	142.08	Initial Hydro-static
5	467.56	143.22	Open To Flow (1)
123	477.85	155.14	Shut-In(1)
371	874.51	155.71	End Shut-In(1)
375	3221.52	153.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
806.00	Gassy Oil 40%G 60%O	8.81

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	50.00	1851.42
Last Gas Rate	1.00	34.00	1391.44
Max. Gas Rate	1.00	56.00	2023.92

Trilobite Testing, Inc

Ref. No: 27344

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CONSERVATION DIVISION
WICHITA KS



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Devon Energy Production

Rector 11-2

20 N Broadway
Oklahoma City OK 73102

11 34S38 Stevens KS

Job Ticket: 27344

DST#: 2

ATTN: John Lindsey

Test Start: 2007.05.18 @ 02:31:13

Tool Information

Drill Pipe:	Length: 6257.00 ft	Diameter: 3.80 inches	Volume: 87.77 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: 20000.00 lb
Drill Collar:	Length: 274.00 ft	Diameter: 2.25 inches	Volume: 1.35 bbl	Weight to Pull Loose: 140000.0 lb
		Total Volume: 89.12 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	6542.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	53.00 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			6512.00	
Shut In Tool	5.00			6517.00	
Sampler	3.00			6520.00	
Hydraulic tool	5.00			6525.00	
Jars	5.00			6530.00	
Safety Joint	3.00			6533.00	
Packer	5.00			6538.00	31.00 Bottom Of Top Packer
Packer	4.00			6542.00	
Stubb	1.00			6543.00	
Perforations	1.00			6544.00	
Recorder	0.00	8288	Inside	6544.00	
Perforations	17.00			6561.00	
Recorder	0.00	3302	Inside	6561.00	
Bullnose	3.00			6564.00	22.00 Bottom Packers & Anchor

Total Tool Length: 53.00

Trilobite Testing, Inc

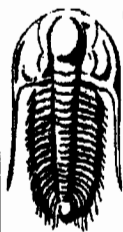
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CONSERVATION DIVISION
WICHITA, KS



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Devon Energy Production

Rector 11-2

20 N Broadway
Oklahoma City OK 73102

11 34S38 Stevens KS

Job Ticket: 27344

DST#: 2

ATTN: John Lindsey

Test Start: 2007.05.18 @ 02:31:13

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.80 in³

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
806.00	Gassy Oil 40%G 60%O	8.810

Total Length: 806.00 ft

Total Volume: 8.810 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: API=40@80=38

Sampler=13.1CF Gas @ 750 psi

JUN 22 2007



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Devon Energy Production

Rector 11-2

20 N Broadway
Oklahoma City OK 73102

11 34S38 Stevens KS

Job Ticket: 27344

DST#: 2

ATTN: John Lindsey

Test Start: 2007.05.18 @ 02:31:13

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 (m³/d)
1	10	1.00	50.00	1851.42
1	10	1.00	50.00	1851.42
1	20	1.00	56.00	2023.92
1	30	1.00	54.00	1966.42
1	50	1.00	48.00	1793.93
1	60	1.00	42.00	1621.43
1	70	1.00	38.00	1506.44
1	80	1.00	36.00	1448.94
1	90	1.00	34.00	1391.44
1	100	1.00	30.00	1276.45
1	110	1.00	32.00	1333.95
1	120	1.00	34.00	1391.44

JUN 22 2007

DST Test Number: 2

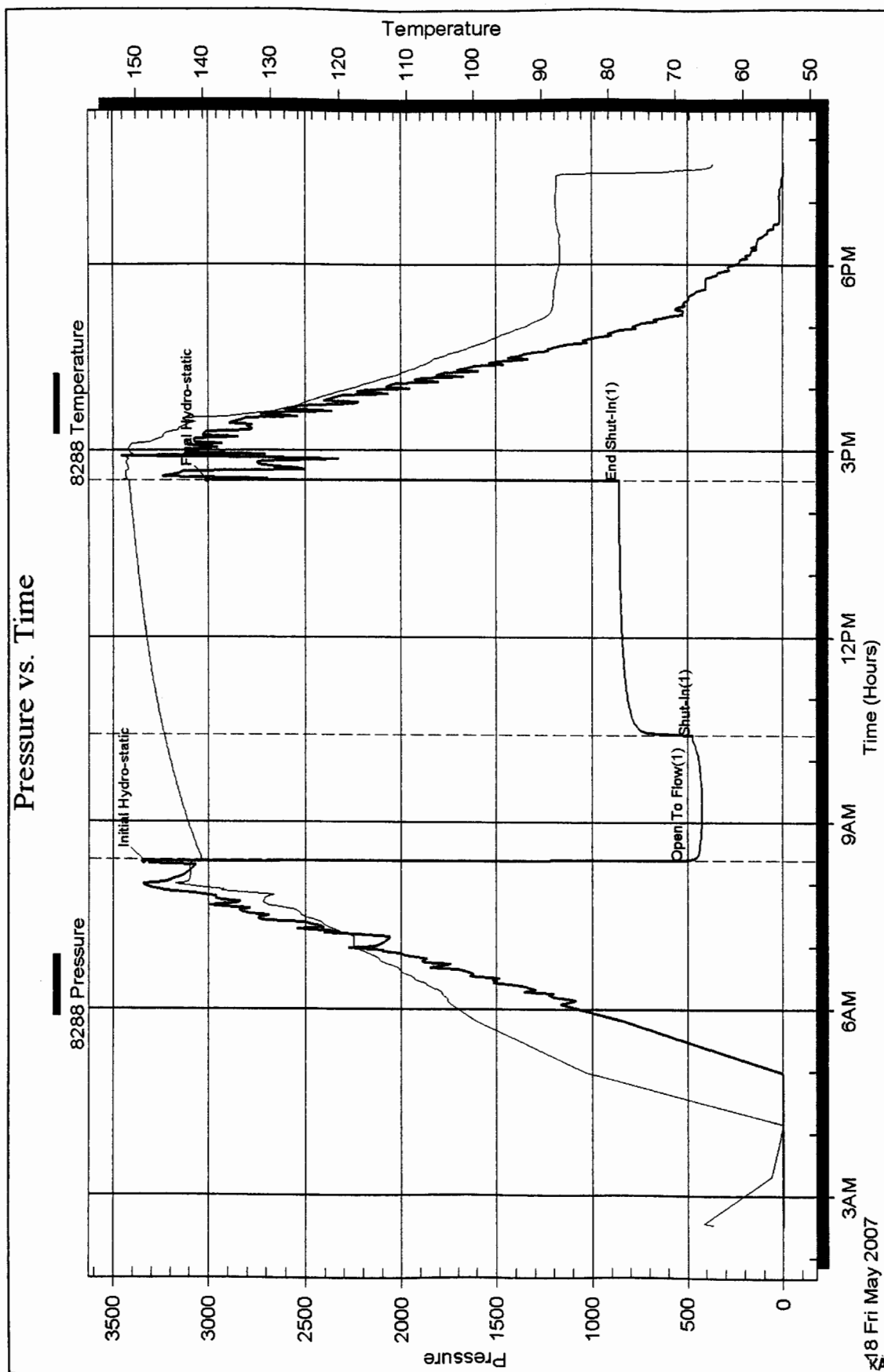
11 34S38 Stevens KS

Devon Energy Production

Inside

Serial #: 8288

Pressure vs. Time



Ref. No: 27344

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JUN 22 2007
CONSERVATION DIVISION
WICHITA, KS

DST Test Number: 2

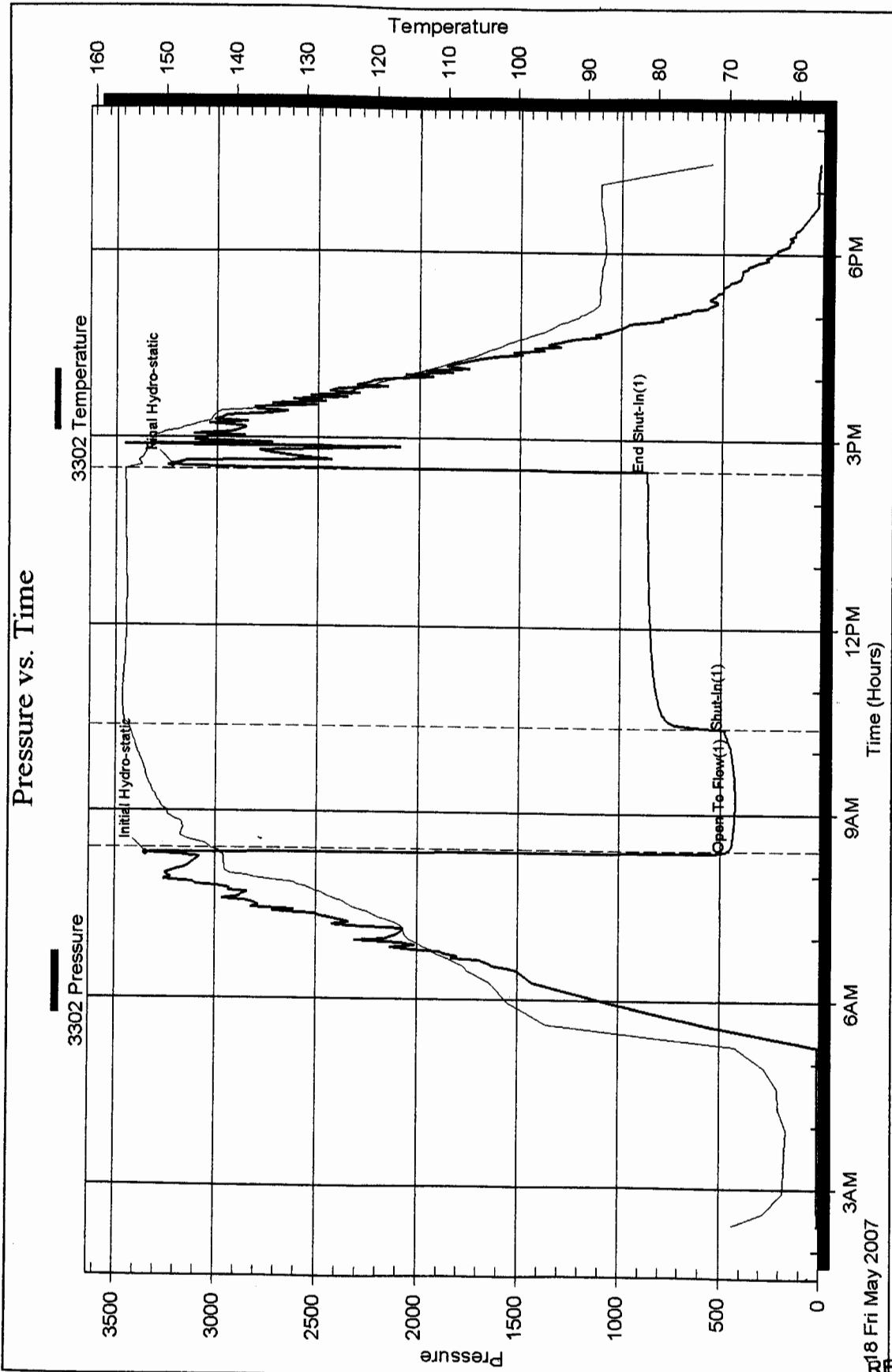
11 34S38 Stevens KS

Devon Energy Production

Inside

Serial #: 3302

Pressure vs. Time



18 Fri May 2007

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JUN 22 2007

CONSERVATION DIVISION
WICHITA, KS

Ref. No: 27344

Mobile Testing, Inc