

DRILL STEM TEST REPORT

Prepared For: **Harry A Spring**

Box 1788
Ardmore OK 73402

ATTN: Mike Davignon

2 11S 20W Ellis KS

Love # 2

Start Date: 2007.01.20 @ 02:45:59

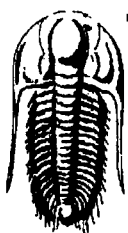
End Date: 2007.01.20 @ 10:31:29

Job Ticket #: 27140 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

Love # 2

Box 1788
Ardmore OK 73402

2 11S 20W Ellis KS

Job Ticket: 27140

DST#: 1

ATTN: Mike Davignon

Test Start: 2007.01.20 @ 02:45:59

GENERAL INFORMATION:

Formation: L.Kc.-C

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:06:59

Time Test Ended: 10:31:29

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: 3395.00 ft (KB) To 3430.00 ft (KB) (TVD)

Total Depth: 3430.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2104.00 ft (KB)

2099.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8018

Inside

Press@RunDepth: 216.78 psig @ 3400.00 ft (KB)

Start Date: 2007.01.20

End Date:

2007.01.20

Capacity: 7000.00 psig

Last Calib.: 2007.01.20

Start Time: 02:46:04

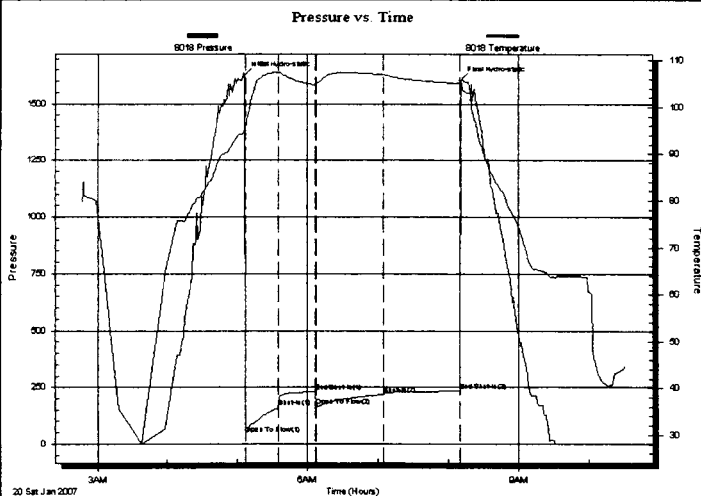
End Time:

10:31:28

Time On Btm: 2007.01.20 @ 05:06:29

Time Off Btm: 2007.01.20 @ 08:10:29

TEST COMMENT: IF Strong BOB in 3 min.
ISI 4 " blow back
FF Strong BOB in 15 min.
FSI Dead



PRESSURE SUMMARY

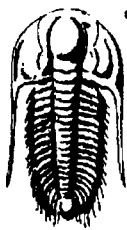
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1628.23	94.98	Initial Hydro-static
1	41.79	94.51	Open To Flow(1)
29	159.89	107.43	Shut-In(1)
60	230.01	104.72	End Shut-In(1)
61	164.43	104.66	Open To Flow(2)
119	216.78	106.93	Shut-In(2)
184	232.55	105.10	End Shut-In(2)
184	1604.61	105.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
330.00	SW	2.93
100.00	HMMCO 12%W 18%M 70%O	1.40
0.00	435 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Harry A Spring

Love # 2

Box 1788
Ardmore OK 73402

2 11S 20W Ellis KS

Job Ticket: 27140

DST#: 1

ATTN: Mike Davignon

Test Start: 2007.01.20 @ 02:45:59

Tool Information

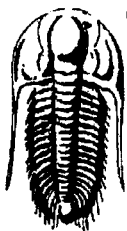
Drill Pipe:	Length: 3199.00 ft	Diameter: 3.80 inches	Volume: 44.87 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	46000.00 lb
		Total Volume:	45.78 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	30000.00 lb
Depth to Top Packer:	3395.00 ft			Final	32000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	35.00 ft				
Tool Length:	55.00 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			3376.00	
Shut In Tool	5.00			3381.00	
Hydraulic tool	5.00			3386.00	
Packer	4.00			3390.00	20.00 Bottom Of Top Packer
Packer	5.00			3395.00	
Stubb	1.00			3396.00	
Perforations	4.00			3400.00	
Recorder	0.00	8018	Inside	3400.00	
Perforations	27.00			3427.00	
Recorder	0.00	13308	Outside	3427.00	
Bullnose	3.00			3430.00	35.00 Bottom Packers & Anchor

Total Tool Length: 55.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Harry A Spring

Love # 2

Box 1788
Ardmore OK 73402

2 11S 20W Ellis KS

Job Ticket: 27140

DST#: 1

ATTN: Mike Davignon

Test Start: 2007.01.20 @ 02:45:59

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:

85000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
330.00	SW	2.935
100.00	HMMCO 12%W 18%M 70%O	1.403
0.00	435 GIP	0.000

Total Length: 430.00 ft

Total Volume: 4.338 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

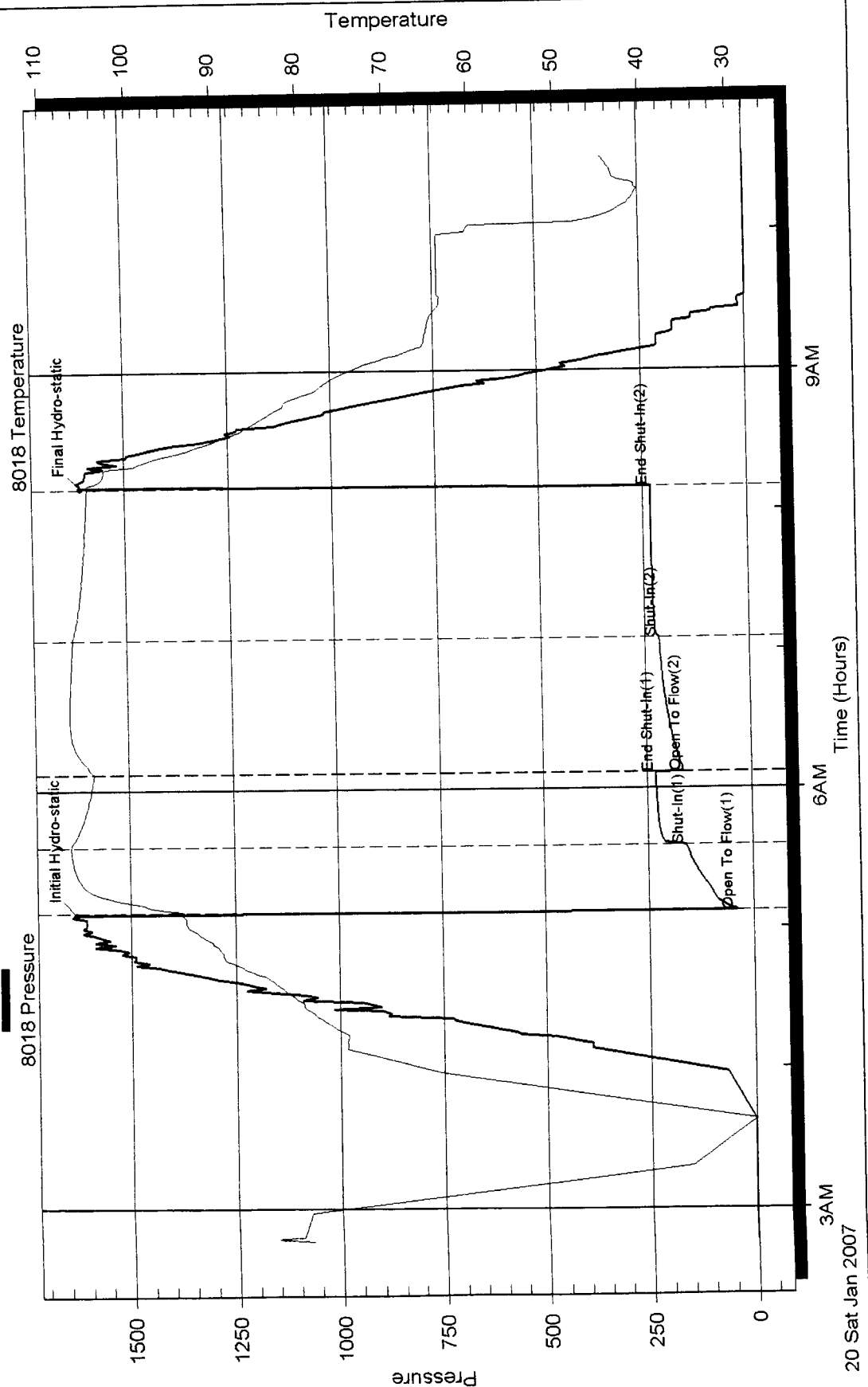
2 11S 20W Blis KS

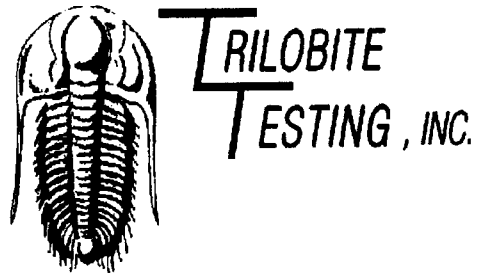
Harry A Spring

Inside

Serial #: 8018

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Harry A Spring**

Box 1788
Ardmore OK 73402

ATTN: Mike Davignon

2 11S 20W Ellis KS

Love # 2

Start Date: 2007.01.20 @ 17:06:53

End Date: 2007.01.21 @ 01:21:53

Job Ticket #: 27141 DST #: 2

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

Love # 2

Box 1788
Ardmore OK 73402

2 11S 20W Ellis KS

Job Ticket: 27141

DST#: 2

ATTN: Mike Davignon

Test Start: 2007.01.20 @ 17:06:53

GENERAL INFORMATION:

Formation: L.Kc.-D

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:18:53

Time Test Ended: 01:21:53

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: 3425.00 ft (KB) To 3450.00 ft (KB) (TVD)

Total Depth: 3450.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2104.00 ft (KB)

2099.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8018

Inside

Press@RunDepth: 103.23 psig @ 3430.00 ft (KB)

Start Date: 2007.01.20

End Date:

2007.01.21

Capacity: 7000.00 psig

Last Calib.: 2007.01.21

Start Time: 17:06:58

End Time:

01:21:52

Time On Btm: 2007.01.20 @ 19:18:23

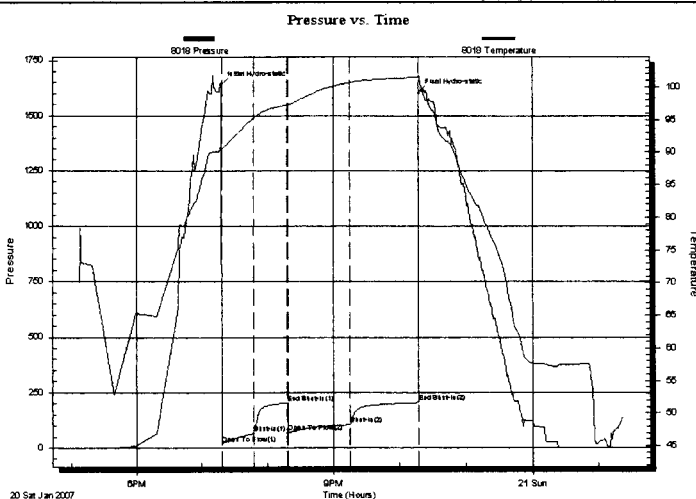
Time Off Btm: 2007.01.20 @ 22:17:23

TEST COMMENT: IF Good built to 10 "

ISI Dead

FF Fair built to 4 "

FSI Dead



PRESSURE SUMMARY

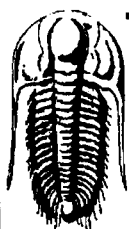
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1639.21	90.83	Initial Hydro-static
1	17.11	90.50	Open To Flow (1)
29	64.11	95.15	Shut-In (1)
60	201.58	97.23	End Shut-In (1)
61	67.75	97.32	Open To Flow (2)
117	103.23	100.65	Shut-In (2)
179	203.20	101.46	End Shut-In (2)
179	1602.87	101.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	SW	0.59
60.00	SOCM 10%O 90%M	0.30
20.00	MCO 10%M 70%O	0.23

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Harry A Spring

Love # 2

Box 1788
Ardmore OK 73402

2 11S 20W Ellis KS

Job Ticket: 27141

DST#: 2

ATTN: Mike Davignon

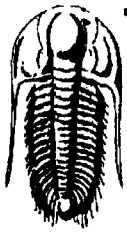
Test Start: 2007.01.20 @ 17:06:53

Tool Information

Drill Pipe:	Length: 3229.00 ft	Diameter: 3.80 inches	Volume: 45.29 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	35000.00 lb
		Total Volume:	46.20 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	32000.00 lb
Depth to Top Packer:	3425.00 ft			Final	32000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	25.00 ft				
Tool Length:	45.00 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			3406.00	
Shut In Tool	5.00			3411.00	
Hydraulic tool	5.00			3416.00	
Packer	4.00			3420.00	20.00 Bottom Of Top Packer
Packer	5.00			3425.00	
Stubb	1.00			3426.00	
Perforations	4.00			3430.00	
Recorder	0.00	8018	Inside	3430.00	
Perforations	17.00			3447.00	
Recorder	0.00	13308	Outside	3447.00	
Bullnose	3.00			3450.00	25.00 Bottom Packers & Anchor

Total Tool Length: 45.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Harry A Spring

Love # 2

Box 1788
Ardmore OK 73402

2 11S 20W Ellis KS

Job Ticket: 27141

DST#: 2

ATTN: Mike Davignon

Test Start: 2007.01.20 @ 17:06:53

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:

92000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	SW	0.590
60.00	SOCM 10%O 90%M	0.295
20.00	MCO 10%M 70%O	0.226

Total Length: 200.00 ft

Total Volume: 1.111 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

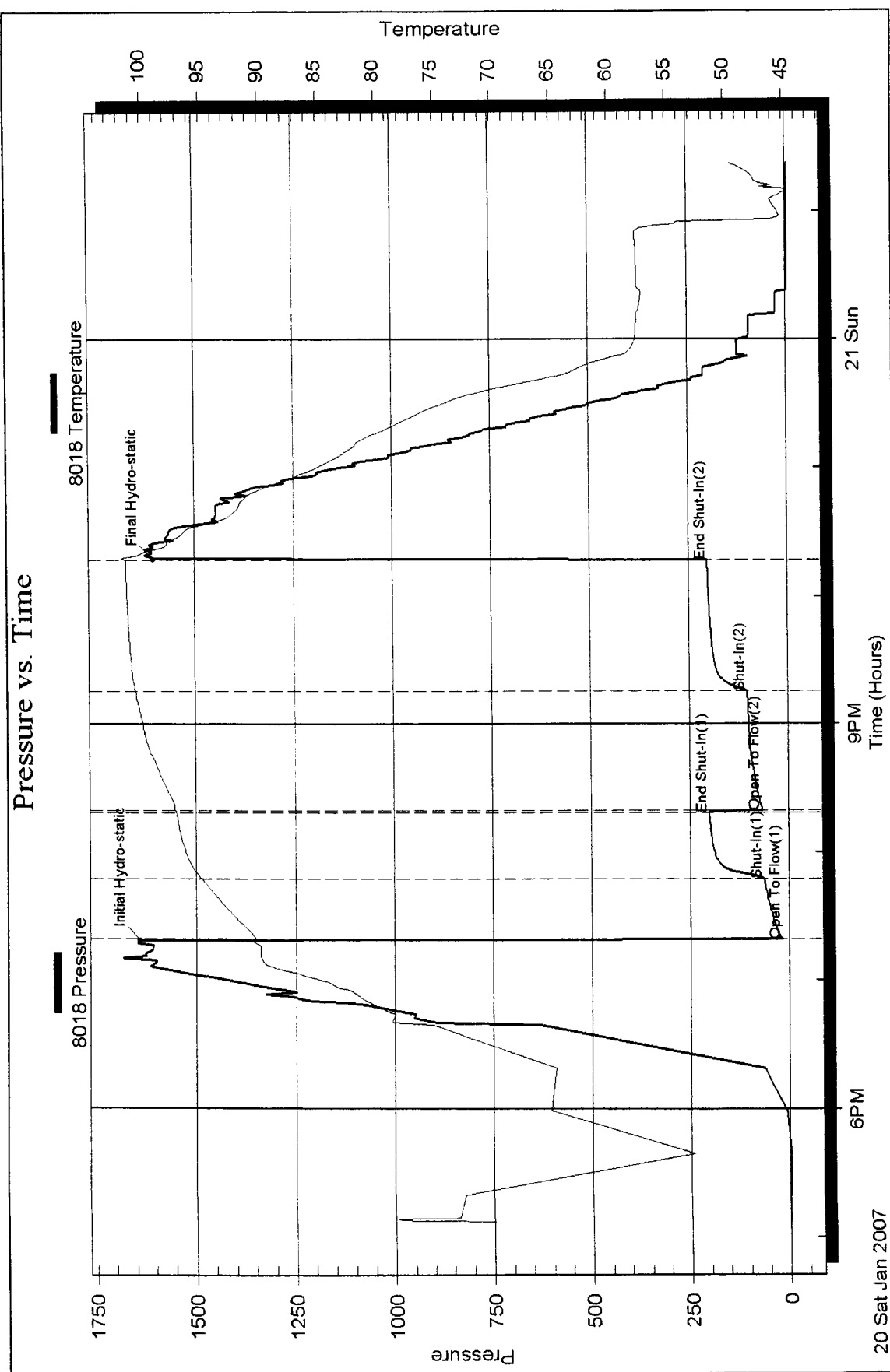
DST Test Number: 2

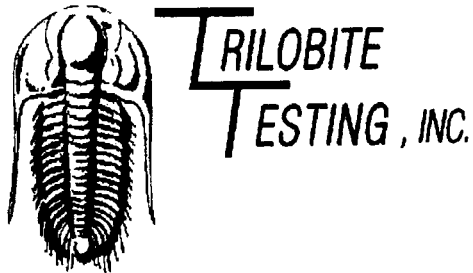
2 11S 20W Ellis KS

Harry A Spring

Inside

Serial #: 8018





DRILL STEM TEST REPORT

Prepared For: **Harry A Spring**

Box 1788
Ardmore OK 73402

ATTN: Mike Davignon

2 11S 20W Ellis KS

Love # 2

Start Date: 2007.01.21 @ 09:36:24

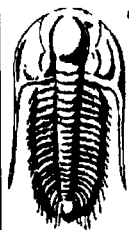
End Date: 2007.01.21 @ 15:19:54

Job Ticket #: 27142 DST #: 3

Trilobite Testing, Inc

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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

Love # 2

2 11S 20W Ellis KS

Job Ticket: 27142

DST#: 3

Test Start: 2007.01.21 @ 09:36:24

GENERAL INFORMATION:

Formation: L.Kc.-E

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:24:54

Time Test Ended: 15:19:54

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: 3446.00 ft (KB) To 3470.00 ft (KB) (TVD)

Total Depth: 3470.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2104.00 ft (KB)

2099.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8018

Inside

Press@RunDepth: 115.88 psig @ 3450.00 ft (KB)

Start Date: 2007.01.21

End Date:

2007.01.21

Capacity: 7000.00 psig

Last Calib.: 2007.01.21

Start Time: 09:36:29

End Time:

15:19:53

Time On Btm: 2007.01.21 @ 11:24:24

Time Off Btm: 2007.01.21 @ 13:24:54

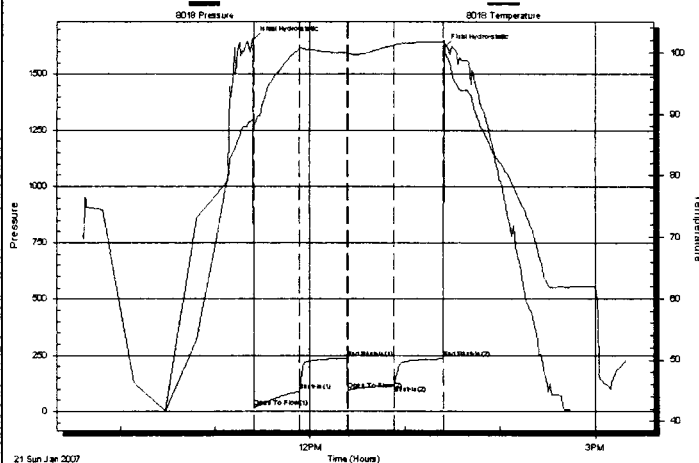
TEST COMMENT: IF Fair built to 5"

ISI Dead

FF Weak built to 2 "

FSI Dead

Pressure vs. Time



PRESSURE SUMMARY

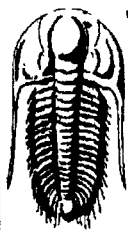
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1652.23	88.82	Initial Hydro-static
1	16.13	88.44	Open To Flow (1)
29	89.44	100.62	Shut-In (1)
59	236.54	99.89	End Shut-In (1)
60	93.36	99.79	Open To Flow (2)
89	115.88	101.20	Shut-In (2)
120	234.32	101.72	End Shut-In (2)
121	1617.48	102.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
215.00	MSW	1.32
5.00	Oil	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Harry A Spring

Love # 2

Box 1788
Ardmore OK 73402

2 11S 20W Ellis KS

Job Ticket: 27142

DST#: 3

ATTN: Mike Davignon

Test Start: 2007.01.21 @ 09:36:24

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: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	35000.00 lb
		Total Volume:	46.64 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	32000.00 lb
Depth to Top Packer:	3446.00 ft			Final	32000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	24.00 ft				
Tool Length:	44.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3427.00	
Shut In Tool	5.00			3432.00	
Hydraulic tool	5.00			3437.00	
Packer	4.00			3441.00	20.00 Bottom Of Top Packer
Packer	5.00			3446.00	
Stubb	1.00			3447.00	
Perforations	3.00			3450.00	
Recorder	0.00	8018	Inside	3450.00	
Perforations	17.00			3467.00	
Recorder	0.00	13308	Outside	3467.00	
Bullnose	3.00			3470.00	24.00 Bottom Packers & Anchor

Total Tool Length: 44.00



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Harry A Spring

Love # 2

Box 1788
Ardmore OK 73402

2 11S 20W Ellis KS

Job Ticket: 27142

DST#: 3

ATTN: Mike Davignon

Test Start: 2007.01.21 @ 09:36:24

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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
215.00	MSW	1.322
5.00	Oil	0.070

Total Length: 220.00 ft

Total Volume: 1.392 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

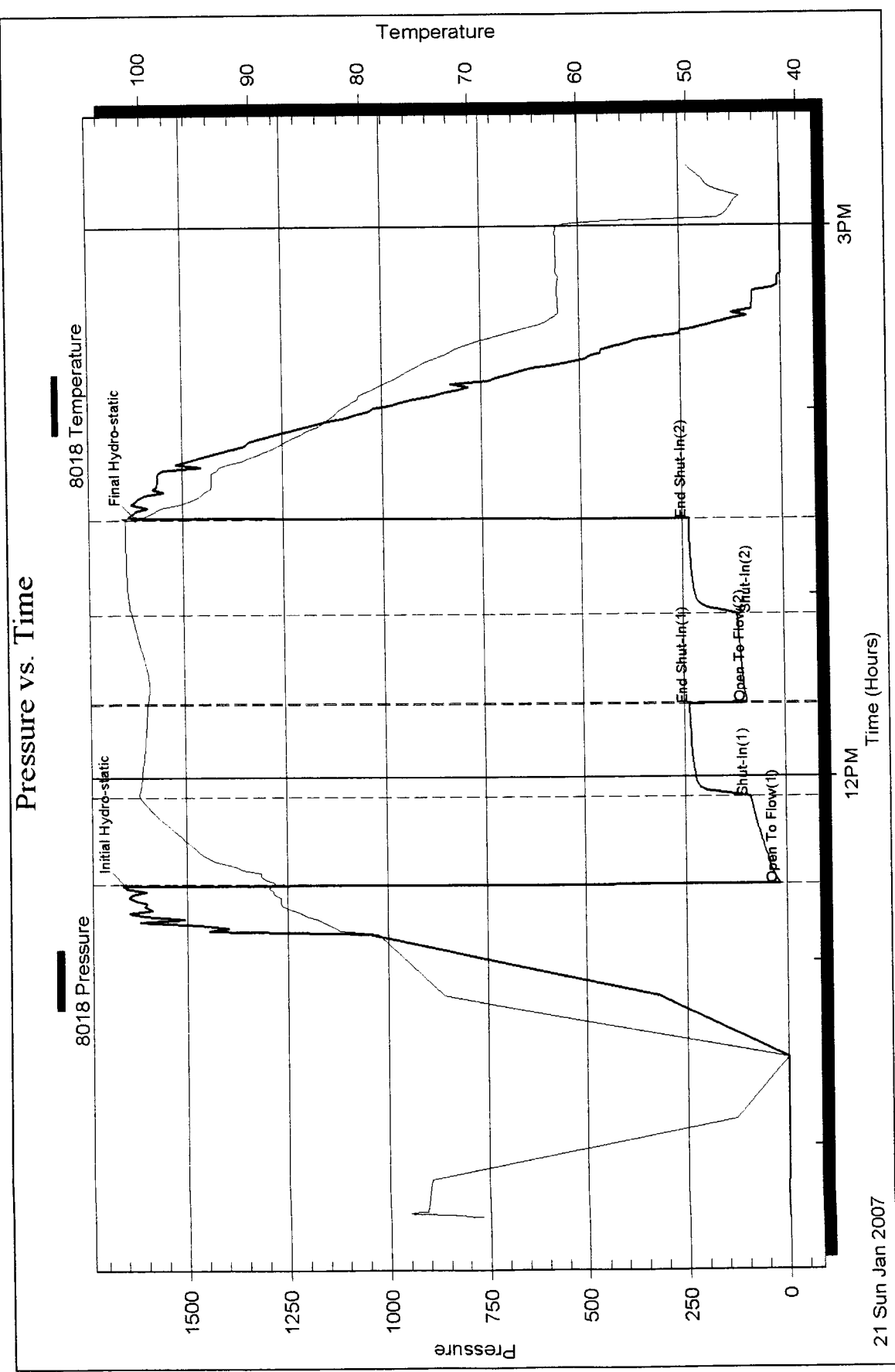
DST Test Number: 3

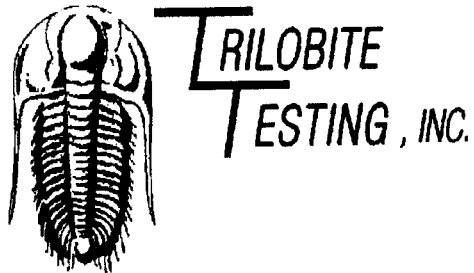
2 11S 20W Ellis KS

Harry A Spring

Inside

Serial #: 8018





DRILL STEM TEST REPORT

Prepared For: **Harry A Spring**

Box 1788
Ardmore OK 73402

ATTN: Mike Davignon

2 11S 20W Ellis KS

Love # 2

Start Date: 2007.01.22 @ 01:20:45

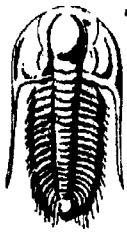
End Date: 2007.01.22 @ 09:20:45

Job Ticket #: 27143 DST #: 4

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

Love # 2

Box 1788
Ardmore OK 73402

2 11S 20W Ellis KS

Job Ticket: 27143

DST#: 4

ATTN: Mike Davignon

Test Start: 2007.01.22 @ 01:20:45

GENERAL INFORMATION:

Formation: L.Kc.-J,K&L

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:42:15

Time Test Ended: 09:20:45

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: 3530.00 ft (KB) To 3600.00 ft (KB) (TVD)

Total Depth: 3600.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2104.00 ft (KB)

2099.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8018

Inside

Press@RunDepth: 138.03 psig @ 3535.00 ft (KB)

Start Date: 2007.01.22

End Date:

2007.01.22

Capacity: 7000.00 psig

Last Calib.: 2007.01.22

Start Time: 01:20:50

End Time:

09:20:44

Time On Btm: 2007.01.22 @ 03:41:45

Time Off Btm: 2007.01.22 @ 06:41:45

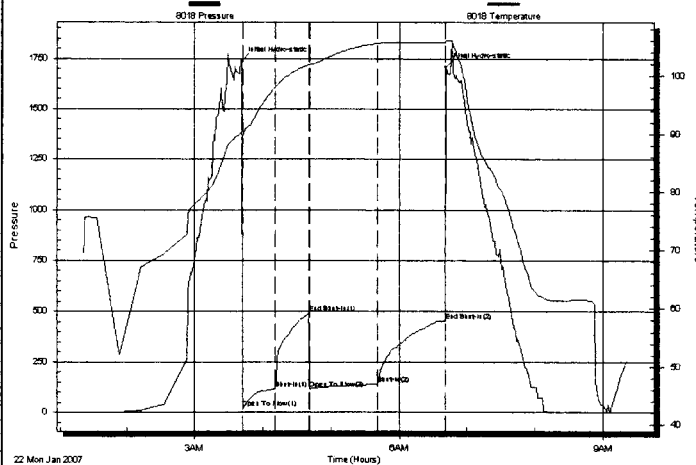
TEST COMMENT: IF Strong BOB in 22 min.

ISI Dead

FF Weak built to 3 "

FSI Dead

Pressure vs. Time



PRESSURE SUMMARY

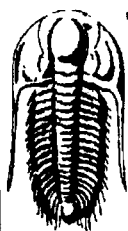
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1736.92	90.10	Initial Hydro-static
1	18.98	89.62	Open To Flow (1)
30	115.02	98.05	Shut-In (1)
59	493.73	101.91	End Shut-In (1)
60	115.87	101.91	Open To Flow (2)
120	138.03	105.53	Shut-In (2)
179	453.82	105.72	End Shut-In (2)
180	1708.06	106.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
250.00	MSW	1.81
15.00	Oil	0.21

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Harry A Spring

Love # 2

Box 1788
Ardmore OK 73402

2 11S 20W Ellis KS

Job Ticket: 27143

DST#: 4

ATTN: Mike Davignon

Test Start: 2007.01.22 @ 01:20:45

Tool Information

Drill Pipe: Length: 3355.00 ft Diameter: 3.80 inches Volume: 47.06 bbl
Heavy Wt. Pipe: Length: 0.00 ft Diameter: 2.70 inches Volume: 0.00 bbl
Drill Collar: Length: 186.00 ft Diameter: 2.25 inches Volume: 0.91 bbl
Total Volume: 47.97 bbl

Tool Weight: 2200.00 lb
Weight set on Packer: 20000.00 lb
Weight to Pull Loose: 40000.00 lb
Tool Chased 0.00 ft
String Weight: Initial 32000.00 lb
Final 32000.00 lb

Drill Pipe Above KB: 31.00 ft
Depth to Top Packer: 3530.00 ft
Depth to Bottom Packer: ft
Interval between Packers: 70.00 ft
Tool Length: 90.00 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			3511.00	
Shut In Tool	5.00			3516.00	
Hydraulic tool	5.00			3521.00	
Packer	4.00			3525.00	20.00 Bottom Of Top Packer
Packer	5.00			3530.00	
Stubb	1.00			3531.00	
Perforations	3.00			3534.00	
Change Over Sub	1.00			3535.00	
Recorder	0.00	8018	Inside	3535.00	
Blank Spacing	31.00			3566.00	
Change Over Sub	1.00			3567.00	
Recorder	0.00	11084	Outside	3567.00	
Perforations	30.00			3597.00	
Bullnose	3.00			3600.00	70.00 Bottom Packers & Anchor

Total Tool Length: 90.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Harry A Spring

Love # 2

Box 1788
Ardmore OK 73402

2 11S 20W Ellis KS

Job Ticket: 27143

DST#: 4

ATTN: Mike Davignon

Test Start: 2007.01.22 @ 01:20:45

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

65000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
250.00	MSW	1.812
15.00	Oil	0.210

Total Length: 265.00 ft

Total Volume: 2.022 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

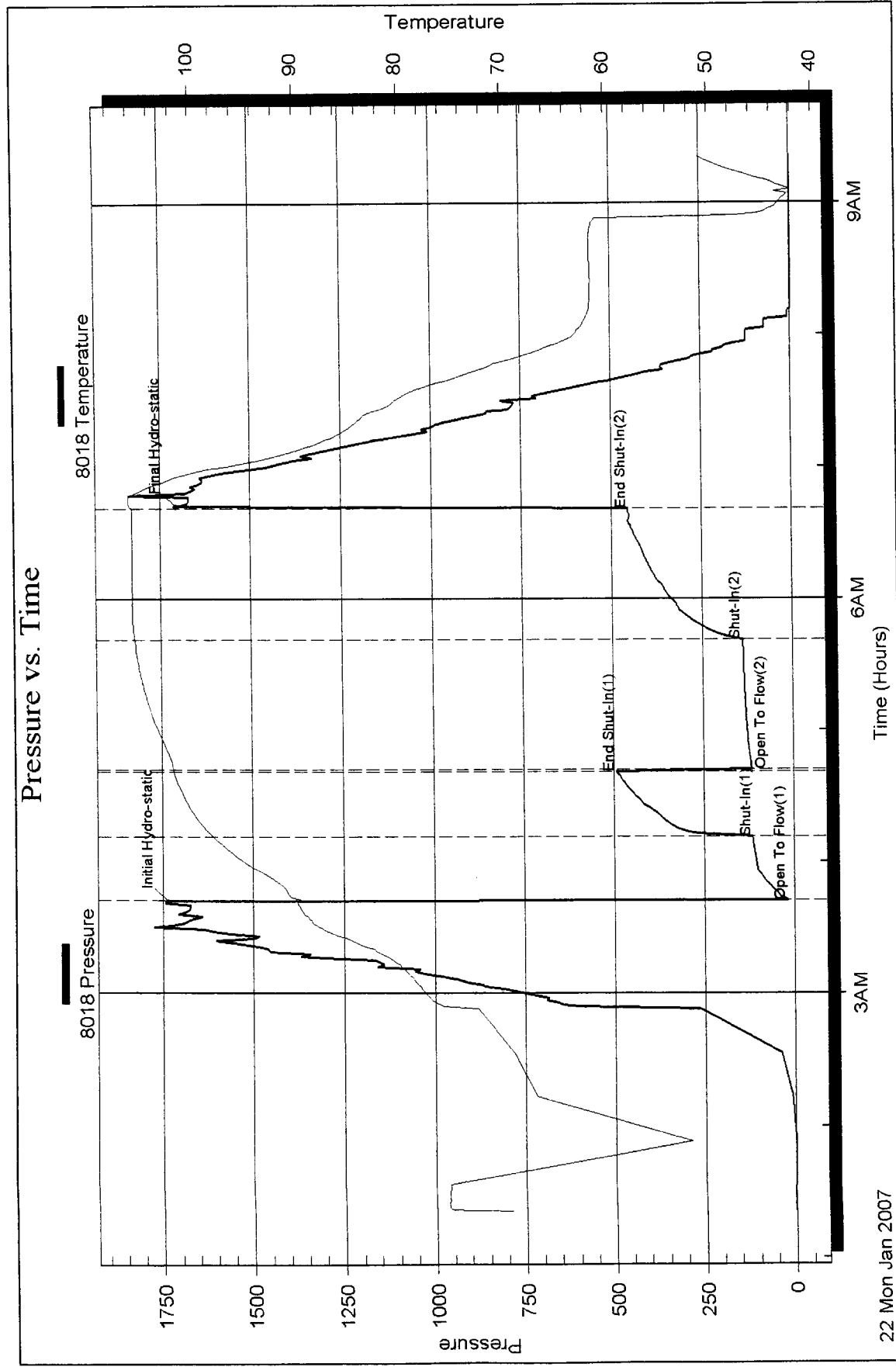
Serial #:

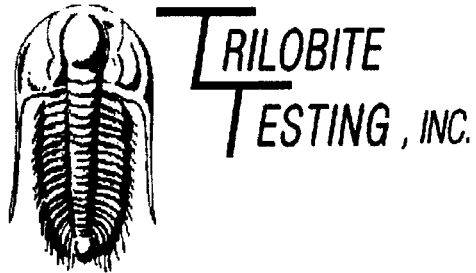
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Harry A Spring**

Box 1788
Ardmore OK 73402

ATTN: Mike Davignon

2 11S 20W Ellis KS

Love # 2

Start Date: 2007.01.22 @ 16:49:27

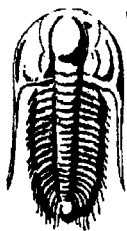
End Date: 2007.01.22 @ 22:00:57

Job Ticket #: 27144 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

Love # 2
2 11S 20W Ellis KS
Job Ticket: 27144 **DST#: 5**
Test Start: 2007.01.22 @ 16:49:27

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:46:27
Time Test Ended: 22:00:57

Test Type: Conventional Bottom Hole
Tester: John Schmidt
Unit No: 31

Interval: **3682.00 ft (KB) To 3695.00 ft (KB) (TVD)**
Total Depth: 3695.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

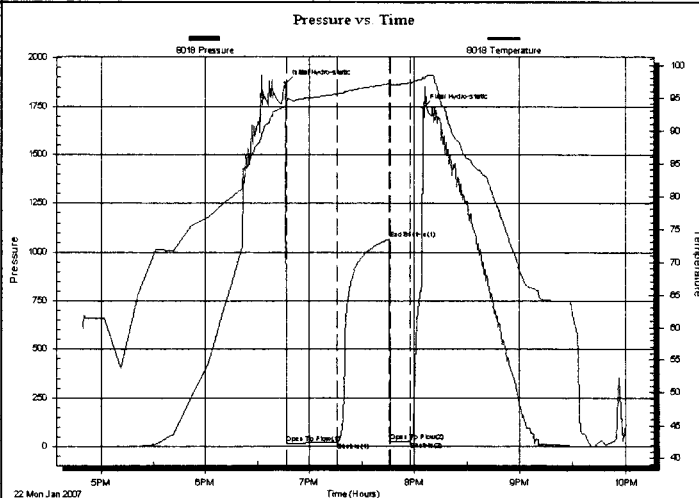
Reference Elevations: 2104.00 ft (KB)
2099.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8018 Inside

Press@RunDepth: 21.30 psig @ 3687.00 ft (KB)
Start Date: 2007.01.22 End Date: 2007.01.22
Start Time: 16:49:32 End Time: 22:00:56

Capacity: 7000.00 psig
Last Calib.: 2007.01.22
Time On Btm: 2007.01.22 @ 18:45:57
Time Off Btm: 2007.01.22 @ 20:04:57

TEST COMMENT: IF Weak Surface
ISI Dead
FF Dead
FSI



PRESSURE SUMMARY

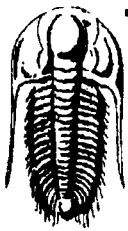
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1868.83	93.63	Initial Hydro-static
1	16.30	94.19	Open To Flow (1)
30	21.30	95.58	Shut-In(1)
60	1065.95	97.13	End Shut-In(1)
60	24.52	96.77	Open To Flow (2)
72	25.80	97.30	Shut-In(2)
79	1743.32	98.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil spotted Mud	0.02
2.00	very heavy Oil	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Harry A Spring

Love # 2

Box 1788
Ardmore OK 73402

2 11S 20W Ellis KS

Job Ticket: 27144

DST#: 5

ATTN: Mike Davignon

Test Start: 2007.01.22 @ 16:49:27

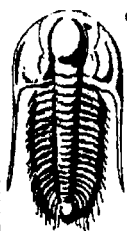
Tool Information

Drill Pipe:	Length: 3501.00 ft	Diameter: 3.80 inches	Volume: 49.11 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	40000.00 lb
		Total Volume:	50.02 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	32000.00 lb
Depth to Top Packer:	3682.00 ft			Final	32000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	13.00 ft				
Tool Length:	33.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3663.00	
Shut In Tool	5.00			3668.00	
Hydraulic tool	5.00			3673.00	
Packer	4.00			3677.00	20.00 Bottom Of Top Packer
Packer	5.00			3682.00	
Stubb	1.00			3683.00	
Perforations	4.00			3687.00	
Recorder	0.00	8018	Inside	3687.00	
Perforations	5.00			3692.00	
Recorder	0.00	13308	Outside	3692.00	
Bullnose	3.00			3695.00	13.00 Bottom Packers & Anchor

Total Tool Length: 33.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Harry A Spring

Love # 2

Box 1788
Ardmore OK 73402

2 11S 20W Ellis KS

Job Ticket: 27144

DST#: 5

ATTN: Mike Davignon

Test Start: 2007.01.22 @ 16:49:27

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:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Oil spotted Mud	0.025
2.00	very heavy Oil	0.010

Total Length:

7.00 ft

Total Volume:

0.035 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 5

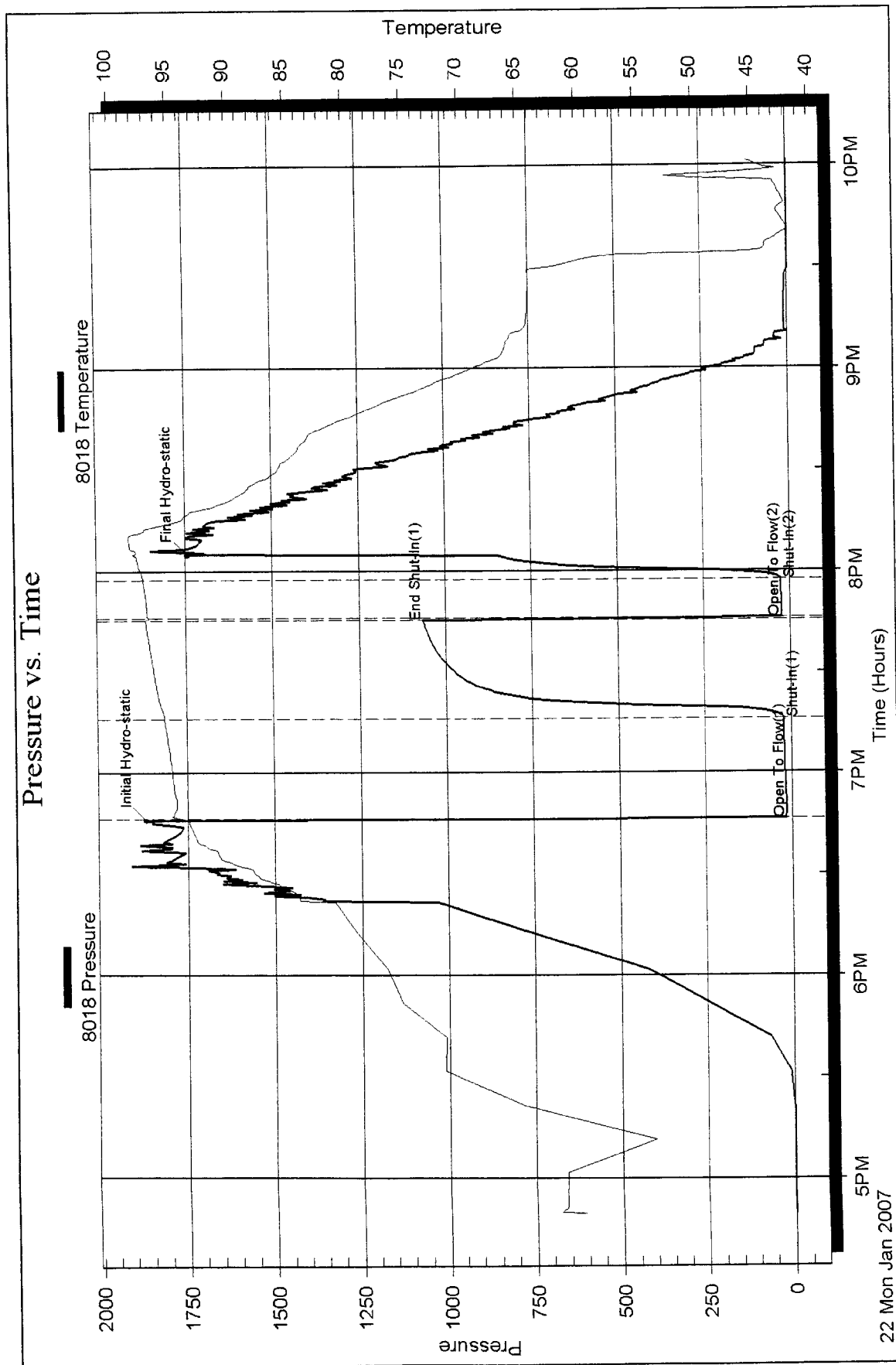
2 11S 20W Ellis KS

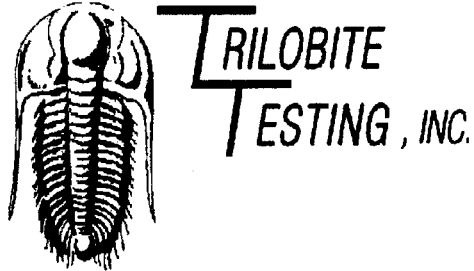
Harry A Spring

Inside

Serial #: 8018

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Harry A Spring**

Box 1788
Ardmore OK 73402

ATTN: Mike Davignon

2 11S 20W Ellis KS

Love # 2

Start Date: 2007.01.23 @ 04:57:59

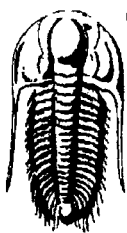
End Date: 2007.01.23 @ 09:12:54

Job Ticket #: 27145 DST #: 6

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

Love # 2
2 11S 20W Ellis KS
Job Ticket: 27145 **DST#: 6**
Test Start: 2007.01.23 @ 04:57:59

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 09:12:54

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: **3682.00 ft (KB) To 3700.00 ft (KB) (TVD)**

Total Depth: 3700.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2104.00 ft (KB)

2099.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8018 **Inside**

Press@RunDepth: psig @ 3684.00 ft (KB)

Start Date: 2007.01.23

End Date:

2007.01.23

Capacity: 7000.00 psig

Last Calib.:

2007.01.23

Start Time: 04:57:59

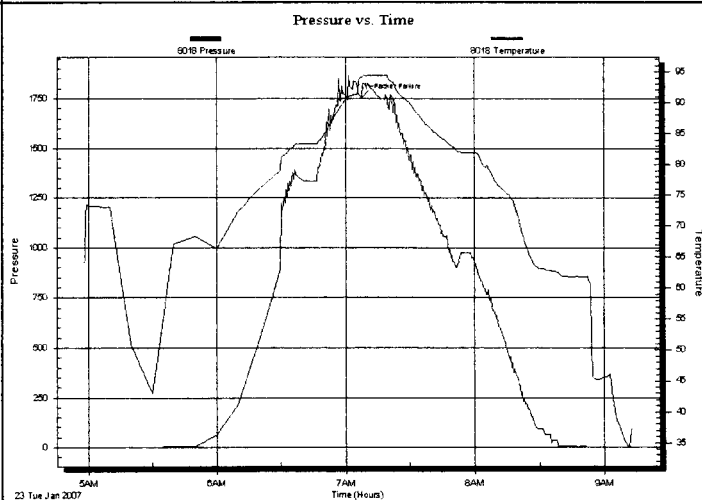
End Time:

09:12:54

Time On Btm:

Time Off Btm:

TEST COMMENT: IF Packer Failure



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1753.10	94.14	--Packer Failure

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Harry A Spring

Love # 2

Box 1788
Ardmore OK 73402

2 11S 20W Ellis KS

Job Ticket: 27145

DST#: 6

ATTN: Mike Davignon

Test Start: 2007.01.23 @ 04:57:59

Tool Information

Drill Pipe:	Length: 3481.00 ft	Diameter: 3.80 inches	Volume: 48.83 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	lb
		Total Volume:	49.74 bbl	Tool Chased	ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	lb
Depth to Top Packer:	3682.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	18.00 ft				
Tool Length:	38.00 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			3663.00	
Shut In Tool	5.00			3668.00	
Hydraulic tool	5.00			3673.00	
Packer	4.00			3677.00	20.00 Bottom Of Top Packer
Packer	5.00			3682.00	
Stubb	1.00			3683.00	
Perforations	1.00			3684.00	
Recorder	0.00	8018	Inside	3684.00	
Perforations	13.00			3697.00	
Recorder	0.00	13308	Outside	3697.00	
Bullnose	3.00			3700.00	18.00 Bottom Packers & Anchor

Total Tool Length: 38.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Harry A Spring

Love # 2

Box 1788
Ardmore OK 73402

2 11S 20W Ellis KS

Job Ticket: 27145

DST#: 6

ATTN: Mike Davignon

Test Start: 2007.01.23 @ 04:57:59

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: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl

Total Length:

ft

Total Volume:

bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

