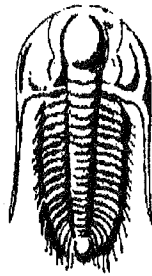


15-163-23806

11-10s-16w

IND



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell, KS 67665

ATTN: Steve Murphy

11-10s-16w Rooks KS

Ziegler A#1

Start Date: 2009.06.01 @ 19:34:12

End Date: 2009.06.02 @ 01:27:36

Job Ticket #: 36119 DST #: 1

KCC
JUL 24 2009
CONFIDENTIAL

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

John O Farmer

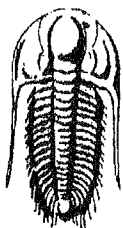
Ziegler A#1

11-10s-16w Rooks KS

DST # 1

Toronto

2009.06.01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer

Ziegler A#1

PO Box 352
Russell, KS 67665

11-10s-16w Rooks KS

ATTN: Steve Murphy

Job Ticket: 36119

DST#: 1

Test Start: 2009.06.01 @ 19:34:12

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:56:07

Time Test Ended: 01:27:36

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: **3024.00 ft (KB) To 3056.00 ft (KB) (TVD)**

Total Depth: 3056.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 1926.00 ft (KB)

1921.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8371

Inside

Press@RunDepth: 88.57 psig @ 3028.00 ft (KB)

Start Date: 2009.06.01

End Date:

2009.06.02

Start Time: 19:34:12

End Time:

01:27:36

Capacity: 7000.00 psig

Last Calib.: 2009.06.02

Time On Btm: 2009.06.01 @ 20:54:37

Time Off Btm: 2009.06.01 @ 23:55:36

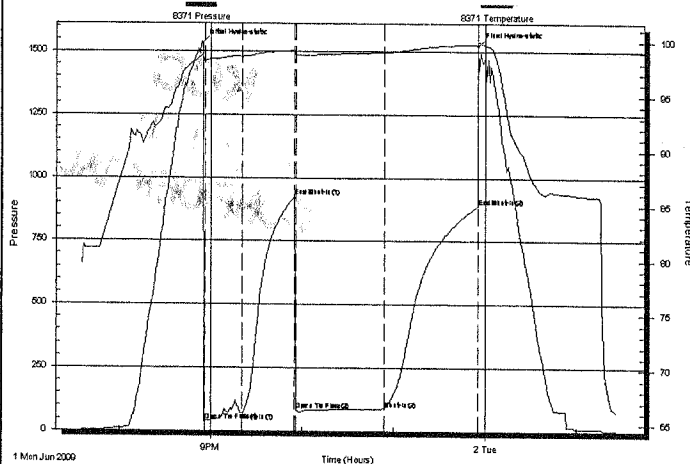
TEST COMMENT: IFF - BOB 25 min.

ISI - no blow back

FFP - BOB 15 min.

FSI - no blow back

Pressure vs. Time



PRESSURE SUMMARY

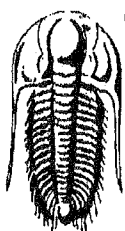
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1531.38	98.73	Initial Hydro-static
2	38.03	98.25	Open To Flow (1)
26	70.43	98.62	Shut-In(1)
61	925.04	99.16	End Shut-In(1)
62	81.79	98.78	Open To Flow (2)
120	88.57	98.99	Shut-In(2)
181	888.02	99.75	End Shut-In(2)
181	1521.42	99.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	VSOCM 5%O, 95%M	0.30
80.00	GHOCM tr W 40%G, 45%O, 5%W, 10%M	0.54
20.00	VSGOCM G, 5%O, 65%M	0.28
5.00	HOCM 30%O, 70%M	0.07
0.00	290 GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Ziegler A#1

PO Box 352
Russell, KS 67665

11-10s-16w Rooks KS

Job Ticket: 36119

DST#: 1

ATTN: Steve Murphy

Test Start: 2009.06.01 @ 19:34:12

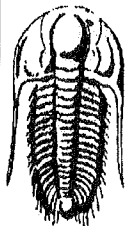
Tool Information

Drill Pipe:	Length: 2881.00 ft	Diameter: 3.80 inches	Volume: 40.41 bbl	Tool Weight:	2500.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 41.02 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	3024.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	59.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3002.00	
Hydraulic tool	5.00			3007.00	
Jars	5.00			3012.00	
Safety Joint	2.00			3014.00	
Packer	5.00			3019.00	27.00 Bottom Of Top Packer
Packer	5.00			3024.00	
Stubb	1.00			3025.00	
Perforations	3.00			3028.00	
Recorder	0.00	8018	Inside	3028.00	
Recorder	0.00	8371	Inside	3028.00	
Perforations	25.00			3053.00	
Bullnose	3.00			3056.00	32.00 Bottom Packers & Anchor

Total Tool Length: 59.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Ziegler A#1

PO Box 352
Russell, KS 67665

11-10s-16w Rooks KS

Job Ticket: 36119

DST#: 1

ATTN: Steve Murphy

Test Start: 2009.06.01 @ 19:34:12

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 8.74 in³

Resistivity: ohm.m

Salinity: 4300.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

deg API

Water Salinity: 28000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	VSOCM 5%O, 95%M	0.295
80.00	GHOCM tr W 40%G, 45%O, 5%W, 10%M	0.539
20.00	VSGOCM G, 5%O, 65%M	0.281
5.00	HOCM 30%O, 70%M	0.070
0.00	290 GIP	0.000

Total Length: 165.00 ft

Total Volume: 1.185 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

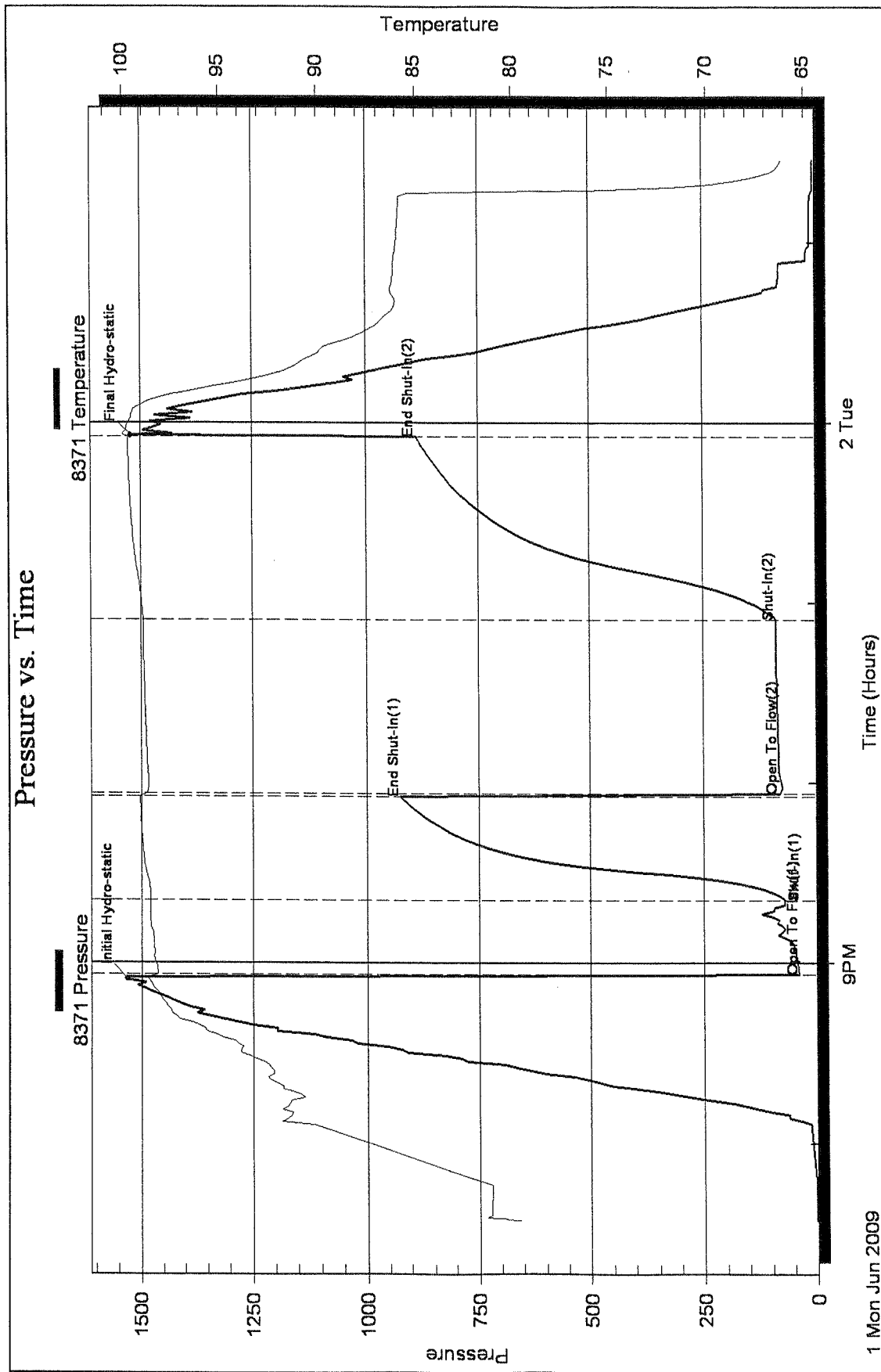
Serial #:

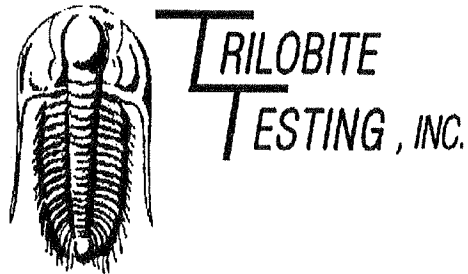
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .260 @ 66F = 28000 chlorides

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell, KS 67665

ATTN: Steve Murphy

11-10s-16w Rooks KS

Ziegler A#1

Start Date: 2009.06.02 @ 11:25:34

End Date: 2009.06.02 @ 15:59:58

Job Ticket #: 36120 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

John O Farmer

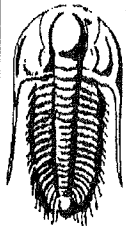
Ziegler A#1

11-10s-16w Rooks KS

DST # 2

LKC "D"

2009.06.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer

PO Box 352
Russell, KS 67665

ATTN: Steve Murphy

Ziegler A#1

11-10s-16w Rooks KS

Job Ticket: 36120

DST#: 2

Test Start: 2009.06.02 @ 11:25:34

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:55:59

Time Test Ended: 15:59:58

Interval: **3116.00 ft (KB) To 3136.00 ft (KB) (TVD)**

Total Depth: 3136.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Reference Elevations: 1926.00 ft (KB)

1921.00 ft (CF)

KB to GRVCF: 5.00 ft

Serial #: 8371

Inside

Press@RunDepth: 27.92 psig @ 3118.00 ft (KB)

Start Date: 2009.06.02

End Date:

2009.06.02

Start Time: 11:25:34

End Time:

15:59:58

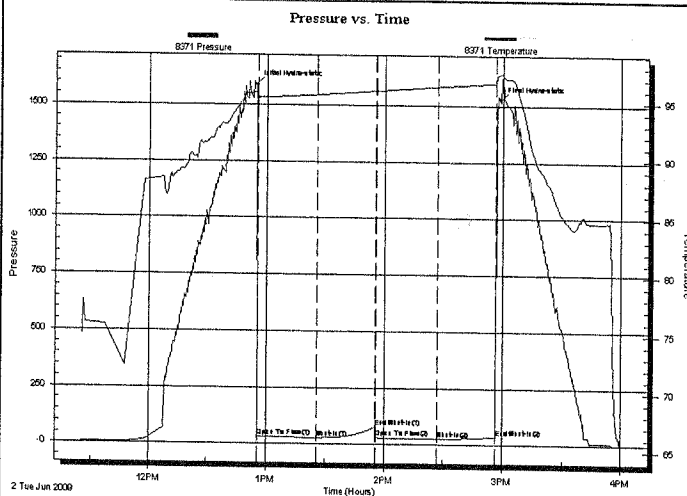
Capacity: 7000.00 psig

Last Calib.: 2009.06.02

Time On Btm: 2009.06.02 @ 12:54:59

Time Off Btm: 2009.06.02 @ 14:58:29

TEST COMMENT: IFP - weak blow throughout sur. - 1/2 - died 1/4
ISI - no blow back
FFP - no blow
FSI - no blow back



PRESSURE SUMMARY

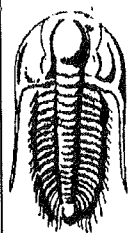
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1586.90	95.87	Initial Hydro-static
1	30.40	95.19	Open To Flow (1)
31	28.80	95.63	Shut-In(1)
61	80.18	96.00	End Shut-In(1)
61	29.90	95.98	Open To Flow (2)
92	27.92	96.36	Shut-In(2)
122	38.11	96.69	End Shut-In(2)
124	1525.93	97.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud w/ O spts M100%	0.01

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Ziegler A#1

PO Box 352
Russell, KS 67665

11-10s-16w Rooks KS

Job Ticket: 36120

DST#: 2

ATTN: Steve Murphy

Test Start: 2009.06.02 @ 11:25:34

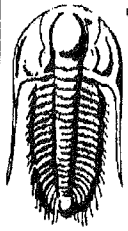
Tool Information

Drill Pipe:	Length: 2973.00 ft	Diameter: 3.80 inches	Volume: 41.70 bbl	Tool Weight: 2500.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: lb
		Total Volume:	42.31 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3116.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3094.00	
Hydraulic tool	5.00			3099.00	
Jars	5.00			3104.00	
Safety Joint	2.00			3106.00	
Packer	5.00			3111.00	27.00 Bottom Of Top Packer
Packer	5.00			3116.00	
Stubb	1.00			3117.00	
Perforations	1.00			3118.00	
Recorder	0.00	8018	Inside	3118.00	
Recorder	0.00	8371	Inside	3118.00	
Perforations	15.00			3133.00	
Bullnose	3.00			3136.00	20.00 Bottom Packers & Anchor

Total Tool Length: 47.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Ziegler A#1

PO Box 352
Russell, KS 67665

11-10s-16w Rooks KS

Job Ticket: 36120

DST#: 2

ATTN: Steve Murphy

Test Start: 2009.06.02 @ 11:25:34

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 7.78 in³

Resistivity: ohm.m

Salinity: 5100.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud w / O spts M100%	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

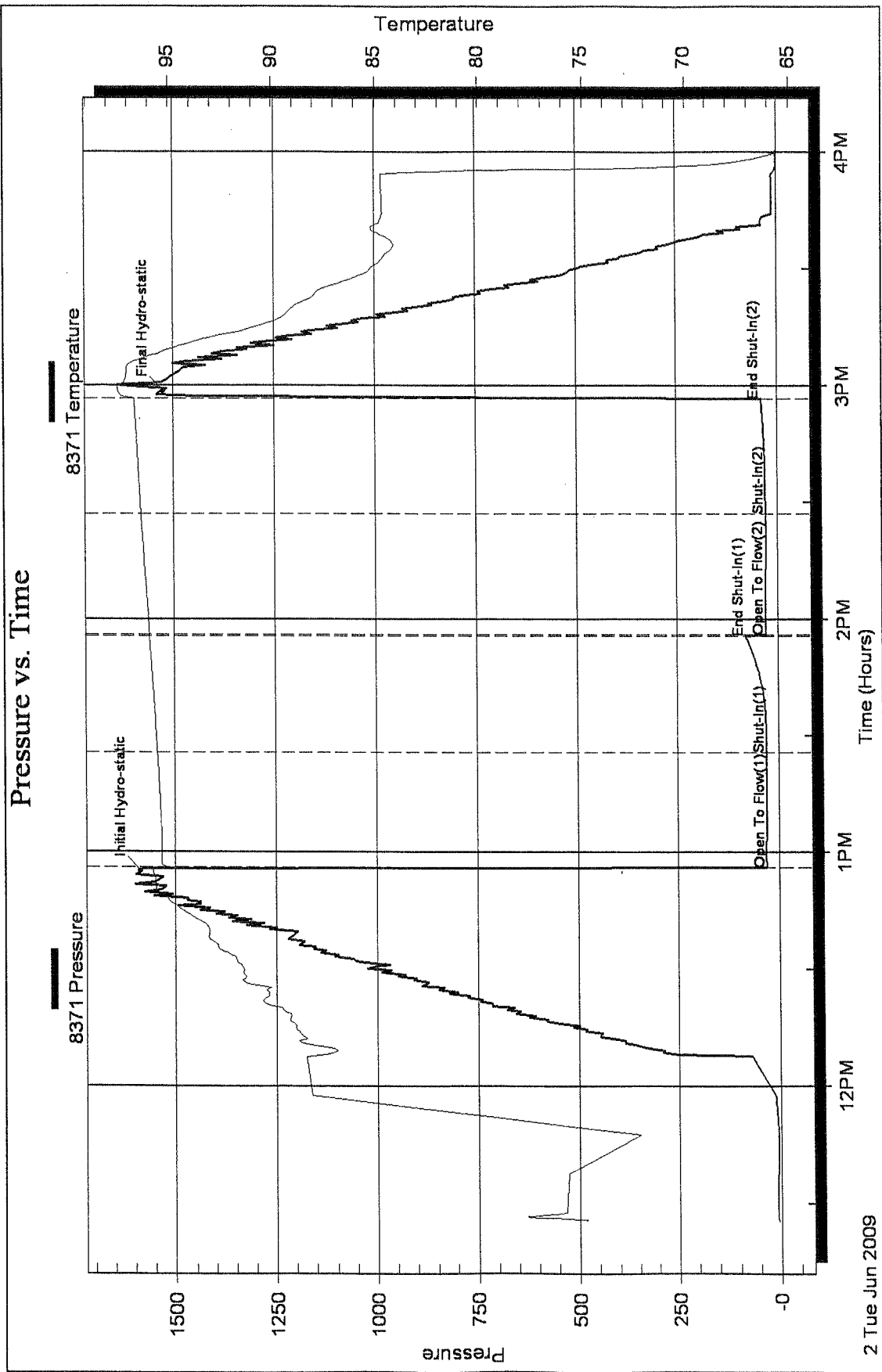
Serial #:

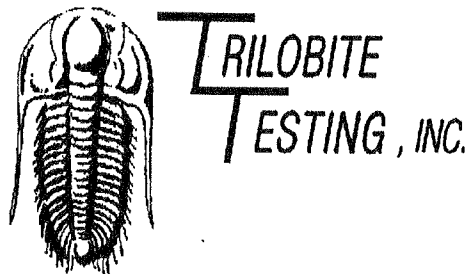
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell, KS 67665

ATTN: Steve Murphy

11-10s-16w Rooks KS

Ziegler A#1

Start Date: 2009.06.02 @ 22:55:10

End Date: 2009.06.03 @ 05:51:40

Job Ticket #: 36121 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

John O Farmer

PO Box 352
Russell, KS 67665

ATTN: Steve Murphy

Ziegler A#1

11-10s-16w Rooks KS

Job Ticket: 36121

DST#: 3

Test Start: 2009.06.02 @ 22:55:10

GENERAL INFORMATION:

Formation: **LKC"E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:12:40

Time Test Ended: 05:51:40

Interval: **3142.00 ft (KB) To 3175.00 ft (KB) (TVD)**

Total Depth: 3175.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 41

Reference Elevations: 1926.00 ft (KB)

1921.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8371

Inside

Press@RunDepth: 104.78 psig @ 3147.00 ft (KB)

Start Date: 2009.06.02

End Date:

2009.06.03

Start Time: 22:55:15

End Time:

05:51:39

Capacity: 7000.00 psig

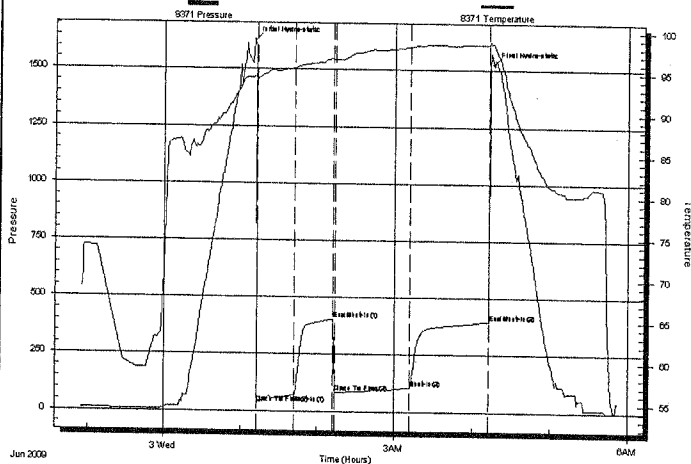
Last Calib.: 2009.06.03

Time On Btm: 2009.06.03 @ 01:10:40

Time Off Btm: 2009.06.03 @ 04:16:10

TEST COMMENT: IF-BOB in 28min
ISI-NO blow
FF- BOB in 25min
FSI- weak surface blow 1/2 in

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1624.13	94.51	Initial Hydro-static
2	34.55	94.07	Open To Flow (1)
32	70.45	95.54	Shut-In (1)
62	403.89	96.67	End Shut-In (1)
63	83.26	96.53	Open To Flow (2)
121	104.78	98.10	Shut-In (2)
183	395.74	98.43	End Shut-In (2)
186	1523.96	98.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OWCM 10%O 40%W 50%M	0.59
60.00	GWMCO 30%G 40%O 10%W 20%M	0.81
5.00	Free Oil	0.07
0.00	120ft GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Ziegler A#1

PO Box 352
Russell, KS 67665

11-10s-16w Rooks KS

Job Ticket: 36121

DST#: 3

ATTN: Steve Murphy

Test Start: 2009.06.02 @ 22:55:10

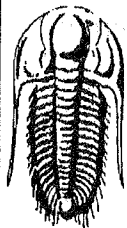
Tool Information

Drill Pipe:	Length: 3006.00 ft	Diameter: 3.80 inches	Volume: 42.17 bbl	Tool Weight:	2500.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume:	42.78 bbl	Tool Chased	ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3142.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	33.00 ft				
Tool Length:	60.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3120.00	
Hydraulic tool	5.00			3125.00	
Jars	5.00			3130.00	
Safety Joint	2.00			3132.00	
Packer	5.00			3137.00	27.00 Bottom Of Top Packer
Packer	5.00			3142.00	
Stubb	1.00			3143.00	
Perforations	4.00			3147.00	
Recorder	0.00	8018	Inside	3147.00	
Recorder	0.00	8371	Inside	3147.00	
Perforations	25.00			3172.00	
Bullnose	3.00			3175.00	33.00 Bottom Packers & Anchor

Total Tool Length: 60.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Ziegler A#1

PO Box 352
Russell, KS 67665

11-10s-16w Rooks KS

Job Ticket: 36121

DST#: 3

ATTN: Steve Murphy

Test Start: 2009.06.02 @ 22:55:10

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 8.73 in³

Resistivity: ohm.m

Salinity: 4300.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	OWCM 10%O 40%W 50%M	0.590
60.00	GWMCO 30%G 40%O 10%W 20%M	0.805
5.00	Free Oil	0.070
0.00	120ft GIP	0.000

Total Length: 185.00 ft

Total Volume: 1.465 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

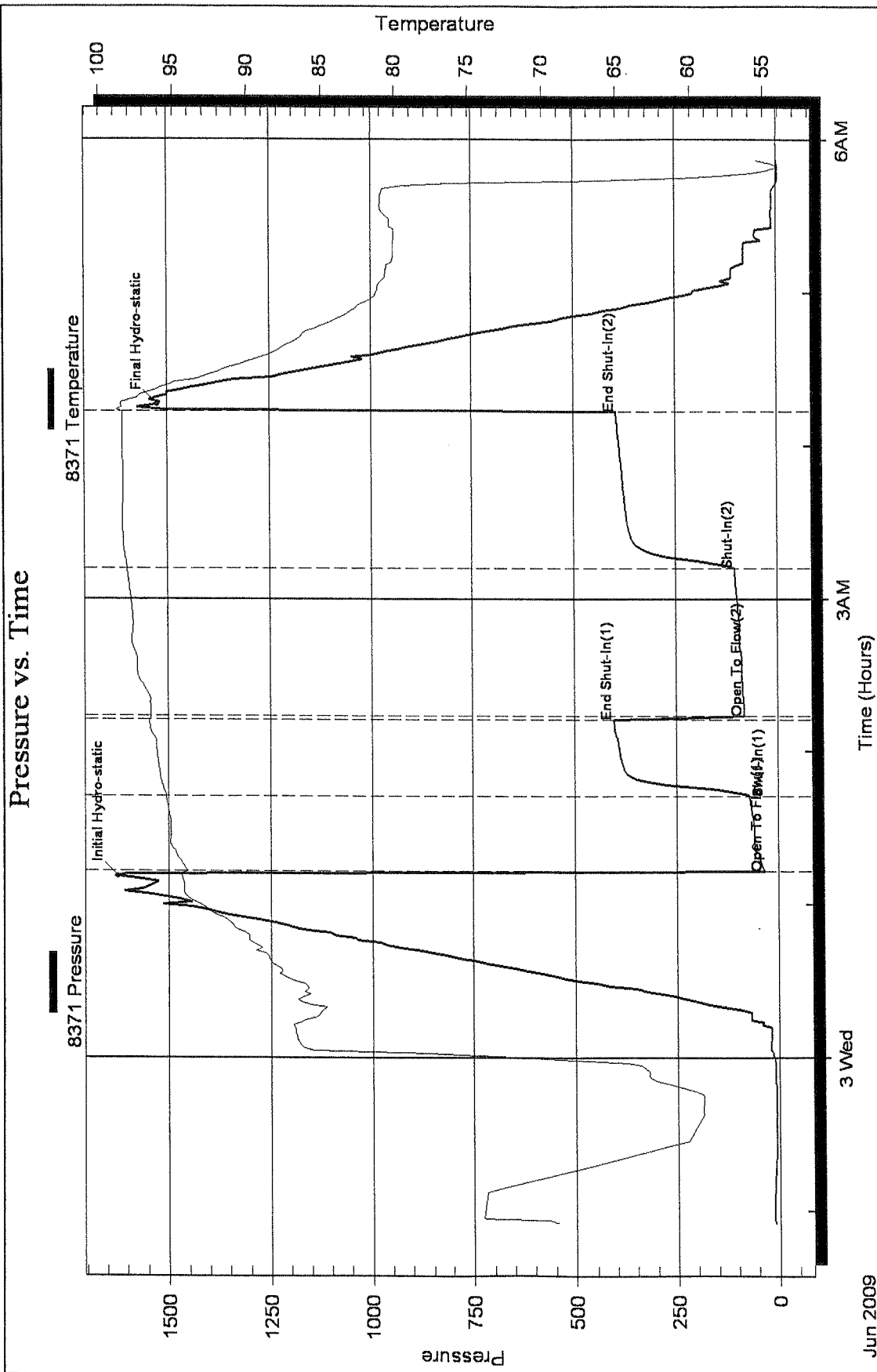
Serial #:

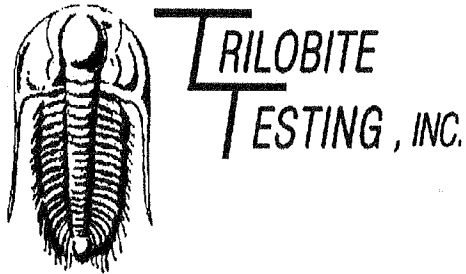
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell, KS 67665

ATTN: Steve Murphy

11-10s-16w Rooks KS

Ziegler A#1

Start Date: 2009.06.03 @ 10:41:42

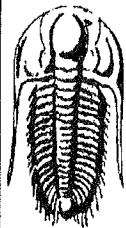
End Date: 2009.06.03 @ 16:52:12

Job Ticket #: 36122 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer

PO Box 352
Russell, KS 67665

ATTN: Steve Murphy

Ziegler A#1

11-10s-16w Rooks KS

Job Ticket: 36122

DST#: 4

Test Start: 2009.06.03 @ 10:41:42

GENERAL INFORMATION:

Formation: **LKC"G**

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

Time Tool Opened: 12:38:12

Time Test Ended: 16:52:12

Interval: **3175.00 ft (KB) To 3180.00 ft (KB) (TVD)**

Total Depth: **3180.00 ft (KB) (TVD)**

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

Test Type: **Conventional Bottom Hole**

Tester: **Brett Dickinson**

Unit No: **41**

Reference Elevations: **1926.00 ft (KB)**

1921.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8371

Inside

Press@RunDepth: **93.88 psig @ 3177.00 ft (KB)**

Start Date: **2009.06.03**

End Date: **2009.06.03**

Start Time: **10:41:47**

End Time: **16:52:11**

Capacity: **7000.00 psig**

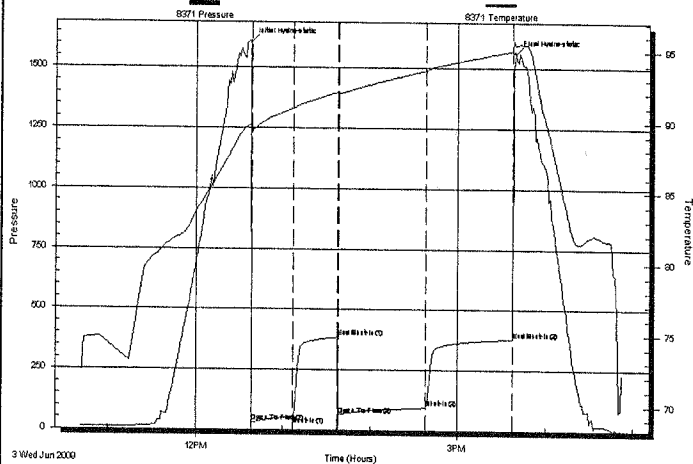
Last Calib.: **2009.06.03**

Time On Btm: **2009.06.03 @ 12:37:42**

Time Off Btm: **2009.06.03 @ 15:39:11**

TEST COMMENT: IF- 3.25in blow
IS- No blow
FF- BOB in 60min
FSI- Very weak surface blow died in 41min

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1606.51	89.84	Initial Hydro-static
1	30.60	89.25	Open To Flow (1)
30	56.24	90.95	Shut-In (1)
60	383.97	92.08	End Shut-In (1)
61	64.82	91.98	Open To Flow (2)
120	93.88	93.64	Shut-In (2)
180	378.32	95.05	End Shut-In (2)
182	1562.92	95.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Water	0.30
80.00	MCW 65%W 35%M	0.54
10.00	Free Oil 5%G 95%O	0.14
0.00	30ft GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Ziegler A#1

PO Box 352
Russell, KS 67665

11-10s-16w Rooks KS

Job Ticket: 36122

DST#: 4

ATTN: Steve Murphy

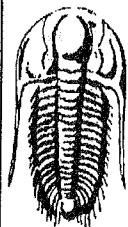
Test Start: 2009.06.03 @ 10:41:42

Tool Information

Drill Pipe:	Length: 3038.00 ft	Diameter: 3.80 inches	Volume: 42.62 bbl	Tool Weight: 2500.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 54000.00 lb
			Total Volume: 43.23 bbl	Tool Chased ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3175.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	5.00 ft			
Tool Length:	32.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3153.00	
Hydraulic tool	5.00			3158.00	
Jars	5.00			3163.00	
Safety Joint	2.00			3165.00	
Packer	5.00			3170.00	27.00 Bottom Of Top Packer
Packer	5.00			3175.00	
Stubb	1.00			3176.00	
Perforations	1.00			3177.00	
Recorder	0.00	8018	Inside	3177.00	
Recorder	0.00	8371	Inside	3177.00	
Bullnose	3.00			3180.00	5.00 Bottom Packers & Anchor

Total Tool Length: 32.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Ziegler A#1

PO Box 352
Russell, KS 67665

11-10s-16w Rooks KS

Job Ticket: 36122

DST#: 4

ATTN: Steve Murphy

Test Start: 2009.06.03 @ 10:41:42

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 61.00 sec/qt

Water Loss: 7.97 in³

Resistivity: ohm.m

Salinity: 5300.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Water	0.295
80.00	MCW 65%W 35%M	0.539
10.00	Free Oil 5%G 95%O	0.140
0.00	30ft GIP	0.000

Total Length: 150.00 ft

Total Volume: 0.974 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

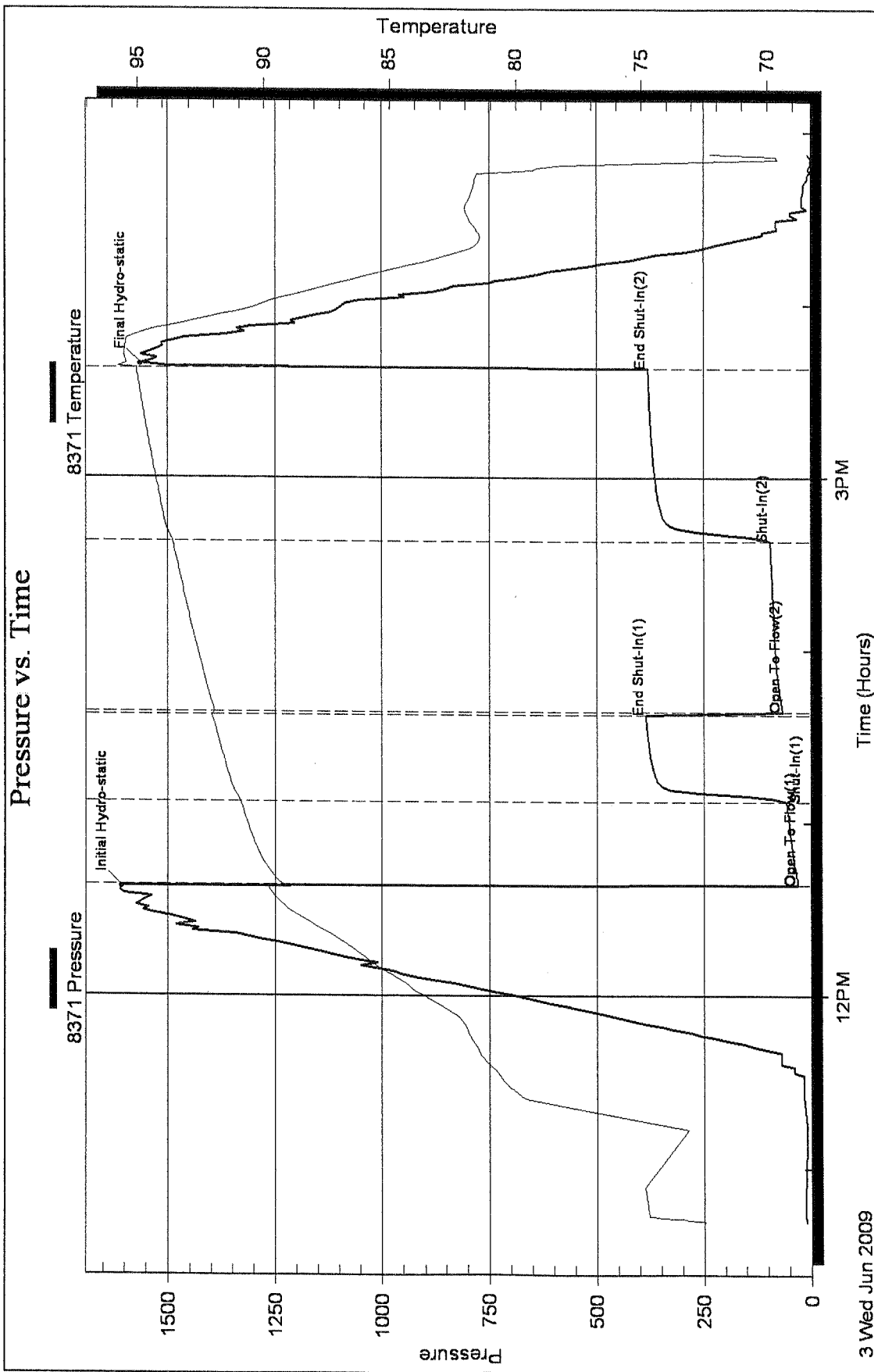
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell, KS 67665

ATTN: Steve Murphy

11-10s-16w Rooks KS

Ziegler A#1

Start Date: 2009.06.04 @ 03:39:54

End Date: 2009.06.04 @ 09:08:24

Job Ticket #: 36123 DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer

PO Box 352
Russell, KS 67665

ATTN: Steve Murphy

Ziegler A#1

11-10s-16w Rooks KS

Job Ticket: 36123

DST#: 5

Test Start: 2009.06.04 @ 03:39:54

GENERAL INFORMATION:

Formation: **LKC "I,J,K,"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:44:24

Time Test Ended: 09:08:24

Interval: **3223.00 ft (KB) To 3295.00 ft (KB) (TVD)**

Total Depth: 3295.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 41

Reference Elevations: 1926.00 ft (KB)

1921.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8371

Outside

Press@RunDepth: 36.32 psig @ 3227.00 ft (KB)

Start Date: 2009.06.04

End Date:

2009.06.04

Capacity: 7000.00 psig

Last Calib.: 2009.06.04

Start Time: 03:39:59

End Time:

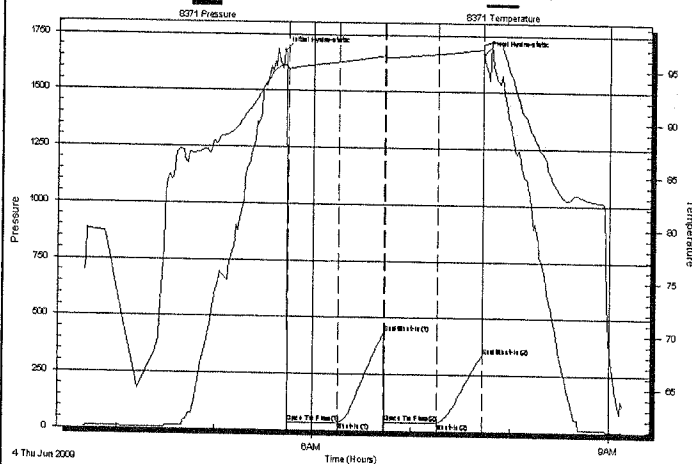
09:08:23

Time On Btm: 2009.06.04 @ 05:42:24

Time Off Btm: 2009.06.04 @ 07:43:54

TEST COMMENT: IF-1in blow
IS-1in blow
FF-No blow
FS-1in blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1677.61	95.33	Initial Hydro-static
2	34.31	94.93	Open To Flow (1)
34	35.88	95.66	Shut-In (1)
61	431.86	96.29	End Shut-In (1)
62	36.61	96.06	Open To Flow (2)
94	36.32	96.49	Shut-In (2)
121	337.56	96.96	End Shut-In (2)
122	1665.89	97.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02
		0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Ziegler A#1

PO Box 352
Russell, KS 67665

11-10s-16w Rooks KS

Job Ticket: 36123

DST#: 5

ATTN: Steve Murphy

Test Start: 2009.06.04 @ 03:39:54

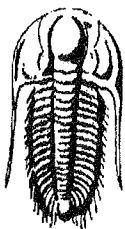
Tool Information

Drill Pipe:	Length: 3101.00 ft	Diameter: 3.80 inches	Volume: 43.50 bbl	Tool Weight: 2500.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 55000.00 lb
		Total Volume: 44.11 bbl		Tool Chased ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3223.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.00 ft			
Tool Length:	99.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3201.00	
Hydraulic tool	5.00			3206.00	
Jars	5.00			3211.00	
Safety Joint	2.00			3213.00	
Packer	5.00			3218.00	27.00 Bottom Of Top Packer
Packer	5.00			3223.00	
Stubb	1.00			3224.00	
Perforations	3.00			3227.00	
Recorder	0.00	8018	Inside	3227.00	
Recorder	0.00	8371	Outside	3227.00	
Change Over Sub	1.00			3228.00	
Blank Spacing	63.00			3291.00	
Change Over Sub	1.00			3292.00	
Bullnose	3.00			3295.00	72.00 Bottom Packers & Anchor

Total Tool Length: 99.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Ziegler A#1

PO Box 352
Russell, KS 67665

11-10s-16w Rooks KS

Job Ticket: 36123

DST#: 5

ATTN: Steve Murphy

Test Start: 2009.06.04 @ 03:39:54

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: 556.00 sec/qt

Cushion Volume:

bbl

Water Loss: 87.81 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025
		0.000

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

