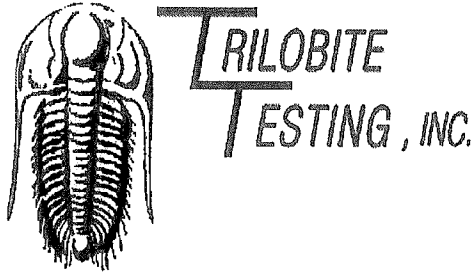


15-163-23872

32-10s-20w

IND



DRILL STEM TEST REPORT

Prepared For: **Tomlinson Operating**
 7154 W State St. PMB 302
 Boise ID 83714

ATTN: Rocky Milford

S32 10S 20W Rooks KS

Keller "B" #1

Start Date: 2010.06.22 @ 08:48:52

End Date: 2010.06.22 @ 15:08:22

Job Ticket #: 38757 DST #: 1

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

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Tomlinson Operating

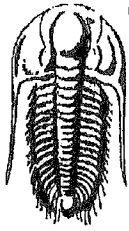
Keller "B" #1

S32 10S 20W Rooks KS

DST # 1

Topeka

2010.06.22



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Tomlinson Operating
7154 W State St. PMB 302
Boise ID 83714
ATTN: Rocky Milford

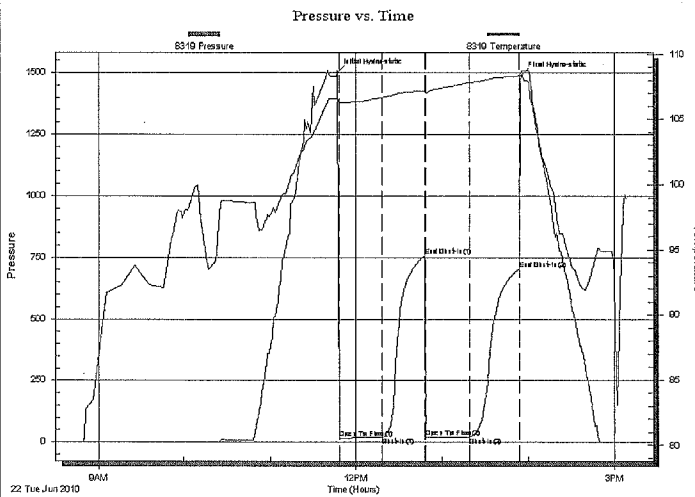
Keller "B" #1
S32 10S 20W Rooks KS
Job Ticket: 38757 DST#: 1
Test Start: 2010.06.22 @ 08:48:52

GENERAL INFORMATION:

Formation: **Topeka**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:48:22
Time Test Ended: 15:08:22
Test Type: Conventional Bottom Hole
Tester: Brett Dickinson
Unit No: 47
Interval: **3175.00 ft (KB) To 3194.00 ft (KB) (TVD)**
Total Depth: 3194.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Reference Elevations: 2123.00 ft (KB)
2118.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8319 **Inside**
Press@RunDepth: 21.59 psig @ 3176.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.06.22 End Date: 2010.06.22 Last Calib.: 2010.06.22
Start Time: 08:48:57 End Time: 15:08:21 Time On Btm: 2010.06.22 @ 11:47:22
Time Off Btm: 2010.06.22 @ 13:55:21

TEST COMMENT: IF-very weak surface blow died in 4.5min
IS-No blow
FF-No blow
FS-No blow



PRESSURE SUMMARY

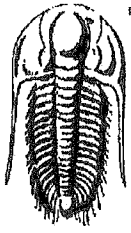
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1501.55	106.68	Initial Hydro-static
1	15.01	106.23	Open To Flow (1)
32	19.76	106.67	Shut-In(1)
61	756.06	107.19	End Shut-In(1)
62	20.78	107.04	Open To Flow (2)
92	21.59	107.84	Shut-In(2)
127	703.68	108.32	End Shut-In(2)
128	1487.64	108.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	oilspotted mud	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tomlinson Operating
7154 W State St. PMB 302
Boise ID 83714

Keller "B" #1

S32 10S 20W Rocks KS

Job Ticket: 38757

DST#: 1

ATTN: Rocky Milford

Test Start: 2010.06.22 @ 08:48:52

Tool Information

Drill Pipe:	Length: 3150.00 ft	Diameter: 3.80 inches	Volume: 44.19 bbl	Tool Weight: 2500.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 44.19 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial 33000.00 lb
Depth to Top Packer:	3175.00 ft			Final 33000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	46.00 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			3149.00	
Shut In Tool	5.00			3154.00	
Hydraulic tool	5.00			3159.00	
Jars	4.00			3163.00	
Safety Joint	3.00			3163.00	
Packer	4.00			3170.00	27.00 Bottom Of Top Packer
Packer	5.00			3175.00	
Stubb	1.00			3176.00	
Recorder	0.00	8319	Inside	3176.00	
Recorder	0.00	6719	Inside	3176.00	
Perforations	15.00			3191.00	
Bullnose	3.00			3194.00	19.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tomlinson Operating

Keller "B" #1

7154 W State St. PMB 302
Boise ID 83714

S32 10S 20W Rooks KS

Job Ticket: 38757

DST#: 1

ATTN: Rocky Milford

Test Start: 2010.06.22 @ 08:48:52

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: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.75 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 bbl
10.00	oilspotted mud	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

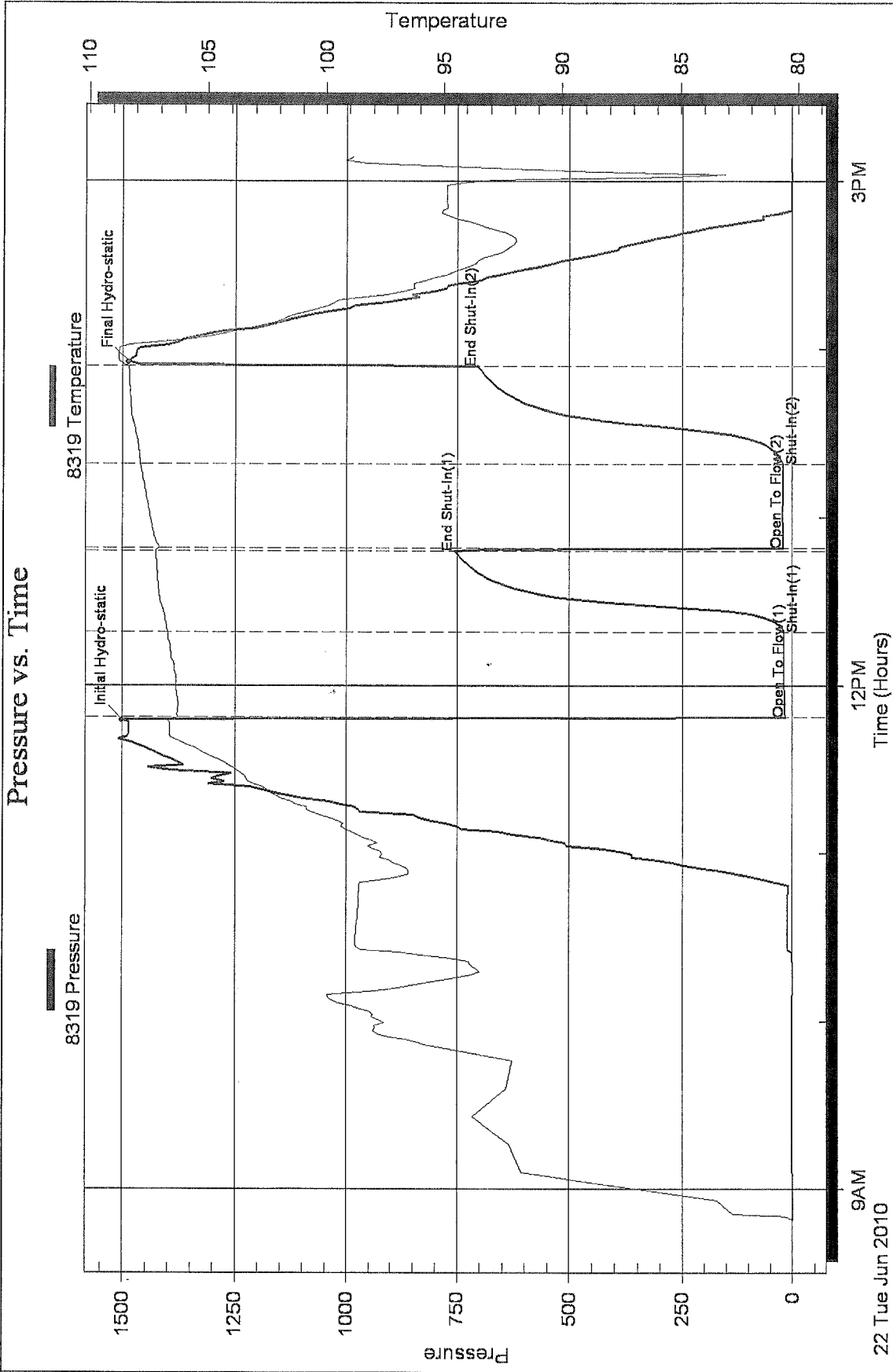
Serial #:

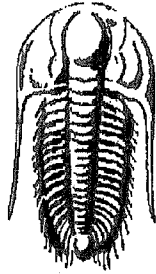
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Tomlinson Operating**

7154 W State St. PMB 302
Boise ID 83714

ATTN: Rocky Milford

S32 10S 20W Rooks KS

Keller "B" #1

Start Date: 2010.06.23 @ 16:05:22

End Date: 2010.06.23 @ 22:42:52

Job Ticket #: 38758 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Tomlinson Operating

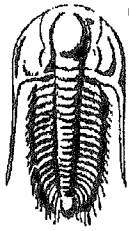
Keller "B" #1

S32 10S 20W Rooks KS

DST # 2

KC "E,F"

2010.06.23



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Tomlinson Operating
7154 W State St. PMB 302
Boise ID 83714
ATTN: Rocky Milford

Keller "B" #1
S32 10S 20W Rooks KS
Job Ticket: 38758 **DST#: 2**
Test Start: 2010.06.23 @ 16:05:22

GENERAL INFORMATION:

Formation: **KC "E,F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:46:22
Time Test Ended: 22:42:52
Interval: **3468.00 ft (KB) To 3492.00 ft (KB) (TVD)**
Total Depth: 3492.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:
Test Type: Conventional Bottom Hole
Tester: Brett Dickinson
Unit No: 47
Reference Elevations: 2123.00 ft (KB)
2118.00 ft (CF)
KB to GR/CF: 5.00 ft

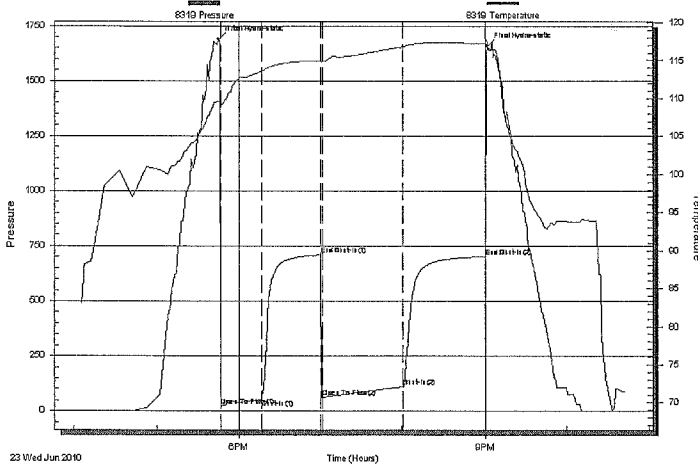
Serial #: 8319

Inside

Press@RunDepth: 109.37 psig @ 3469.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.06.23 End Date: 2010.06.23 Last Calib.: 2010.06.23
Start Time: 16:05:27 End Time: 22:42:51 Time On Btm: 2010.06.23 @ 17:44:52
Time Off Btm: 2010.06.23 @ 21:01:21

TEST COMMENT: IF-.75in blow died back to .5in blow
ISI-No blow
FF-5.5in blow
FSI-very weak surface blow died in 13min

Pressure vs. Time



PRESSURE SUMMARY

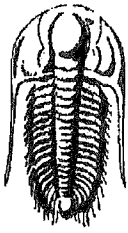
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1687.50	109.58	Initial Hydro-static
2	24.20	109.00	Open To Flow (1)
32	54.05	113.55	Shut-In(1)
76	709.18	115.00	End Shut-In(1)
77	60.37	114.88	Open To Flow (2)
136	109.37	116.82	Shut-In(2)
196	702.08	117.19	End Shut-In(2)
197	1656.39	117.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	SMCW 85%W 15%M	1.68
30.00	Oils cum VSWCM 5%W 95%M	0.42
50.00	VSGO 5%G 95%O	0.70

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tomlinson Operating
7154 W State St. PMB 302
Boise ID 83714
ATTN: Rocky Milford

Keller "B" #1
S32 10S 20W Rooks KS
Job Ticket: 38758 DST#: 2
Test Start: 2010.06.23 @ 16:05:22

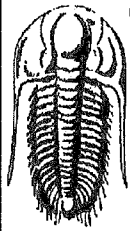
Tool Information

Drill Pipe:	Length: 3459.00 ft	Diameter: 3.80 inches	Volume: 48.52 bbl	Tool Weight: 2500.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 48.52 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3468.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	51.00 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			3442.00	
Shut In Tool	5.00			3447.00	
Hydraulic tool	5.00			3452.00	
Jars	4.00			3456.00	
Safety Joint	3.00			3459.00	
Packer	4.00			3463.00	27.00 Bottom Of Top Packer
Packer	5.00			3468.00	
Stubb	1.00			3469.00	
Recorder	0.00	8319	Inside	3469.00	
Recorder	0.00	6719	Inside	3469.00	
Perforations	20.00			3489.00	
Bullnose	3.00			3492.00	24.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tomlinson Operating
7154 W State St. PMB 302
Boise ID 83714
ATTN: Rocky Milford

Keller "B" #1
S32 10S 20W Rooks KS
Job Ticket: 38758 DST#: 2
Test Start: 2010.06.23 @ 16:05:22

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 38 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 95000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.74 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 2000.00 ppm		
Filter Cake: inches		

Recovery Information

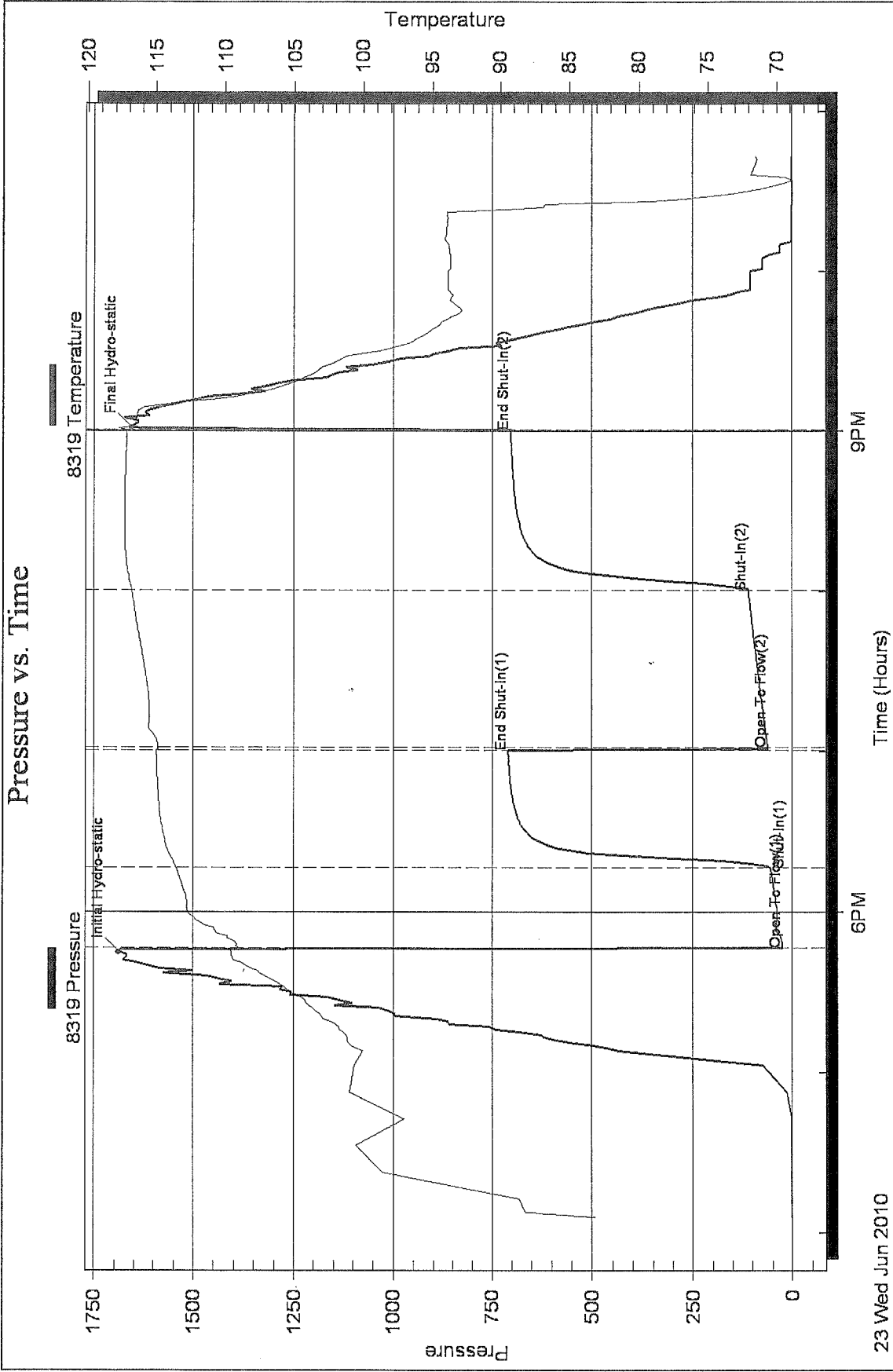
Recovery Table

Length ft	Description	Volume bbl
120.00	SMCW 85%W 15%M	1.683
30.00	OilscumVSWCM 5%W 95%M	0.421
50.00	VSGO 5%G 95%O	0.701

Total Length: 200.00 ft Total Volume: 2.805 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time

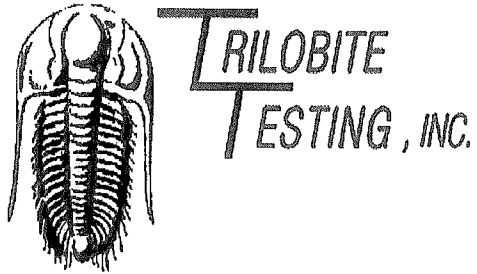


23 Wed Jun 2010

6 PM

9 PM

Time (Hours)



DRILL STEM TEST REPORT

Prepared For: **Tomlinson Operating**
7154 W State St. PMB 302
Boise ID 83714

ATTN: Rocky Milford

S32 10S 20W Rooks KS

Keller "B" #1

Start Date: 2010.06.24 @ 08:41:44

End Date: 2010.06.24 @ 14:11:14

Job Ticket #: 38759 DST #: 3

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Tomlinson Operating
7154 W State St. PMB 302
Boise ID 83714
ATTN: Rocky Milford

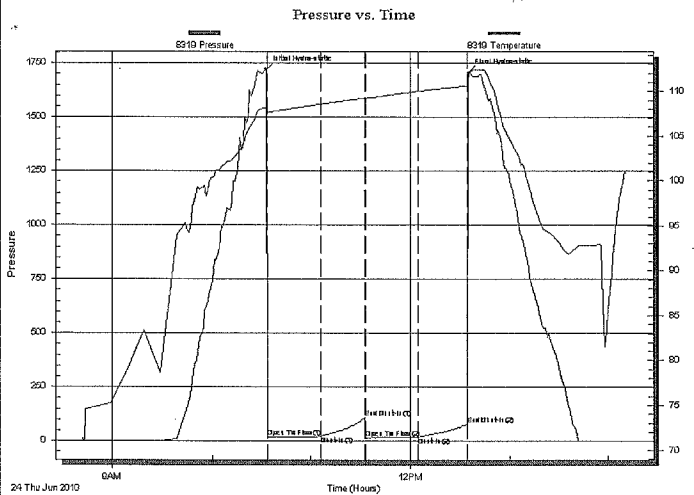
Keller "B" #1
S32 10S 20W Rooks KS
Job Ticket: 38759 DST#: 3
Test Start: 2010.06.24 @ 08:41:44

GENERAL INFORMATION:

Formation: **KC"H,I"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:34:14
Time Test Ended: 14:11:14
Interval: **3520.00 ft (KB) To 3570.00 ft (KB) (TVD)**
Total Depth: 3570.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:
Test Type: Conventional Bottom Hole
Tester: Brett Dickinson
Unit No: 47
Reference Elevations: 2123.00 ft (KB)
2118.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8319 Inside
Press@RunDepth: 20.60 psig @ 3521.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.06.24 End Date: 2010.06.24 Last Calib.: 2010.06.24
Start Time: 08:41:49 End Time: 14:11:13 Time On Btm: 2010.06.24 @ 10:33:14
Time Off Btm: 2010.06.24 @ 12:35:14

TEST COMMENT: IF-Very weak surface blow died in 17min
ISI-No blow
FF-Very weak surface blow died in 19min
FSI-No blow



PRESSURE SUMMARY

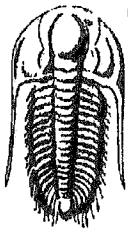
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1720.47	108.11	Initial Hydro-static
1	18.46	107.71	Open To Flow (1)
34	24.96	108.55	Shut-In(1)
60	106.46	109.21	End Shut-In(1)
60	12.95	109.20	Open To Flow (2)
92	20.60	109.99	Shut-In(2)
121	77.20	110.59	End Shut-In(2)
122	1705.29	111.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	V5OWCM 5%O 5%W 90%M	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

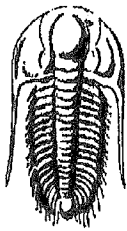
Tomlinson Operating
7154 W State St. PMB 302
Boise ID 83714
ATTN: Rocky Milford

Keller "B" #1
S32 10S 20W Rooks KS
Job Ticket: 38759 **DST#: 3**
Test Start: 2010.06.24 @ 08:41:44

Tool Information

Drill Pipe:	Length: 3520.00 ft	Diameter: 3.80 inches	Volume: 49.38 bbl	Tool Weight: 2500.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 49.38 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3520.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	77.00 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			3494.00	
Shut In Tool	5.00			3499.00	
Hydraulic tool	5.00			3504.00	
Jars	4.00			3508.00	
Safety Joint	3.00			3511.00	
Packer	4.00			3515.00	27.00 Bottom Of Top Packer
Packer	5.00			3520.00	
Stubb	1.00			3521.00	
Recorder	0.00	8319	Inside	3521.00	
Recorder	0.00	6719	Inside	3521.00	
Perforations	2.00			3523.00	
Change Over Sub	1.00			3524.00	
Drill Pipe	32.00			3556.00	
Change Over Sub	1.00			3557.00	
Perforations	10.00			3567.00	
Bullnose	3.00			3570.00	50.00 Bottom Packers & Anchor
Total Tool Length:	77.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tomlinson Operating
7154 W State St. PMB 302
Boise ID 83714
ATTN: Rocky Milford

Keller "B" #1
S32 10S 20W Rooks KS
Job Ticket: 38759 **DST#: 3**
Test Start: 2010.06.24 @ 08:41:44

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.58 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3200.00 ppm			
Filter Cake: inches			

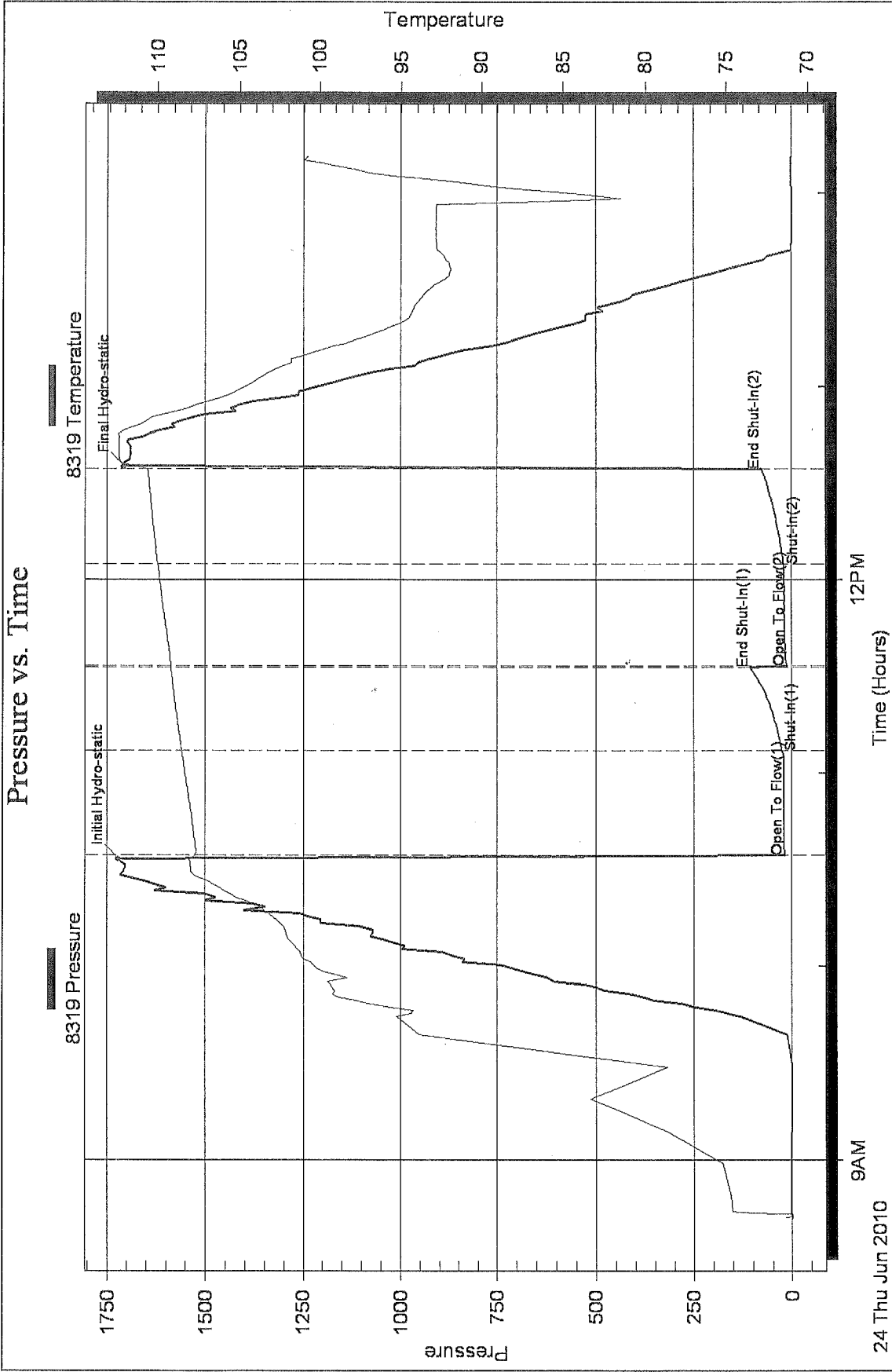
Recovery Information

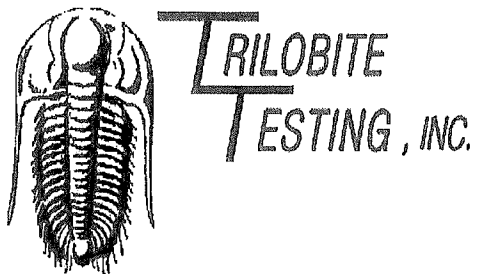
Recovery Table

Length ft	Description	Volume bbl
10.00	V SOWCM 5%O 5%W 90%M	0.140

Total Length: 10.00 ft Total Volume: 0.140 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: **Tomlinson Operating**

7154 W State St. PMB 302
Boise ID 83714

ATTN: Rocky Milford

S32 10S 20W Rooks KS

Keller "B" #1

Start Date: 2010.06.24 @ 23:45:24

End Date: 2010.06.25 @ 06:12:24

Job Ticket #: 38760 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Tomlinson Operating

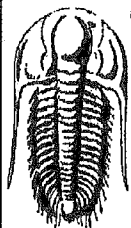
Keller "B" #1

S32 10S 20W Rooks KS

DST # 4

KC"J-L"

2010.06.24



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tomlinson Operating
7154 W State St. PMB 302
Boise ID 83714
ATTN: Rocky Milford

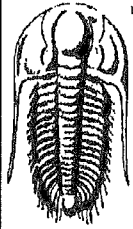
Keller "B" #1
S32 10S 20W Rooks KS
Job Ticket: 38760 DST#: 4
Test Start: 2010.06.24 @ 23:45:24

Tool Information

Drill Pipe:	Length: 3552.00 ft	Diameter: 3.80 inches	Volume: 49.83 bbl	Tool Weight: 2500.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
		Total Volume:	49.83 bbl	Tool Chased: ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3566.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	86.00 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			3540.00	
Shut In Tool	5.00			3545.00	
Hydraulic tool	5.00			3550.00	
Jars	4.00			3554.00	
Safety Joint	3.00			3557.00	
Packer	4.00			3561.00	27.00 Bottom Of Top Packer
Packer	5.00			3566.00	
Stubb	1.00			3567.00	
Recorder	0.00	8319	Inside	3567.00	
Recorder	0.00	6719	Inside	3567.00	
Perforations	21.00			3588.00	
Change Over Sub	1.00			3589.00	
Drill Pipe	32.00			3621.00	
Change Over Sub	1.00			3622.00	
Bullnose	3.00			3625.00	59.00 Bottom Packers & Anchor
Total Tool Length:	86.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tomlinson Operating
7154 W State St. PMB 302
Boise ID 83714
ATTN: Rocky Milford

Keller "B" #1
S32 10S 20W Rooks KS
Job Ticket: 38760 DST#: 4
Test Start: 2010.06.24 @ 23:45:24

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.58 in ³	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
15.00	SOCM 10%O 90%M	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8319

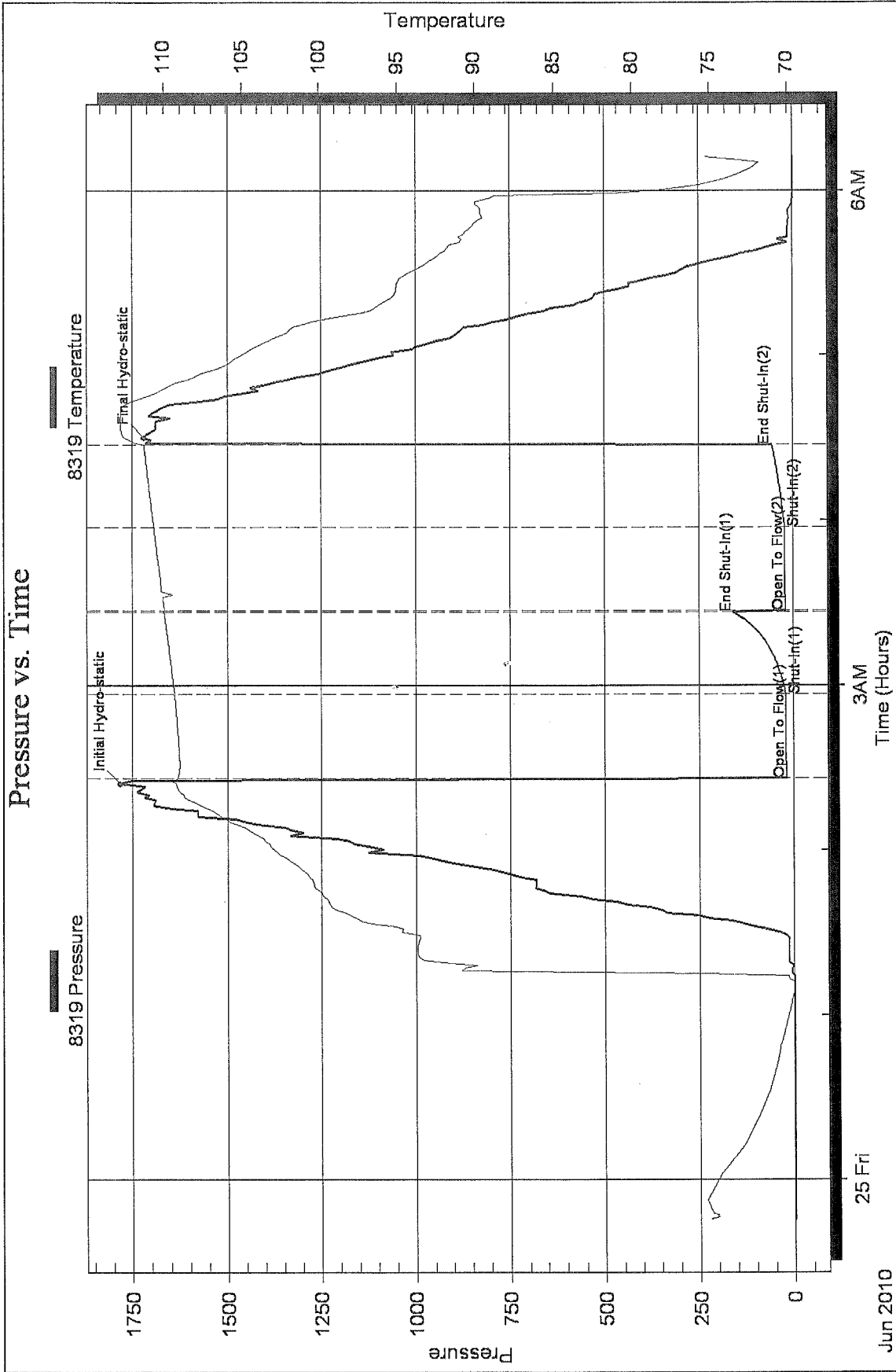
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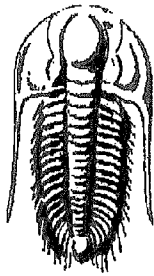
Tomlinson Operating

S32 10S 20W Rooks KS

DST Test Number: 4

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Tomlinson Operating**

7154 W State St. PMB 302
Boise ID 83714

ATTN: Rocky Milford

S32 10S 20W Rooks KS

Keller "B" #1

Start Date: 2010.06.25 @ 15:45:15

End Date: 2010.06.25 @ 23:02:45

Job Ticket #: 38761 DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Tomlinson Operating

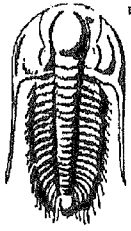
Keller "B" #1

S32 10S 20W Rooks KS

DST # 5

Artb.

2010.06.25



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Tomlinson Operating
7154 W State St. PMB 302
Boise ID 83714
ATTN: Rocky Milford

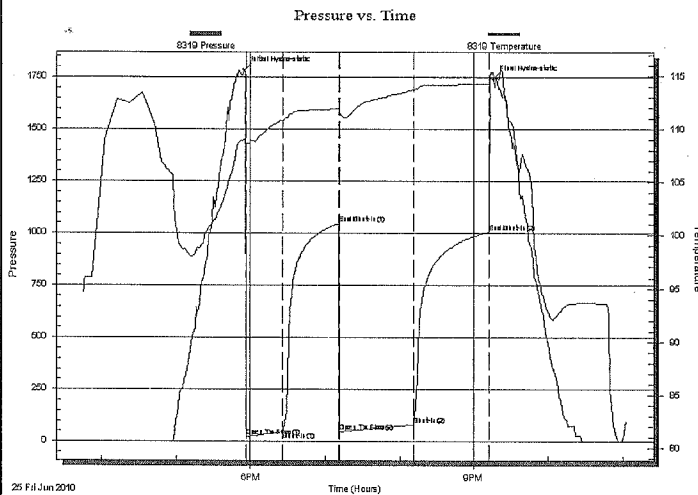
Keller "B" #1
S32 10S 20W Rooks KS
Job Ticket: 38761 DST#: 5
Test Start: 2010.06.25 @ 15:45:15

GENERAL INFORMATION:

Formation: Arb.
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:56:15
Time Test Ended: 23:02:45
Interval: 3618.00 ft (KB) To 3699.00 ft (KB) (TVD)
Total Depth: 3699.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:
Test Type: Conventional Bottom Hole
Tester: Brett Dickinson
Unit No: 47
Reference Elevations: 2123.00 ft (KB)
2118.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8319 Inside
Press@RunDepth: 80.26 psig @ 3619.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.06.25 End Date: 2010.06.25 Last Calib.: 2010.06.25
Start Time: 15:45:20 End Time: 23:02:44 Time On Btm: 2010.06.25 @ 17:54:45
Time Off Btm: 2010.06.25 @ 21:15:15

TEST COMMENT: IF-6.5in
ISI-No blow
FF-7in blow
FSI-very weak surface blow died in 14min



PRESSURE SUMMARY

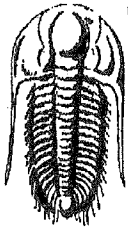
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1783.81	108.99	Initial Hydro-static
2	22.04	108.44	Open To Flow (1)
32	45.95	110.83	Shut-In(1)
76	1046.27	111.93	End Shut-In(1)
77	46.93	111.61	Open To Flow (2)
136	80.26	113.72	Shut-In(2)
197	1005.32	114.31	End Shut-In(2)
201	1741.57	115.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	Free Oil 95% O 5% G	1.05
75.00	MCO 65% O 35% M	1.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tomlinson Operating
7154 W State St. PMB 302
Boise ID 83714

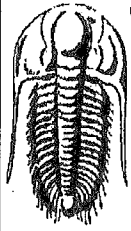
ATTN: Rocky Milford

Keller "B" #1
S32 10S 20W Rooks KS
Job Ticket: 38761 **DST#: 5**
Test Start: 2010.06.25 @ 15:45:15

Tool Information

Drill Pipe:	Length: 3614.00 ft	Diameter: 3.80 inches	Volume: 50.69 bbl	Tool Weight: 2500.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 50.69 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3618.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.00 ft			
Tool Length:	108.00 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			3592.00	
Shut In Tool	5.00			3597.00	
Hydraulic tool	5.00			3602.00	
Jars	4.00			3606.00	
Safety Joint	3.00			3609.00	
Packer	4.00			3613.00	27.00 Bottom Of Top Packer
Packer	5.00			3618.00	
Stubb	1.00			3619.00	
Recorder	0.00	8319	Inside	3619.00	
Recorder	0.00	6719	Inside	3619.00	
Perforations	1.00			3620.00	
Change Over Sub	1.00			3621.00	
Drill Pipe	61.00			3682.00	
Change Over Sub	1.00			3683.00	
Perforations	13.00			3696.00	
Bullnose	3.00			3699.00	81.00 Bottom Packers & Anchor
Total Tool Length:		108.00			



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tomlinson Operating

Keller "B" #1

7154 W State St. PMB 302
Boise ID 83714

S32 10S 20W Rooks KS

Job Ticket: 38761

DST#: 5

ATTN: Rocky Milford

Test Start: 2010.06.25 @ 15:45:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
75.00	FreeOil 95%o 5%G	1.052
75.00	MCO 65%O 35%M	1.052

Total Length: 150.00 ft Total Volume: 2.104 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

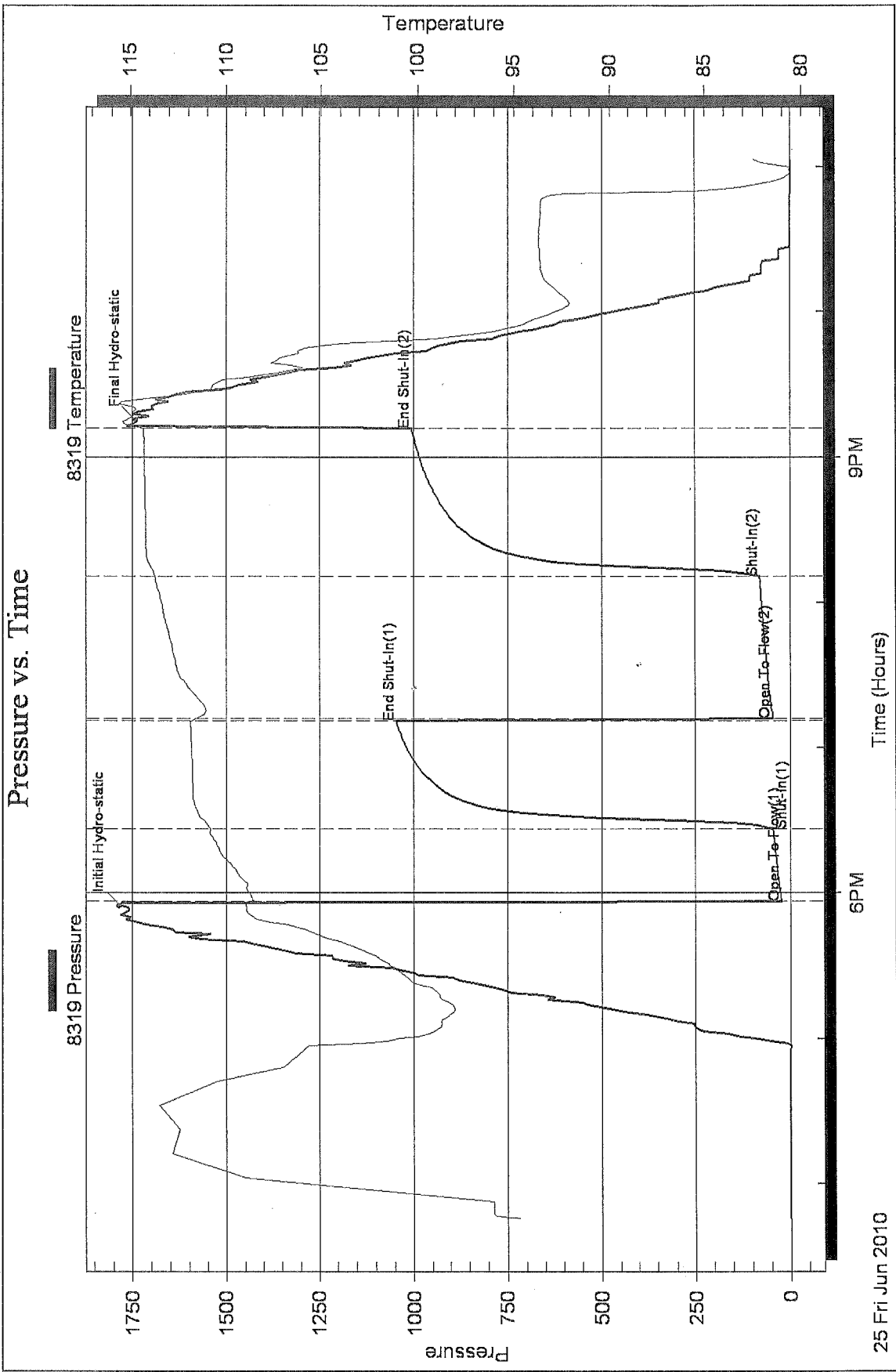
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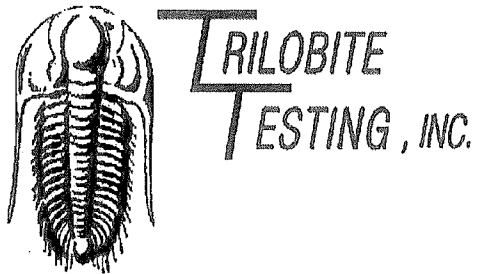
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Tomlinson Operating**

7154 W State St. PMB 302
Boise ID 83714

ATTN: Rocky Milford

S32 10S 20W Rooks KS

Keller "B" #1

Start Date: 2010.06.26 @ 06:40:24

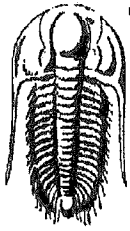
End Date: 2010.06.26 @ 14:05:24

Job Ticket #: 38762 DST #: 6

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Tomlinson Operating
7154 W State St. PMB 302
Boise ID 83714
ATTN: Rocky Milford

Keller "B" #1
S32 10S 20W Rooks KS
Job Ticket: 38762 **DST#: 6**
Test Start: 2010.06.26 @ 06:40:24

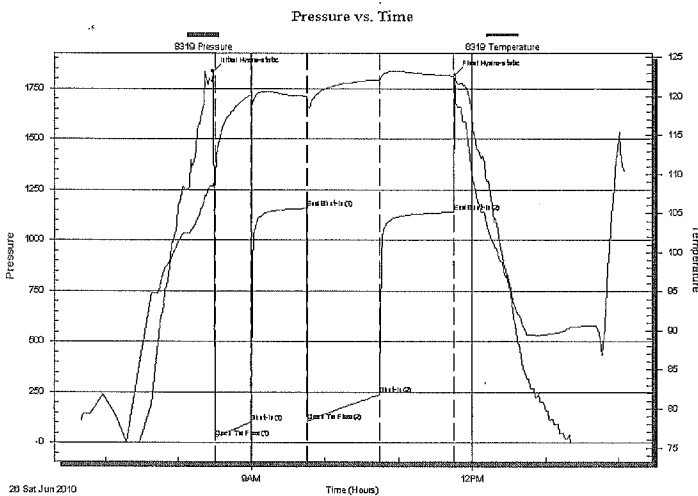
GENERAL INFORMATION:

Formation: **Arb.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:29:54
Time Test Ended: 14:05:24
Interval: **3699.00 ft (KB) To 3715.00 ft (KB) (TVD)**
Total Depth: 3715.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 5.00 ft

Test Type: Conventional Bottom Hole
Tester: Brett Dickinson
Unit No: 47
Reference Elevations: 2123.00 ft (KB)
2118.00 ft (CF)

Serial #: 8319 Inside
Press@RunDepth: 238.34 psig @ 3700.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.06.26 End Date: 2010.06.26 Last Calib.: 2010.06.26
Start Time: 06:40:29 End Time: 14:05:23 Time On Btm: 2010.06.26 @ 08:28:24
Time Off Btm: 2010.06.26 @ 11:46:23

TEST COMMENT: IF-BOB in 10.5min
ISI-3.5in blow
FF-BOB in 41min
FSI weak surface blow



PRESSURE SUMMARY

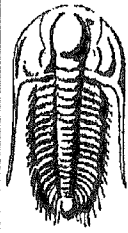
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1835.66	108.51	Initial Hydro-static
2	26.55	109.34	Open To Flow (1)
31	101.06	120.17	Shut-In(1)
77	1157.11	120.03	End Shut-In(1)
78	107.35	118.73	Open To Flow (2)
136	238.34	122.10	Shut-In(2)
197	1139.54	122.61	End Shut-In(2)
198	1820.35	120.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCO 15%G 50%O 35%M	0.84
520.00	GO 20%G 80%O	7.29
0.00	90ft GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tomlinson Operating
7154 W State St. PMB 302
Boise ID 83714
ATTN: Rocky Milford

Keller "B" #1
S32 10S 20W Rooks KS
Job Ticket: 38762 DST#: 6
Test Start: 2010.06.26 @ 06:40:24

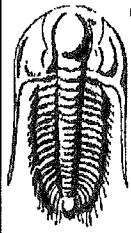
Tool Information

Drill Pipe:	Length: 3676.00 ft	Diameter: 3.80 inches	Volume: 51.56 bbl	Tool Weight: 2500.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 51.56 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3699.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	43.00 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			3673.00	
Shut In Tool	5.00			3678.00	
Hydraulic tool	5.00			3683.00	
Jars	4.00			3687.00	
Safety Joint	3.00			3690.00	
Packer	4.00			3694.00	27.00 Bottom Of Top Packer
Packer	5.00			3699.00	
Stubb	1.00			3700.00	
Recorder	0.00	8319	Inside	3700.00	
Recorder	0.00	6719	Inside	3700.00	
Perforations	12.00			3712.00	
Bullnose	3.00			3715.00	16.00 Bottom Packers & Anchor

Total Tool Length: 43.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Tomlinson Operating
7154 W State St. PMB 302
Boise ID 83714
ATTN: Rocky Milford

Keller "B" #1
S32 10S 20W Rooks KS
Job Ticket: 38762 DST#: 6
Test Start: 2010.06.26 @ 06:40:24

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	36 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.75 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GMCO 15%G 50%O 35%M	0.842
520.00	GO 20%G 80%O	7.294
0.00	90ft GIP	0.000

Total Length: 580.00 ft Total Volume: 8.136 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time

