

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **IA Operating**

9915 W 21st St N Ste B
Wichita KS 67205

ATTN: Robert Swann

5-13s-16w Ellis,KS

Emery Schmidt # 5-1

Start Date: 2011.04.06 @ 00:10:15

End Date: 2011.04.06 @ 05:22:45

Job Ticket #: 042412 DST #: 1

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

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KCC WICHITA



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

IA Operating

9915 W 21st St N Ste B
Wichita KS 67205

ATTN: Robert Swann

Emery Schmidt # 5-1

5-13s-16w Ellis, KS

Job Ticket: 042412

DST#: 1

Test Start: 2011.04.06 @ 00:10:15

GENERAL INFORMATION:

Formation: A-C LKC

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:59:05

Time Test Ended: 05:22:45

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: 3222.00 ft (KB) To 3275.00 ft (KB) (TVD)

Total Depth: 3275.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2001.00 ft (KB)

1993.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8354 Inside

Press@RunDepth: 66.79 psig @ 3229.00 ft (KB)

Start Date: 2011.04.06 End Date: 2011.04.06

Start Time: 00:20:15 End Time: 05:22:45

Capacity: 8000.00 psig

Last Calib.: 2011.04.06

Time On Btm: 2011.04.06 @ 01:57:55

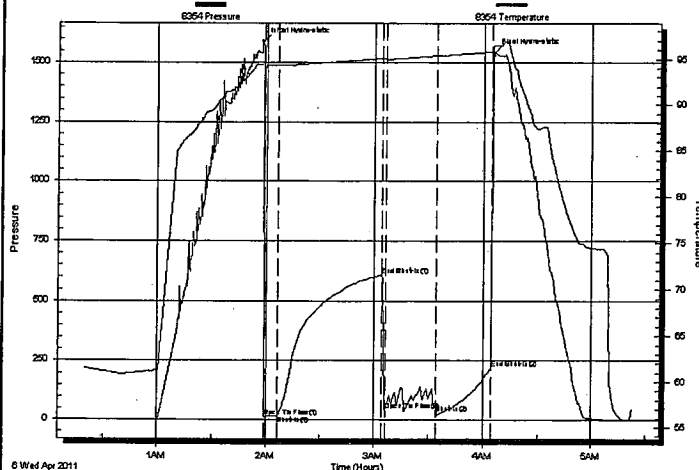
Time Off Btm: 2011.04.06 @ 04:05:15

TEST COMMENT: IF-Weak surface blow

FF-No blow [Plugging]

Times-5-60-30-30

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1587.90	94.48	Initial Hydro-static
2	13.19	93.62	Open To Flow (1)
9	16.73	94.26	Shut-In(1)
67	606.90	95.06	End Shut-In(1)
69	41.66	94.98	Open To Flow (2)
97	66.79	95.34	Shut-In(2)
127	217.59	95.81	End Shut-In(2)
128	1541.86	96.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drlg Mud	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

IA Operating

Emery Schmidt # 5-1

9915 W 21st St N Ste B
Wichita KS 67205

5-13s-16w Ellis, KS

Job Ticket: 042412

DST#: 1

ATTN: Robert Swann

Test Start: 2011.04.06 @ 00:10:15

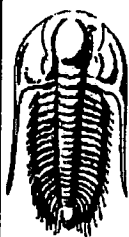
Tool Information

Drill Pipe:	Length: 3212.00 ft	Diameter: 3.80 inches	Volume: 45.06 bbl	Tool Weight: 2800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
		Total Volume: 45.06 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3222.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	73.00 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			3203.00	
Shut In Tool	5.00			3208.00	
Hydraulic tool	5.00			3213.00	
Packer	5.00			3218.00	20.00 Bottom Of Top Packer
Packer	4.00			3222.00	
Stubb	1.00			3223.00	
Perforations	5.00			3228.00	
Change Over Sub	1.00			3229.00	
Recorder	0.00	8354	Inside	3229.00	
Recorder	0.00	8520	Outside	3229.00	
Drill Pipe	31.00			3260.00	
Change Over Sub	1.00			3261.00	
Perforations	11.00			3272.00	
Bullnose	3.00			3275.00	53.00 Bottom Packers & Anchor

Total Tool Length: 73.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

IA Operating

Emery Schmidt # 5-1

9915 W 21st St N Ste B
Wichita KS 67205

5-13s-16w Ellis,KS

Job Ticket: 042412

DST#: 1

ATTN: Robert Swann

Test Start: 2011.04.06 @ 00:10:15

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: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drig Mud	0.070

Total Length: 5.00 ft

Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

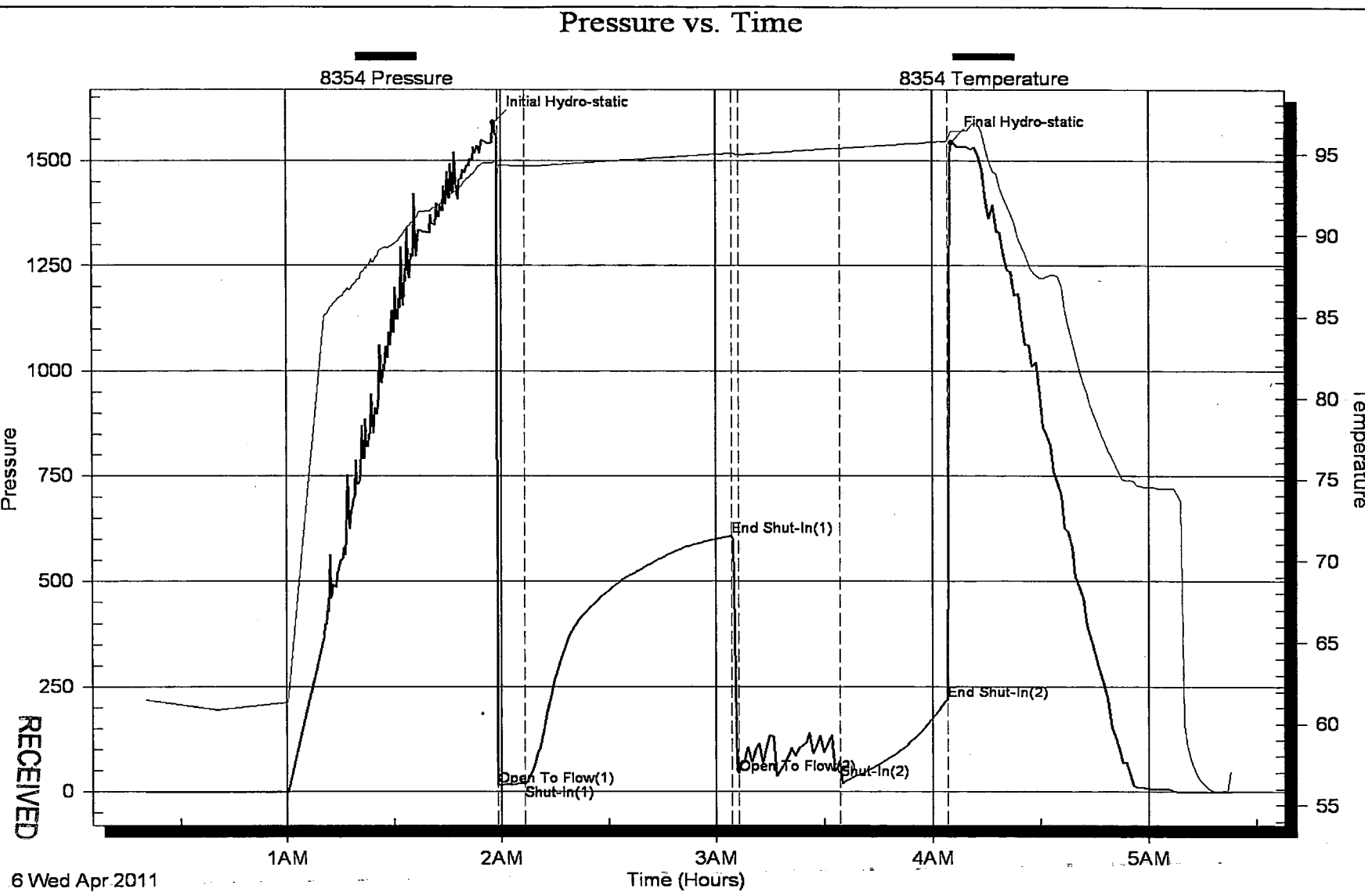
Laboratory Location:

Recovery Comments:

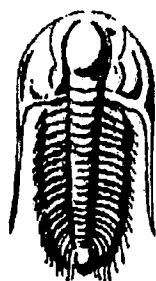
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DRILL STEM TEST REPORT

Prepared For: **IA Operating**

9915 W 21st St N Ste B
Wichita KS 67205

ATTN: Robert Swann

5-13s-16w Ellis,KS

Emery Schmidt # 5-1

Start Date: 2011.04.06 @ 13:03:14

End Date: 2011.04.06 @ 20:26:44

Job Ticket #: 042413 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

IA Operating

Emery Schmidt # 5-1

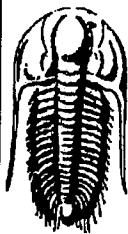
5-13s-16w Ellis,KS

DST # 2

D-G

LKC

2011.04.06



**TRILOBITE
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DRILL STEM TEST REPORT

IA Operating

9915 W 21st St N Ste B
Wichita KS 67205

ATTN: Robert Swann

Emery Schmidt # 5-1

5-13s-16w Ellis,KS

Job Ticket: 042413

DST#: 2

Test Start: 2011.04.06 @ 13:03:14

GENERAL INFORMATION:

Formation: **D-G LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:23:04

Time Test Ended: 20:26:44

Interval: **3277.00 ft (KB) To 3341.00 ft (KB) (TVD)**

Total Depth: **3341.00 ft (KB) (TVD)**

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

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Reference Elevations: 2001.00 ft (KB)

1993.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8354

Inside

Press@RunDepth: 31.80 psig @ 3284.00 ft (KB)

Start Date: 2011.04.06

End Date: 2011.04.06

Start Time: 13:13:14

End Time: 20:26:44

Capacity: 8000.00 psig

Last Calib.: 2011.04.06

Time On Btm: 2011.04.06 @ 15:21:54

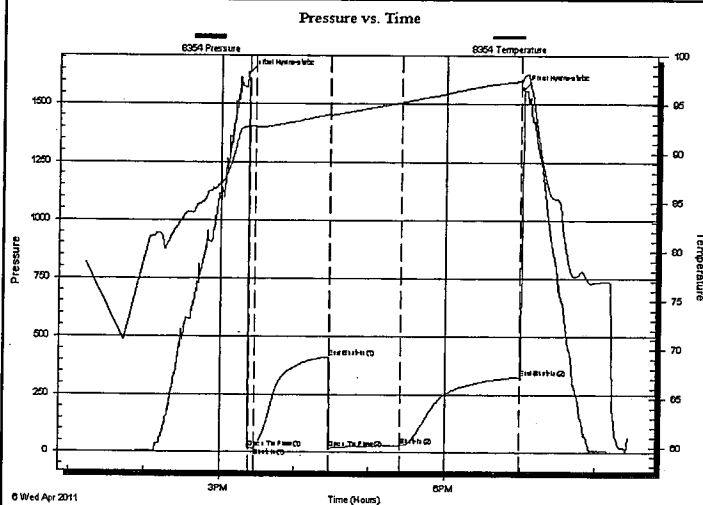
Time Off Btm: 2011.04.06 @ 19:01:14

TEST COMMENT: IF-Weak building to 1 1/2"

FF-Strong B-B in 12 min

Times-5-60-60-90

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1629.61	92.66	Initial Hydro-static
2	15.93	92.57	Open To Flow (1)
6	16.26	92.72	Shut-In(1)
66	413.11	93.95	End Shut-In(1)
67	17.23	93.90	Open To Flow (2)
123	31.80	95.19	Shut-In(2)
218	328.40	97.37	End Shut-In(2)
220	1565.66	97.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	MCGsyO 5%g 80%o 15%m	0.63
0.00	435 GIP	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

IA Operating

Emery Schmidt # 5-1

9915 W 21st St N Ste B
Wichita KS 67205

5-13s-16w Ellis, KS

Job Ticket: 042413

DST#: 2

ATTN: Robert Sw ann

Test Start: 2011.04.06 @ 13:03:14

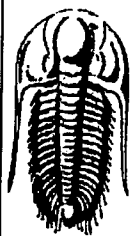
Tool Information

Drill Pipe:	Length: 3274.00 ft	Diameter: 3.80 inches	Volume: 45.93 bbl	Tool Weight:	2800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 lb
			Total Volume: 45.93 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3277.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	64.00 ft				
Tool Length:	84.00 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			3258.00	
Shut In Tool	5.00			3263.00	
Hydraulic tool	5.00			3268.00	
Packer	5.00			3273.00	20.00 Bottom Of Top Packer
Packer	4.00			3277.00	
Stubb	1.00			3278.00	
Perforations	5.00			3283.00	
Change Over Sub	1.00			3284.00	
Recorder	0.00	8354	Inside	3284.00	
Recorder	0.00	8520	Outside	3284.00	
Drill Pipe	31.00			3315.00	
Change Over Sub	1.00			3316.00	
Perforations	22.00			3338.00	
Bullnose	3.00			3341.00	64.00 Bottom Packers & Anchor

Total Tool Length: 84.00



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FLUID SUMMARY

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Emery Schmidt # 5-1

9915 W 21st St N Ste B
Wichita KS 67205

5-13s-16w Ellis, KS

Job Ticket: 042413

DST#: 2

ATTN: Robert Swann

Test Start: 2011.04.06 @ 13:03:14

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: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	MCGsyO 5%g 80%o 15%m	0.631
0.00	435 GIP	0.000

Total Length: 45.00 ft

Total Volume: 0.631 bbl

Num Fluid Samples: 0

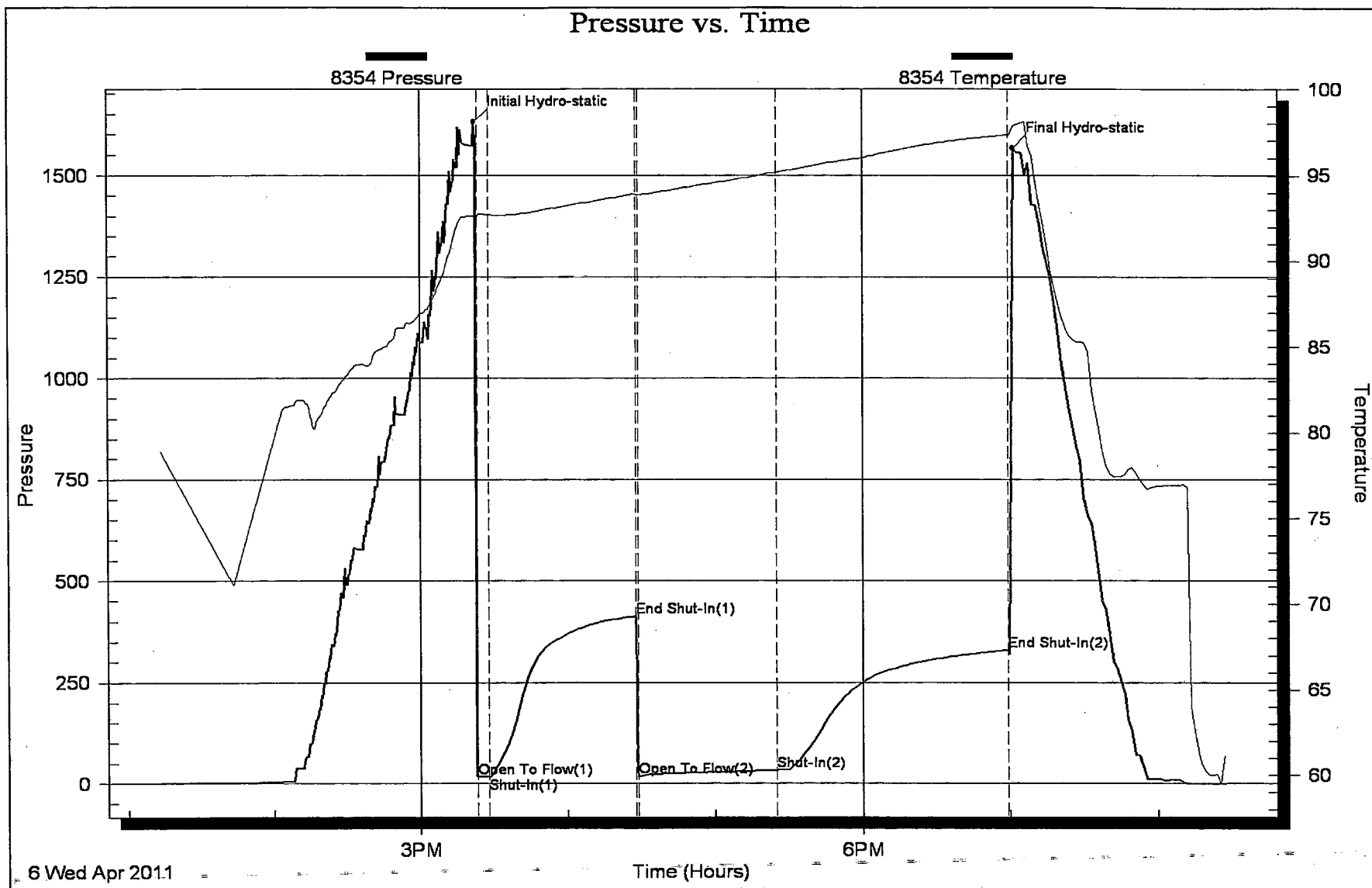
Num Gas Bombs: 0

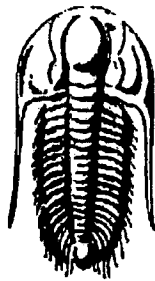
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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9915 W 21st St N Ste B
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ATTN: Robert Swann

5-13s-16w Ellis,KS

Emery Schmidt # 5-1

Start Date: 2011.04.07 @ 20:40:04

End Date: 2011.04.08 @ 01:53:04

Job Ticket #: 042414 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



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Wichita KS 67205

ATTN: Robert Swann

Emery Schmidt # 5-1

5-13s-16w Ellis,KS

Job Ticket: 042414

DST#: 3

Test Start: 2011.04.07 @ 20:40:04

GENERAL INFORMATION:

Formation: J-K-L LKC

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:11:04

Time Test Ended: 01:53:04

Interval: 3379.00 ft (KB) To 3465.00 ft (KB) (TVD)

Total Depth: 3564.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Straddle

Tester: Dan Bangle

Unit No: 38

Reference Elevations: 2001.00 ft (KB)

1993.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8354

Inside

Press@RunDepth: 15.69 psig @ 3386.00 ft (KB)

Start Date: 2011.04.07

End Date: 2011.04.08

Start Time: 20:50:04

End Time: 01:53:04

Capacity: 8000.00 psig

Last Calib.: 2011.04.08

Time On Btm: 2011.04.07 @ 22:09:54

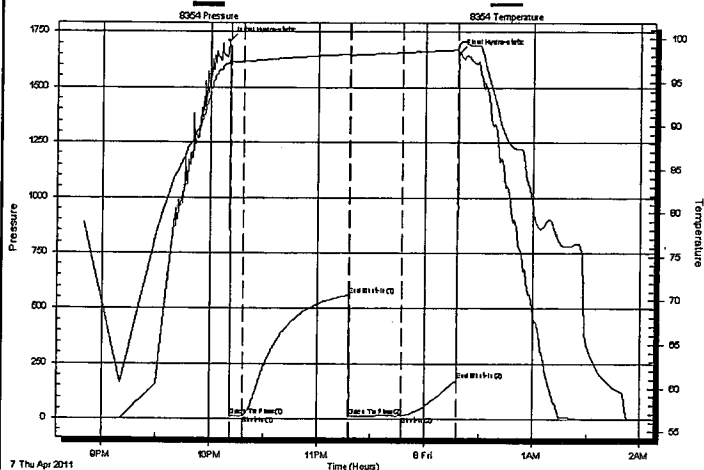
Time Off Btm: 2011.04.08 @ 00:18:34

TEST COMMENT: IF-Weak surface blow

FF-No blow

Times-5-60-30-30

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1708.19	97.15	Initial Hydro-static
2	13.86	97.01	Open To Flow (1)
8	14.63	97.39	Shut-In(1)
68	559.72	98.25	End Shut-In(1)
69	15.37	98.06	Open To Flow (2)
98	15.69	98.44	Shut-In(2)
128	178.00	98.76	End Shut-In(2)
129	1655.64	99.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drig Mud	0.07

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Wichita KS 67205

ATTN: Robert Swann

Emery Schmidt # 5-1

5-13s-16w Ellis, KS

Job Ticket: 042414

DST#: 3

Test Start: 2011.04.07 @ 20:40:04

GENERAL INFORMATION:

Formation: **J-K-L LKC**

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

Time Tool Opened: 22:11:04

Time Test Ended: 01:53:04

Test Type: **Conventional Straddle**

Tester: **Dan Bangle**

Unit No: **38**

Interval: **3379.00 ft (KB) To 3465.00 ft (KB) (TVD)**

Total Depth: **3564.00 ft (KB) (TVD)**

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

Reference Elevations: **2001.00 ft (KB)**

1993.00 ft (CF)

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

Serial #: 8520

Outside

Press@RunDepth: psig @ **3470.00 ft (KB)**

Start Date: **2011.04.07**

End Date: **2011.04.08**

Capacity: **8000.00 psig**

Last Calib.: **2011.04.08**

Start Time: **20:40:30**

End Time: **01:52:59**

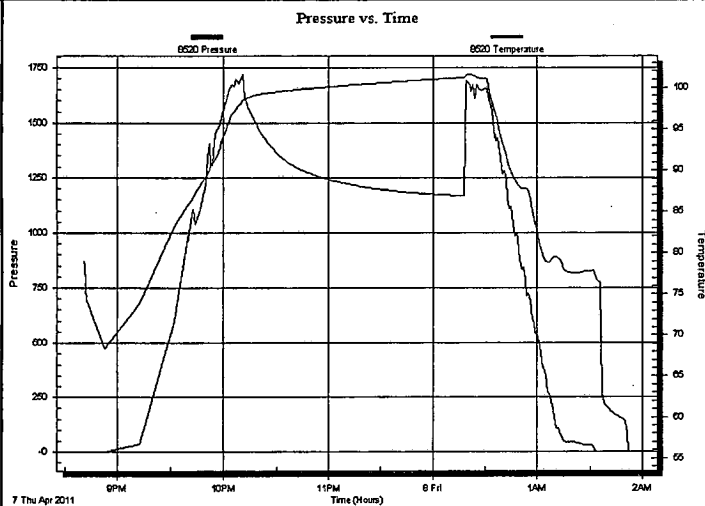
Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Weak surface blow

FF-No blow

Times-5-60-30-30



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drig Mud	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

IA Operating

Emery Schmidt # 5-1

9915 W 21st St N Ste B
Wichita KS 67205

5-13s-16w Ellis, KS

Job Ticket: 042414

DST#: 3

ATTN: Robert Swann

Test Start: 2011.04.07 @ 20:40:04

Tool Information

Drill Pipe:	Length: 3370.00 ft	Diameter: 3.80 inches	Volume: 47.27 bbl	Tool Weight: 2800.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			Total Volume: 47.27 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3379.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	3465.00 ft			
Interval between Packers:	86.00 ft			
Tool Length:	205.00 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	1.00			3360.00	
Shut In Tool	5.00			3365.00	
Hydraulic tool	5.00			3370.00	
Packer	5.00			3375.00	20.00 Bottom Of Top Packer
Packer	4.00			3379.00	
Stubb	1.00			3380.00	
Perforations	5.00			3385.00	
Change Over Sub	1.00			3386.00	
Recorder	0.00	8354	Inside	3386.00	
Recorder	0.00	8653	Outside	3386.00	
Drill Pipe	62.00			3448.00	
Change Over Sub	1.00			3449.00	
Perforations	12.00			3461.00	
Blank Off Sub	1.00			3462.00	
Blank Spacing	3.00			3465.00	86.00 Tool Interval
Packer	2.00			3467.00	
Stubb	1.00			3468.00	
Perforations	1.00			3469.00	
Change Over Sub	1.00			3470.00	
Recorder	0.00	8520	Outside	3470.00	
Drill Pipe	90.00			3560.00	
Change Over Sub	1.00			3561.00	
Bullnose	3.00			3564.00	99.00 Bottom Packers & Anchor
Total Tool Length:	205.00				



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5-13s-16w Ellis, KS

Job Ticket: 042414

DST#: 3

ATTN: Robert Swann

Test Start: 2011.04.07 @ 20:40:04

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: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drig Mud	0.070

Total Length: 5.00 ft

Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

