

DRILL STEM TEST REPORT

Prepared For: **Harry A Spring**

Box 1788
Ardmore OK 73402

ATTN: Mike Davignon

12 11S 20W Ellis KS

Keller B #1

Start Date: 2007.01.09 @ 19:49:47

End Date: 2007.01.10 @ 04:05:41

Job Ticket #: 25265 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Harry A Spring
Box 1788
Ardmore OK 73402
ATTN: Mke Davignon

Keller B #1
12 11S 20W Ellis KS
Job Ticket: 25265 DST#: 1
Test Start: 2007.01.09 @ 19:49:47

GENERAL INFORMATION:

Formation: **LKC "C"**
Deviated: **No Whipstock: ft (KB)**
Time Tool Opened: **22:15:12**
Time Test Ended: **04:05:41**
Test Type: **Conventional Bottom Hole**
Tester: **Ray Schwager**
Unit No: **28**
Interval: **3435.00 ft (KB) To 3460.00 ft (KB) (TVD)**
Reference Elevations: **2142.00 ft (KB)**
Total Depth: **3460.00 ft (KB) (TVD)**
2137.00 ft (CF)
Hole Diameter: **7.85 inches** Hole Condition: **Fair**
KB to GR/CF: **5.00 ft**

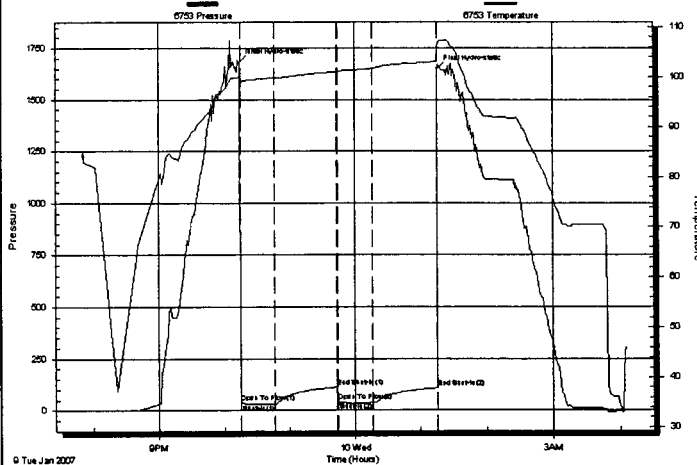
Serial #: 6753

Inside

Press@RunDepth: **36.20 psig @ 3436.01 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2007.01.09** End Date: **2007.01.10** Last Calib.: **2007.01.10**
Start Time: **19:49:47** End Time: **04:05:41** Time On Btm: **2007.01.09 @ 22:14:12**
Time Off Btm: **2007.01.10 @ 01:15:41**

TEST COMMENT: IFF Wk to strg in 8 min
FF Wk to a gd bl 1" to 8" bl
Times 30 60 30 60
No bl on shut-in

Pressure vs. Time



PRESSURE SUMMARY

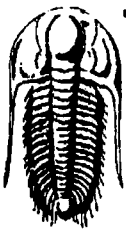
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1679.78	99.92	Initial Hydro-static
1	38.28	98.48	Open To Flow (1)
33	29.98	99.73	Shut-In(1)
90	111.43	100.99	End Shut-In(1)
91	41.62	101.15	Open To Flow (2)
122	36.20	101.65	Shut-In(2)
181	106.88	103.06	End Shut-In(2)
182	1649.65	105.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	HO&GCM 10%G 25%O 65%M	0.10
0.00	520' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Harry A Spring

Keller B #1

Box 1788
Ardmore OK 73402

12 11S 20W Ellis KS

Job Ticket: 25265 **DST#: 1**

ATTN: Mike Davignon

Test Start: 2007.01.09 @ 19:49:47

Tool Information

Drill Pipe:	Length: 3260.00 ft	Diameter: 3.80 inches	Volume: 45.73 bbl	Tool Weight: 2200.00 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 46.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3435.00 ft			Final 31000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.02 ft			
Tool Length:	46.02 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			3415.00	
Shut In Tool	5.00			3420.00	
Hydraulic tool	5.00			3425.00	
Packer	5.00			3430.00	21.00 Bottom Of Top Packer
Packer	5.00			3435.00	
Stubb	1.00			3436.00	
Recorder	0.01	6753	Inside	3436.01	
Perforations	21.00			3457.01	
Recorder	0.01	13534	Outside	3457.02	
Bullnose	3.00			3460.02	25.02 Bottom Packers & Anchor
Total Tool Length:	46.02				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Harry A Spring

Keller B #1

Box 1788
Ardmore OK 73402

12 11S 20W Ellis KS

Job Ticket: 25265

DST#: 1

ATTN: Mike Davignon

Test Start: 2007.01.09 @ 19:49:47

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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.33 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3800.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	HO&GCM 10%G 25%O 65%M	0.098
0.00	520' GIP	0.000

Total Length: 20.00 ft Total Volume: 0.098 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

DST Test Number: 1

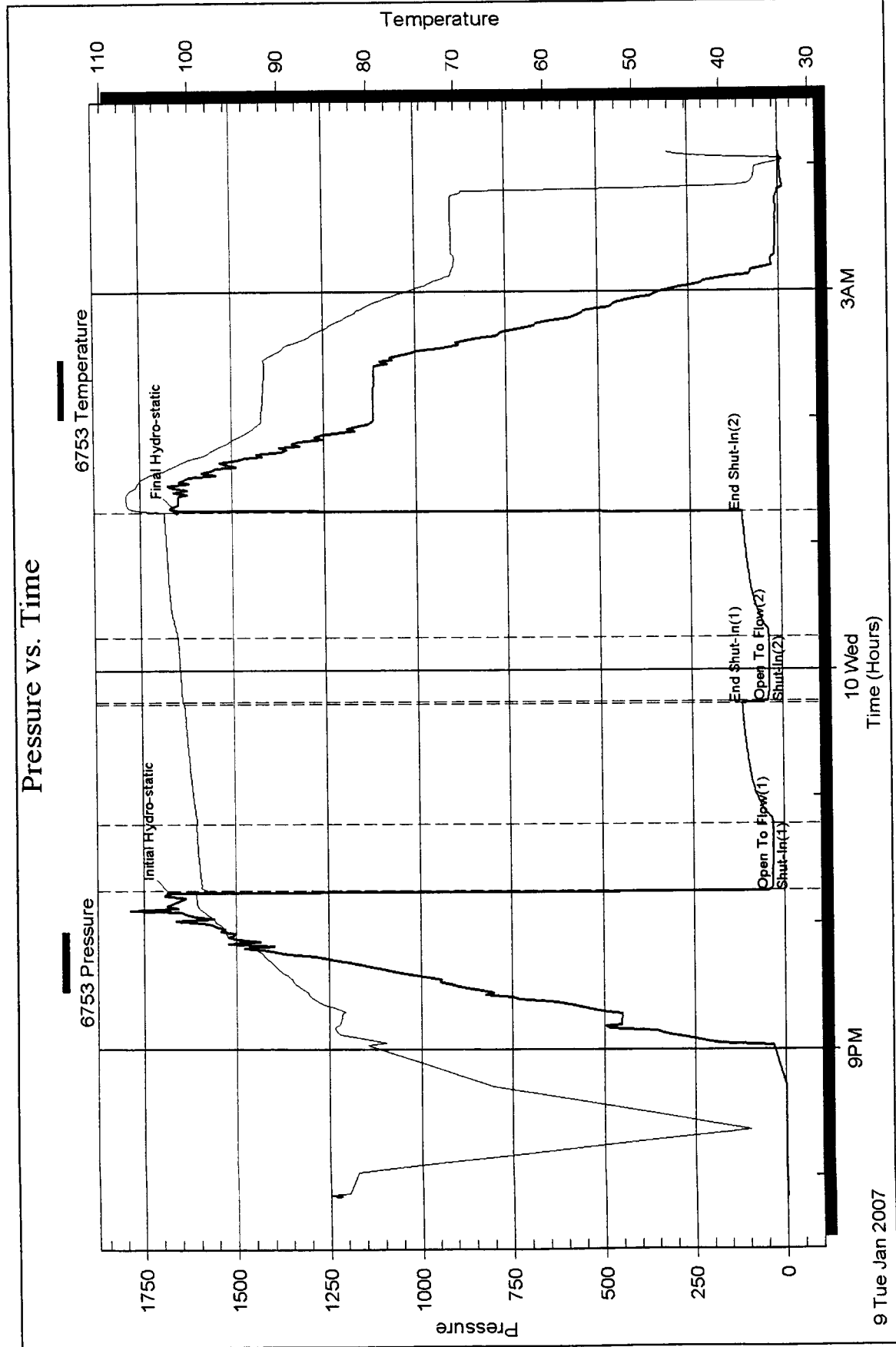
12 11S 20W Ellis KS

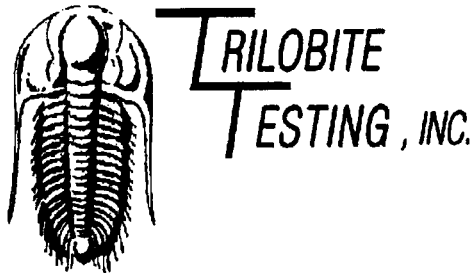
Harry A Spring

Inside

Serial #: 6753

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Harry A Spring**

Box 1788
Ardmore OK 73402

ATTN: Mike Davignon

12 11S 20W Ellis KS

Keller B #1

Start Date: 2007.01.10 @ 11:31:27

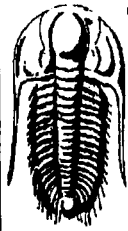
End Date: 2007.01.10 @ 19:05:51

Job Ticket #: 25266 DST #: 2

Trilobite Testing, Inc

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



**TRILOBITE
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DRILL STEM TEST REPORT

Harry A Spring
Box 1788
Ardmore OK 73402
ATTN: Mke Davignon

Keller B #1
12 11S 20W Ellis KS
Job Ticket: 25266 **DST#: 2**
Test Start: 2007.01.10 @ 11:31:27

GENERAL INFORMATION:

Formation: **LKC "D"**
Deviated: **No Whipstock: ft (KB)**
Time Tool Opened: 13:47:22
Time Test Ended: 19:05:51

Test Type: **Conventional Bottom Hole**
Tester: **Ray Schwager**
Unit No: **28**

Interval: **3460.00 ft (KB) To 3480.00 ft (KB) (TVD)**
Total Depth: **3480.00 ft (KB) (TVD)**
Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2142.00 ft (KB)**
2137.00 ft (CF)
KB to GR/CF: **5.00 ft**

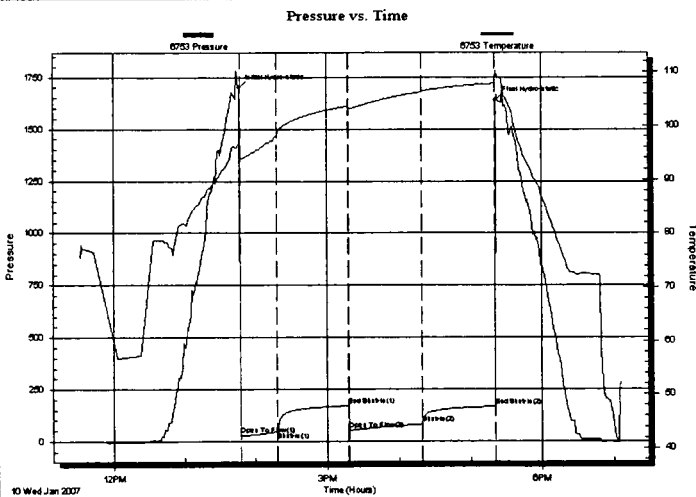
Serial #: 6753

Inside

Press@RunDepth: **81.55 psig @ 3461.01 ft (KB)**
Start Date: **2007.01.10** End Date: **2007.01.10**
Start Time: **11:31:27** End Time: **19:05:51**

Capacity: **7000.00 psig**
Last Calib.: **2007.01.10**
Time On Btm: **2007.01.10 @ 13:46:52**
Time Off Btm: **2007.01.10 @ 17:20:51**

TEST COMMENT: **IFF Wk bl thru-out 1/4 " to 1 1/4 " bl**
FFP Surface bl thru-out
Times 30 60 60 60



PRESSURE SUMMARY

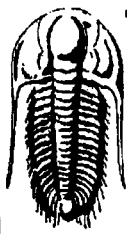
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1698.27	96.52	Initial Hydro-static
1	31.40	94.13	Open To Flow (1)
31	46.67	98.30	Shut-In(1)
91	170.49	103.63	End Shut-In(1)
92	54.00	103.23	Open To Flow (2)
153	81.55	106.31	Shut-In(2)
214	166.54	107.88	End Shut-In(2)
214	1637.27	110.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Water w/show of Oil	0.32
60.00	Water rw .14 @ 55F	0.30

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Harry A Spring

Keller B #1

Box 1788
Ardmore OK 73402

12 11S 20W Ellis KS

Job Ticket: 25266 **DST#: 2**

ATTN: Mike Davignon

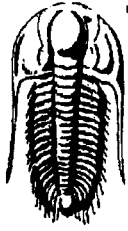
Test Start: 2007.01.10 @ 11:31:27

Tool Information

Drill Pipe:	Length: 3267.00 ft	Diameter: 3.80 inches	Volume: 45.83 bbl	Tool Weight: 2200.00 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 46.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3460.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.02 ft			
Tool Length:	41.02 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			3440.00	
Shut In Tool	5.00			3445.00	
Hydraulic tool	5.00			3450.00	
Packer	5.00			3455.00	21.00 Bottom Of Top Packer
Packer	5.00			3460.00	
Stubb	1.00			3461.00	
Recorder	0.01	6753	Inside	3461.01	
Perforations	16.00			3477.01	
Recorder	0.01	13534	Outside	3477.02	
Bullnose	3.00			3480.02	20.02 Bottom Packers & Anchor
Total Tool Length:	41.02				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Harry A Spring

Keller B #1

Box 1788
Ardmore OK 73402

12 11S 20W Ellis KS

Job Ticket: 25266

DST#: 2

ATTN: Mike Davignon

Test Start: 2007.01.10 @ 11:31:27

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:

67000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.34 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
65.00	Water w/show of Oil	0.320
60.00	Water rw .14 @ 55F	0.295

Total Length: 125.00 ft Total Volume: 0.615 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

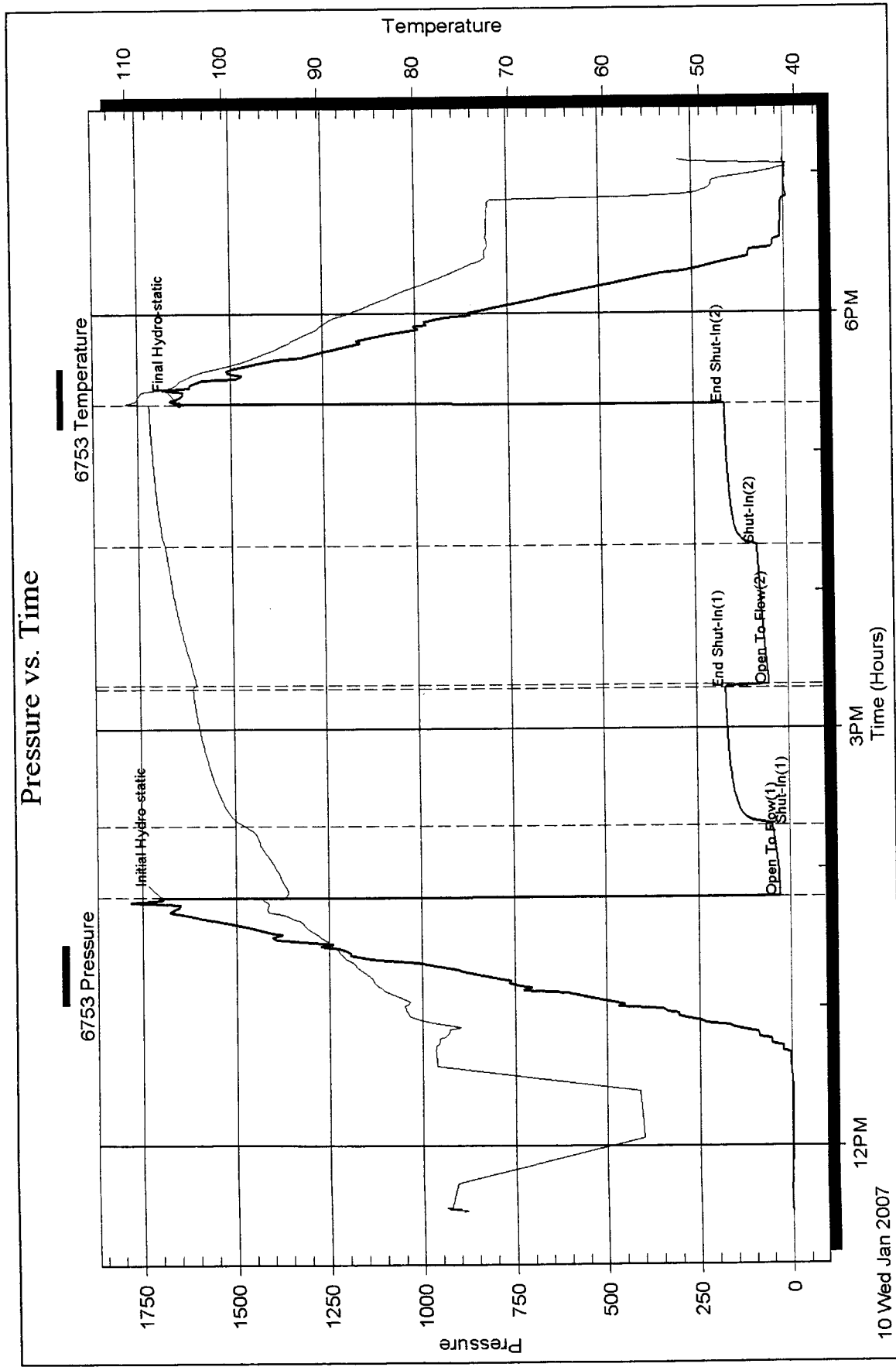
Serial #:

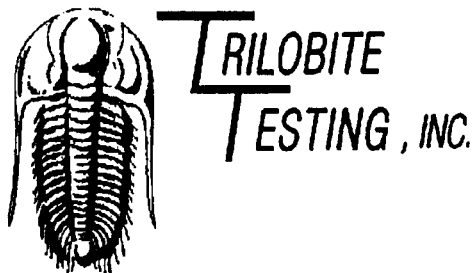
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Harry A Spring**

Box 1788
Ardmore OK 73402

ATTN: Mike Davignon

12 11S 20W Ellis KS

Keller B #1

Start Date: 2007.01.11 @ 01:41:36

End Date: 2007.01.11 @ 08:01:00

Job Ticket #: 25267 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



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DRILL STEM TEST REPORT

Harry A Spring

Keller B #1

Box 1788
Ardmore OK 73402

12 11S 20W Ellis KS

Job Ticket: 25267

DST#: 3

ATTN: Mke Davignon

Test Start: 2007.01.11 @ 01:41:36

GENERAL INFORMATION:

Formation: **LKC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:06:01

Time Test Ended: 08:01:00

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3480.00 ft (KB) To 3510.00 ft (KB) (TVD)**

Reference Elevations: 2142.00 ft (KB)

Total Depth: 3510.00 ft (KB) (TVD)

2137.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6753 Inside

Press@RunDepth: 69.43 psig @ 3481.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.01.11

End Date:

2007.01.11

Last Calib.: 2007.01.11

Start Time: 01:41:36

End Time:

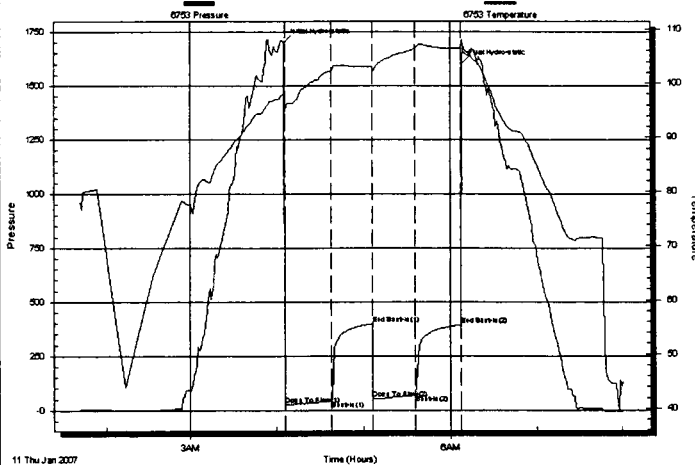
08:01:00

Time On Btm: 2007.01.11 @ 04:05:31

Time Off Btm: 2007.01.11 @ 06:07:30

TEST COMMENT: IFP Wk bl thru-out 1/4 " bl
FFP No bl 1st 10 min then surface bl thru-out
Times 30 30 30 30

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1699.35	97.80	Initial Hydro-static
1	26.51	94.92	Open To Flow (1)
33	43.26	102.30	Shut-In(1)
61	396.08	103.02	End Shut-In(1)
61	54.33	102.24	Open To Flow (2)
90	69.43	106.34	Shut-In(2)
122	392.93	106.40	End Shut-In(2)
122	1602.58	108.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SOCMW 2%O 20%M 78%W	0.15
60.00	Water RW .12 @ 58F	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Harry A Spring

Keller B #1

Box 1788
Ardmore OK 73402

12 11S 20W Ellis KS

Job Ticket: 25267 **DST#: 3**

ATTN: Mike Davignon

Test Start: 2007.01.11 @ 01:41:36

Tool Information

Drill Pipe:	Length: 3295.00 ft	Diameter: 3.80 inches	Volume: 46.22 bbl	Tool Weight: 2200.00 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 45000.00 lb
		Total Volume:	47.11 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3480.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.02 ft			
Tool Length:	51.02 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			3460.00	
Shut In Tool	5.00			3465.00	
Hydraulic tool	5.00			3470.00	
Packer	5.00			3475.00	21.00 Bottom Of Top Packer
Packer	5.00			3480.00	
Stubb	1.00			3481.00	
Recorder	0.01	6753	Inside	3481.01	
Perforations	26.00			3507.01	
Recorder	0.01	13534	Outside	3507.02	
Bullnose	3.00			3510.02	30.02 Bottom Packers & Anchor
Total Tool Length:	51.02				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Harry A Spring

Keller B #1

Box 1788
Ardmore OK 73402

12 11S 20W Ellis KS

Job Ticket: 25267

DST#: 3

ATTN: Mike Davignon

Test Start: 2007.01.11 @ 01:41:36

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:

77000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.33 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SOCMW 2%O 20%M 78%W	0.148
60.00	Water RW .12 @ 58F	0.295

Total Length: 90.00 ft

Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

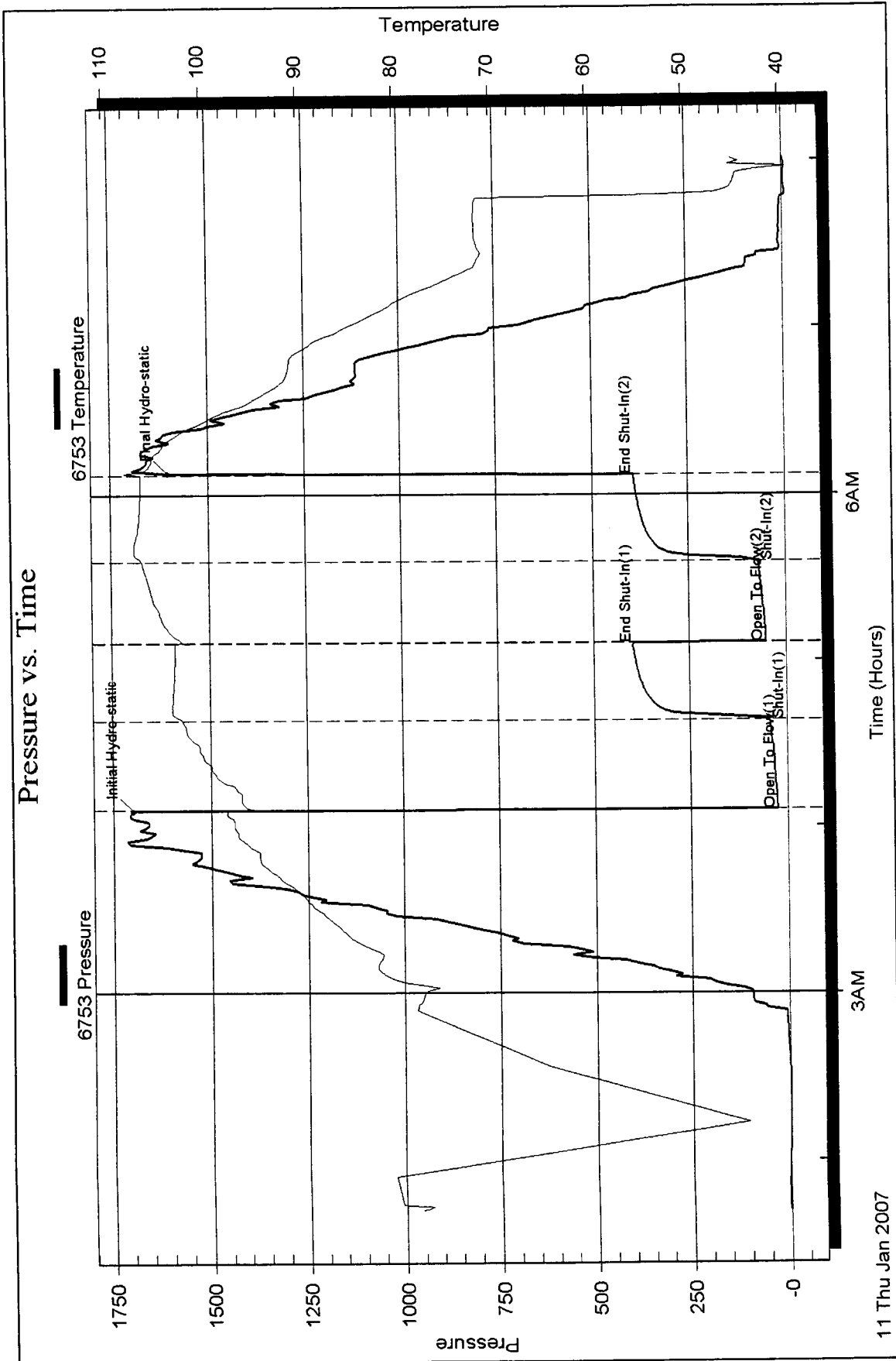
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

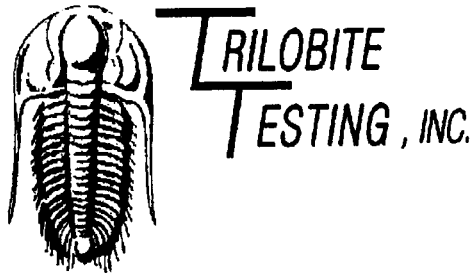
Pressure vs. Time



11 Thu Jan 2007

3AM

6AM



DRILL STEM TEST REPORT

Prepared For: **Harry A Spring**

Box 1788
Ardmore OK 73402

ATTN: Mike Davignon

12 11S 20W Ellis KS

Keller B #1

Start Date: 2007.01.11 @ 17:54:20

End Date: 2007.01.12 @ 00:49:14

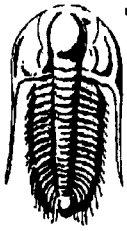
Job Ticket #: 25268 DST #: 4

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DRILL STEM TEST REPORT

Harry A Spring
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ATTN: Mike Davignon

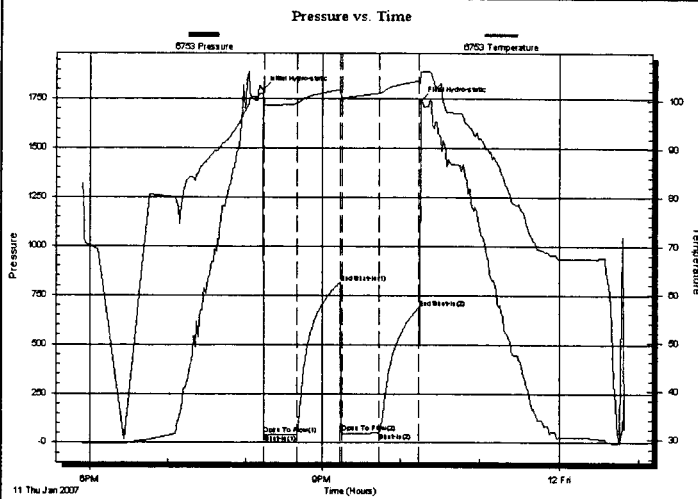
Keller B #1
12 11S 20W Ellis KS
Job Ticket: 25268 **DST#: 4**
Test Start: 2007.01.11 @ 17:54:20

GENERAL INFORMATION:

Formation: **LKC I-L**
Deviated: **No Whipstock:** **ft (KB)**
Time Tool Opened: **20:14:15**
Time Test Ended: **00:49:14**
Test Type: **Conventional Bottom Hole**
Tester: **Ray Schwager**
Unit No: **28**
Interval: **3565.00 ft (KB) To 3630.00 ft (KB) (TVD)**
Reference Elevations: **2142.00 ft (KB)**
Total Depth: **3630.00 ft (KB) (TVD)** **2137.00 ft (CF)**
Hole Diameter: **7.85 inches** Hole Condition: **Fair** **KB to GR/CF: 5.00 ft**

Serial #: 6753 Inside
Press@RunDepth: **51.55 psig @ 3570.01 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2007.01.11** End Date: **2007.01.12** Last Calib.: **2007.01.12**
Start Time: **17:54:20** End Time: **00:49:14** Time On Btm: **2007.01.11 @ 20:13:15**
Time Off Btm: **2007.01.11 @ 22:14:44**

TEST COMMENT: IFP Surface bl died in 20 min
FFP No bl
Times 30 30 30 30



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1797.25	101.42	Initial Hydro-static
1	43.58	99.04	Open To Flow (1)
27	42.76	99.33	Shut-In(1)
61	815.02	102.17	End Shut-In(1)
62	49.60	100.55	Open To Flow (2)
91	51.55	101.48	Shut-In(2)
121	687.38	103.99	End Shut-In(2)
122	1740.28	105.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	M	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Harry A Spring

Keller B #1

Box 1788
Ardmore OK 73402

12 11S 20W Ellis KS

Job Ticket: 25268 **DST#: 4**

ATTN: Mike Davignon

Test Start: 2007.01.11 @ 17:54:20

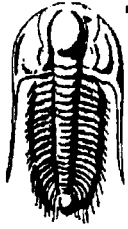
Tool Information

Drill Pipe:	Length: 3386.00 ft	Diameter: 3.80 inches	Volume: 47.50 bbl	Tool Weight: 2200.00 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume:	48.39 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3565.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.02 ft			
Tool Length:	86.02 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			3545.00	
Shut In Tool	5.00			3550.00	
Hydraulic tool	5.00			3555.00	
Packer	5.00			3560.00	21.00 Bottom Of Top Packer
Packer	5.00			3565.00	
Stubb	1.00			3566.00	
Perforations	4.00			3570.00	
Recorder	0.01	6753	Inside	3570.01	
Blank Spacing	32.00			3602.01	
Perforations	25.00			3627.01	
Recorder	0.01	13534	Outside	3627.02	
Bullnose	3.00			3630.02	65.02 Bottom Packers & Anchor

Total Tool Length: 86.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Harry A Spring

Keller B #1

Box 1788
Ardmore OK 73402

12 11S 20W Ellis KS

Job Ticket: 25268

DST#: 4

ATTN: Mke Davignon

Test Start: 2007.01.11 @ 17:54:20

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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.17 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5800.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	M	0.049

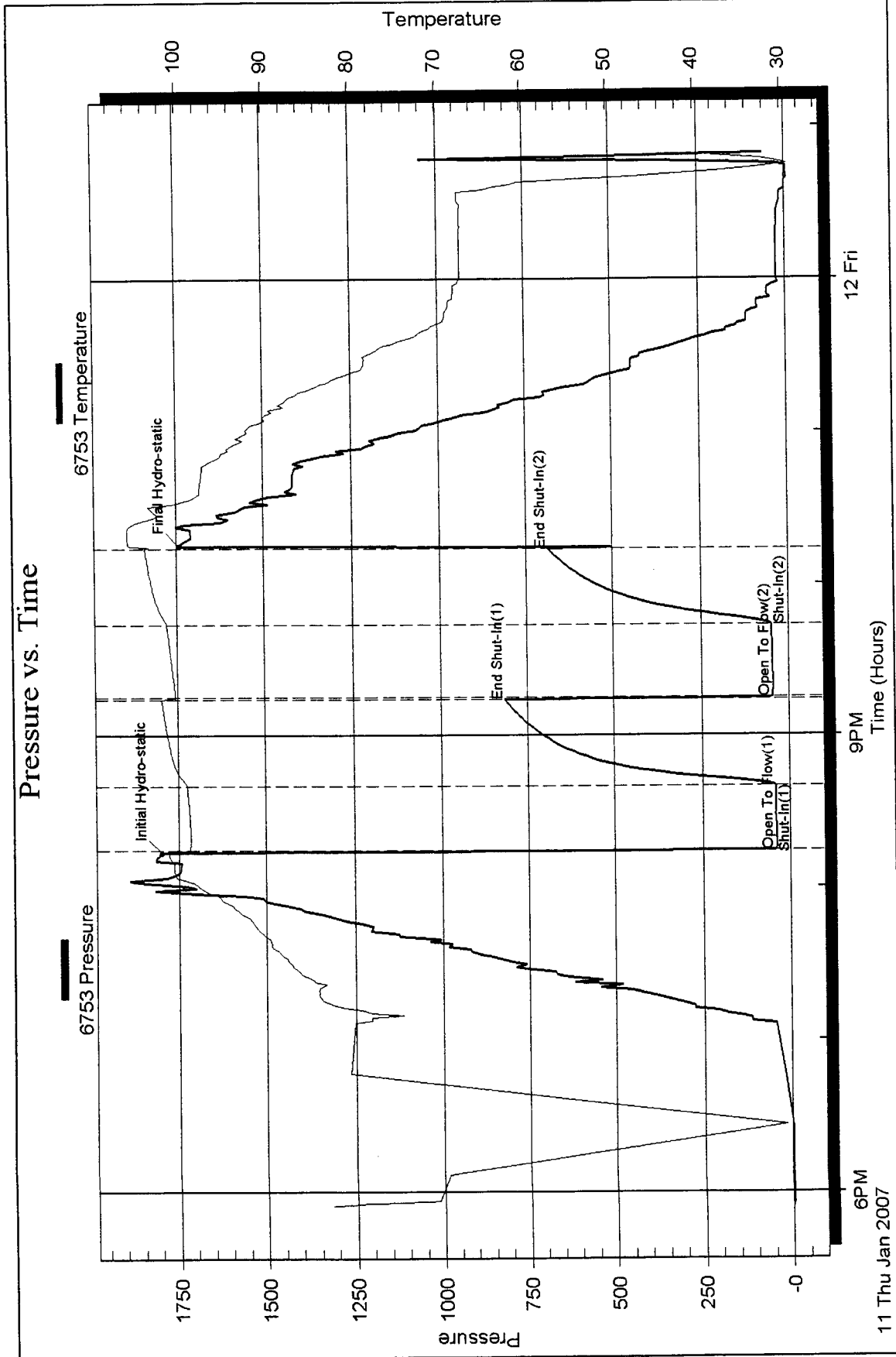
Total Length: 10.00 ft Total Volume: 0.049 bbl

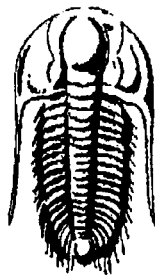
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Harry A Spring**

Box 1788
Ardmore OK 73402

ATTN: Mike Davignon

12 11S 20W Ellis KS

Keller B #1

Start Date: 2007.01.12 @ 13:25:17

End Date: 2007.01.12 @ 23:09:12

Job Ticket #: 25269 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Harry A Spring
Box 1788
Ardmore OK 73402
ATTN: Mike Davignon

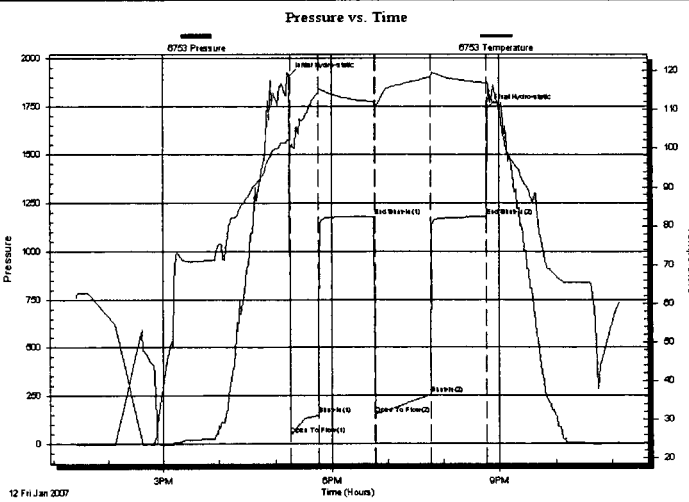
Keller B #1
12 11S 20W Ellis KS
Job Ticket: 25269 DST#: 5
Test Start: 2007.01.12 @ 13:25:17

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:15:42
Time Test Ended: 23:09:12
Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 28
Interval: **3672.00 ft (KB) To 3732.00 ft (KB) (TVD)**
Reference Elevations: 2142.00 ft (KB)
Total Depth: 3732.00 ft (KB) (TVD) 2137.00 ft (CF)
Hole Diameter: 7.85 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 6753 Inside
Press@RunDepth: 255.77 psig @ 3677.01 ft (KB) Capacity: 7000.00 psig
Start Date: 2007.01.12 End Date: 2007.01.12 Last Calib.: 2007.01.12
Start Time: 13:25:17 End Time: 23:09:12 Time On Btm: 2007.01.12 @ 17:15:12
Time Off Btm: 2007.01.12 @ 20:47:11

TEST COMMENT: IFP Wk bl thru-out 1/2" to 2" bl
FFP Wk bl thru-out surface to 1" bl
Times 30 60 60 60



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1908.60	102.22	Initial Hydro-static
1	47.38	99.78	Open To Flow (1)
31	148.82	114.15	Shut-In(1)
90	1181.18	112.07	End Shut-In(1)
91	152.36	110.43	Open To Flow (2)
151	255.77	118.35	Shut-In(2)
212	1178.68	116.83	End Shut-In(2)
212	1741.80	116.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	Water RW .4 @ 57F	2.57
120.00	MW 20%M 80%W	1.68

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Harry A Spring

Keller B #1

Box 1788
Ardmore OK 73402

12 11S 20W Ellis KS

Job Ticket: 25269 **DST#: 5**

ATTN: Mike Davignon

Test Start: 2007.01.12 @ 13:25:17

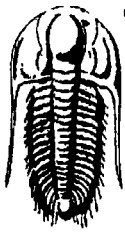
Tool Information

Drill Pipe:	Length: 3480.00 ft	Diameter: 3.80 inches	Volume: 48.82 bbl	Tool Weight: 2200.00 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 45000.00 lb
			Total Volume: 49.71 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3672.00 ft			Final 31000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.02 ft			
Tool Length:	81.02 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			3652.00	
Shut In Tool	5.00			3657.00	
Hydraulic tool	5.00			3662.00	
Packer	5.00			3667.00	21.00 Bottom Of Top Packer
Packer	5.00			3672.00	
Stubb	1.00			3673.00	
Perforations	4.00			3677.00	
Recorder	0.01	6753	Inside	3677.01	
Blank Spacing	32.00			3709.01	
Perforations	20.00			3729.01	
Recorder	0.01	13534	Outside	3729.02	
Bullnose	3.00			3732.02	60.02 Bottom Packers & Anchor

Total Tool Length: 81.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Harry A Spring

Keller B #1

Box 1788
Ardmore OK 73402

12 11S 20W Ellis KS

Job Ticket: 25269

DST#: 5

ATTN: Mike Davignon

Test Start: 2007.01.12 @ 13:25:17

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:

20000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	Water RW .4 @ 57F	2.568
120.00	MW 20%M 80%W	1.683

Total Length: 420.00 ft

Total Volume: 4.251 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

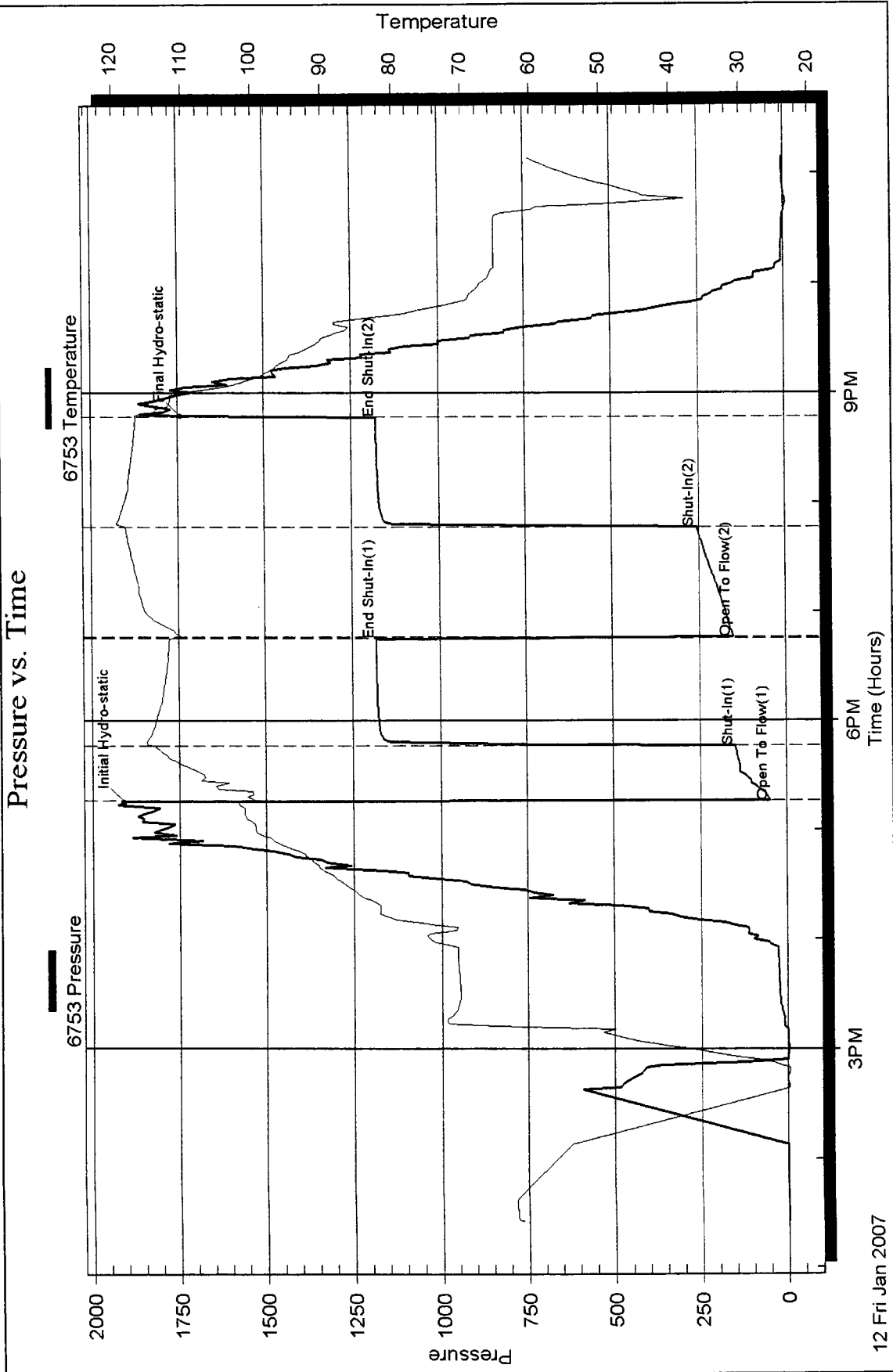
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



12 Fri Jan 2007