

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Buffalo Resources**

301 Commerce St.
Ste 1380
Ft. Worth, TX 76102

KGS LIBRARY

15-167-23422

ATTN: David Barker

6 14S 11W Russell KS

Stricker #1-6

Start Date: 2010.04.18 @ 07:25:40

End Date: 2010.04.18 @ 14:23:10

Job Ticket #: 37261 DST #: 1

**KCC
JUN 10 2010
CONFIDENTIAL**

**RECEIVED
KANSAS CORPORATION COMMISSION
JUN 15 2010
CONSERVATION DIVISION
WICHITA, KS**

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

Buffalo Resources

Stricker #1-6

6 14S 11W Russell KS

DST # 1

LKC

2010.04.18

00-14s-11w



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Buffalo Resources
301 Commerce St.
Ste 1380
Ft. Worth, TX 76102
ATTN: David Barker

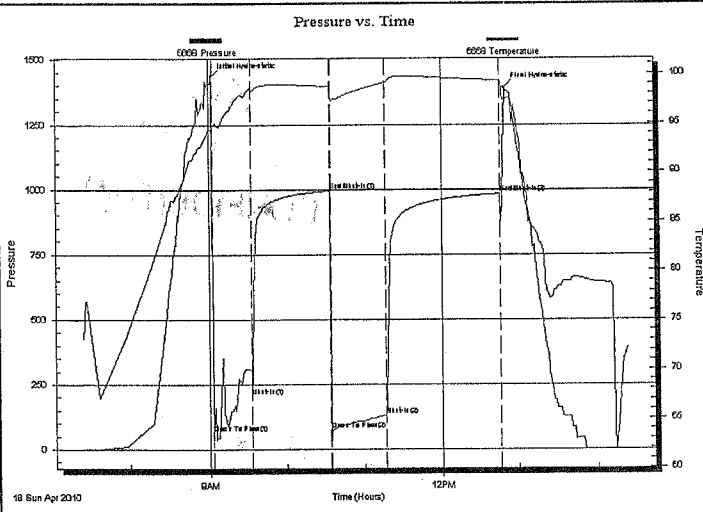
Stricker #1-6
6 14S 11W Russell KS
Job Ticket: 37261 DST#: 1
Test Start: 2010.04.18 @ 07:25:40

GENERAL INFORMATION:

Formation: **LKC**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:03:10
Time Test Ended: 14:23:10
Test Type: Conventional Bottom Hole
Tester: Tyson Flax
Unit No: 44
Interval: **2929.00 ft (KB) To 2954.00 ft (KB) (TVD)**
Reference Elevations: 1797.00 ft (KB)
Total Depth: 2954.00 ft (KB) (TVD) 1789.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 6668 Inside
Press@RunDepth: 132.37 psig @ 2935.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.04.18 End Date: 2010.04.18 Last Calib.: 2010.04.18
Start Time: 07:25:41 End Time: 14:23:10 Time On Btm: 2010.04.18 @ 09:02:10
Time Off Btm: 2010.04.18 @ 12:49:10

TEST COMMENT: IFP-BOB in 2 min
ISI-Weak blow back built to 5" died to 3"
FFP-BOB in 1 min GTS in 35 min
FSI-Weak blow back throughout



PRESSURE SUMMARY

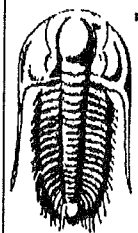
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1435.05	94.27	Initial Hydro-static
1	61.85	94.50	Open To Flow (1)
31	203.66	98.33	Shut-In(1)
92	994.72	98.66	End Shut-In(1)
92	73.53	97.55	Open To Flow (2)
135	132.37	99.06	Shut-In(2)
224	983.15	99.26	End Shut-In(2)
227	1391.94	97.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
105.00	GMCO 40%G,40%O,20%M	1.49
200.00	GCO 40%G,60%O	2.84
10.00	MW	0.14
0.00	GTS	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Buffalo Resources

Stricker #1-6

301 Commerce St.
Ste 1380
Ft. Worth, TX 76102
ATTN: David Barker

6 14S 11W Russell KS
Job Ticket: 37261 DST#: 1
Test Start: 2010.04.18 @ 07:25:40

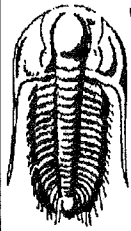
Tool Information

Drill Pipe:	Length: 2905.00 ft	Diameter: 3.82 inches	Volume: 41.18 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 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: 65000.00 lb
			<u>Total Volume: 41.18 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	2929.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	53.00 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			2902.00	
Shut In Tool	5.00			2907.00	
Hydraulic tool	5.00			2912.00	
Jars	5.00			2917.00	
Safety Joint	2.00			2919.00	
Packer	5.00			2924.00	28.00 Bottom Of Top Packer
Packer	5.00			2929.00	
Stubb	1.00			2930.00	
Perforations	5.00			2935.00	
Recorder	0.00	6668	Inside	2935.00	
Recorder	0.00	6669	Outside	2935.00	
Perforations	16.00			2951.00	
Bullnose	3.00			2954.00	25.00 Bottom Packers & Anchor

Total Tool Length: 53.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Buffalo Resources

Stricker #1-6

301 Commerce St.
Ste 1380
Ft. Worth, TX 76102
ATTN: David Barker

6 14S 11W Russell KS
Job Ticket: 37261 **DST#: 1**
Test Start: 2010.04.18 @ 07:25:40

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 42 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.98 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 2500.00 ppm		
Filter Cake: inches		

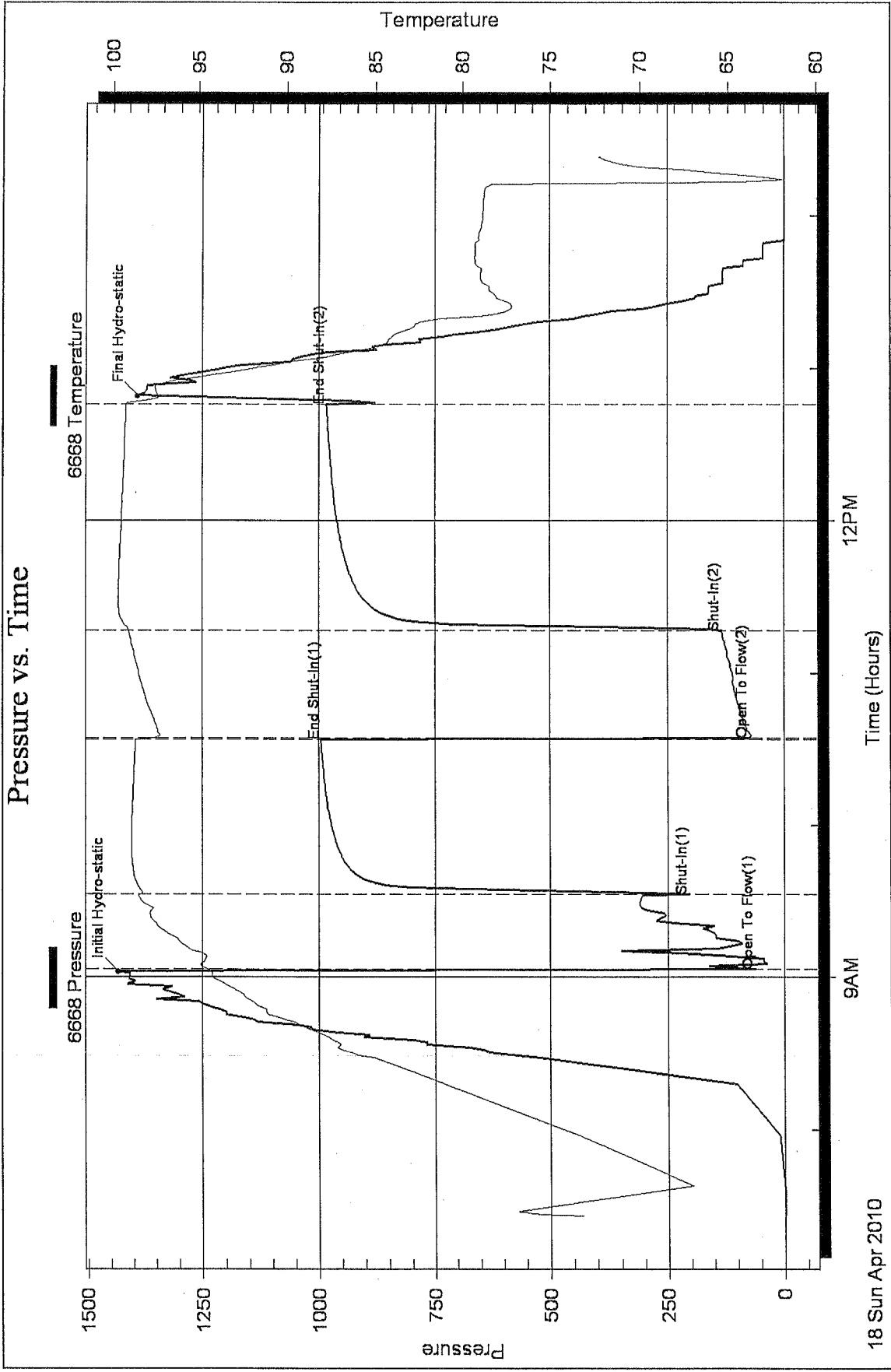
Recovery Information

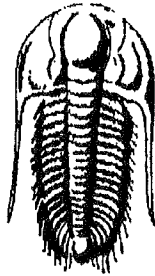
Recovery Table

Length ft	Description	Volume bbl
105.00	GMCO 40%G,40%O,20%M	1.488
200.00	GCO 40%G,60%O	2.835
10.00	MW	0.142
0.00	GTS	0.000

Total Length: 315.00 ft Total Volume: 4.465 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time





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DRILL STEM TEST REPORT

Prepared For: **Buffalo Resources**

301 Commerce St.
Ste 1380
Ft. Worth, TX 76102

ATTN: David Barker

6 14S 11W Russell KS

Stricker #1-6

Start Date: 2010.04.18 @ 22:47:34

End Date: 2010.04.19 @ 05:20:34

Job Ticket #: 37262 DST #: 2

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



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DRILL STEM TEST REPORT

Buffalo Resources
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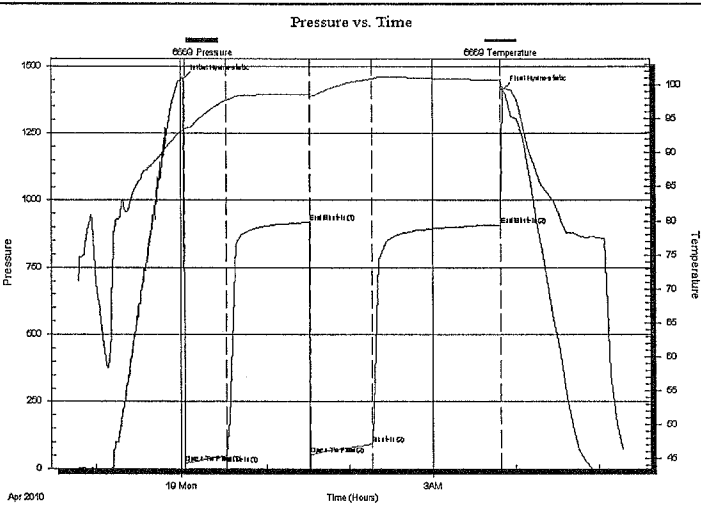
Stricker #1-6
6 14S 11W Russell KS
Job Ticket: 37262 **DST#: 2**
Test Start: 2010.04.18 @ 22:47:34

GENERAL INFORMATION:

Formation: **LKC**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:02:34
Time Test Ended: 05:20:34
Test Type: Conventional Bottom Hole
Tester: Tyson Flax
Unit No: 44
Interval: **2985.00 ft (KB) To 3000.00 ft (KB) (TVD)**
Total Depth: 3000.00 ft (KB) (TVD)
Reference Elevations: 1797.00 ft (KB)
1789.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good
KB to GR/CF: 8.00 ft

Serial #: 6669 Outside
Press@RunDepth: 93.16 psig @ 2986.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.04.18 End Date: 2010.04.19 Last Calib.: 2010.04.19
Start Time: 22:47:35 End Time: 05:20:34 Time On Btm: 2010.04.19 @ 00:01:34
Time Off Btm: 2010.04.19 @ 03:50:34

TEST COMMENT: IFP-Weak blow built to 9"
ISI-no blow back
FFP-BOB in 32 min
FSI-Weak surface blow back died in 15 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1453.67	93.51	Initial Hydro-static
1	19.78	93.57	Open To Flow (1)
30	49.65	97.74	Shut-In(1)
90	917.90	98.53	End Shut-In(1)
90	52.86	98.32	Open To Flow (2)
135	93.16	100.89	Shut-In(2)
227	908.94	100.68	End Shut-In(2)
229	1412.89	99.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
140.00	MW 80%W,20%M	1.98
10.00	CO	0.14
0.00	180' GIP	0.00

Gas Rates

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



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TOOL DIAGRAM

Buffalo Resources

Stricker #1-6

301 Commerce St.
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ATTN: David Barker

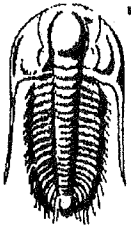
6 14S 11W Russell KS
Job Ticket: 37262 **DST#: 2**
Test Start: 2010.04.18 @ 22:47:34

Tool Information

Drill Pipe:	Length: 2967.00 ft	Diameter: 3.82 inches	Volume: 42.06 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 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: 42.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	2985.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	43.00 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			2958.00	
Shut In Tool	5.00			2963.00	
Hydraulic tool	5.00			2968.00	
Jars	5.00			2973.00	
Safety Joint	2.00			2975.00	
Packer	5.00			2980.00	28.00 Bottom Of Top Packer
Packer	5.00			2985.00	
Stubb	1.00			2986.00	
Recorder	0.00	6668	Inside	2986.00	
Recorder	0.00	6669	Outside	2986.00	
Perforations	11.00			2997.00	
Bullnose	3.00			3000.00	15.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



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FLUID SUMMARY

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Ft. Worth, TX 76102
ATTN: David Barker

Stricker #1-6
6 14S 11W Russell KS
Job Ticket: 37262 DST#: 2
Test Start: 2010.04.18 @ 22:47:34

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 41 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 49000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.98 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4500.00 ppm		
Filter Cake: inches		

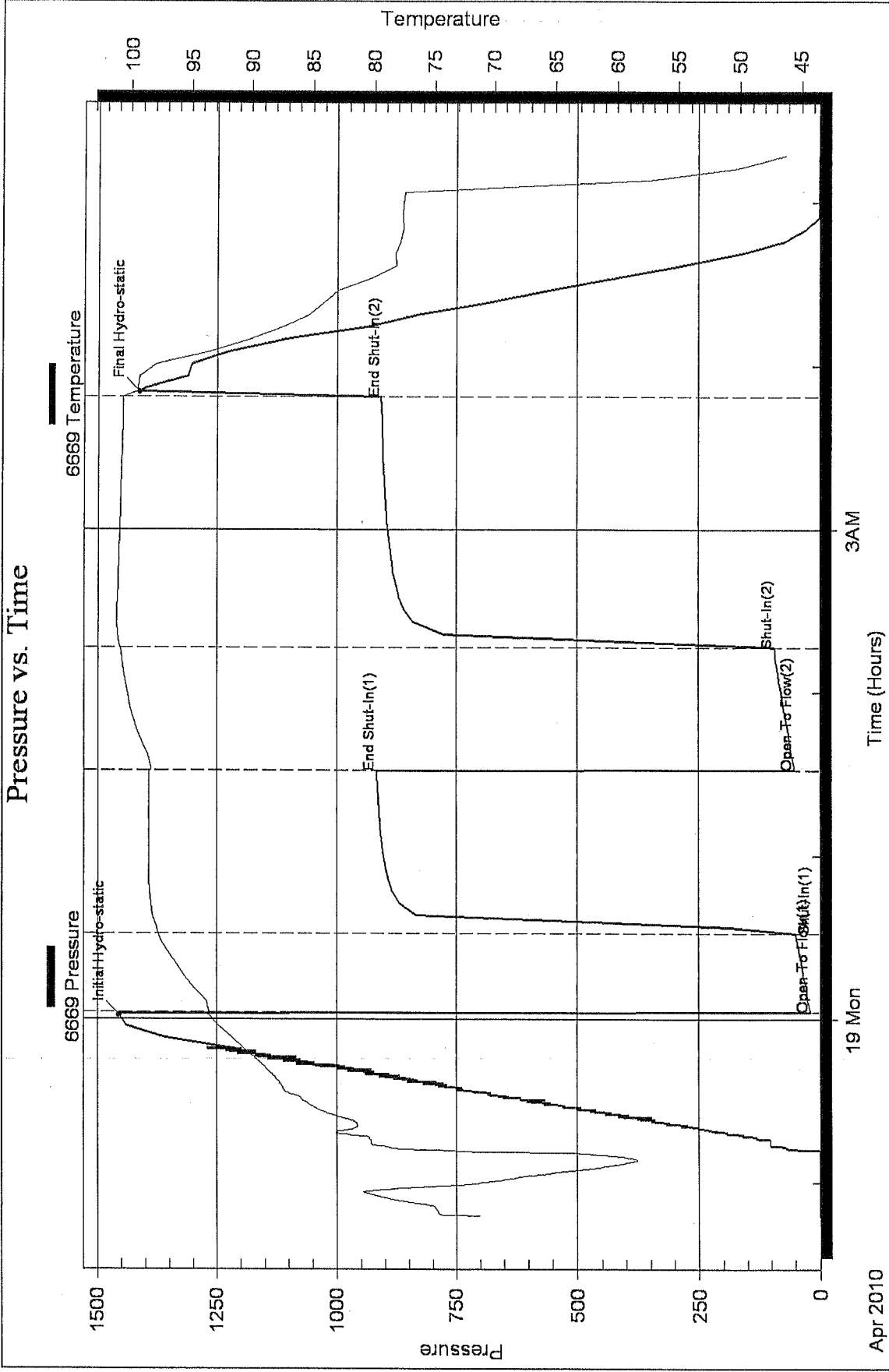
Recovery Information

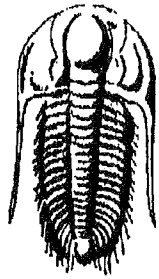
Recovery Table

Length ft	Description	Volume bbl
140.00	MW 80%W,20%M	1.985
10.00	CO	0.142
0.00	180' GIP	0.000

Total Length: 150.00 ft Total Volume: 2.127 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW .26 @ 41F = 49000 chlorides

Pressure vs. Time





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301 Commerce St.
Ste 1380
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ATTN: David Barker

6 14S 11W Russell KS

Stricker #1-6

Start Date: 2010.04.19 @ 10:30:52

End Date: 2010.04.19 @ 17:31:52

Job Ticket #: 37263 DST #: 3

Trilobite Testing, Inc

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

Buffalo Resources

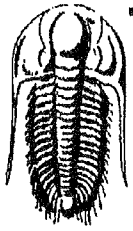
Stricker #1-6

6 14S 11W Russell KS

DST # 3

LKC "H?"

2010.04.19



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DRILL STEM TEST REPORT

Buffalo Resources

Stricker #1-6

301 Commerce St.
Ste 1380
Ft. Worth, TX 76102
ATTN: David Barker

6 14S 11W Russell KS

Job Ticket: 37263 DST#: 3
Test Start: 2010.04.19 @ 10:30:52

GENERAL INFORMATION:

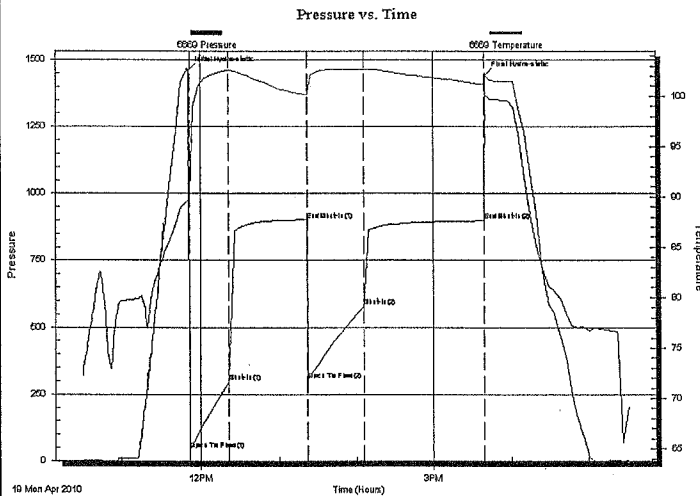
Formation: **LKC "H?"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:51:52
 Time Test Ended: 17:31:52
 Interval: **2999.00 ft (KB) To 3019.00 ft (KB) (TVD)**
 Total Depth: 3019.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Tyson Flax
 Unit No: 44
 Reference Elevations: 1797.00 ft (KB)
 1789.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6669

Outside

Press@RunDepth: 578.04 psig @ 3005.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.04.19 End Date: 2010.04.19 Last Calib.: 2010.04.19
 Start Time: 10:30:53 End Time: 17:31:52 Time On Btm: 2010.04.19 @ 11:50:52
 Time Off Btm: 2010.04.19 @ 15:40:22

TEST COMMENT: IFP-BOB in 4 min
 ISI-Weak surface blow back died in 40 min
 FFP-BOB in 4 min
 FSI-no blow back



PRESSURE SUMMARY

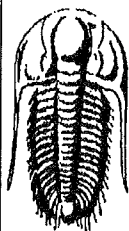
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1461.64	89.74	Initial Hydro-static
1	44.46	90.05	Open To Flow (1)
31	297.73	102.54	Shut-In(1)
91	901.25	100.16	End Shut-In(1)
91	302.42	100.25	Open To Flow (2)
135	578.04	102.66	Shut-In(2)
229	898.41	101.20	End Shut-In(2)
230	1443.37	100.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1050.00	Water	14.88
60.00	MW 70%W,30%M	0.85

Gas Rates

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



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TOOL DIAGRAM

Buffalo Resources

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ATTN: David Barker

6 14S 11W Russell KS
Job Ticket: 37263 DST#: 3
Test Start: 2010.04.19 @ 10:30:52

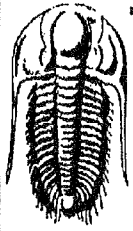
Tool Information

Drill Pipe:	Length: 2998.00 ft	Diameter: 3.82 inches	Volume: 42.50 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 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: 60000.00 lb
			<u>Total Volume: 42.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	2999.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	48.00 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			2972.00	
Shut In Tool	5.00			2977.00	
Hydraulic tool	5.00			2982.00	
Jars	5.00			2987.00	
Safety Joint	2.00			2989.00	
Packer	5.00			2994.00	28.00 Bottom Of Top Packer
Packer	5.00			2999.00	
Stubb	1.00			3000.00	
Perforations	5.00			3005.00	
Recorder	0.00	6668	Inside	3005.00	
Recorder	0.00	6669	Outside	3005.00	
Perforations	11.00			3016.00	
Bullnose	3.00			3019.00	20.00 Bottom Packers & Anchor

Total Tool Length: 48.00



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301 Commerce St.
Ste 1380
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ATTN: David Barker

6 14S 11W Russell KS

Job Ticket: 37263 DST#: 3
Test Start: 2010.04.19 @ 10:30:52

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:	60000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1050.00	Water	14.884
60.00	MW 70%W,30%M	0.851

Total Length: 1110.00 ft Total Volume: 15.735 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

