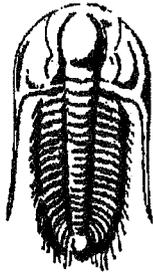


11-10s-19w

15-163-23836-00-00



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Landmark Res Inc**

1616 S Voss Rd  
Houston Tx 77057

ATTN: Jeffrey R Wood

**11-10-19 Rooks KS**

**Hammerschmidt 1-11**

Start Date: 2009.12.09 @ 19:00:36

End Date: 2009.12.10 @ 02:08:36

Job Ticket #: 36673                      DST #: 1

**KGS LIBRARY**

15-163-23836

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

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APR 22 2010

CONSERVATION DIVISION  
WICHITA, KS

Landmark Res Inc

Hammerschmidt 1-11

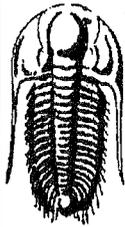
11-10-19 Rooks KS

DST # 1

Simpson

2009.12.09

11-10s-19w



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Landmark Res Inc

1616 S Voss Rd  
Houston Tx 77057

ATTN: Jeffrey R Wood

**Hammerschmidt 1-11**

**11-10-19 Rooks KS**

Job Ticket: 36673

**DST#: 1**

Test Start: 2009.12.09 @ 19:00:36

## GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:16:36

Time Test Ended: 02:08:36

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **3560.00 ft (KB) To 3594.00 ft (KB) (TVD)**

Total Depth: 3594.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2100.00 ft (KB)

2095.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8354 Inside**

Press@RunDepth: 16.14 psig @ 3561.00 ft (KB)

Start Date: 2009.12.09

End Date: 2009.12.10

Capacity: 8000.00 psig

Last Calib.: 2009.12.10

Start Time: 19:00:37

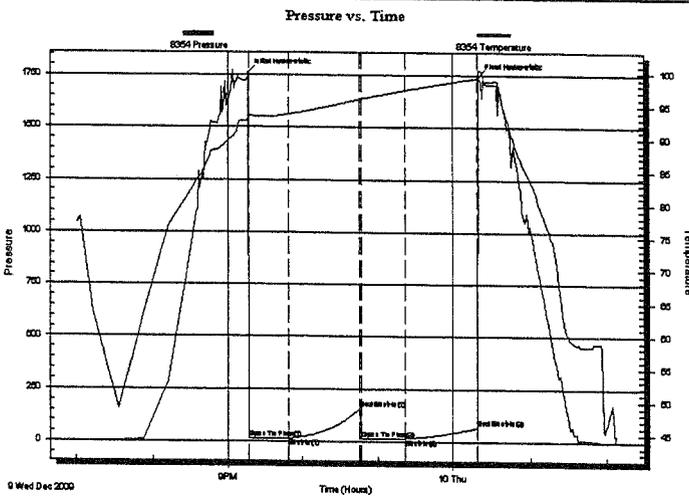
End Time: 02:08:36

Time On Btm: 2009.12.09 @ 21:16:06

Time Off Btm: 2009.12.10 @ 00:19:36

**TEST COMMENT:** IF-Weak 1/4" blow decreasing to surface blow

FF-Weak died in 25 min



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1757.57	93.74	Initial Hydro-static
1	12.92	93.00	Open To Flow (1)
33	14.52	93.68	Shut-In(1)
90	155.83	95.96	End Shut-In(1)
91	14.83	96.00	Open To Flow (2)
126	16.14	97.32	Shut-In(2)
183	68.77	99.17	End Shut-In(2)
184	1743.06	100.43	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	DM	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Landmark Res Inc

**Hammerschmidt 1-11**

1616 S Voss Rd  
Houston Tx 77057

**11-10-19 Rooks KS**

Job Ticket: 36673

**DST#: 1**

ATTN: Jeffrey R Wood

Test Start: 2009.12.09 @ 19:00:36

### Tool Information

Drill Pipe: Length: 3518.00 ft Diameter: 3.80 inches Volume: 49.35 bbl  
 Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl  
 Drill Collar: Length: 30.00 ft Diameter: 2.25 inches Volume: 0.15 bbl  
 Total Volume: 49.50 bbl

Drill Pipe Above KB: 11.00 ft  
 Depth to Top Packer: 3560.00 ft  
 Depth to Bottom Packer: ft  
 Interval between Packers: 34.00 ft  
 Tool Length: 57.00 ft  
 Number of Packers: 2 Diameter: 6.75 inches

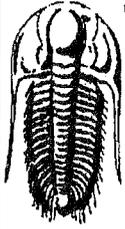
Tool Weight: 2500.00 lb  
 Weight set on Packer: 25000.00 lb  
 Weight to Pull Loose: 65000.00 lb  
 Tool Chased 0.00 ft  
 String Weight: Initial 52000.00 lb  
 Final 52000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3538.00	
Shut In Tool	5.00			3543.00	
Hydraulic tool	5.00			3548.00	
Safety Joint	3.00			3551.00	
Packer	5.00			3556.00	23.00 Bottom Of Top Packer
Packer	4.00			3560.00	
Stubb	1.00			3561.00	
Recorder	0.00	8354	Inside	3561.00	
Recorder	0.00	8520	Outside	3561.00	
Perforations	30.00			3591.00	
Bullnose	3.00			3594.00	34.00 Bottom Packers & Anchor

**Total Tool Length: 57.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Landmark Res Inc

**Hammerschmidt 1-11**

1616 S Voss Rd  
Houston Tx 77057

**11-10-19 Rooks KS**

ATTN: Jeffrey R Wood

Job Ticket: 36673

**DST#: 1**

Test Start: 2009.12.09 @ 19:00:36

**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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3200.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
5.00	DM	0.025

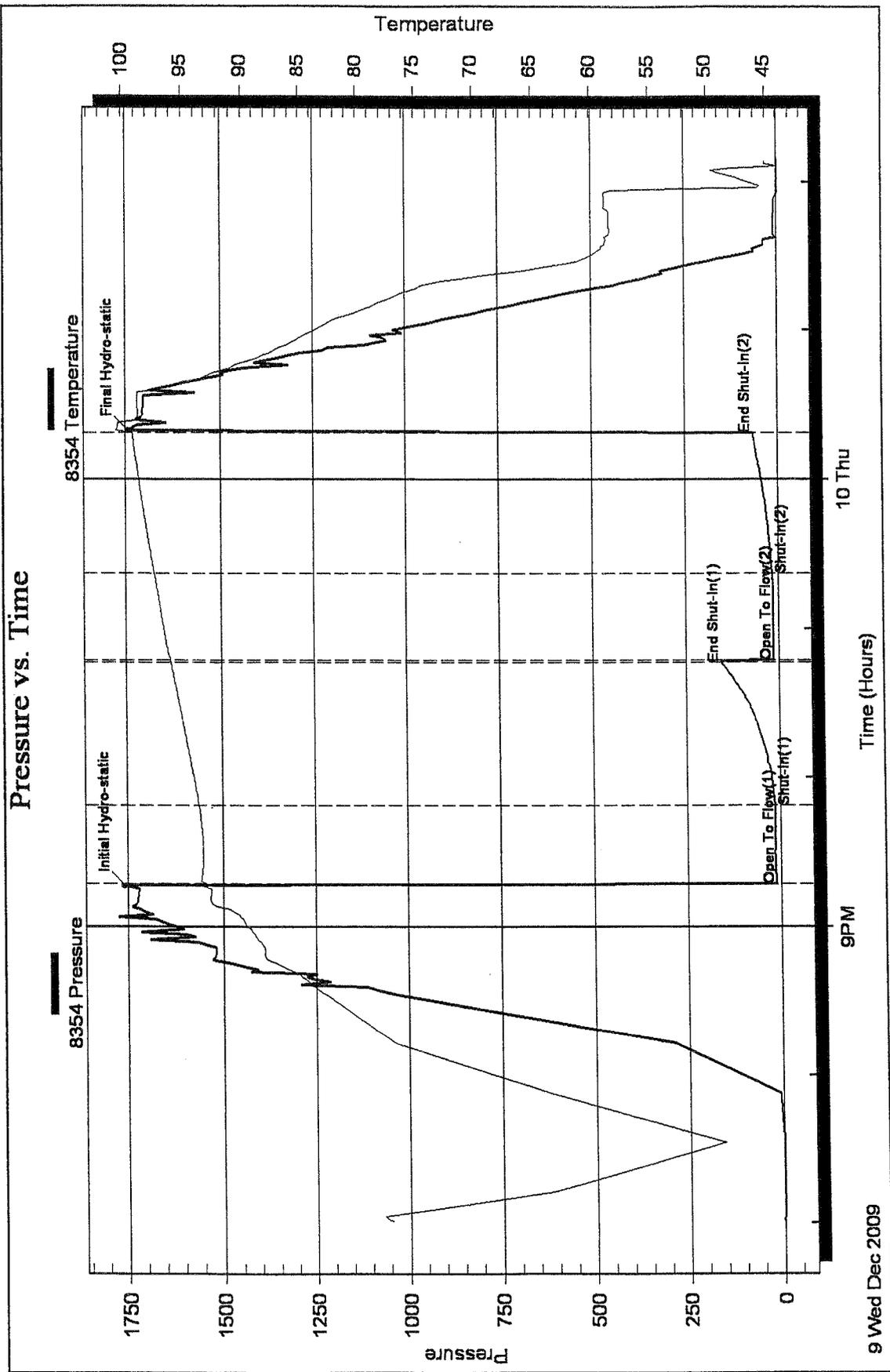
Total Length: 5.00 ft      Total Volume: 0.025 bbl

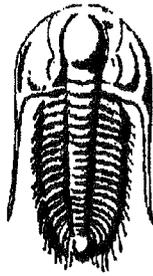
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

# Pressure vs. Time





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Landmark Res Inc**

1616 S Voss Rd  
Houston Tx 77057

ATTN: Jeffrey R Wood

**11-10-19 Rooks KS**

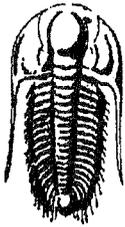
**Hammerschmidt 1-11**

Start Date: 2009.12.10 @ 09:35:46

End Date: 2009.12.10 @ 16:55:46

Job Ticket #: 36674                      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

Landmark Res Inc

1616 S Voss Rd  
Houston Tx 77057

ATTN: Jeffrey R Wood

**Hammerschmidt 1-11**

**11-10-19 Rooks KS**

Job Ticket: 36674

DST#: 2

Test Start: 2009.12.10 @ 09:35:46

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:15:16  
 Time Test Ended: 16:55:46

Test Type: Conventional Bottom Hole  
 Tester: Dan Bangle  
 Unit No: 38

Interval: **3558.00 ft (KB) To 3606.00 ft (KB) (TVD)**  
 Total Depth: 3606.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2100.00 ft (KB)  
 2095.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8354**

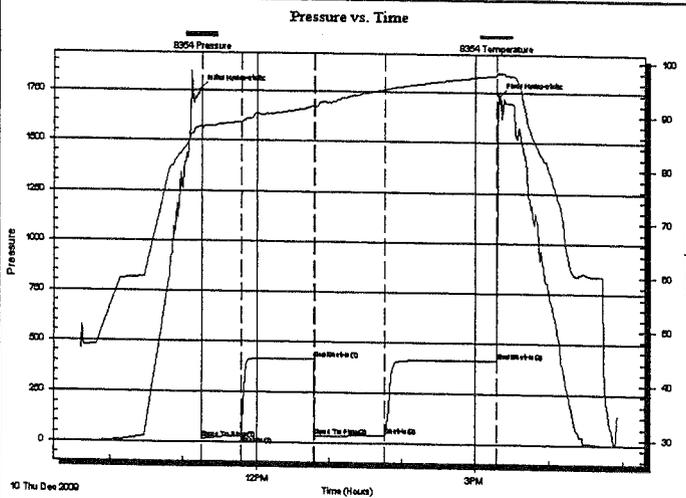
Inside

Press@RunDepth: 41.46 psig @ 3561.00 ft (KB)  
 Start Date: 2009.12.10 End Date: 2009.12.10  
 Start Time: 09:35:47 End Time: 16:55:46

Capacity: 8000.00 psig  
 Last Calib.: 2009.12.10  
 Time On Btm: 2009.12.10 @ 11:13:46  
 Time Off Btm: 2009.12.10 @ 15:19:16

TEST COMMENT: IF-Weak building to 1"

FF-Weak steady surface blow



## PRESSURE SUMMARY

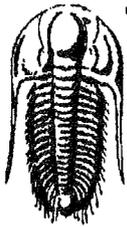
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1755.70	87.65	Initial Hydro-static
2	13.67	86.84	Open To Flow (1)
33	32.22	88.61	Shut-In(1)
93	413.49	91.61	End Shut-In(1)
94	32.92	91.49	Open To Flow (2)
153	41.46	94.80	Shut-In(2)
244	413.16	97.60	End Shut-In(2)
246	1732.44	98.06	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud w/ show of heavy oil on top	0.57

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Landmark Res Inc

**Hammerschmidt 1-11**

1616 S Voss Rd  
Houston Tx 77057

**11-10-19 Rooks KS**

Job Ticket: 36674

**DST#: 2**

ATTN: Jeffrey R Wood

Test Start: 2009.12.10 @ 09:35:46

### Tool Information

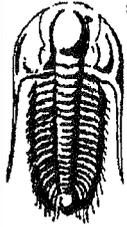
Drill Pipe:	Length: 3518.00 ft	Diameter: 3.80 inches	Volume: 49.35 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 49.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3558.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 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			3536.00	
Shut In Tool	5.00			3541.00	
Hydraulic tool	5.00			3546.00	
Safety Joint	3.00			3549.00	
Packer	5.00			3554.00	23.00 Bottom Of Top Packer
Packer	4.00			3558.00	
Stubb	1.00			3559.00	
Perforations	1.00			3560.00	
Change Over Sub	1.00			3561.00	
Recorder	0.00	8354	Inside	3561.00	
Recorder	0.00	8520	Outside	3561.00	
Drill Pipe	31.00			3592.00	
Change Over Sub	1.00			3593.00	
Perforations	10.00			3603.00	
Bullnose	3.00			3606.00	48.00 Bottom Packers & Anchor

**Total Tool Length: 71.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Landmark Res Inc

**Hammerschmidt 1-11**

1616 S Voss Rd  
Houston Tx 77057

**11-10-19 Rooks KS**

Job Ticket: 36674

**DST#: 2**

ATTN: Jeffrey R Wood

Test Start: 2009.12.10 @ 09:35:46

## 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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	Mud w/ show of heavy oil on top	0.568

Total Length: 60.00 ft

Total Volume: 0.568 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

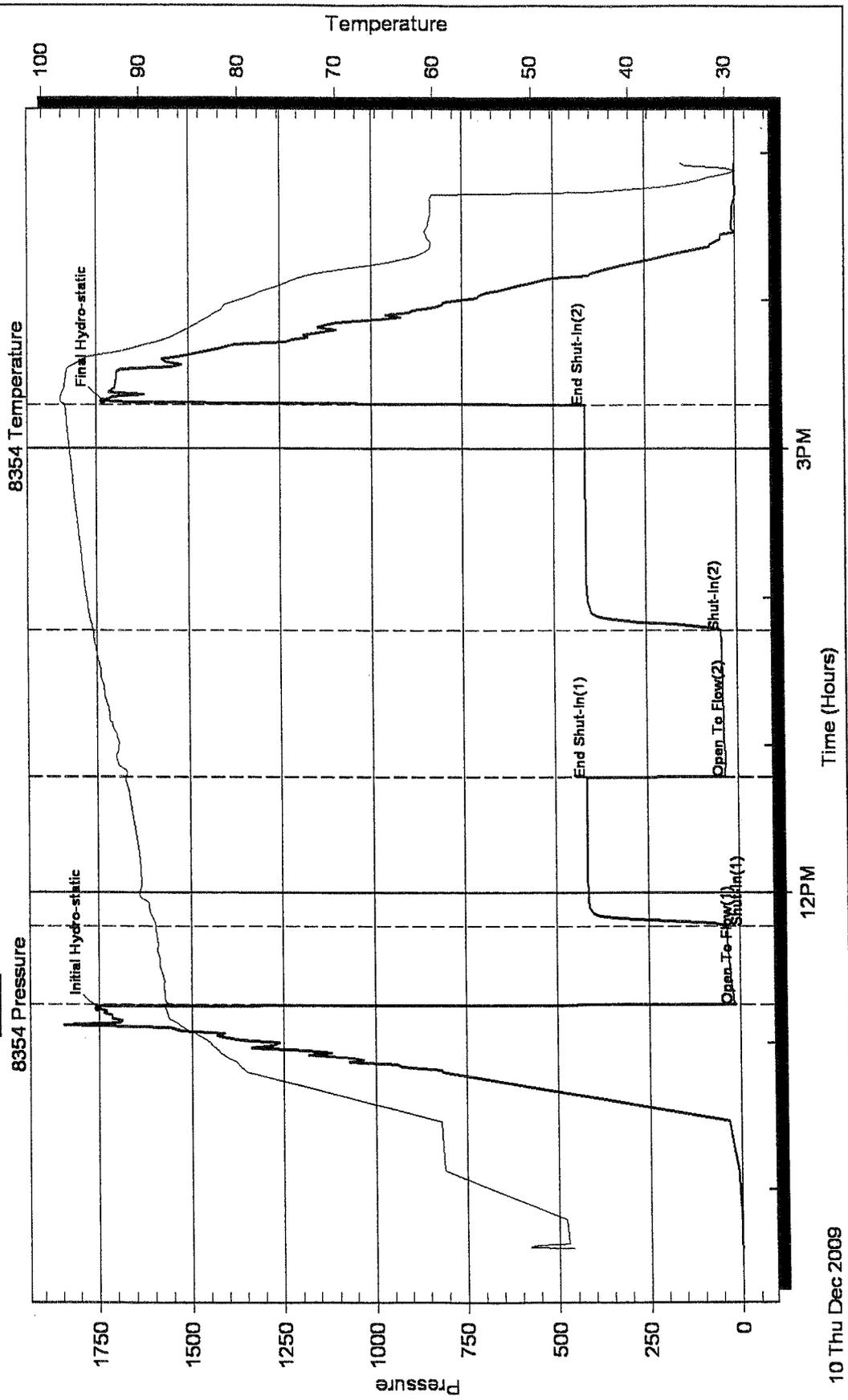
Serial #:

Laboratory Name:

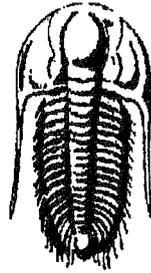
Laboratory Location:

Recovery Comments:

### Pressure vs. Time



10 Thu Dec 2009



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Landmark Res Inc**

1616 S Voss Rd  
Houston Tx 77057

ATTN: Jeffrey R Wood

**11-10-19 Rooks KS**

**Hammerschmidt 1-11**

Start Date: 2009.12.10 @ 23:00:57

End Date: 2009.12.11 @ 02:50:27

Job Ticket #: 36675                      DST #: 3

Trilobite Testing, Inc  
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ph: 785-625-4778 fax: 785-625-5620

Landmark Res Inc

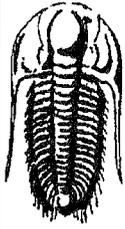
Hammerschmidt 1-11

11-10-19 Rooks KS

DST # 3

Arbuckle

2009.12.10



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Landmark Res Inc  
1616 S Voss Rd  
Houston Tx 77057

ATTN: Jeffrey R Wood

**Hammerschmidt 1-11**

**11-10-19 Rooks KS**

Job Ticket: 36675

DST#: 3

Test Start: 2009.12.10 @ 23:00:57

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 00:55:00  
Time Test Ended: 02:50:27

Test Type: Conventional Bottom Hole  
Tester: Dan Bangle  
Unit No: 38

Interval: **3603.00 ft (KB) To 3612.00 ft (KB) (TVD)**  
Total Depth: 3612.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2100.00 ft (KB)  
2095.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8354**

Inside

Press@RunDepth: psig @ 3604.00 ft (KB)

Start Date: 2009.12.10

End Date:

2009.12.11

Capacity: 8000.00 psig

Start Time: 23:00:58

End Time:

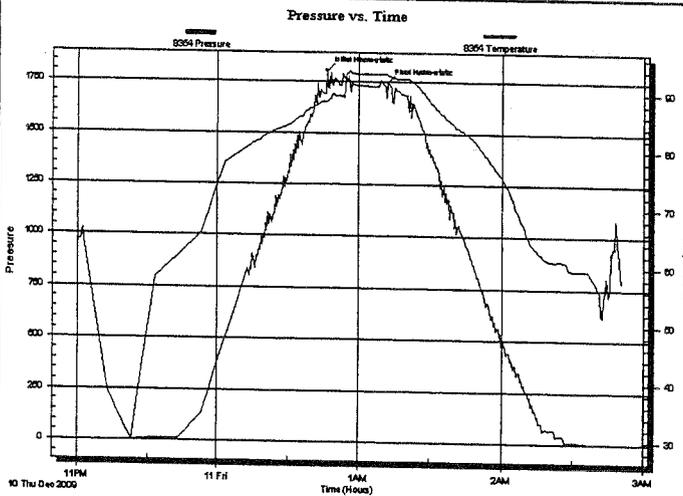
02:50:27

Last Calib.: 2009.12.11

Time On Btm: 2009.12.11 @ 00:46:27

Time Off Btm: 2009.12.11 @ 01:11:57

TEST COMMENT: Packer Failure



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1802.68	88.44	Initial Hydro-static
26	1745.52	93.07	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	DM	0.99

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Landmark Res Inc

**Hammerschmidt 1-11**

1616 S Voss Rd  
Houston Tx 77057

**11-10-19 Rooks KS**

Job Ticket: 36675

**DST#: 3**

ATTN: Jeffrey R Wood

Test Start: 2009.12.10 @ 23:00:57

**Tool Information**

Drill Pipe:	Length: 3580.00 ft	Diameter: 3.80 inches	Volume: 50.22 bbl	Tool Weight: 2500.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume: 50.37 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3603.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	32.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

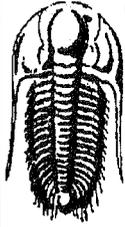
Tool Comments:

**Tool Description**

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3581.00	
Shut In Tool	5.00			3586.00	
Hydraulic tool	5.00			3591.00	
Safety Joint	3.00			3594.00	
Packer	5.00			3599.00	23.00 Bottom Of Top Packer
Packer	4.00			3603.00	
Stubb	1.00			3604.00	
Recorder	0.00	8354	Inside	3604.00	
Recorder	0.00	8520	Outside	3604.00	
Perforations	5.00			3609.00	
Bullnose	3.00			3612.00	9.00 Bottom Packers & Anchor

**Total Tool Length: 32.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Landmark Res Inc

**Hammerschmidt 1-11**

1616 S Voss Rd  
Houston Tx 77057

**11-10-19 Rooks KS**

Job Ticket: 36675

DST#: 3

ATTN: Jeffrey R Wood

Test Start: 2009.12.10 @ 23:00:57

**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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbbl
90.00	DM	0.989

Total Length: 90.00 ft

Total Volume: 0.989 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

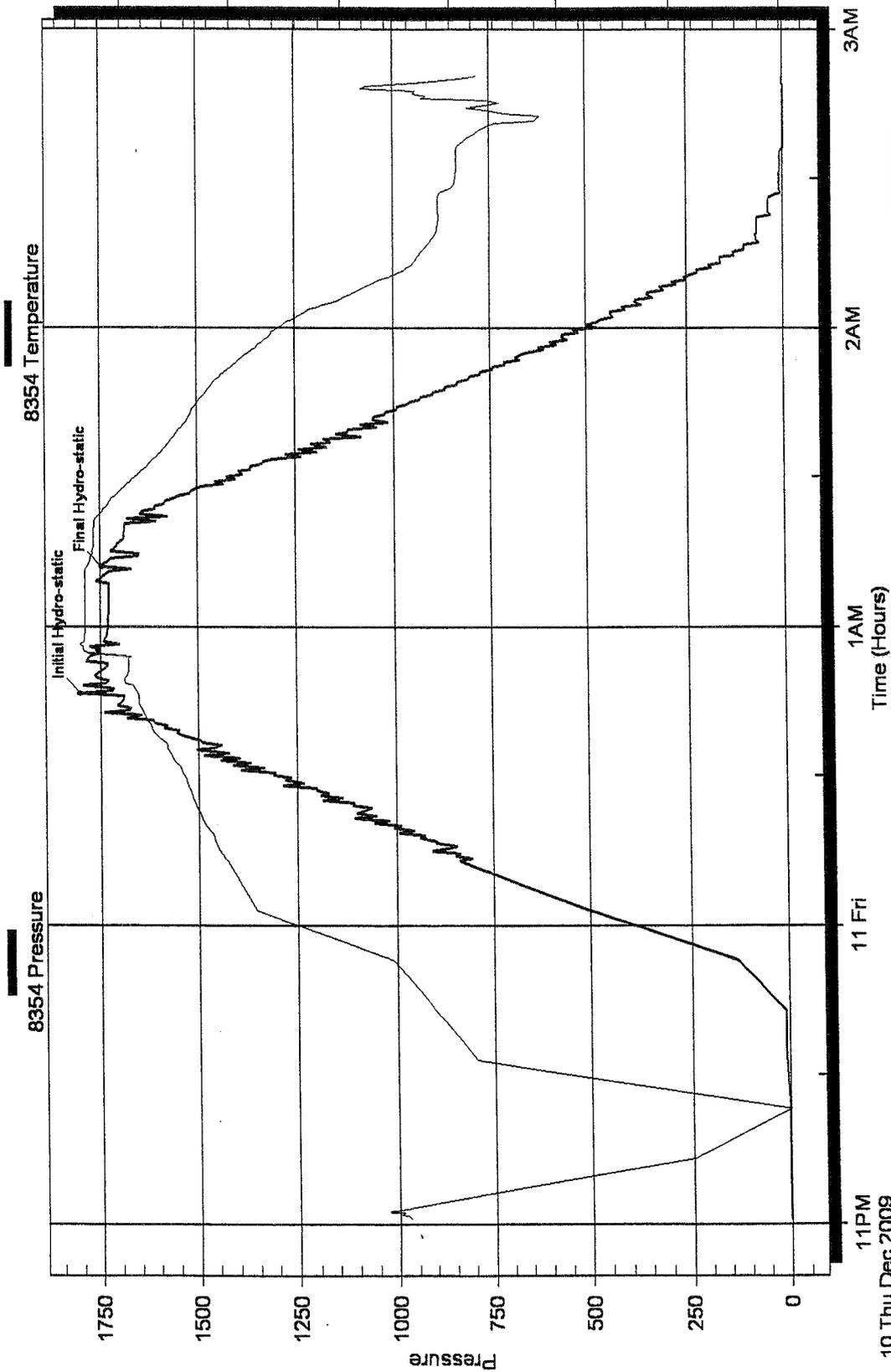
Serial #:

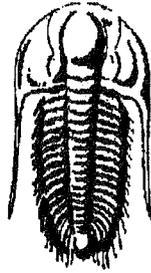
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Landmark Res Inc**

1616 S Voss Rd  
Houston Tx 77057

ATTN: Jeffrey R Wood

**11-10-19 Rooks KS**

**Hammerschmidt 1-11**

Start Date: 2009.12.11 @ 03:05:19

End Date: 2009.12.11 @ 09:56:49

Job Ticket #: 36826                      DST #: 4

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PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Landmark Res Inc

Hammerschmidt 1-11

11-10-19 Rooks KS

DST # 4

Arbuckle

2009.12.11





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Landmark Res Inc

**Hammerschmidt 1-11**

1616 S Voss Rd  
Houston Tx 77057

**11-10-19 Rooks KS**

Job Ticket: 36826

**DST#: 4**

ATTN: Jeffrey R Wood

Test Start: 2009.12.11 @ 03:05:19

### Tool Information

Drill Pipe:	Length: 3518.00 ft	Diameter: 3.80 inches	Volume: 49.35 bbl	Tool Weight: 2500.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<b>Total Volume: 49.50 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3554.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	81.00 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			3532.00	
Shut In Tool	5.00			3537.00	
Hydraulic tool	5.00			3542.00	
Safety Joint	3.00			3545.00	
Packer	5.00			3550.00	23.00 Bottom Of Top Packer
Packer	4.00			3554.00	
Stubb	1.00			3555.00	
Perforations	1.00			3556.00	
Change Over Sub	1.00			3557.00	
Recorder	0.00	8354	Inside	3557.00	
Recorder	0.00	8520	Outside	3557.00	
Drill Pipe	31.00			3588.00	
Change Over Sub	1.00			3589.00	
Perforations	20.00			3609.00	
Bullnose	3.00			3612.00	58.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>81.00</b>				



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Landmark Res Inc

**Hammerschmidt 1-11**

1616 S Voss Rd  
Houston Tx 77057

**11-10-19 Rooks KS**

ATTN: Jeffrey R Wood

Job Ticket: 36826

DST#: 4

Test Start: 2009.12.11 @ 03:05:19

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 7.98 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 30000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
372.00	Mdy Wtr 80%w 20%m	4.945
248.00	SiltyHOCM 5%o 95%m	3.479
248.00	HOCM 20%o 80%m	3.479
0.00	Rw .09 @ 80 = 30000ppm	0.000

Total Length: 868.00 ft      Total Volume: 11.903 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

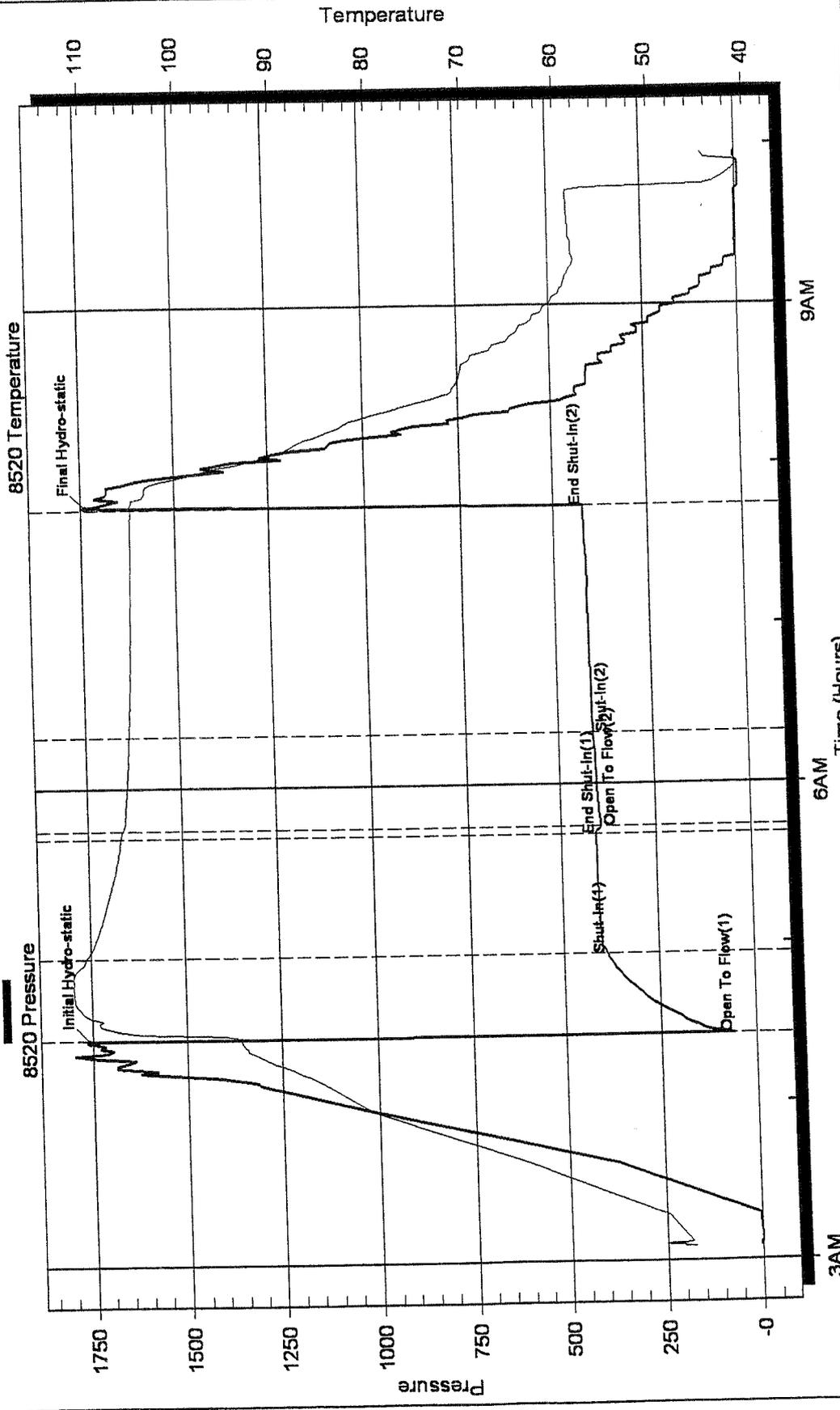
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



11 Fri Dec 2009

3 AM

6 AM

9 AM

SRU Job Information

13842

Company: Ladmark Resources

Address: \_\_\_\_\_

Polymer Comp: PSJ

Well Name & No: Hammerschmidt 1-11

Location: 11-10-19W

Start Date: \_\_\_\_\_ Time: \_\_\_\_\_ End Date: \_\_\_\_\_

Comments: \_\_\_\_\_

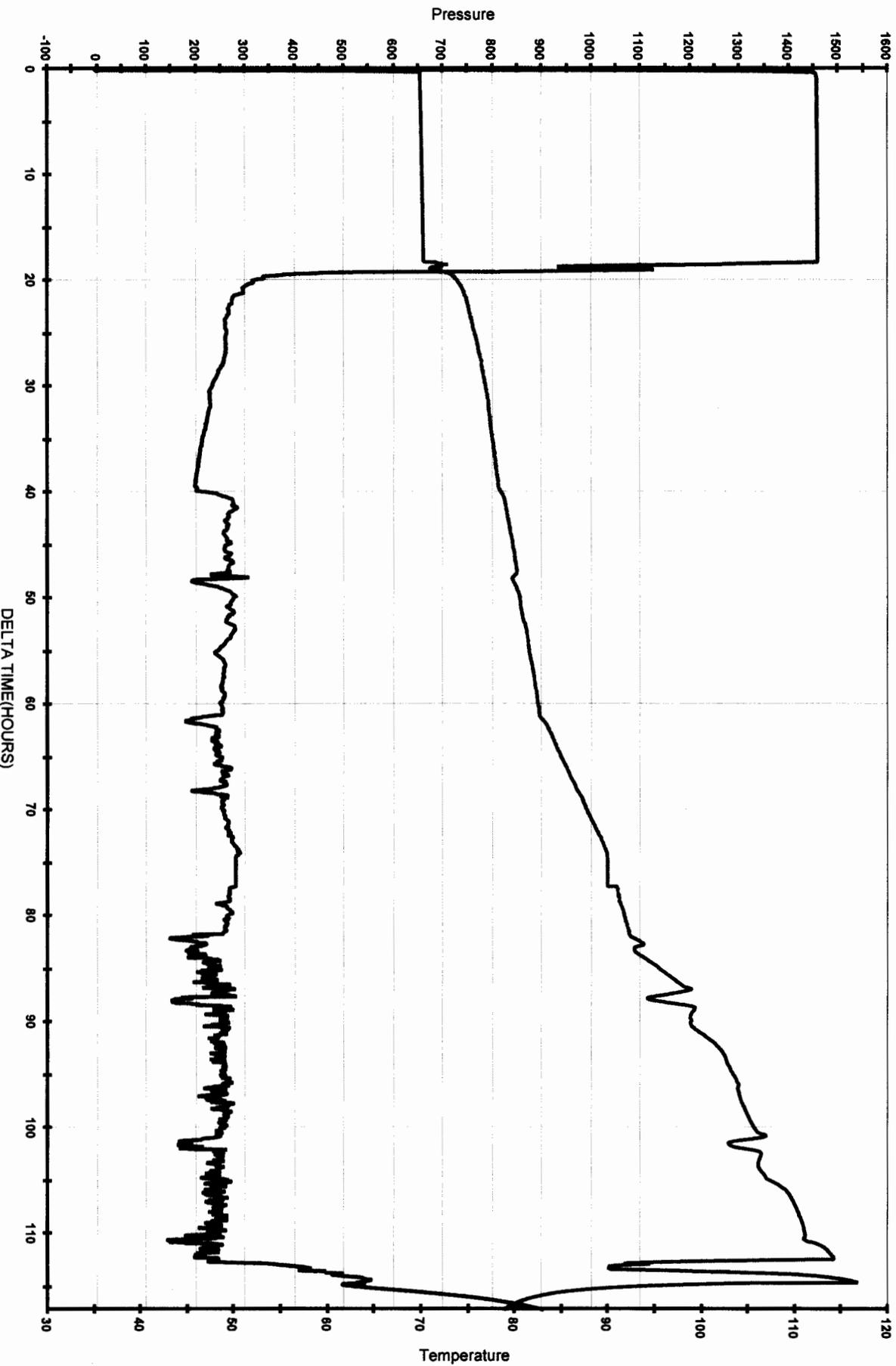
OK 3580  
#ool @ 3610

Date	Miles	Reason
<u>11/13/10</u>	<u>32 x 2</u>	<u>in</u> ✓
<u>11/20</u>	<u>32 x 2</u>	<u>out</u> ✓

Trilobite Rep: JB in / PS out 4 days

PRESSURE AND TEMPERATURE VS DELTA TIME

Company: Landmark Resources  
Location: Landmark Hammerschmidt 1-11 PSI  
Date: January 13, 2010 - January 18, 2010  
Serial# 106  
Max. Pressure: 1540.203 Max. Temperature: 112.548



106 - SRO - W1153 (PSIG) 106 - SRO - W1153 (F)