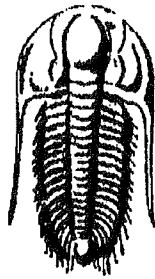


15-13s-20w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Double Ds LLC**

135 E 12th
Hays, KS 67601

ATTN: Al Downing

15-13s-20w Ellis, KS

15-13s-20w Ellis, KS

Shaw #1

Start Date: 2011.08.07 @ 23:01:39

End Date: 2011.08.08 @ 04:35:39

Job Ticket #: 43555 DST #: 1

KGS LIBRARY
RECEIVED
SEP 02 2011
KCC WICHITA

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

Double Ds LLC

Shaw #1

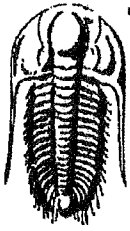
15-13s-20w Ellis, KS

DST # 1

Toronto-A

2011.08.07

15-13s-20w



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Double Ds LLC

135 E 12th
Hays, KS 67601

ATTN: Al Downing

Shaw #1

15-13s-20w Ellis,KS

Job Ticket: 43555

DST#: 1

Test Start: 2011.08.07 @ 23:01:39

GENERAL INFORMATION:

Formation: **Toronto-A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:44:09

Time Test Ended: 04:35:39

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 54

Interval: 3447.00 ft (KB) To 3510.00 ft (KB) (TVD)

Reference Elevations: 2185.00 ft (KB)

Total Depth: 3510.00 ft (KB) (TVD)

2177.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8673

Inside

Press@RunDepth: 63.48 psig @ 3483.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.07 End Date: 2011.08.08

Last Calib.: 2011.08.08

Start Time: 23:01:41 End Time: 04:35:39

Time On Btm 2011.08.08 @ 00:43:54

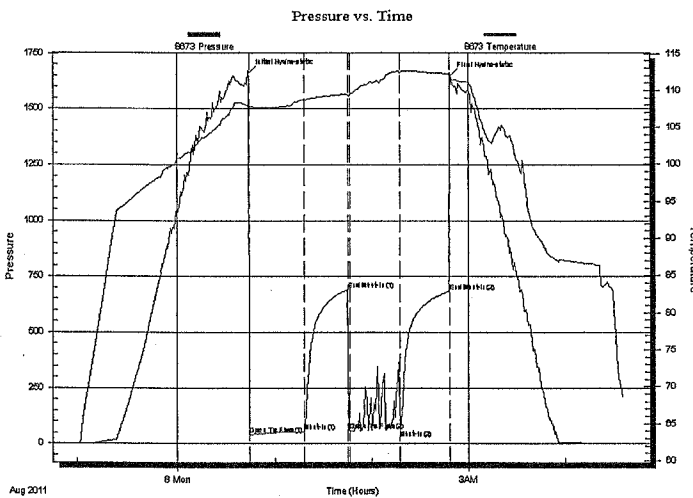
Time Off Btm 2011.08.08 @ 02:48:24

TEST COMMENT: IFP-Weak Surface Blow

ISI-Dead

FFP-Dead

FSI-Dead



PRESSURE SUMMARY

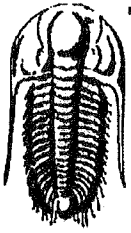
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1662.55	108.24	Initial Hydro-static
1	40.41	107.31	Open To Flow (1)
35	54.86	108.67	Shut-In(1)
62	691.36	109.48	End Shut-In(1)
63	58.17	109.38	Open To Flow (2)
94	63.48	112.30	Shut-In(2)
124	683.11	112.23	End Shut-In(2)
125	1649.31	111.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Drilling Mud	0.36

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Double Ds LLC

Shaw #1

135 E 12th
Hays, KS 67601

15-13s-20w Ellis,KS

Job Ticket: 43555

DST#: 1

ATTN: Al Downing

Test Start: 2011.08.07 @ 23:01:39

Tool Information

Drill Pipe:	Length: 3425.00 ft	Diameter: 3.80 inches	Volume: 48.04 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 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
			<u>Total Volume: 48.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3447.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.00 ft			
Tool Length:	84.00 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			3427.00	
Shut In Tool	5.00			3432.00	
Hydraulic tool	5.00			3437.00	
Packer	5.00			3442.00	21.00 Bottom Of Top Packer
Packer	5.00			3447.00	
Stubb	1.00			3448.00	
Perforations	1.00			3449.00	
Change Over Sub	1.00			3450.00	
Blank Spacing	32.00			3482.00	
Change Over Sub	1.00			3483.00	
Recorder	0.00	8673	Inside	3483.00	
Recorder	0.00	6755	Outside	3483.00	
Perforations	24.00			3507.00	
Bullnose	3.00			3510.00	63.00 Bottom Packers & Anchor

Total Tool Length: 84.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Double Ds LLC

Shaw #1

135 E 12th
Hays, KS 67601

15-13s-20w Ellis, KS

Job Ticket: 43555

DST#: 1

ATTN: Al Downing

Test Start: 2011.08.07 @ 23:01:39

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: 78.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
45.00	Drilling Mud	0.358

Total Length: 45.00 ft

Total Volume: 0.358 bbl

Num Fluid Samples: 0

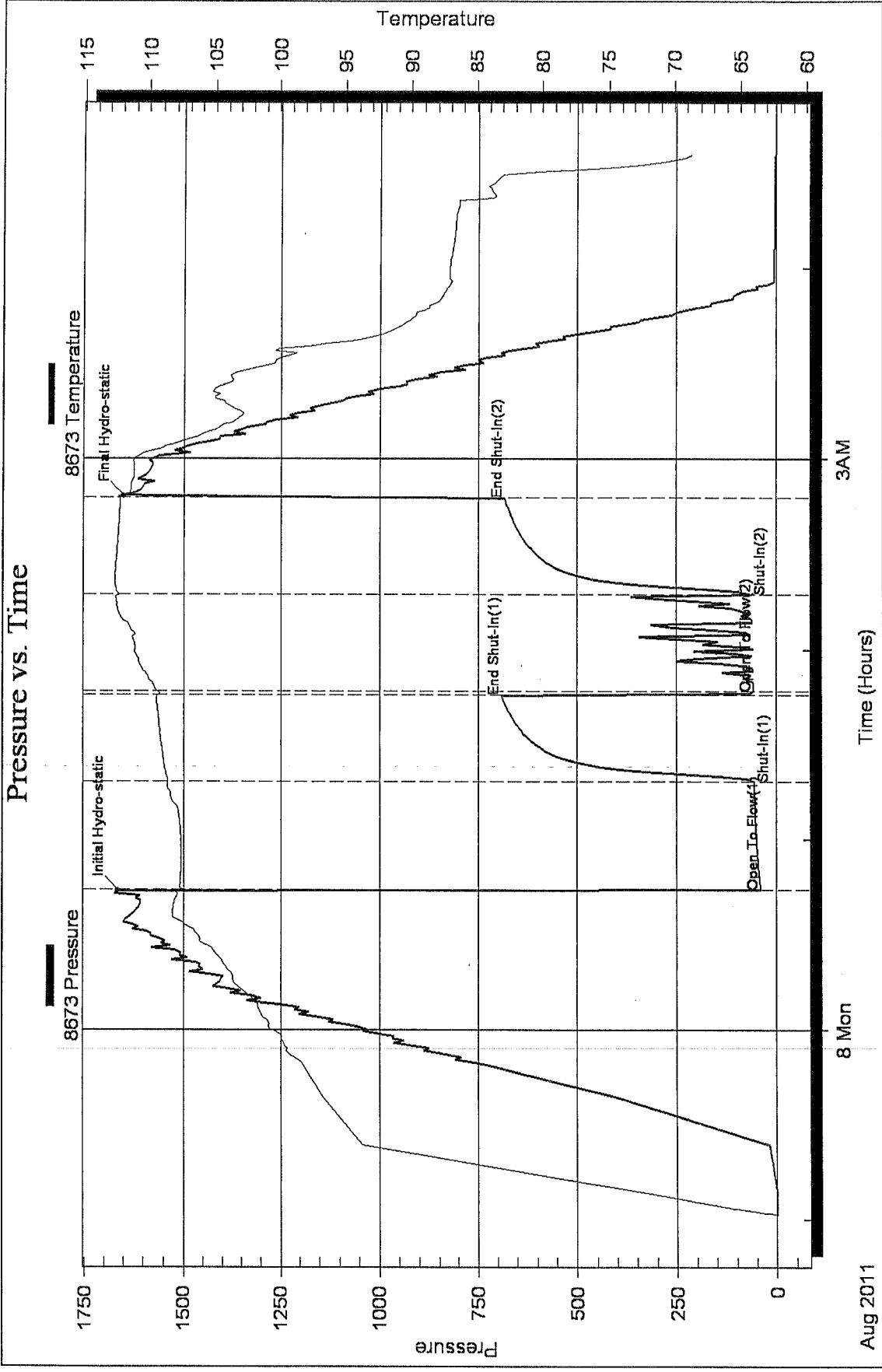
Num Gas Bombs: 0

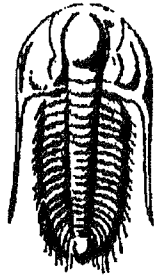
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Double Ds LLC**

135 E 12th
Hays, KS 67601

ATTN: Al Downing

15-13s-20w Ellis,KS

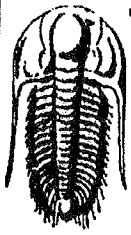
Shaw #1

Start Date: 2011.08.08 @ 11:41:13

End Date: 2011.08.08 @ 16:32:58

Job Ticket #: 43556 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

TOOL DIAGRAM

Double Ds LLC

Shaw #1

135 E 12th
Hays, KS 67601

15-13s-20w Ellis,KS

Job Ticket: 43556

DST#: 2

ATTN: Al Downing

Test Start: 2011.08.08 @ 11:41:13

Tool Information

Drill Pipe:	Length: 3484.00 ft	Diameter: 3.80 inches	Volume: 48.87 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 49.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3504.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	67.00 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			3484.00	
Shut In Tool	5.00			3489.00	
Hydraulic tool	5.00			3494.00	
Packer	5.00			3499.00	21.00 Bottom Of Top Packer
Packer	5.00			3504.00	
Stubb	1.00			3505.00	
Perforations	5.00			3510.00	
Recorder	0.00	8673	Inside	3510.00	
Recorder	0.00	6755	Outside	3510.00	
Perforations	37.00			3547.00	
Bullnose	3.00			3550.00	46.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Double Ds LLC

Shaw #1

135 E 12th
Hays, KS 67601

15-13s-20w Ellis,KS

Job Ticket: 43556

DST#: 2

ATTN: Al Downing

Test Start: 2011.08.08 @ 11:41:13

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: 8.78 in⁹

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Drilling Mud	0.428

Total Length: 50.00 ft

Total Volume: 0.428 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

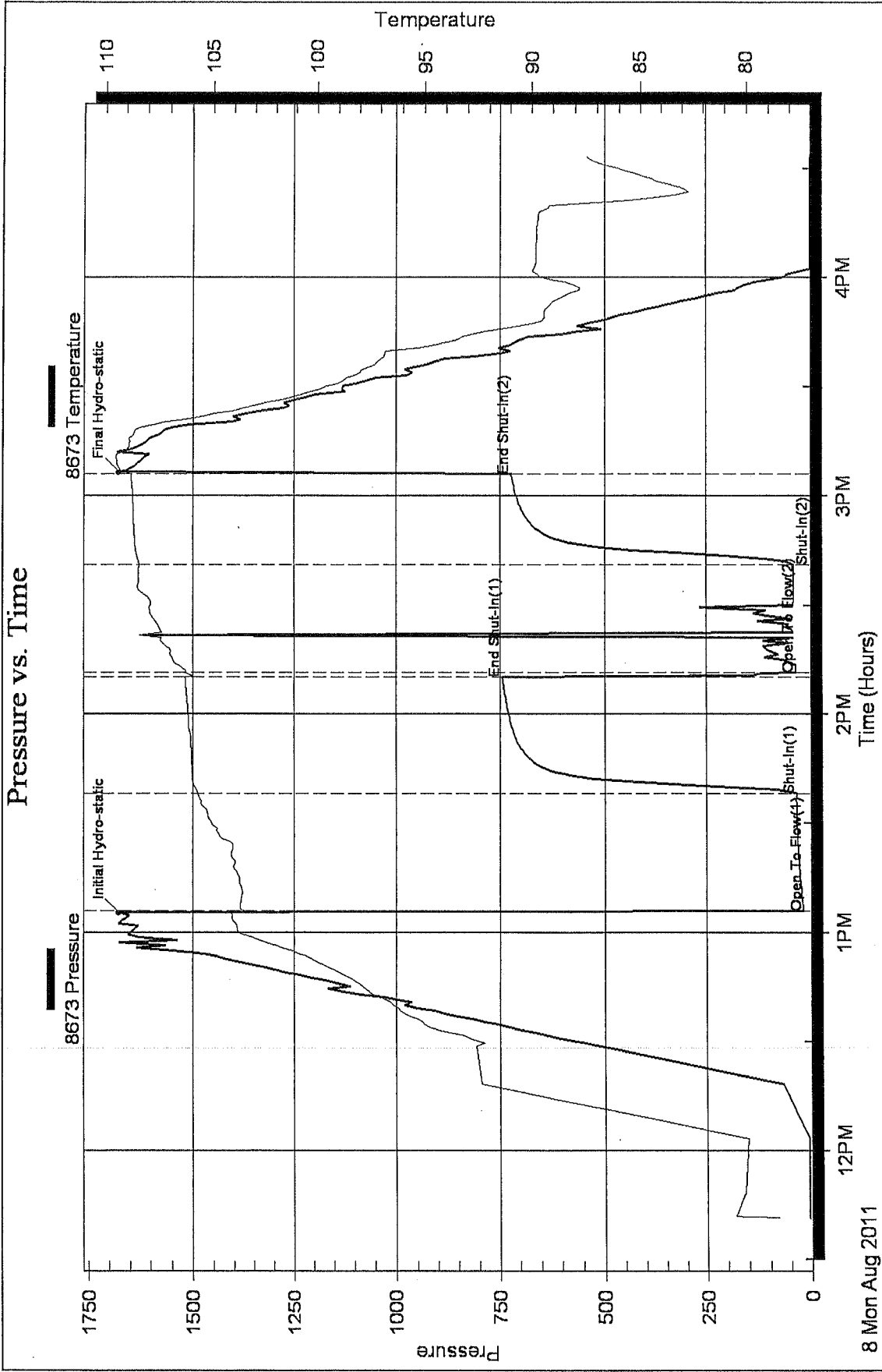
Serial #:

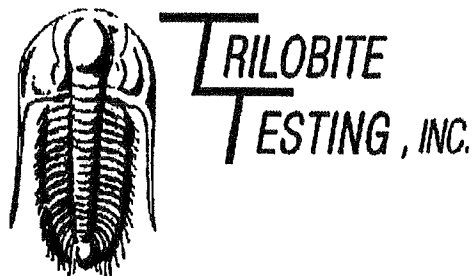
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Double Ds LLC**

135 E 12th
Hays, KS 67601

ATTN: Al Downing

15-13s-20w Ellis,KS

Shaw #1

Start Date: 2011.08.09 @ 02:50:18

End Date: 2011.08.09 @ 09:22:03

Job Ticket #: 43557 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Double Ds LLC

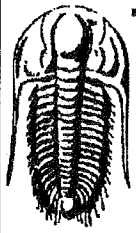
Shaw #1

15-13s-20w Ellis,KS

DST # 3

H-I-J

2011.08.09



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Double Ds LLC

Shaw #1

135 E 12th
Hays, KS 67601

15-13s-20w Ellis,KS

Job Ticket: 43557

DST#: 3

ATTN: Al Downing

Test Start: 2011.08.09 @ 02:50:18

GENERAL INFORMATION:

Formation: **H-I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:38:18

Time Test Ended: 09:22:03

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 54

Interval: **3610.00 ft (KB) To 3680.00 ft (KB) (TVD)**

Reference Elevations: 2185.00 ft (KB)

Total Depth: 3680.00 ft (KB) (TVD)

2177.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8673 Inside

Press@RunDepth: 98.74 psig @ 3647.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.09

End Date:

2011.08.09

Last Calib.:

2011.08.09

Start Time: 02:50:20

End Time:

09:22:03

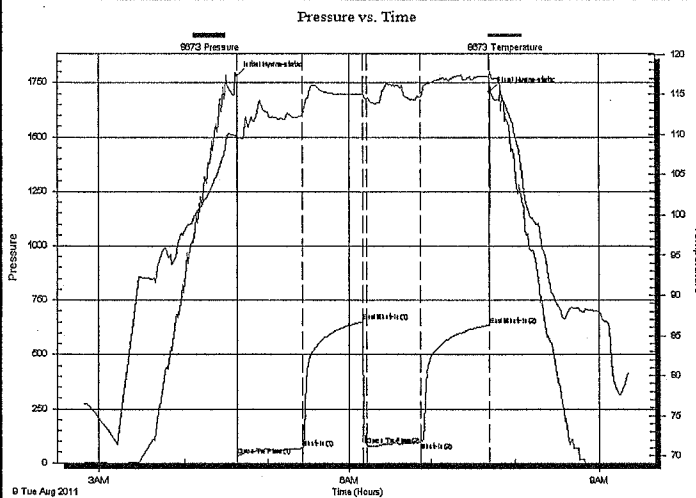
Time On Btm

2011.08.09 @ 04:37:48

Time Off Btm

2011.08.09 @ 07:42:33

TEST COMMENT: IFP-Weak Blow ,Built to 4"
ISI-Dead
FFP-Weak Blow ,Built to 2-1/2"
FSI-Dead



PRESSURE SUMMARY

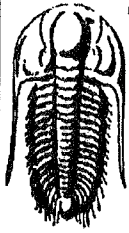
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1783.62	109.99	Initial Hydro-static
1	33.22	109.15	Open To Flow (1)
48	69.12	112.54	Shut-In(1)
93	651.85	115.11	End Shut-In(1)
96	82.27	114.42	Open To Flow (2)
135	98.74	114.66	Shut-In(2)
185	636.32	117.18	End Shut-In(2)
185	1710.41	117.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
135.00	Watery Mud W/Some Oil Specks	1.62

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Double Ds LLC

135 E 12th
Hays, KS 67601

ATTN: Al Downing

Shaw #1

15-13s-20w Ellis,KS

Job Ticket: 43557

DST#: 3

Test Start: 2011.08.09 @ 02:50:18

Tool Information

Drill Pipe:	Length: 3579.00 ft	Diameter: 3.80 inches	Volume: 50.20 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 48000.00 lb
			Total Volume: 50.35 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3610.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	91.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

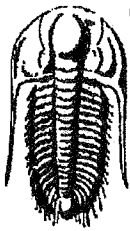
Tool Comments:

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			3590.00	
Shut In Tool	5.00			3595.00	
Hydraulic tool	5.00			3600.00	
Packer	5.00			3605.00	21.00 Bottom Of Top Packer
Packer	5.00			3610.00	
Stubb	1.00			3611.00	
Perforations	3.00			3614.00	
Change Over Sub	1.00			3615.00	
Blank Spacing	31.00			3646.00	
Change Over Sub	1.00			3647.00	
Recorder	0.00	8673	Inside	3647.00	
Recorder	0.00	6755	Outside	3647.00	
Perforations	30.00			3677.00	
Bullnose	3.00			3680.00	70.00 Bottom Packers & Anchor

Total Tool Length: 91.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Double Ds LLC

Shaw #1

135 E 12th
Hays, KS 67601

15-13s-20w Ellis,KS

Job Ticket: 43557

DST#: 3

ATTN: Al Downing

Test Start: 2011.08.09 @ 02:50:18

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:

65000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 in³

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: 0.00 ohm.m

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
135.00	Watery Mud W/Some Oil Specks	1.620

Total Length: 135.00 ft

Total Volume: 1.620 bbl

Num Fluid Samples: 0

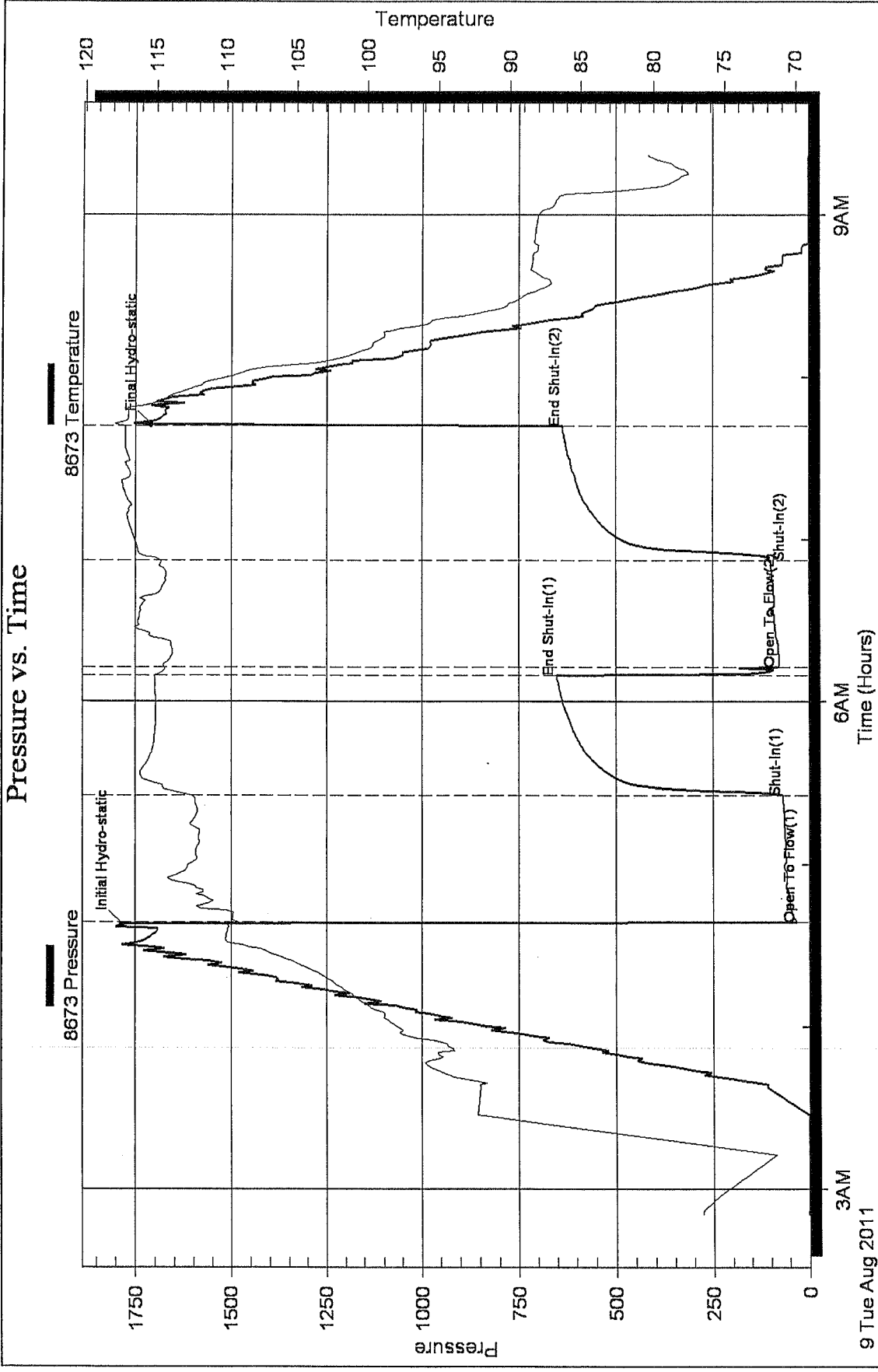
Num Gas Bombs: 0

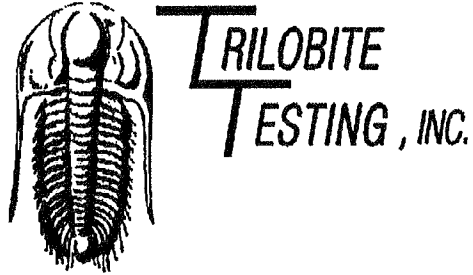
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Double Ds LLC**

135 E 12th
Hays, KS 67601

ATTN: Al Downing

15-13s-20w Ellis,KS

Shaw #1

Start Date: 2011.08.09 @ 16:05:26

End Date: 2011.08.09 @ 19:50:56

Job Ticket #: 43558 DST #: 4

Double Ds LLC

Shaw #1

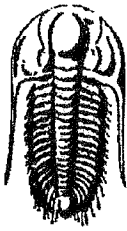
15-13s-20w Ellis,KS

DST # 4

K

2011.08.09

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Double Ds LLC

135 E 12th
Hays, KS 67601

ATTN: Al Downing

Shaw #1

15-13s-20w Ellis,KS

Job Ticket: 43558

DST#: 4

Test Start: 2011.08.09 @ 16:05:26

GENERAL INFORMATION:

Formation: **K**

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

Time Tool Opened: 17:23:26

Time Test Ended: 19:50:56

Test Type: **Conventional Bottom Hole**

Tester: **Jason McLemore**

Unit No: **54**

Interval: **3680.00 ft (KB) To 3713.00 ft (KB) (TVD)**

Total Depth: **3713.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2185.00 ft (KB)**

2177.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 8673

Inside

Press@RunDepth: **25.05 psig @ 3682.00 ft (KB)**

Start Date: **2011.08.09**

End Date:

2011.08.09

Start Time: **16:05:28**

End Time:

19:50:56

Capacity: **8000.00 psig**

Last Calib.: **2011.08.09**

Time On Btm: **2011.08.09 @ 17:23:11**

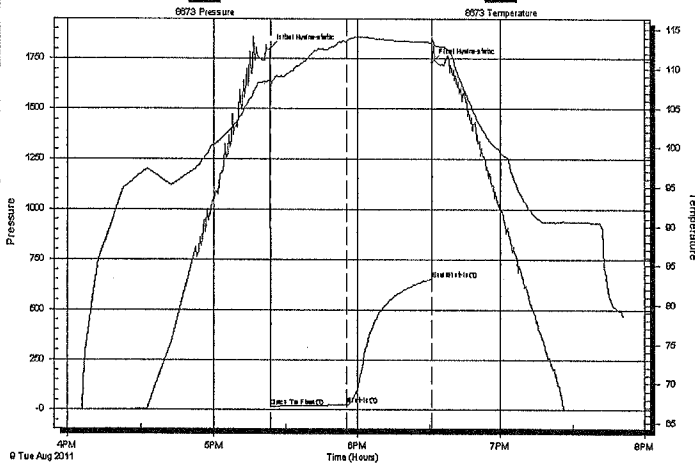
Time Off Btm: **2011.08.09 @ 18:30:56**

TEST COMMENT: **IFF-Weak Blow, Built to 1"**

ISL-Dead

FFP-Pull Tool

Pressure vs. Time



PRESSURE SUMMARY

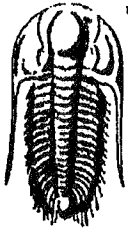
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1797.92	108.56	Initial Hydro-static
1	14.74	107.86	Open To Flow (1)
32	25.05	113.46	Shut-In(1)
68	653.65	113.37	End Shut-In(1)
68	1731.64	113.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud W/Oil Spots	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Double Ds LLC

135 E 12th
Hays, KS 67601

ATTN: Al Downing

Shaw #1

15-13s-20w Ellis, KS

Job Ticket: 43558

DST#: 4

Test Start: 2011.08.09 @ 16:05:26

Tool Information

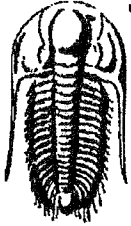
Drill Pipe:	Length: 3639.00 ft	Diameter: 3.80 inches	Volume: 51.05 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 51.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3680.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	54.00 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			3660.00	
Shut In Tool	5.00			3665.00	
Hydraulic tool	5.00			3670.00	
Packer	5.00			3675.00	21.00 Bottom Of Top Packer
Packer	5.00			3680.00	
Stubb	1.00			3681.00	
Perforations	1.00			3682.00	
Recorder	0.00	8673	Inside	3682.00	
Recorder	0.00	6755	Outside	3682.00	
Perforations	28.00			3710.00	
Bullnose	3.00			3713.00	33.00 Bottom Packers & Anchor

Total Tool Length: 54.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Double Ds LLC

Shaw #1

135 E 12th
Hays, KS 67601

15-13s-20w Ellis,KS

Job Ticket: 43558

DST#: 4

ATTN: Al Downing

Test Start: 2011.08.09 @ 16:05:26

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: 8.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud W/Oil Spots	0.010

Total Length: 2.00 ft

Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

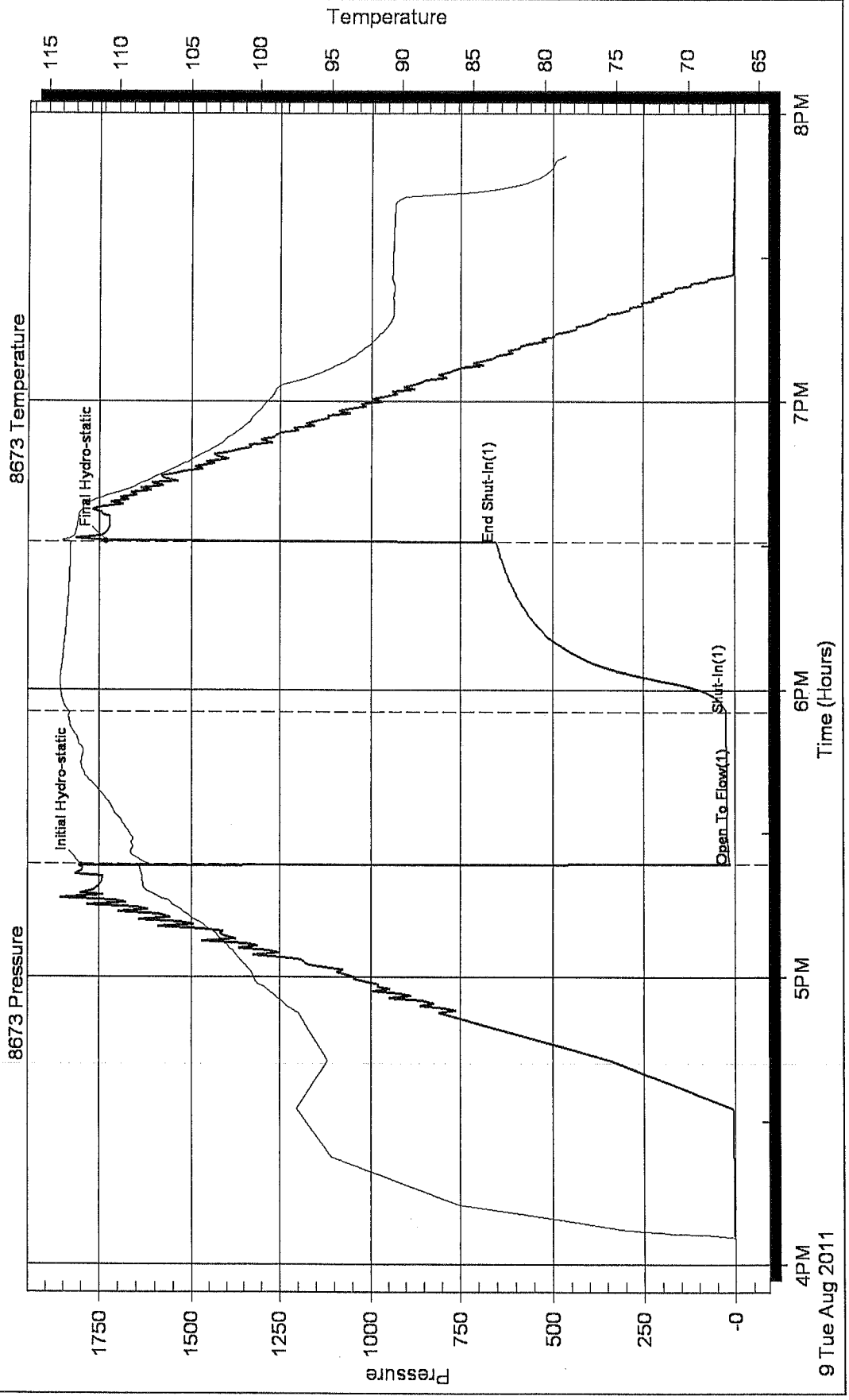
Serial #:

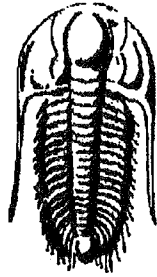
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Double Ds LLC**

135 E 12th
Hays, KS 67601

ATTN: Al Downing

15-13s-20w Ellis,KS

Shaw #1

Start Date: 2011.08.10 @ 15:44:33

End Date: 2011.08.10 @ 21:03:03

Job Ticket #: 43559 DST #: 5

Double Ds LLC

Shaw #1

15-13s-20w Ellis,KS

DST # 5

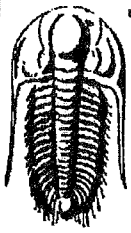
Arbuckle

2011.08.10

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Double Ds LLC

135 E 12th
Hays, KS 67601

ATTN: Al Downing

Shaw #1

15-13s-20w Ellis,KS

Job Ticket: 43559

DST#: 5

Test Start: 2011.08.10 @ 15:44:33

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 16:59:03

Time Test Ended: 21:03:03

Test Type: Conventional Straddle

Tester: Jason McLemore

Unit No: 54

Interval: 3854.00 ft (KB) To 3892.00 ft (KB) (TVD)

Reference Elevations: 2185.00 ft (KB)

Total Depth: 3928.00 ft (KB) (TVD)

2177.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8673 Inside

Press@RunDepth: 208.50 psig @ 3858.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.10

End Date: 2011.08.10

Last Calib.: 2011.08.10

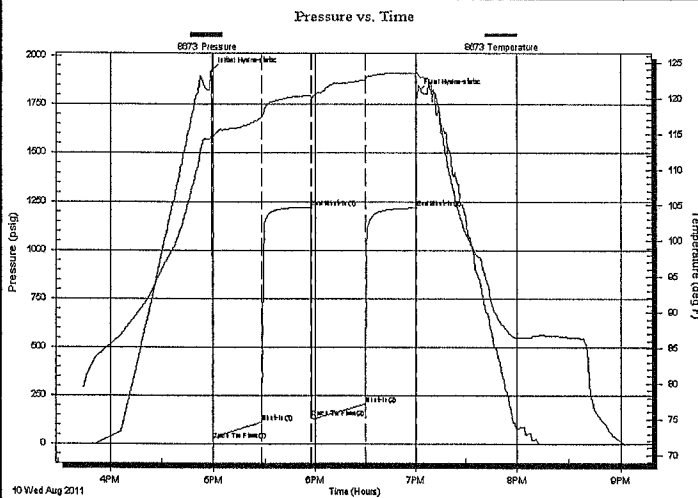
Start Time: 15:44:35

End Time: 21:03:03

Time On Btmr 2011.08.10 @ 16:58:48

Time Off Btmr 2011.08.10 @ 19:00:48

TEST COMMENT: IFP-Good Blow ,BOB in 22 Min.
ISI-Dead
FFP-Good Blow ,BOB in 22 Min.
FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1919.14	114.63	Initial Hydro-static
1	21.84	113.91	Open To Flow (1)
30	112.87	117.37	Shut-In(1)
59	1220.41	120.37	End Shut-In(1)
59	138.62	119.93	Open To Flow (2)
91	208.50	122.62	Shut-In(2)
122	1217.26	123.48	End Shut-In(2)
122	1812.21	123.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
400.00	VSOCCMV-3%O-67W-30%M	5.34
1.00	Free Oil	0.01

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Double Ds LLC

Shaw #1

135 E 12th
Hays, KS 67601

15-13s-20w Ellis, KS

Job Ticket: 43559

DST#: 5

ATTN: Al Downing

Test Start: 2011.08.10 @ 15:44:33

Tool Information

Drill Pipe:	Length: 3829.00 ft	Diameter: 3.80 inches	Volume: 53.71 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 53.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3854.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	3892.00 ft			
Interval between Packers:	38.00 ft			
Tool Length:	100.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	5.00			3834.00	
Shut In Tool	5.00			3839.00	
Hydraulic tool	5.00			3844.00	
Packer	5.00			3849.00	25.00 Bottom Of Top Packer
Packer	5.00			3854.00	
Stubb	1.00			3855.00	
Perforations	3.00			3858.00	
Recorder	0.00	8673	Inside	3858.00	
Recorder	0.00	6755	Outside	3858.00	
Perforations	30.00			3888.00	
Blank Off Sub	1.00			3889.00	
Blank Spacing	3.00			3892.00	38.00 Tool Interval
Packer	1.00			3893.00	
Change Over Sub	1.00			3894.00	
Recorder	0.00	6668	Below	3894.00	
Blank Spacing	31.00			3925.00	
Change Over Sub	1.00			3926.00	
Bullnose	3.00			3929.00	37.00 Bottom Packers & Anchor

Total Tool Length: 100.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Double Ds LLC

Shaw #1

135 E 12th
Hays, KS 67601

15-13s-20w Ellis,KS

Job Ticket: 43559

DST#: 5

ATTN: Al Downing

Test Start: 2011.08.10 @ 15:44:33

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:	32000 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

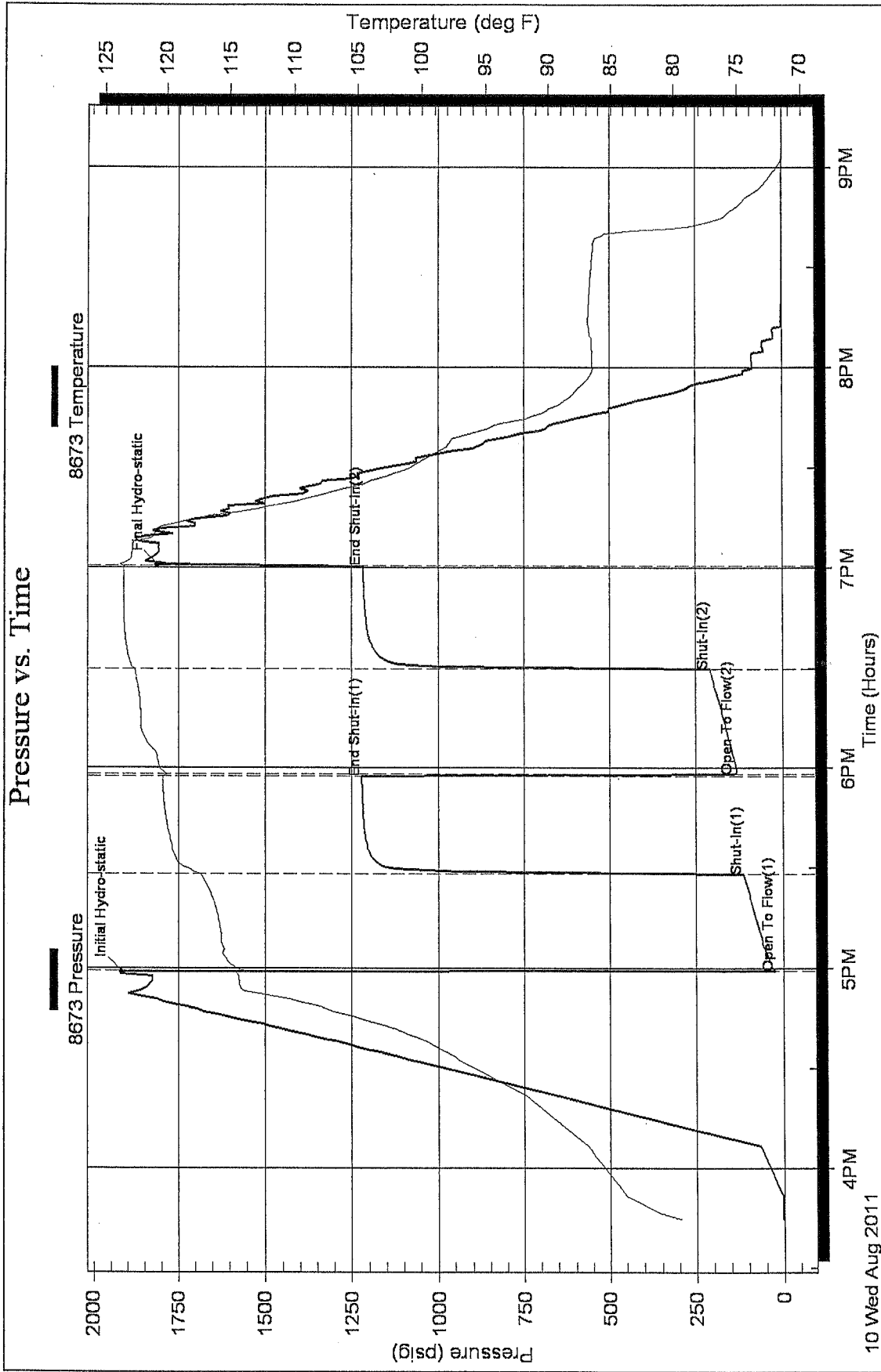
Length ft	Description	Volume bbl
400.00	VSOCMM-3%O-67W-30%M	5.338
1.00	Free Oil	0.014

Total Length: 401.00 ft Total Volume: 5.352 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



Serial #: 6668

Below (Stratellite) Ds LLC

15-13s-20w Ellis, KS

DST Test Number: 5

