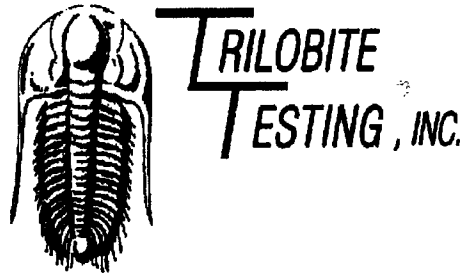


15-101-22182

29-19s-29w



DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W. State Road 4
Olmits, KS 67564-856#1-8561

ATTN: Bob Lewellyn

29-19s-29w Lane KS

K.L. Johnson Farms #1-29

Start Date: 2009.08.05 @ 10:56:00

End Date: 2009.08.05 @ 17:02:09

Job Ticket #: 34650 DST #: 1

CONFIDENTIAL

NOV 25 2009

KCC

*K.L. Johnson
12/10/09*

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Printed: 2009.08.21 @ 08:45:54

NOV 30 2009

KCC WICHITA

Larson Engineering

K.L. Johnson Farms #1-29

29-19s-29w Lane KS

DST # 1

LKC 'H'

2009.08.05



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Larson Engineering
562 W. State Road 4
Olmritz, KS 67564-856#1-8561

ATTN: Bob Lewellyn

K.L. Johnson Farms #1-29

29-19s-29w Lane KS

Job Ticket: 34650

DST#: 1

Test Start: 2009.08.05 @ 10:56:00

GENERAL INFORMATION:

Formation: LKC 'H'

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:54:00

Time Test Ended: 17:02:09

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: 4178.00 ft (KB) To 4216.00 ft (KB) (TVD)

Total Depth: 4216.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2879.00 ft (KB)

2869.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8351

Inside

Press@RunDepth: 58.02 psig @ 4183.00 ft (KB)

Start Date: 2009.08.05

End Date:

2009.08.05

Start Time: 10:56:01

End Time:

17:02:10

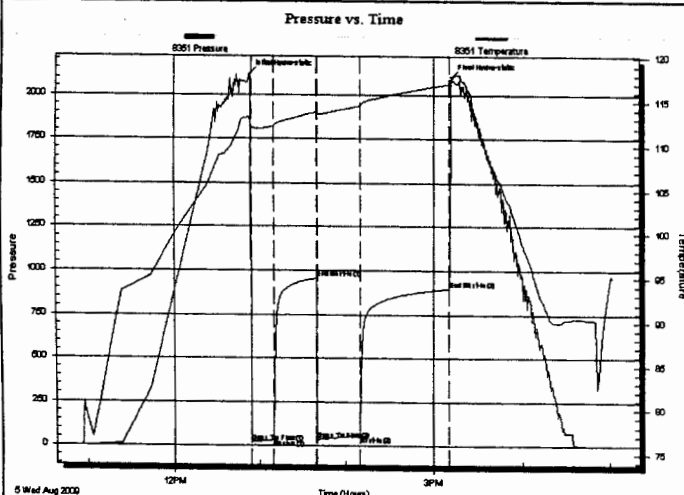
Capacity: 7000.00 psig

Last Calib.: 2009.08.05

Time On Btm: 2009.08.05 @ 12:53:00

Time Off Btm: 2009.08.05 @ 15:12:00

TEST COMMENT: IF: 1" Blow.
IS: No return.
FF: 1 1/2" Blow.
FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2113.00	113.21	Initial Hydro-static
1	19.09	112.13	Open To Flow (1)
17	32.59	112.21	Shut-In(1)
47	956.19	113.86	End Shut-In(1)
47	34.57	113.49	Open To Flow (2)
77	58.02	114.59	Shut-In(2)
138	896.87	117.03	End Shut-In(2)
139	2098.24	117.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OSM 100%M	0.15
60.00	DM 100%M	0.30
0.00	No GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering

K.L. Johnson Farms #1-29

562 W. State Road 4
Olmritz, KS 67564-856#1-8561

29-19s-29w Lane KS

Job Ticket: 34650

DST#: 1

ATTN: Bob Lewellyn

Test Start: 2009.08.05 @ 10:56:00

Tool Information

Drill Pipe:	Length: 4047.00 ft	Diameter: 3.80 inches	Volume: 56.77 bbl	Tool Weight:	2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	28000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	80000.00 lb
		Total Volume:	57.38 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.50 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4178.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	38.00 ft				
Tool Length:	65.50 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			4151.50	
Shut In Tool	5.00			4156.50	
Hydraulic tool	5.00			4161.50	
Jars	5.00			4166.50	
Safety Joint	2.50			4169.00	
Packer	5.00			4174.00	27.50 Bottom Of Top Packer
Packer	4.00			4178.00	
Stubb	1.00			4179.00	
Perforations	4.00			4183.00	
Recorder	0.00	8359	Inside	4183.00	
Recorder	0.00	8351	Inside	4183.00	
Perforations	0.00			4183.00	
Change Over Sub	1.00			4184.00	
Drill Pipe	30.00			4214.00	
Change Over Sub	1.00			4215.00	
Bullnose	1.00			4216.00	38.00 Bottom Packers & Anchor
Total Tool Length:	65.50				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering

562 W. State Road 4
Olmritz, KS 67564-856#1-8561

ATTN: Bob Lewellyn

K.L. Johnson Farms #1-29

29-19s-29w Lane KS

Job Ticket: 34650

DST#: 1

Test Start: 2009.08.05 @ 10:56:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 6.76 in³

Resistivity: 0.00 ohm.m

Salinity: 2400.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

0 deg API

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OSM 100%M	0.148
60.00	DM 100%M	0.295
0.00	No GIP	0.000

Total Length: 90.00 ft

Total Volume: 1344.296 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

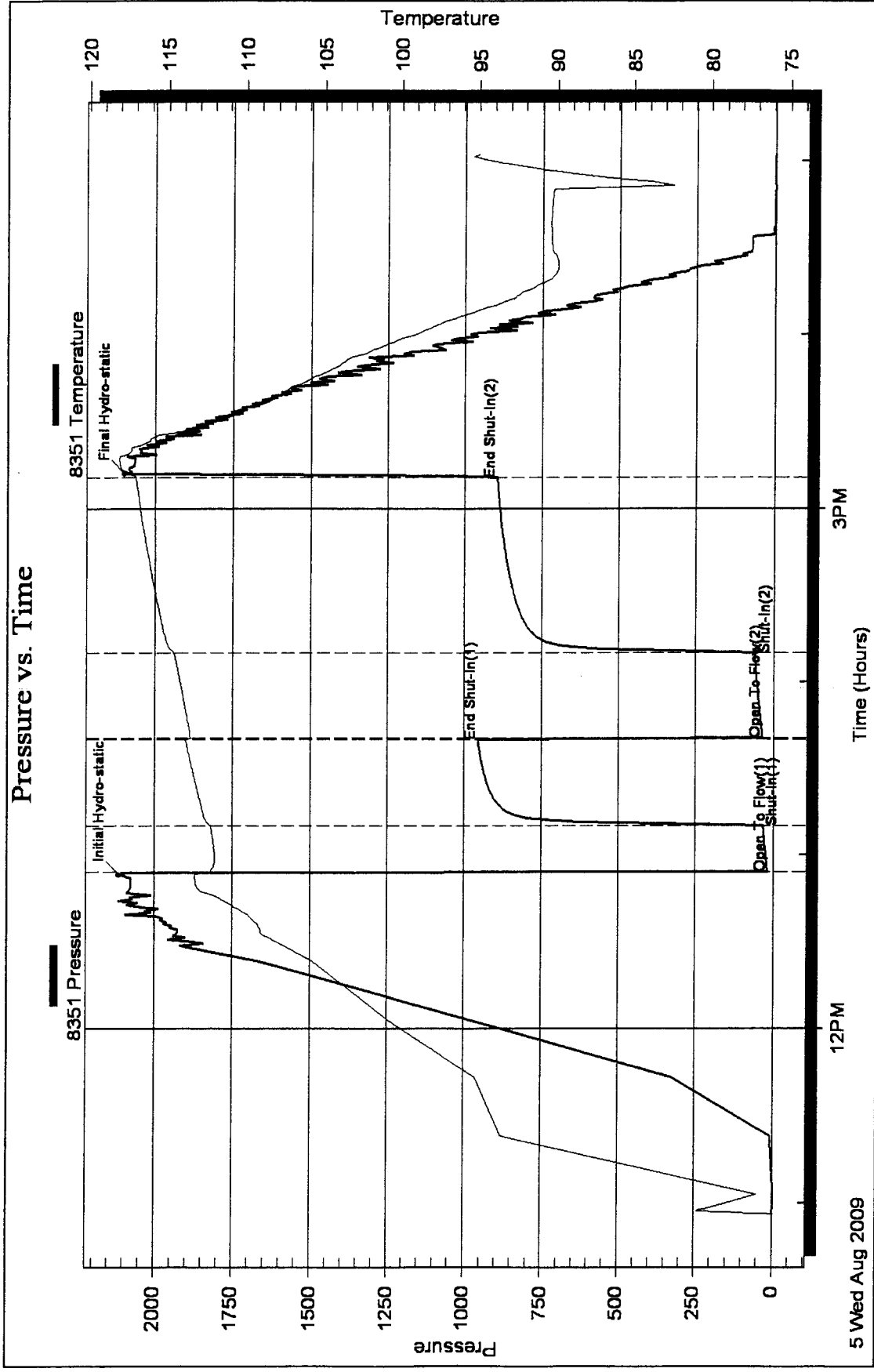
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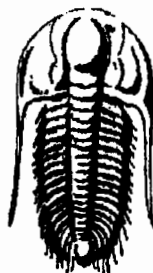
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W. State Road 4
Olmitz, KS 67564-856#1-8561

ATTN: Bob Lewellyn

29-19s-29w Lane KS

K.L. Johnson Farms #1-29

Start Date: 2009.08.06 @ 04:30:00

End Date: 2009.08.06 @ 12:19:12

Job Ticket #: 34826 DST #: 2

CONFIDENTIAL

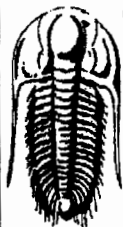
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Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Larson Engineering
562 W. State Road 4
Olmitz, KS 67564-856#1-8561
ATTN: Bob Lewellyn

K.L. Johnson Farms #1-29
29-19s-29w Lane KS
Job Ticket: 34826 DST#: 2
Test Start: 2009.08.06 @ 04:30:00

GENERAL INFORMATION:

Formation: **LKC 'J'**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 07:03:42
Time Test Ended: 12:19:12

Test Type: **Conventional Bottom Hole**
Tester: **Chuck Smith**
Unit No: **37**

Interval: **4262.00 ft (KB) To 4281.00 ft (KB) (TVD)**
Total Depth: **4281.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2879.00 ft (KB)**
2869.00 ft (CF)
KB to GR/CF: **10.00 ft**

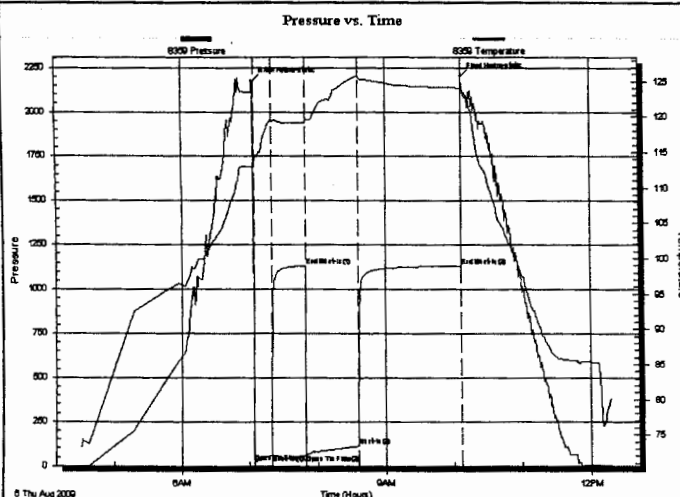
Serial #: 8359

Inside

Press@RunDepth: **112.12 psig @ 4276.00 ft (KB)**
Start Date: **2009.08.06** End Date: **2009.08.06**
Start Time: **04:30:05** End Time: **12:19:12**

Capacity: **7000.00 psig**
Last Calib.: **2009.08.06**
Time On Btrn: **2009.08.06 @ 07:02:54**
Time Off Btrn: **2009.08.06 @ 10:06:54**

TEST COMMENT: IF: 3" Blow.
ISI: No return.
FF: 9" Blow.
FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2172.60	113.00	Initial Hydro-static
1	22.37	112.99	Open To Flow (1)
17	62.08	119.63	Shut-In (1)
47	1132.23	119.14	End Shut-In (1)
47	64.49	119.48	Open To Flow (2)
93	112.12	125.81	Shut-In (2)
184	1133.01	124.08	End Shut-In (2)
185	2200.00	124.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MW 30%M 70%W	0.61
80.00	MW 50%M 50%W	1.12
0.00	Spots of oil in tool.	0.00
0.00	No GIP	0.00
0.00	RW: .340 @ 80 Degrees F = 18,000 ch	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering
562 W. State Road 4
Olmitz, KS 67564-856#1-8561

ATTN: Bob Lewellyn

K.L. Johnson Farms #1-29
29-19s-29w Lane KS
Job Ticket: 34826 **DST#: 2**
Test Start: 2009.08.06 @ 04:30:00

Tool Information

Drill Pipe:	Length: 4141.00 ft	Diameter: 3.80 inches	Volume: 58.09 bbl	Tool Weight: 2300.00 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: 80000.00 lb
		Total Volume:	58.70 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.50 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4262.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	42.50 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			4239.50	
Shut In Tool	5.00			4244.50	
Hydraulic tool	5.00			4249.50	
Jars	5.00			4254.50	
Safety Joint	2.50			4257.00	
Packer	5.00			4262.00	23.50 Bottom Of Top Packer
Blank Spacing	5.00			4267.00	19.00 Tool Interval
Packer	4.00			4271.00	
Stubb	1.00			4272.00	
Perforations	4.00			4276.00	
Recorder	0.00	8359	Inside	4276.00	
Recorder	0.00	8351	Inside	4276.00	
Bullnose	5.00			4281.00	1000041.50 Bottom Packers & Anchor

Total Tool Length: 42.50



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering
562 W. State Road 4
Olmitz, KS 67564-856#1-8561
ATTN: Bob Lewellyn

K.L. Johnson Farms #1-29
29-19s-29w Lane KS
Job Ticket: 34826 DST#: 2
Test Start: 2009.08.06 @ 04:30:00

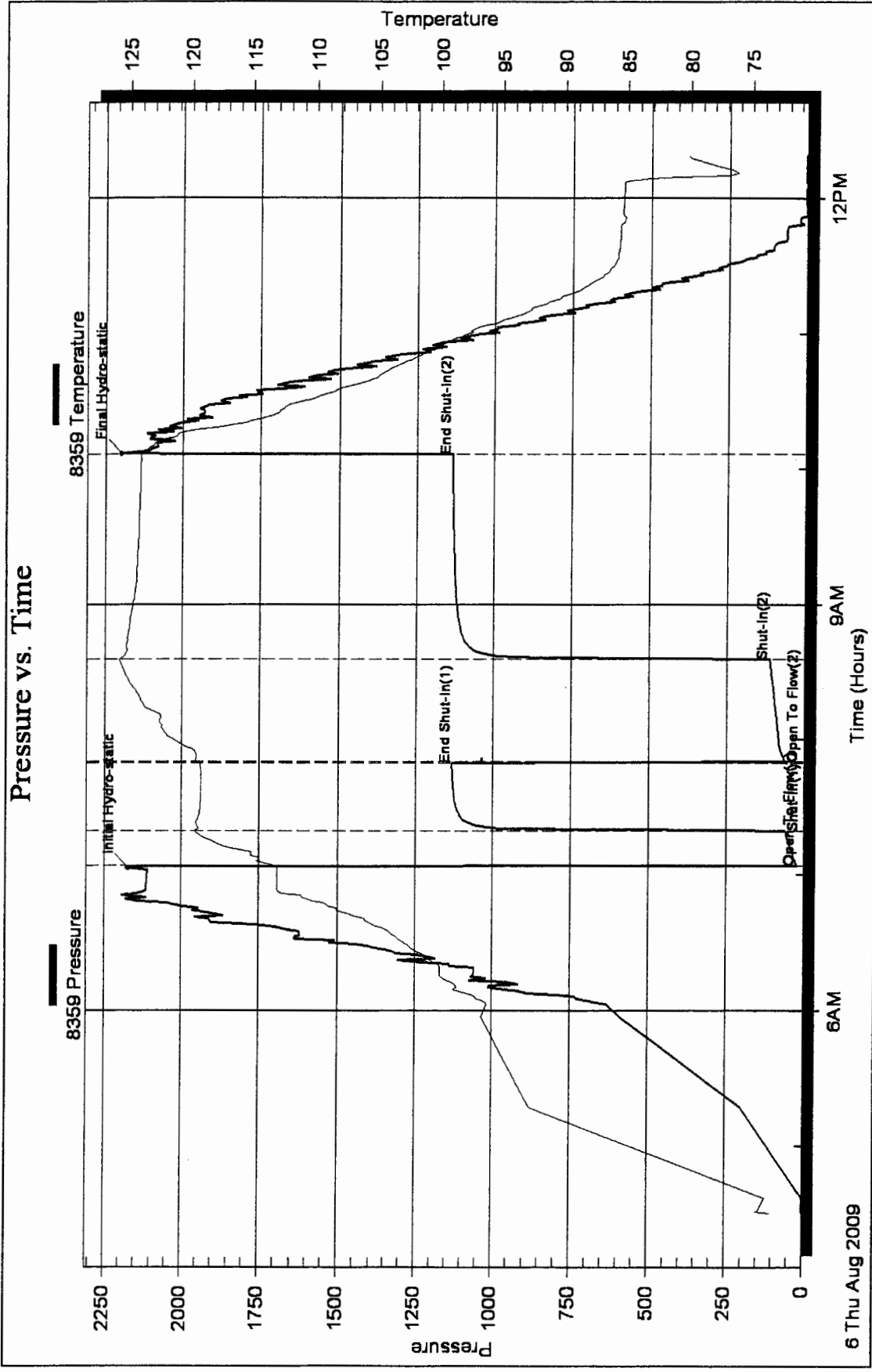
Tool Information

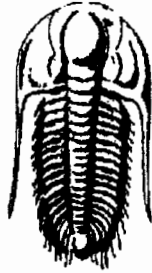
Drill Pipe:	Length: 4141.00 ft	Diameter: 3.80 inches	Volume: 58.09 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume: 58.70 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	26.50 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4262.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	42.50 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			4239.50	
Shut In Tool	5.00			4244.50	
Hydraulic tool	5.00			4249.50	
Jars	5.00			4254.50	
Safety Joint	2.50			4257.00	
Packer	5.00			4262.00	23.50 Bottom Of Top Packer
Blank Spacing	5.00			4267.00	19.00 Tool Interval
Packer	4.00			4271.00	
Stubb	1.00			4272.00	
Perforations	4.00			4276.00	
Recorder	0.00	8359	Inside	4276.00	
Recorder	0.00	8351	Inside	4276.00	
Bullnose	5.00			4281.00	1000041.50 Bottom Packers & Anchor
Total Tool Length:		42.50			

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W. State Road 4
Olmitz, KS 67564-856#1-8561

CONFIDENTIAL

ATTN: Bob Lewellyn

NOV 25 2009

29-19s-29w Lane KS

KCC

K.L. Johnson Farms #1-29

Start Date: 2009.08.07 @ 00:01:00

End Date: 2009.08.07 @ 06:26:00

Job Ticket #: 34827 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

Larson Engineering
562 W. State Road 4
Olmitz, KS 67564-856#1-8561

ATTN: Bob Lewellyn

K.L. Johnson Farms #1-29

29-19s-29w Lane KS

Job Ticket: 34827

DST#: 3

Test Start: 2009.08.07 @ 00:01:00

GENERAL INFORMATION:

Formation: LKC 'L'

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:55:00

Time Test Ended: 06:26:00

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: 4328.00 ft (KB) To 4352.00 ft (KB) (TVD)

Total Depth: 4352.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2879.00 ft (KB)

2869.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8351

Inside

Press@RunDepth: 153.21 psig @ 4332.00 ft (KB)

Start Date: 2009.08.07

End Date:

2009.08.07

Start Time: 00:01:01

End Time:

06:26:00

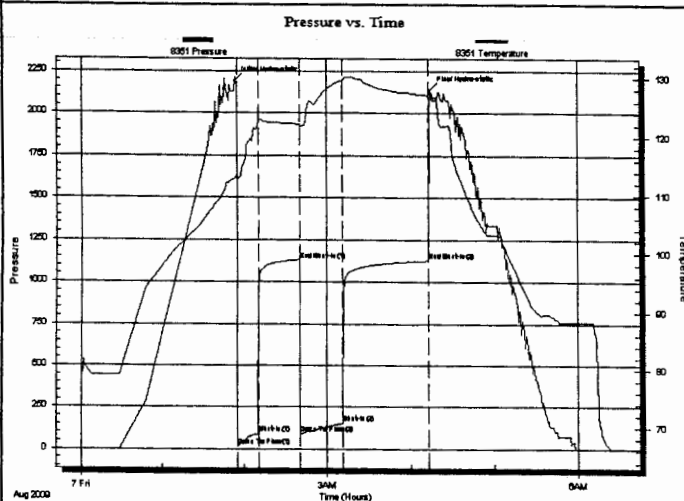
Capacity: 7000.00 psig

Last Calib.: 2009.08.07

Time On Btm: 2009.08.07 @ 01:53:40

Time Off Btm: 2009.08.07 @ 04:14:00

TEST COMMENT: IF: 7" Blow.
IS: No return.
FF: B.O.B. @ 27 min.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2191.72	113.10	Initial Hydro-static
2	17.88	112.41	Open To Flow (1)
17	89.08	121.96	Shut-In (1)
47	1130.71	122.18	End Shut-In (1)
47	91.29	121.74	Open To Flow (2)
78	153.21	129.68	Shut-In (2)
140	1125.12	127.13	End Shut-In (2)
141	2140.54	127.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
188.00	MW 15%M 85%W	1.51
112.00	MW 45%M 55%W	1.57
0.00	No GIP	0.00
0.00	RW: .375 @ 68 Degrees F = 20000 chlor	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering
562 W. State Road 4
Olmitz, KS 67564-856#1-8561
ATTN: Bob Lewellyn

K.L. Johnson Farms #1-29
29-19s-29w Lane KS
Job Ticket: 34827 **DST#: 3**
Test Start: 2009.08.07 @ 00:01:00

Tool Information

Drill Pipe:	Length: 4197.00 ft	Diameter: 3.80 inches	Volume: 58.87 bbl	Tool Weight: 2300.00 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: 75000.00 lb
		Total Volume:	59.48 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.50 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4328.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	51.50 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			4301.50	
Shut In Tool	5.00			4306.50	
Hydraulic tool	5.00			4311.50	
Jars	5.00			4316.50	
Safety Joint	2.50			4319.00	
Packer	5.00			4324.00	27.50 Bottom Of Top Packer
Packer	4.00			4328.00	
Stubb	1.00			4329.00	
Perforations	3.00			4332.00	
Recorder	0.00	8359	Inside	4332.00	
Recorder	0.00	8351	Inside	4332.00	
Perforations	15.00			4347.00	
Bullnose	5.00			4352.00	24.00 Bottom Packers & Anchor

Total Tool Length: 51.50



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering

K.L. Johnson Farms #1-29

562 W. State Road 4
Olmitz, KS 67564-856#1-8561

29-19s-29w Lane KS

Job Ticket: 34827

DST#: 3

ATTN: Bob Lewellyn

Test Start: 2009.08.07 @ 00:01:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.17 in³

Resistivity: 0.00 ohm.m

Salinity: 2200.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

0 deg API

Water Salinity:

20000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
188.00	MW 15%M 85%W	1.508
112.00	MW 45%M 55%W	1.571
0.00	No GIP	0.000
0.00	RW: .375 @ 68 Degrees F = 20000 chlor	0.000

Total Length: 300.00 ft

Total Volume: 3.079 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

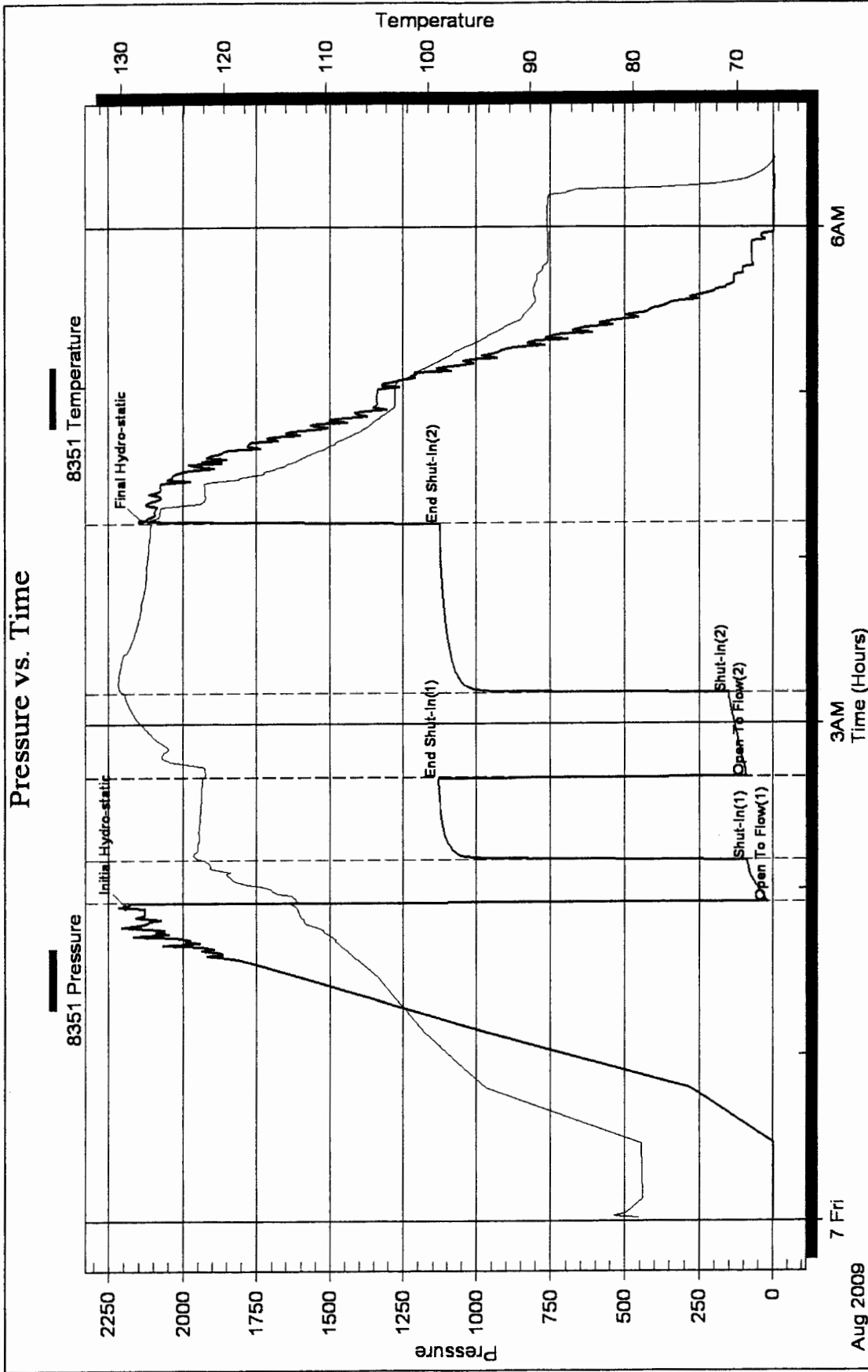
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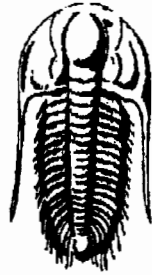
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W. State Road 4
Olmitz, KS 67564-856#1-8561

ATTN: Bob Lewellyn

29-19s-29w Lane KS

K.L. Johnson Farms #1-29

Start Date: 2009.08.07 @ 22:55:00

End Date: 2009.08.08 @ 06:17:17

Job Ticket #: 34828 DST #: 4

CONFIDENTIAL

NOV 25 2009

KCC

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Larson Engineering
562 W. State Road 4
Olmritz, KS 67564-856#1-8561
ATTN: Bob Lewellyn

K.L. Johnson Farms #1-29
29-19s-29w Lane KS
Job Ticket: 34828 DST#: 4
Test Start: 2009.08.07 @ 22:55:00

GENERAL INFORMATION:

Formation: **Altamont**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 00:47:36
Time Test Ended: 06:17:17
Interval: **4410.00 ft (KB) To 4487.00 ft (KB) (TVD)**
Total Depth: **4487.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole**
Tester: **Chuck Smith**
Unit No: **37**
Reference Elevations: **2879.00 ft (KB)**
2869.00 ft (CF)
KB to GR/CF: **10.00 ft**

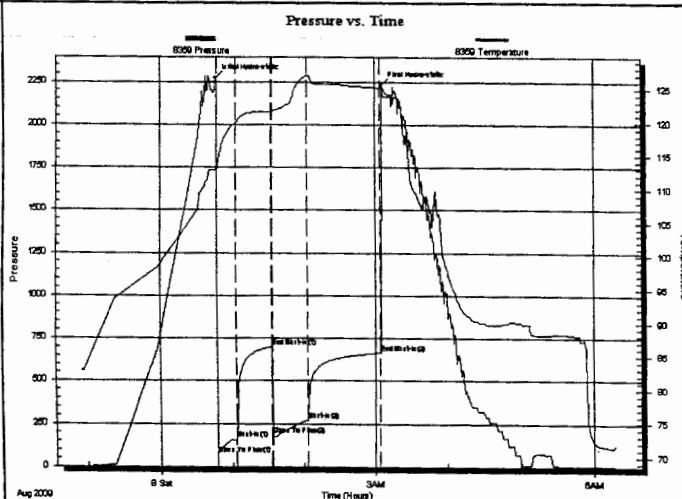
Serial #: 8359

Inside

Press@RunDepth: **272.96 psig @ 4419.00 ft (KB)**
Start Date: **2009.08.07** End Date: **2009.08.08**
Start Time: **22:55:05** End Time: **06:17:18**

Capacity: **7000.00 psig**
Last Calib.: **2009.08.08**
Time On Btm: **2009.08.08 @ 00:46:36**
Time Off Btm: **2009.08.08 @ 03:05:30**

TEST COMMENT: IF: B.O.B. @ 3 min.
IS: 9" Return.
FF: B.O.B. @ 6 min.
B.O.B. @ 17 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2272.25	113.03	Initial Hydro-static
1	72.34	112.73	Open To Flow (1)
17	160.79	119.94	Shut-In(1)
47	698.60	121.52	End Shut-In(1)
47	183.40	121.75	Open To Flow (2)
77	272.96	127.05	Shut-In(2)
138	665.56	125.21	End Shut-In(2)
139	2230.64	125.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GMCO 30%G 15%M 55%O	0.61
124.00	GMCO 60%G 10%M 30%O	1.74
248.00	GMCO 40%G 10%M 50%O	3.48
254.00	GMCO 47%G 18%M 35%O	3.56
0.00	745 Feet GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering

562 W. State Road 4
Olmitz, KS 67564-856#1-8561

ATTN: Bob Lewellyn

K.L. Johnson Farms #1-29

29-19s-29w Lane KS

Job Ticket: 34828

DST#: 4

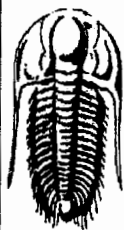
Test Start: 2009.08.07 @ 22:55:00

Tool Information

Drill Pipe:	Length: 4290.00 ft	Diameter: 3.80 inches	Volume: 60.18 bbl	Tool Weight:	2300.00 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:	80000.00 lb
		Total Volume:	60.79 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.50 ft			String Weight: Initial	66000.00 lb
Depth to Top Packer:	4410.00 ft			Final	71000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	77.00 ft				
Tool Length:	104.50 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			4383.50	
Shut In Tool	5.00			4388.50	
Hydraulic tool	5.00			4393.50	
Jars	5.00			4398.50	
Safety Joint	2.50			4401.00	
Packer	5.00			4406.00	27.50 Bottom Of Top Packer
Packer	4.00			4410.00	
Stubb	1.00			4411.00	
Perforations	8.00			4419.00	
Recorder	0.00	8359	Inside	4419.00	
Recorder	0.00	8351	Inside	4419.00	
Perforations	0.00			4419.00	
Change Over Sub	1.00			4420.00	
Drill Pipe	61.00			4481.00	
Change Over Sub	1.00			4482.00	
Bullnose	5.00			4487.00	77.00 Bottom Packers & Anchor
Total Tool Length:		104.50			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering

K.L. Johnson Farms #1-29

562 W. State Road 4
Olmitz, KS 67564-856#1-8561

29-19s-29w Lane KS

Job Ticket: 34828

DST#: 4

ATTN: Bob Lewellyn

Test Start: 2009.08.07 @ 22:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	GMCO 30%G 15%M 55%O	0.610
124.00	GMCO 60%G 10%M 30%O	1.739
248.00	GMCO 40%G 10%M 50%O	3.479
254.00	GMCO 47%G 18%M 35%O	3.563
0.00	745 Feet GIP	0.000

Total Length: 750.00 ft

Total Volume: 9.391 bbl

Num Fluid Samples: 0

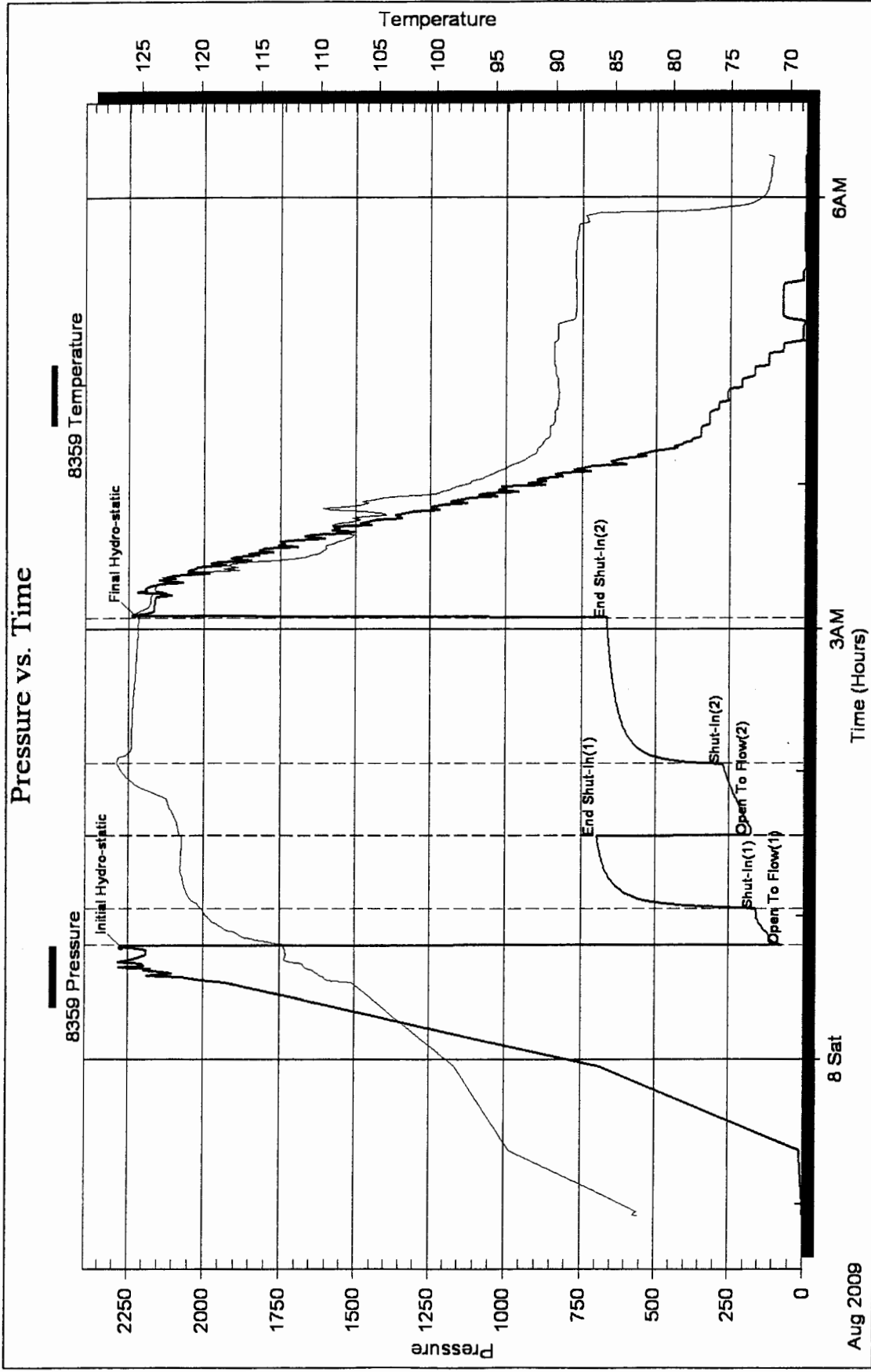
Num Gas Bombs: 0

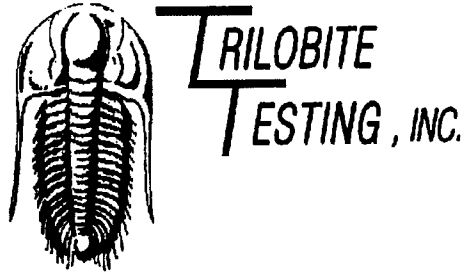
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 36 @ 80 Degrees F = 34.





DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W. State Road 4
Olmits, KS 67564-856#1-8561

ATTN: Bob Lewellyn

29-19s-29w Lane KS

K.L. Johnson Farms #1-29

Start Date: 2009.08.09 @ 01:52:34

End Date: 2009.08.09 @ 07:13:13

Job Ticket #: 34829 DST #: 5

CONFIDENTIAL

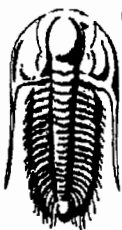
NOV 25 2009

KCC

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Larson Engineering
562 W. State Road 4
Olmitz, KS 67564-856#1-8561
ATTN: Bob Lewellyn

K.L. Johnson Farms #1-29
29-19s-29w Lane KS
Job Ticket: 34829 **DST#: 5**
Test Start: 2009.08.09 @ 01:52:34

GENERAL INFORMATION:

Formation: **Pawnee- Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:27:43

Time Test Ended: 07:13:13

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 37

Interval: **4497.00 ft (KB) To 4620.00 ft (KB) (TVD)**

Total Depth: 4216.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2879.00 ft (KB)

2869.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8351 Inside

Press@RunDepth: psig @ 4522.00 ft (KB)

Start Date: 2009.08.09

End Date: 2009.08.09

Start Time: 01:52:34

End Time: 07:13:13

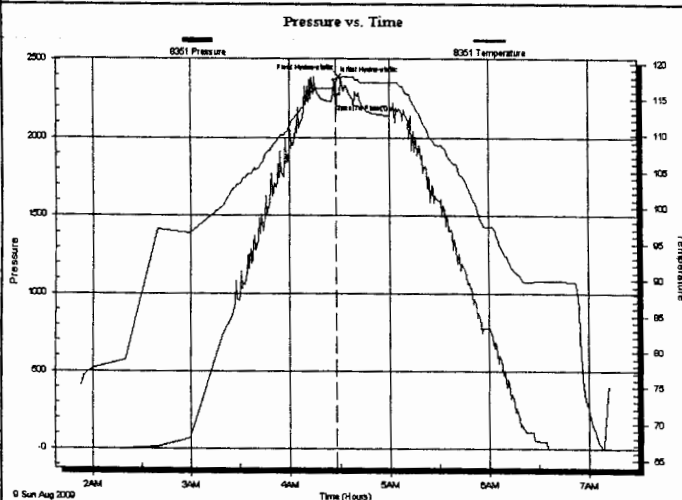
Capacity: 7000.00 psig

Last Calib.: 2009.08.09

Time On Btm: 2009.08.09 @ 04:26:13

Time Off Btm: 2009.08.09 @ 04:30:13

TEST COMMENT: IF: Packer failed at open.



PRESSURE SUMMARY

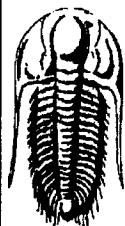
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2365.68	116.44	Initial Hydro-static
2	2162.41	117.07	Open To Flow (1)
4	2379.91	118.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
246.00	mud 100% m	2.32

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering
562 W. State Road 4
Olmitz, KS 67564-856#1-8561
ATTN: Bob Lewellyn

K.L. Johnson Farms #1-29
29-19s-29w Lane KS
Job Ticket: 34829 **DST#: 5**
Test Start: 2009.08.09 @ 01:52:34

Tool Information

Drill Pipe:	Length: 4375.00 ft	Diameter: 3.80 inches	Volume: 61.37 bbl	Tool Weight: 2300.00 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: 70000.00 lb
			Total Volume: 61.98 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.50 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	4497.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	123.00 ft			
Tool Length:	150.50 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			4470.50	
Shut In Tool	5.00			4475.50	
Hydraulic tool	5.00			4480.50	
Jars	5.00			4485.50	
Safety Joint	2.50			4488.00	
Packer	5.00			4493.00	27.50 Bottom Of Top Packer
Packer	4.00			4497.00	
Stubb	1.00			4498.00	
Perforations	24.00			4522.00	
Recorder	0.00	8359	Inside	4522.00	
Recorder	0.00	8351	Inside	4522.00	
Perforations	0.00			4522.00	
Change Over Sub	1.00			4523.00	
Drill Pipe	91.00			4614.00	
Change Over Sub	1.00			4615.00	
Bullnose	5.00			4620.00	123.00 Bottom Packers & Anchor
Total Tool Length:	150.50				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering

K.L. Johnson Farms #1-29

562 W. State Road 4
Olmritz, KS 67564-856#1-8561

29-19s-29w Lane KS

Job Ticket: 34829

DST#: 5

ATTN: Bob Lewellyn

Test Start: 2009.08.09 @ 01:52:34

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.57 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
246.00	mud 100% _m	2.321

Total Length: 246.00 ft

Total Volume: 2.321 bbl

Num Fluid Samples: 0

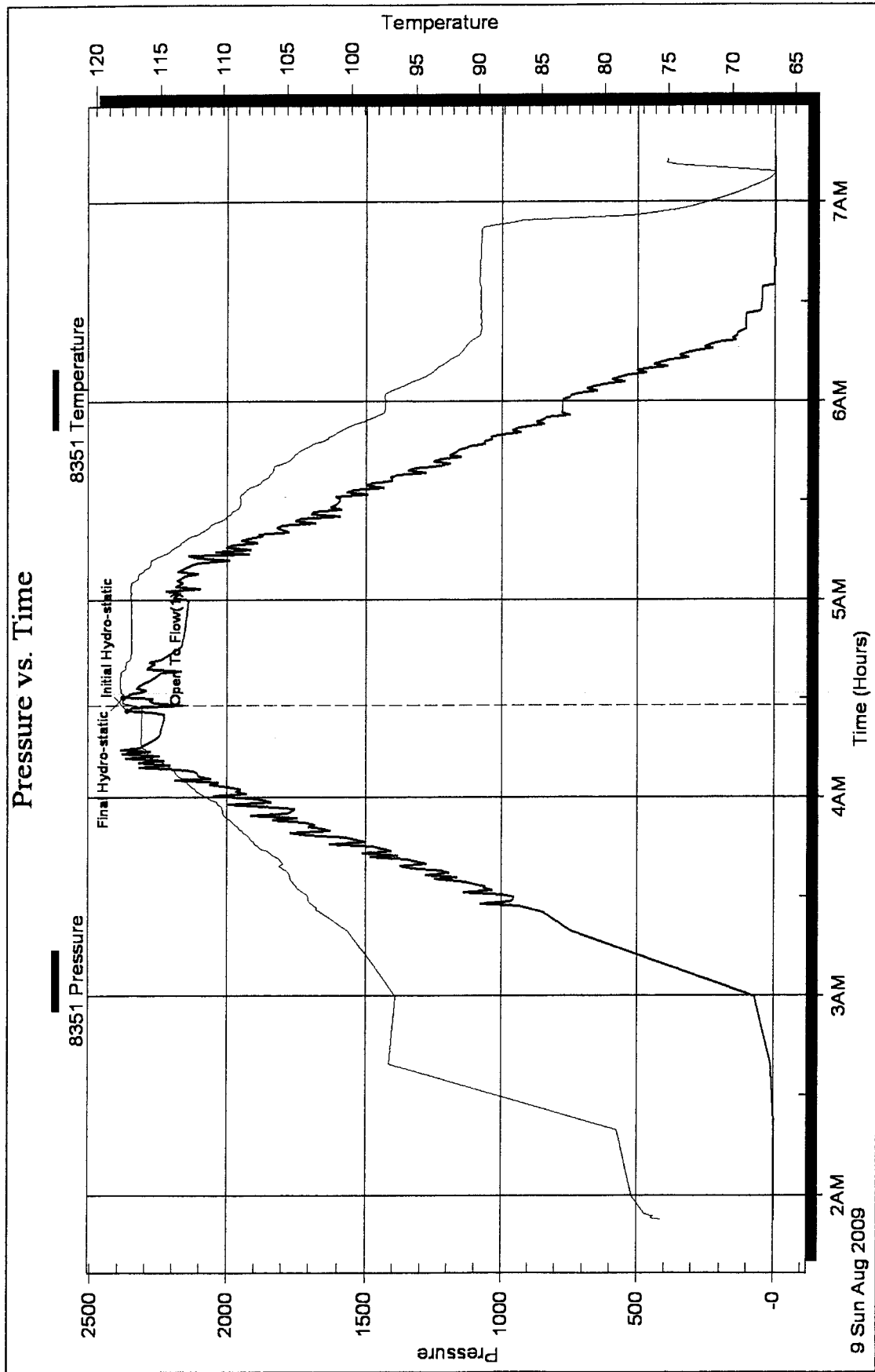
Num Gas Bombs: 0

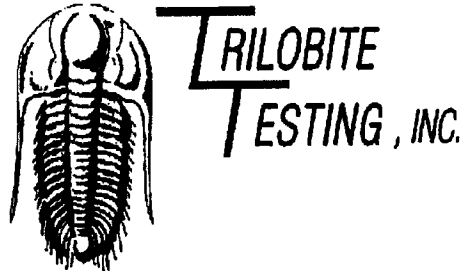
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W. State Road 4
Olmitz, KS 67564-8561

ATTN: Bob Lewellyn

29-19s-29w Lane KS

K.L. Johnson Farms #1-29

Start Date: 2009.08.09 @ 07:30:10

End Date: 2009.08.09 @ 12:38:00

Job Ticket #: 34830 DST #: 6

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KCC

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering

562 W. State Road 4
Olmritz, KS 67564-8561

ATTN: Bob Lewellyn

K.L. Johnson Farms #1-29

29-19s-29w Lane KS

Job Ticket: 34830

DST#: 6

Test Start: 2009.08.09 @ 07:30:10

GENERAL INFORMATION:

Formation: **Pawnee-Johnson**

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

Time Tool Opened: 09:29:40

Time Test Ended: 12:38:00

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **37**

Interval: **4479.00 ft (KB) To 4620.00 ft (KB) (TVD)**

Total Depth: **4620.00 ft (KB) (TVD)**

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

Reference Elevations: **2879.00 ft (KB)**

2869.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: 8351 Inside

Press@RunDepth: **psig @ 4491.00 ft (KB)**

Start Date: **2009.08.09**

End Date: **2009.08.09**

Start Time: **07:30:11**

End Time: **12:38:00**

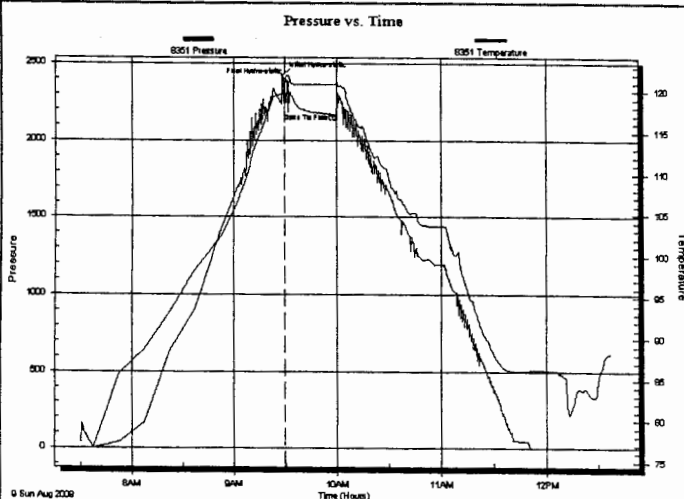
Capacity: **7000.00 psig**

Last Calib.: **2009.08.09**

Time On Btm: **2009.08.09 @ 09:28:20**

Time Off Btm: **2009.08.09 @ 09:31:40**

TEST COMMENT: IF: Packers failed at open.



PRESSURE SUMMARY

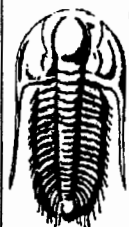
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2421.45	119.79	Initial Hydro-static
2	2121.98	119.54	Open To Flow (1)
4	2378.45	121.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	mud 100% m	1.48

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering

562 W. State Road 4
Olmitz, KS 67564-8561

ATTN: Bob Lewellyn

K.L. Johnson Farms #1-29

29-19s-29w Lane KS

Job Ticket: 34830

DST#: 6

Test Start: 2009.08.09 @ 07:30:10

Tool Information

Drill Pipe:	Length: 4347.00 ft	Diameter: 3.80 inches	Volume: 60.98 bbl	Tool Weight: 2300.00 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: 70000.00 lb
			Total Volume: 61.59 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.50 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	4479.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	141.00 ft			
Tool Length:	168.50 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			4452.50	
Shut In Tool	5.00			4457.50	
Hydraulic tool	5.00			4462.50	
Jars	5.00			4467.50	
Safety Joint	2.50			4470.00	
Packer	5.00			4475.00	27.50 Bottom Of Top Packer
Packer	4.00			4479.00	
Stubb	1.00			4480.00	
Perforations	11.00			4491.00	
Recorder	0.00	8359	Inside	4491.00	
Recorder	0.00	8351	Inside	4491.00	
Change Over Sub	1.00			4492.00	
Drill Pipe	122.00			4614.00	
Change Over Sub	1.00			4615.00	
Bullnose	5.00			4620.00	141.00 Bottom Packers & Anchor

Total Tool Length: 168.50



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering

K.L. Johnson Farms #1-29

562 W. State Road 4
Olmitz, KS 67564-8561

29-19s-29w Lane KS

Job Ticket: 34830

DST#: 6

ATTN: Bob Lewellyn

Test Start: 2009.08.09 @ 07:30:10

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	mud 100% _m	1.480

Total Length: 186.00 ft

Total Volume: 1.480 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

